**Supplementary Figures:**

**Supplementary Figure 1:**

Analysis comparing the highly clustered subset of healthy control women versus LBP women (n=4/group) * **(A)** Volcano plot of the differentially methylated positions in the subset of women with x and y axes displaying, respectively, the delta-beta values (effect size) and the log10 of P values for each CpGs site. CpGs more or less methylated in LBP and controls (delta-beta > 10% and P<0.05) are represented in red and blue, respectively. **(B)** Heatmap representation of the methylation profile of the differentially methylated CpGs between healthy controls and LBP participants. Representation of the **(C)** the genomic distribution and **(D)** the neighborhood context of the differentially methylated CpGs detected in LBP participants compared to controls.

* LBP = Low Back Pain, Not DM = Not Differentially Methylated, NS = No significant, W = Women

**Supplementary Figure 2:**

Correlation between average methylation values for cg21149944, cg22831726 and cg07420274 obtained with Illumina 850K array vs. pyrosequencing analysis in the *Discovery Cohort*.

**Supplementary Figure 3:**

Analysis of the clinical phenotype of the subset of highly clustered female LBP participants (LBP subset) revealed differences from the other female LBP participants.

* LBP = Low Back Pain, ODI = Oswestry Disability Index, HADS = Hospital anxiety and depression scale, PCS = Pain catastrophizing scale, EQ = EuroQol, SCL = Symptoms

Checklist. Data are expressed as mean ± standard error to the mean (SEM) and an unpaired *t*-test was used to compare groups. Unpaired two-tailed (Discovery cohort) or one-tailed (Validation cohort) *t* test, * = $p<0.05$, ** = $p<0.01$.

**Supplementary Figure 4:**

**(A)** Representation of gene ontology terms (top 10) and **(B)** KEGG pathways for differentially methylated positions (DMPs) in the subset of highly clustered female LBP participants compared to other 4 LBP participants.

**Supplementary Figure 5:**

**(A&B)** Representation of gene ontology terms (top 10) and **(C&D)** KEGG pathways in women and men for hypo and hyper differentially methylated positions (DMPs) respectively. Not there were no significant ontologies for males in the hyper-methylated dataset nor in the KEGG pathways.

**Supplementary Figure 6:**

Graphic representation (Pathview) of enriched pathways found in women with LBP compared to healthy controls.

**Supplementary Tables:**

**Supplementary Table 1:**

Pyrosequencing primers.

**Supplementary Table 2:** List of all differentially methylated CpGs sites (hypo- and hyper-methylated) between Healthy controls and Low Back Pain participants in both women and men ($p<0.05$ and $(\Delta\beta) \geq 10\%$).

**Supplementary Table 3:** List of all differentially methylated CpGs sites (hypo- and hyper-methylated) between the subset of highly clustered female LBP participants compared to other 4 LBP participants ($p<0.001$ and $(\Delta\beta) \geq 20\%$).

**Supplementary Table 4:**

Genomic characteristics of the differentially hypo- and hyper-methylated positions between healthy controls and LBP participants in women and men.

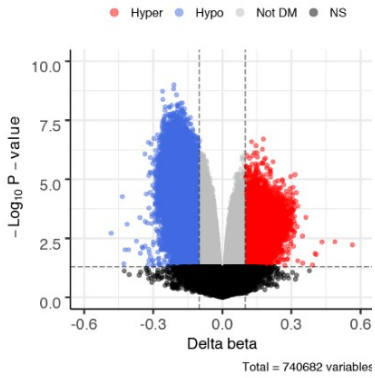
**Supplementary Table 5:**

Summary of GO-enrichment and KEGG pathways analysis of differentially hypo- and hyper-methylated CpGs, analyzed together or separately in both women and men.

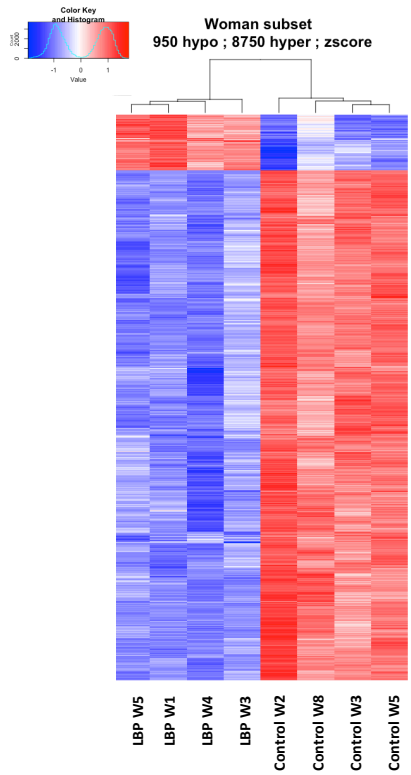
**Supplementary Table 6:**

Summary of GO-enrichment and KEGG pathways analysis of differentially hypo- and hyper-methylated CpGs, analyzed together or separately in the subset of highly clustered female LBP participants compared to other 4 LBP participants.

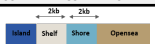
**A**




**B**



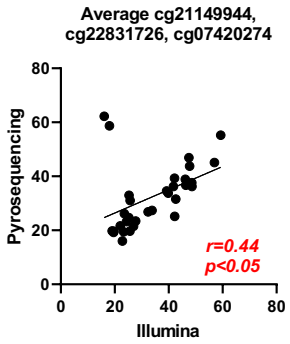

**C**

| CpGs characteristics | Women Subset: Hypo-methylated CpGs sites N | Hypo-methylated CpGs sites % | Hyper-methylated CpGs sites N | Hyper-methylated CpGs sites % | P |
|---|---|---|---|---|---|
| **Methylation status** | 8750 | 90.21 | 950 | 9.79 | |
| **Genomic Distribution** | | | | | |
| TSS1500 | 593 | 6.78 | 93 | 9.79 | **0.0011** |
| TSS200 | 124 | 1.42 | 71 | 7.47 | **<0.0001** |
| 5'UTR | 650 | 7.43 | 122 | 12.84 | **<0.0001** |
| 1st exon | 36 | 0.41 | 32 | 3.37 | **<0.0001** |
| Body | 3556 | 40.64 | 426 | 44.84 | **0.0137** |
| 3'UTR | 148 | 1.69 | 18 | 1.89 | 0.5992 |
| ExonBnd | 56 | 0.64 | 3 | 0.32 | 0.2763 |
| IGR | 3587 | 40.99 | 185 | 19.47 | **<0.0001** |
| **Neighborhood context** |  | | | | |
| Island | 12 | 0.14 | 153 | 16.11 | **<0.0001** |
| Shelf | 488 | 5.58 | 67 | 7.05 | 0.0659 |
| Shore | 509 | 5.82 | 178 | 18.74 | **<0.0001** |
| Opensea | 7741 | 88.47 | 552 | 58.11 | **<0.0001** |

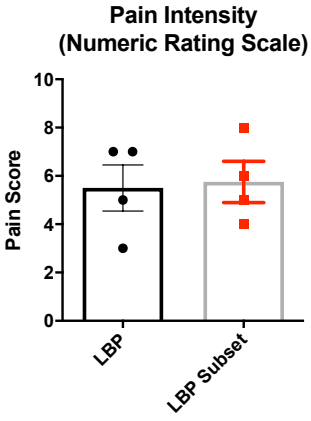
**D**

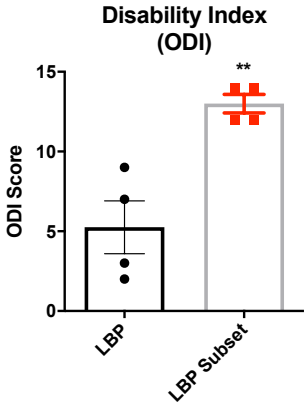
| Ilumina ID | logFC | P.Value | deltaBeta | gene |
|---|---|---|---|---|
| **TOP 10-Hypermethylated** | | | | |
| cg15053404 | -0.22 | 1.82375E-06 | 0.0005 | |
| cg02183960 | -0.21 | 3.7906E-06 | 0.0006 | IL7R |
| cg08841318 | -0.21 | 4.33915E-06 | 0.0006 | RNF217 |
| cg12451425 | -0.21 | 4.94705E-06 | 0.0006 | HOXB-AS1 |
| cg06817490 | -0.21 | 5.75005E-06 | 0.0007 | |
| cg05095590 | -0.32 | 6.36189E-06 | 0.0007 | MAD1L1 |
| cg24885723 | -0.30 | 7.70744E-06 | 0.0007 | CA6 |
| cg21588347 | -0.21 | 8.08859E-06 | 0.0008 | TOP1 |
| cg23651386 | -0.26 | 1.03359E-05 | 0.0008 | SAE1 |
| cg16178058 | -0.24 | 1.17003E-05 | 0.0009 | ETS1 |
| **TOP 10-Hypomethylated** | | | | |
| cg04202945 | 0.21 | 1.00128E-09 | -0.2099 | FBN2 |
| cg18274164 | 0.21 | 1.49076E-09 | -0.2115 | |
| cg08577426 | 0.26 | 1.88155E-09 | -0.2598 | C2 |
| cg08947084 | 0.26 | 4.17586E-09 | -0.2580 | SNORD47 |
| cg27229100 | 0.22 | 7.30838E-09 | -0.2196 | SNORD12 |
| cg04687131 | 0.23 | 8.46042E-09 | -0.2310 | ATP9A |
| cg11978051 | 0.25 | 8.49758E-09 | -0.2482 | COL17A1 |
| cg21554616 | 0.23 | 9.09763E-09 | -0.2280 | SAMD4A |
| cg02411312 | 0.25 | 1.19109E-08 | -0.2486 | WEE1 |
| cg07034383 | 0.21 | 1.5268E-08 | -0.2114 | HN1 |

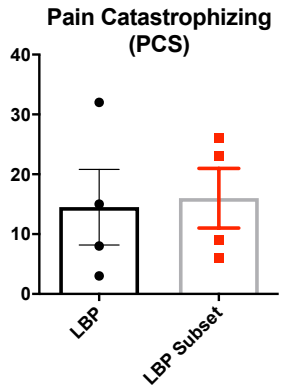
**Supplementary Figure 1**

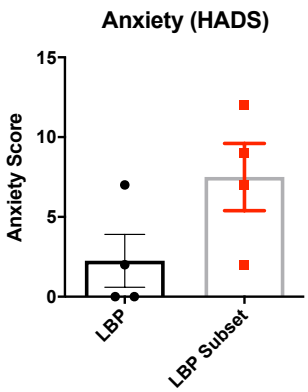


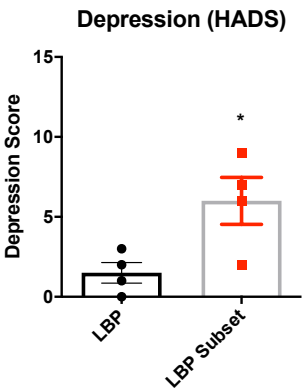

**Supplementary Figure 2**

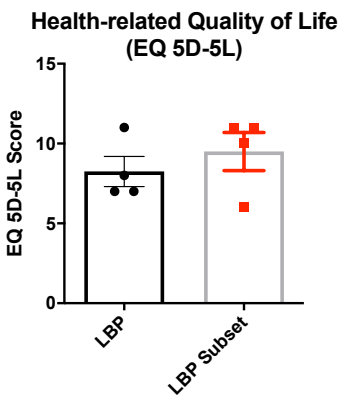


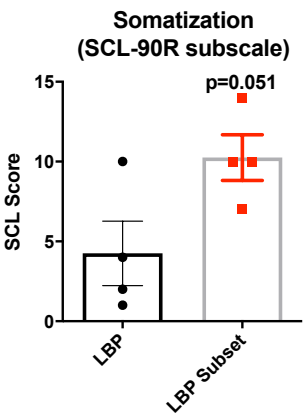



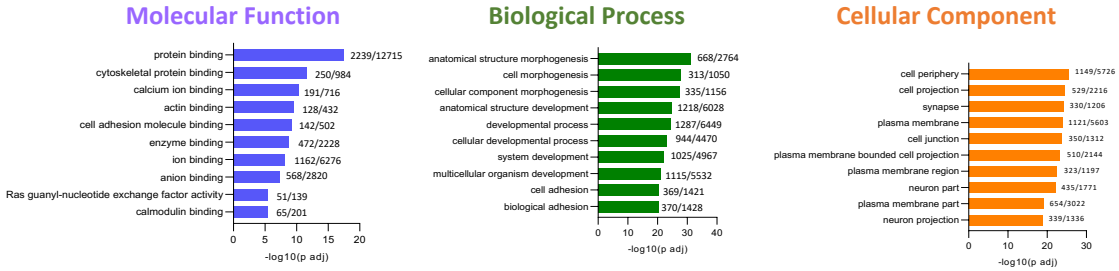




**Supplementary Figure 3**

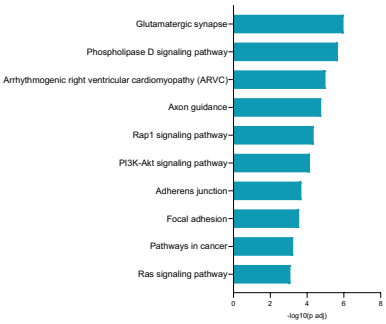
**A**

## GENE ONTOLOGY




**B**

## KEGG PATHWAY




| Name | Adj p value | Dysregulated genes | Dysregulated genes names |
|---|---|---|---|
| Glutamatergic synapse | 1.04006E-06 | 45 | ADCY9,GNAS,GRIN3A,GRIK1,PRKCA,PPP3CC,GNG2,ITPR2,PPP3CB,GRIK2,GRM1,CACNA1C,PLCB4,SLC17A6,PPP3CA,CACNA1D,PLCB1,ADCY2,SLC38A3,DLGAP1,GRIN2B,ADCY5,GRIN2A,GNG7,ADRBK2,SLC1A2,GNG12,GNB1,MAPK1,PLA2G4E,SLC1A3,GRM3,GNAI1,PRKCB,GRIA1,GRIN1,GRM5,SHANK1,HOMER2,PLD1,DLG4,GRM8,GRM4,PLA2G4A,GRIK4 |
| Phospholipase D signaling pathway | 2.0922E-06 | 53 | ADCY9,GNAS,DGKA,DGKZ,AVPR1A,AGPAT5,PRKCA,CXCR2,GRM1,DGKG,PDGFD,FYN,PLCB4,RALGDS,SYK,RAPGEF4,AVPR1B,PLCB1,ADCY2,PIP5K1B,RALA,PIK3R5,ADCY5,INSR,LPAR1,DGKI,PDGFC,AGTR1,MRAS,RALB,EGFR,EGF,CYTH3,KITLG,AKT3,PDGFA,PLCG2,MAPK1,PLA2G4E,GRM3,GRM5,PLD1,PIK3R3,GRM8,CYTH1,RHEB,PIK3CG,GRM4,PLA2G4A,DGKB,CXCR1,PIK3R6,DNM3 |
| Arrhythmogenic right ventricular cardiomyopathy (ARVC) | 9.99403E-06 | 33 | LEF1,ITGA2,TCF7,ITGA6,RYR2,SLC8A3,ITGB6,CACNA1C,ITGB5,CTNNA2,LAMA1,CACNB4,CACNA1D,ITGB3,SGCA,CACNA2D1,SGCG,CTNNA3,SLC8A1,CACNG4,ITGA9,TCF7L2,TCF7L1,CACNA2D4,PKP2,SGCD,DSG2,ITGA4,ATP2A2,ITGB1,CACNG2,ACTN2,CDH2 |
| Axon guidance | 1.71611E-05 | 59 | ABLIM1,FES,LRRC4C,SSH1,PRKCA,EPHA5,ROBO2,PPP3CC,NFATC2,PPP3CB,SEMA3A,FYN,SEMA5A,PTK2,SEMA3C,PLXNA4,NTN4,PPP3CA,SEMA5B,SEMA3E,SLIT1,PARD3,BMP7,ABL1,SEMA3D,SMO,MET,NCK2,NGEF,PLXNA2,PLXNC1,CAMK2A,DPYSL5,EFNB2,SEMA6D,UNC5C,CXCL12,PLCG2,ENAH,PARD6G,EPHB2,MAPK1,SEMA4A,GNAI1,SLIT2,EFNA5,ROBO1,NRP1,PIK3R3,RGMA,TRPC6,SLIT3,SRGAP1,SRGAP3,ITGB1,ABLIM3,RGS3,UNC5D,SEMA6A |
| Rap1 signaling pathway | 4.38133E-05 | 65 | ADCY9,GNAS,SKAP1,PRKCA,RAP1GAP,RASGRP3,PDGFD,FGF9,PLCB4,RALGDS,MAGI2,RAPGEF4,MAGI1,PLCB1,ITGB3,ADCY2,FGF1,IGF1R,PARD3,RALA,GRIN2B,ITGAL,ADCY5,SIPA1L3,GRIN2A,INSR,LPAR1,ANGPT2,PDGFC,MET,CDH1,TEK,MRAS,RALB,EGFR,EGF,KITLG,AKT3,DOCK4,RAPGEF5,PDGFA,ANGPT4,ENAH,PARD6G,PRKCI,MAPK1,TLN2,GNAI1,PRKCB,CALML3,ANGPT1,EFNA5,GRIN1,PIK3R3,FPR1,THBS1,CRK,CSF1R,TIAM1,RAPGEF1,IGF1,FLT1,VAV3,ITGB1,VAV2 |
| PI3K-Akt signaling pathway | 6.9216E-05 | 96 | IL7R,RPTOR,G6PC3,ITGA2,LAMA3,PPP2R5A,ITGA6,CDKN1B,PRKCA,NFKB1,BDNF,GNG2,NTRK1,PDGFD,C8ORF44-SGK3,ITGB6,PTK2,FGF9,LAMC1,PPP2R2B,NTRK2,ITGB5,LAMA1,SYK,MAGI2,MAGI1,RPS6,PRKAA2,ITGB3,TNXB,VWF,FGF1,PPP2R5C,IGF1R,PIK3AP1,PIK3R5,TNR,BCL2,INSR,LPAR1,GHR,ANGPT2,GNG7,PDGFC,IFNA8,MET,CREB5,TEK,EGFR,EGF,GNG12,ATF2,KITLG,YWHAQ,LAMB4,GNB1,AKT3,ITGA9,PDGFA,OSMR,ANGPT4,PPP2R2A,MAPK1,YWHAE,G6PC,PPP2R3A,TNN,SGK1,COL4A2,ANGPT1,EFNA5,CSF3R,PRLR,LAMB1,PIK3R3,HSP90AA1,THBS1,RHEB,TNC,PIK3CG,CDK6,ITGA4,FOXO3,CSF1R,FLT3,IGF1,IBSP,FLT1,TGFA,LAMA4,FASLG,THBS4,PIK3R6,ITGB1,PRL,RELN |
| Adherens junction | 0.000202828 | 29 | PTPRJ,LEF1,SMAD3,LMO7,YES1,TCF7,ACTN1,TGFBR2,CREBBP,WASF2,FYN,WASF3,CTNNA2,IGF1R,PARD3,WASL,SORBS1,INSR,MET,CTNNA3,CDH1,EGFR,TCF7L2,TCF7L1,MAPK1,TJP1,ACTN4,PTPRM,BAIAP2 |
| Focal adhesion | 0.000269264 | 60 | BIRC2,ITGA2,ACTN1,DOCK1,LAMA3,ITGA6,PARVB,PRKCA,PDGFD,MAPK10,FYN,ITGB6,PTK2,LAMC1,ITGB5,LAMA1,ITGB3,TNXB,VWF,IGF1R,TNR,BCL2,PDGFC,MYLK,MET,EGFR,EGF,LAMB4,CAPN2,PXN,AKT3,ITGA9,PDGFA,MAPK1,TLN2,TNN,PRKCB,COL4A2,PARVA,PPP1CC,LAMB1,PIK3R3,THBS1,TNC,ARHGAP35,ITGA4,ZYX,CRK,ACTN4,RAPGEF1,IGF1,IBSP,FLT1,LAMA4,THBS4,VAV3,ITGB1,RELN,VAV2,MAPK8 |
| Pathways in cancer | 0.000569459 | 129 | IL7R,ETS1,CBL,ADCY9,BIRC2,RARA,GNAS,LEF1,STAT3,SMAD3,IL6ST,ITGA2,TCF7,AXIN2,LAMA3,ITGA6,ARNT,CDKN1B,PRKCA,TGFBR2,CREBBP,GSTA4,NFKB1,CDKN2A,RUNX1,DAPK1,GNG2,MITF,RASGRP3,NTRK1,MAPK10,IFNG,PTK2,FGF9,LAMC1,PLCB4,IL5RA,RALGDS,GLI2,PTGS2,CTNNA2,LAMA1,RARB,PLCB1,ZBTB16,ADCY2,FGF1,IGF1R,GSTO2,RUNX1T1,RALA,EML4,PTGER3,ADCY5,STAT5B,ABL1,TGFB2,BCL2,LPAR1,GNG7,SMO,IFNA8,MET,ALK,PTGER2,AGTR1,STAT4,CAMK2A,CTNNA3,TRAF1,FAS,CDH1,RALB,ARHGEF11,EGFR,NCOA1,NOTCH4,EGF,LRP5,GNG12,KITLG,GLI1,LAMB4,GNB1,AKT3,TCF7L2,PDGFA,CXCL12,WNT7A,TCF7L1,PLCG2,HHIP,MAPK1,IL5,GNAI1,PRKCB,CALML3,COL4A2,CSF3R,PPARG,SLC2A1,PLD1,LAMB1,PIK3R3,HSP90AA1,HMOX1,RASGRP4,MSH3,CDK6,CRK,GSTM1,CSF1R,FLT3,GLI3,MECOM,MGST2,RASGRP1,RASSF1,IL23R,IGF1,TGFA,LAMA4,FASLG,MGST1,CCNA1,ITGB1,MAPK8,ESR1,EGLN1 |
| Ras signaling pathway | 0.000798918 | 66 | ETS1,PRKCA,NFKB1,BDNF,GNG2,RGL1,RASGRP3,NTRK1,PDGFD,MAPK10,FGF9,NTRK2,RALGDS,EXOC2,FGF1,IGF1R,RALA,GRIN2B,GRIN2A,ABL1,KSR1,INSR,ANGPT2,GNG7,PDGFC,RASAL2,MET,PLA2G12B,TEK,MRAS,RALB,EGFR,EGF,GNG12,KITLG,RASGRF2,GNB1,AKT3,RAPGEF5,PDGFA,PLCG2,ANGPT4,TBK1,MAPK1,PLA2G4E,PRKCB,CALML3,ANGPT1,EFNA5,GRIN1,PLD1,PIK3R3,RASGRP4,ETS2,CSF1R,FLT3,TIAM1,RASGRP1,RASSF1,IGF1,FLT1,PLA2G4A,TGFA,FASLG,RASAL1,MAPK8 |

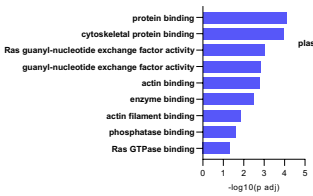
**Supplementary Figure 4**

A

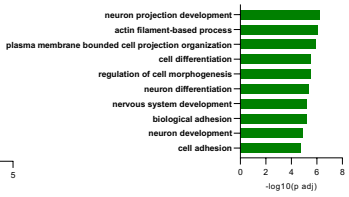
## GENE ONTOLOGY – HYPOMETHYLATED DMPs

### WOMEN

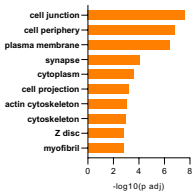
#### Molecular Function




#### Biological Process

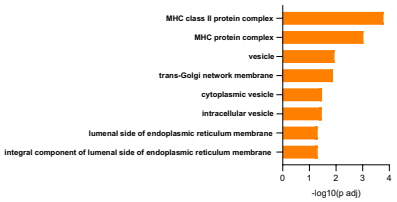



#### Cellular Component




### MEN

#### Cellular Component

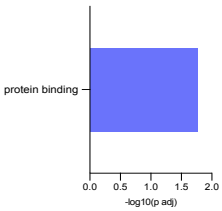



B

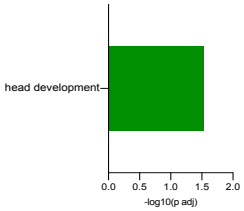
## GENE ONTOLOGY – HYPERMETHYLATED DMPs

### WOMEN

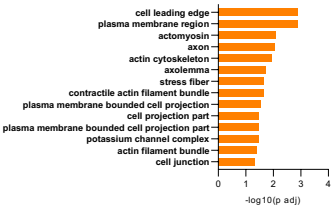
#### Molecular Function




#### Biological Process

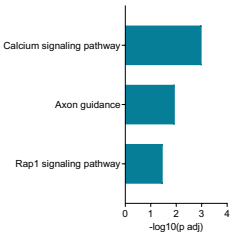



#### Cellular Component




C

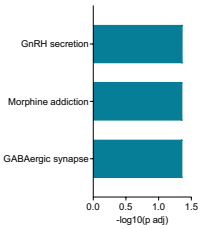
## KEGG PATHWAY – HYPOMETHYLATED DMPs




| Name | Adj p value | Dysregulated genes | Dysregulated genes names |
|---|---|---|---|
| Calcium signaling pathway | 0.0010 | 23 | RYR3,PPIF,ASPH,AGTR1,LHCGR,PPP3CA,EGFR,MYLK,SLC8A1,PRKCB,CASQ2,CAMK1G,RYR2,P2RX1,EDNRB,GNAL,ATP2A2,GRM5,PPP3CB,PTGER3,PRKCG,CHRNA7,CACNA1C |
| Axon guidance | 0.0113 | 20 | SEMA6D,NCK2,PARD3,PARD6G,ABLIM3,FYN,NFATC2,EPHA5,SLIT3,PPP3CA,SLIT1,BMP7,EFNA5,PLXNC1,SMO,NRP1,NGEF,PLXNA4,SEMA6A,PPP3CB |
| Rap1 signaling pathway | 0.0339 | 21 | FARP2,RAPGEF5,PARD3,PARD6G,INSR,APBB1IP,DOCK4,CRK,ITGAL,GRIN2B,RAPGEF1,FGF1,EGFR,RAPGEF6,EFNA5,MAGI2,RASGRP3,PRKCB,ANGPT2,TLN2,PRKCG |

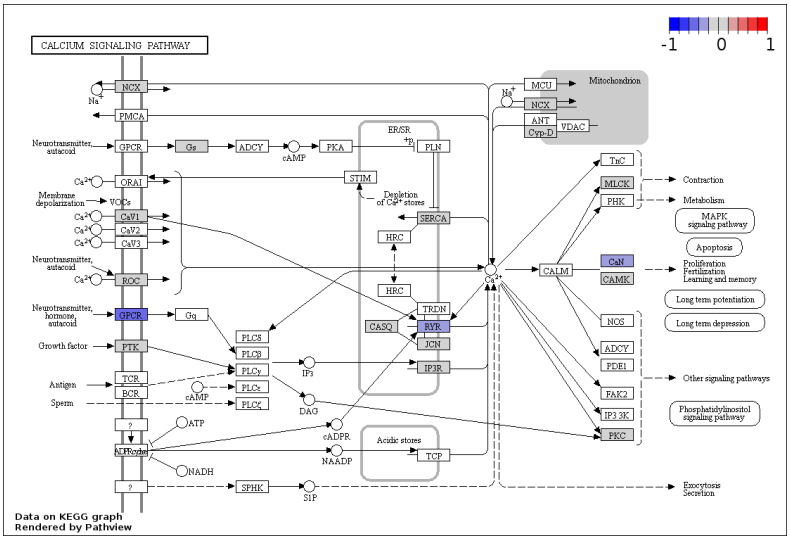
## KEGG PATHWAY – HYPERMETHYLATED DMPs

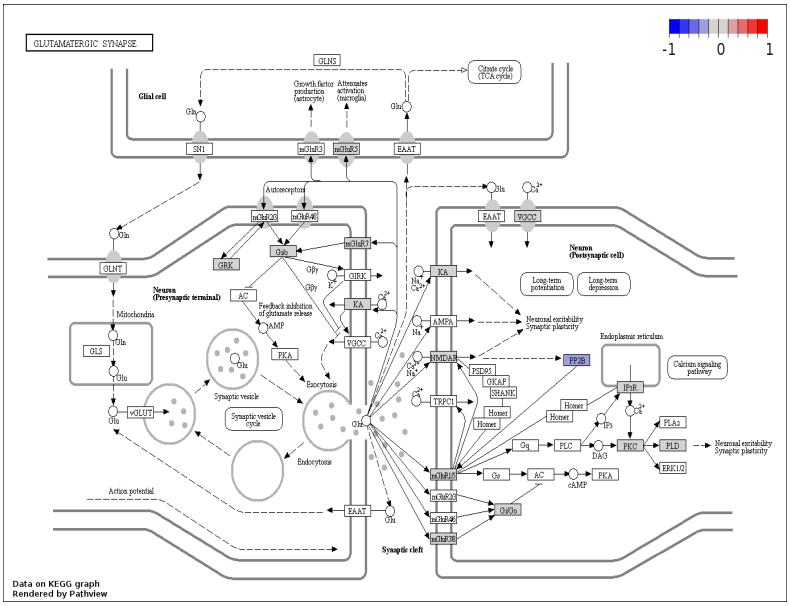
### WOMEN

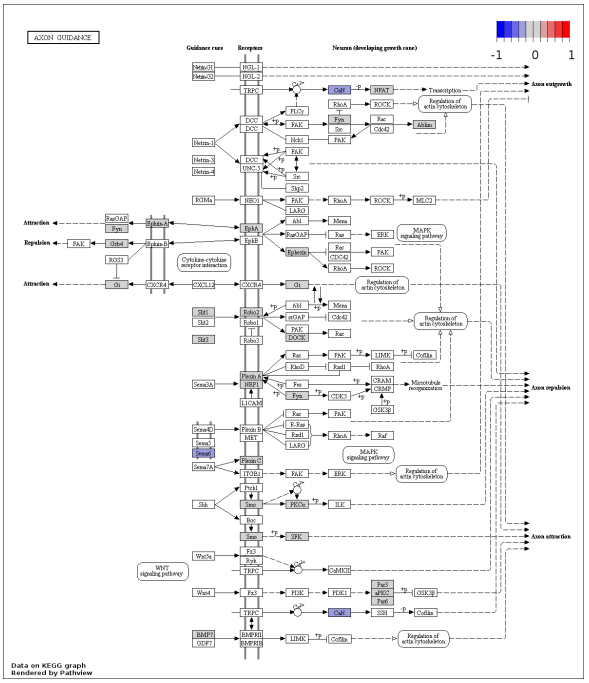


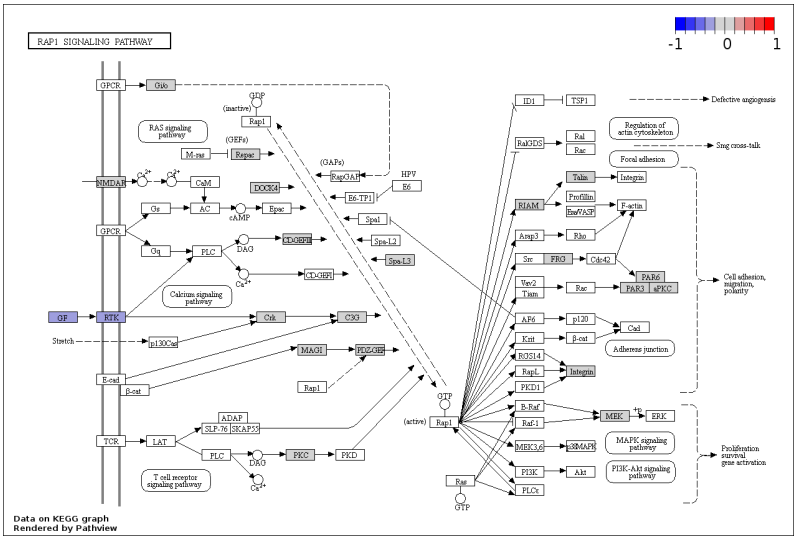

| Name | Adj p value | Dysregulated genes | Dysregulated genes names |
|---|---|---|---|
| GnRH secretion | 0.0429 | 6 | KCNN3,GABBR2,ITPR1,HCN1,MAP2K1,PRKCA |
| Morphine addiction | 0.0432 | 7 | GABRA5,GABBR2,GABRA2,PDE8A,GNAI1,GNB1,PRKCA |
| GABAergic synapse | 0.0432 | 7 | GABRA5,GABBR2,GABRA2,GAD1, GNAI1,GNB1,PRKCA |

**Supplementary Figure 5**




**Supplementary Figure 6**

**SUPPLEMENTARY TABLE 1**

| Gene | Target ID | Forward primer | Reverse primer | Sequence primer (5' to 3') |
|---|---|---|---|---|
| ZNF718 | cg21149944, cg22831726 | ATTTAGTGTTGTGTATGGTTGTAAT | AATACCCCACCCTCCTCTCTACT | GGGAGATTTATAGTTTTATTTAAT |
| GAD1 | cg07420274 | GTTTAAGAAGGATAGTGTGGTTATAGG | AAAAAACTTTCCCATAATAATCCCCACTTC | GTGGTTATAGGGAGTG |

SUPPLEMENTAL TABLE 2 - FEMALE HYPER

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | Normal_f_A | LBP_f_AVG | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0301360 | -0.32593 | 0.451455 | -2.73399 | 0.015115 | 0.224783 | -4.2515 | 0.288492 | 0.614418 | 0.325926 | 1 | 2.37E+08 | F | II | LGALS8 | Body | opensea | Body-opens | | rs2870452 | 0;11;22 |
| cg0762977 | -0.29828 | 0.37619 | -2.66522 | 0.01737 | 0.225056 | -4.38502 | 0.227052 | 0.525328 | 0.298276 | 10 | 13972210 | R | II | FRMD4A | Body | opensea | Body-opens | | rs5672810 | 47;37;2 |
| cg0453118 | -0.24954 | 0.480158 | -3.7364 | 0.001912 | 0.224708 | -2.21658 | 0.355389 | 0.604927 | 0.249538 | 12 | 10563981 | R | II | KLRC4-KLRI | TSS1500 | opensea | TSS1500-o | | rs1167899 | 36 |
| cg0804118 | -0.24039 | 0.538699 | -3.57254 | 0.002685 | 0.224708 | -2.55584 | 0.418502 | 0.658895 | 0.240393 | 12 | 10564015 | R | II | KLRC4-KLRI | TSS1500 | opensea | TSS1500-o | | | |
| cg0750244 | -0.12254 | 0.635331 | -6.73463 | 5.9E-06 | 0.154235 | 3.688649 | 0.574064 | 0.696599 | 0.122536 | 19 | 57682795 | F | II | | IGR | shore | IGR-shore | chr19:576 | | |
| cg1338861 | -0.23676 | 0.567043 | -2.71573 | 0.015685 | 0.224896 | -4.28707 | 0.448664 | 0.685422 | 0.236758 | 2 | 2.39E+08 | R | II | RAMP1 | Body | opensea | Body-opens | | rs1148629 | 34;33 |
| cg0248473 | -0.23338 | 0.4575 | -2.7135 | 0.015756 | 0.224896 | -4.2914 | 0.34081 | 0.57419 | 0.23338 | 6 | 56096198 | F | II | COL21A1 | 5'UTR | opensea | 5'UTR-open | | rs1907766 | 18;28 |
| cg0486300 | -0.20316 | 0.707918 | -3.31628 | 0.004569 | 0.224708 | -3.08337 | 0.606337 | 0.809498 | 0.20316 | 1 | 59043208 | F | II | TACSTD2 | TSS200 | island | TSS200-isla | chr1:5904 | | |
| cg1262806 | -0.10266 | 0.54327 | -6.42709 | 1.01E-05 | 0.161665 | 3.130623 | 0.49194 | 0.594601 | 0.102661 | 1 | 56453730 | F | II | | IGR | opensea | IGR-opense | | rs1819363 | 6 |
| cg2002179 | -0.20017 | 0.292021 | -3.27915 | 0.004935 | 0.224708 | -3.15935 | 0.191936 | 0.392106 | 0.20017 | 17 | 181288 | F | II | RPH3AL | 5'UTR | shelf | 5'UTR-shelf | chr17:185 | rs5368618 | 4;24;42;43 |
| cg1934361 | -0.12276 | 0.568623 | -6.33472 | 1.2E-05 | 0.161665 | 2.960497 | 0.507242 | 0.630003 | 0.122761 | 22 | 28010528 | F | I | | IGR | island | IGR-island | chr22:280 | rs5363074 | 20;38 |
| cg1608055 | -0.19848 | 0.646134 | -2.96619 | 0.009412 | 0.224708 | -3.79268 | 0.546896 | 0.745372 | 0.198476 | 1 | 59043199 | F | II | TACSTD2 | TSS200 | island | TSS200-isla | chr1:5904 | rs5671867 | 0;3 |
| cg0513789 | -0.10577 | 0.401218 | -6.24428 | 1.41E-05 | 0.161665 | 2.792843 | 0.348332 | 0.454104 | 0.105772 | 8 | 50164320 | R | II | | IGR | opensea | IGR-opense | | rs1404909 | 40;2 |
| cg1400521 | -0.19491 | 0.419553 | -6.69996 | 6.27E-06 | 0.154235 | 3.626389 | 0.322097 | 0.517008 | 0.194911 | 2 | 1.72E+08 | F | I | GAD1 | Body | island | Body-islanc | chr2:1716 | rs5590821 | 19;26 |
| cg1458008 | -0.16608 | 0.658525 | -5.99023 | 2.23E-05 | 0.186757 | 2.315995 | 0.575486 | 0.741564 | 0.166078 | 2 | 2.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs5514994 | 13;17 |
| cg2542076 | -0.19299 | 0.28644 | -2.66715 | 0.017302 | 0.225034 | -4.3813 | 0.189943 | 0.382937 | 0.192994 | 5 | 1.49E+08 | R | II | ABLIM3 | Body | opensea | Body-opens | | rs1885730 | 24 |
| cg2244084 | -0.11832 | 0.819323 | -5.96923 | 2.32E-05 | 0.186757 | 2.276192 | 0.760165 | 0.878481 | 0.118316 | 4 | 1.84E+08 | F | II | | IGR | shore | IGR-shore | chr4:1843 | rs5314858 | 12;42 |
| cg0288314 | -0.18773 | 0.61487 | -6.71897 | 6.06E-06 | 0.154235 | 3.660545 | 0.521006 | 0.708735 | 0.187729 | 12 | 9217769 | F | II | LOC14457 | TSS200 | shore | TSS200-shc | chr12:921 | | |
| cg0929604 | -0.18623 | 0.168839 | -4.62258 | 0.000312 | 0.224708 | -0.38554 | 0.075723 | 0.261956 | 0.186233 | 15 | 43477606 | R | I | CCNDBP1 | 1stExon | island | 1stExon-isl | chr15:434 | rs5690223 | 49;20;11;6;2 |
| cg1880516 | -0.1853 | 0.69116 | -3.92594 | 0.001292 | 0.224708 | -1.82337 | 0.59851 | 0.78381 | 0.1853 | 19 | 36265700 | R | I | SNX26 | TSS1500 | shore | TSS1500-sh | chr19:362 | rs807487;r | 50;49;42 |
| cg2019824 | -0.18299 | 0.586682 | -4.97117 | 0.000156 | 0.224708 | 0.322085 | 0.495188 | 0.678176 | 0.182987 | 6 | 29855110 | R | II | HLA-H | TSS1500 | shore | TSS1500-sh | chr6:2985 | rs1611607 | 50;49;27 |
| cg0715538 | -0.18138 | 0.513422 | -3.16545 | 0.006243 | 0.224708 | -3.39102 | 0.422734 | 0.60411 | 0.181376 | 17 | 180856 | R | II | RPH3AL | 5'UTR | opensea | 5'UTR-open | | rs2018246 | 10;1 |
| cg0935910 | -0.17666 | 0.571613 | -3.667 | 0.002208 | 0.224708 | -2.36039 | 0.483283 | 0.659943 | 0.176659 | 1 | 1.55E+08 | F | II | KCNN3 | Body | opensea | Body-opens | | | |
| cg0921968 | -0.17487 | 0.481411 | -2.3932 | 0.029871 | 0.232433 | -4.89991 | 0.393976 | 0.568846 | 0.17487 | 10 | 11789383 | F | II | ECHDC3 | Body | opensea | Body-opens | | rs2012984 | 0;1;14;22;37;50 |
| cg0925585 | -0.17456 | 0.146688 | -3.28661 | 0.004859 | 0.224708 | -3.1441 | 0.059408 | 0.233968 | 0.174559 | 2 | 65607991 | R | II | SPRED2 | Body | opensea | Body-opens | | rs2308100 | 1 |
| cg2430901 | -0.17108 | 0.749967 | -3.46718 | 0.003342 | 0.224708 | -2.77332 | 0.664424 | 0.835509 | 0.171085 | 21 | 44444757 | F | II | PKNOX1 | Body | opensea | Body-opens | | rs5289529 | 0;1;18;19;20 |
| cg2513464 | -0.53552 | 0.529832 | -5.33181 | 7.72E-05 | 0.220729 | 1.041641 | 0.262073 | 0.797592 | 0.535519 | 12 | 25454990 | R | II | | IGR | opensea | IGR-opense | | rs3770902 | 12;1 |
| cg0873857 | -0.17076 | 0.41102 | -3.09043 | 0.007289 | 0.224708 | -3.54297 | 0.32564 | 0.4964 | 0.170761 | 1 | 1475265 | R | I | C1orf70 | Body | shore | Body-shore | chr1:1476 | | |
| cg1068062 | -0.11087 | 0.721394 | -5.29413 | 8.3E-05 | 0.223139 | 0.967136 | 0.665959 | 0.77683 | 0.11087 | 5 | 1.39E+08 | R | I | | IGR | opensea | IGR-opense | | rs1382188 | 43;23;22;5 |
| cg0789989 | -0.16896 | 0.579775 | -2.94368 | 0.009857 | 0.224708 | -3.83764 | 0.495296 | 0.664254 | 0.168958 | 10 | 61043529 | F | II | FAM13C | Body | opensea | Body-opens | | rs5572479 | 1;10;16;32 |
| cg0436298 | -0.13524 | 0.382358 | -5.20894 | 9.79E-05 | 0.223139 | 0.798076 | 0.314736 | 0.449979 | 0.135243 | 2 | 1.71E+08 | F | II | | IGR | island | IGR-island | chr2:1706 | rs5518436 | 37 |
| cg1898002 | -0.18213 | 0.610219 | -5.17156 | 0.000105 | 0.223139 | 0.723632 | 0.519156 | 0.701282 | 0.182125 | 17 | 33104065 | R | II | | IGR | opensea | IGR-opense | | rs5682132 | 35 |
| cg1408752 | -0.1674 | 0.743827 | -3.72371 | 0.001963 | 0.224708 | -2.24287 | 0.660127 | 0.827527 | 0.1674 | 1 | 38349487 | R | II | INPP5B | Body | opensea | Body-opens | | rs5616381 | 20;4 |
| cg2038021 | -0.16453 | 0.637354 | -5.68925 | 3.91E-05 | 0.208563 | 1.740166 | 0.55509 | 0.719618 | 0.164529 | 12 | 9217688 | F | II | LOC14457 | TSS200 | island | TSS200-isla | chr12:921 | | |
| cg1353855 | -0.1634 | 0.846485 | -2.74087 | 0.014906 | 0.224708 | -4.23809 | 0.764784 | 0.928186 | 0.163402 | 14 | 57050624 | F | II | TMEM260 | Body | shelf | Body-shelf | chr14:570 | rs1067952 | 1 |
| cg0742027 | -0.16284 | 0.498581 | -6.62852 | 7.1E-06 | 0.154235 | 3.49756 | 0.41716 | 0.580002 | 0.162842 | 2 | 1.72E+08 | F | II | GAD1 | Body | shore | Body-shore | chr2:1716 | rs5343961 | 48 |
| cg1882229 | -0.16216 | 0.575466 | -4.3165 | 0.00058 | 0.224708 | -1.01454 | 0.494385 | 0.656547 | 0.162162 | 11 | 1.09E+08 | F | II | DDX10 | Body | opensea | Body-opens | | rs5374019 | 28 |
| cg2282286 | -0.16214 | 0.534169 | -2.52913 | 0.02282 | 0.226555 | -4.64546 | 0.453097 | 0.615241 | 0.162144 | 8 | 1.45E+08 | F | II | PLEC1 | Body | island | Body-islanc | chr8:1450 | rs3769539 | 0;41 |
| cg1307736 | -0.15997 | 0.440934 | -3.13054 | 0.00671 | 0.224708 | -3.46183 | 0.360948 | 0.52092 | 0.159972 | 18 | 34908626 | F | II | BRUNOL4 | Body | opensea | Body-opens | | rs1838668 | 1;25 |
| cg2611412 | -0.15775 | 0.753343 | -7.48611 | 1.66E-06 | 0.133374 | 4.998089 | 0.674469 | 0.832216 | 0.157747 | 12 | 9217669 | F | I | LOC14457 | TSS200 | island | TSS200-isla | chr12:921 | | |
| cg1669914 | -0.15711 | 0.532242 | -2.89021 | 0.010997 | 0.224708 | -3.94406 | 0.453685 | 0.610799 | 0.157114 | 1 | 59043255 | R | II | TACSTD2 | TSS200 | island | TSS200-isla | chr1:5904 | | |
| cg0532888 | -0.15703 | 0.203823 | -3.0155 | 0.008505 | 0.224708 | -3.69387 | 0.125308 | 0.282338 | 0.157031 | 11 | 30943623 | F | II | DCDC5 | Body | opensea | Body-opens | | rs5757152 | 1 |
| cg1640275 | -0.15359 | 0.797666 | -2.36884 | 0.031335 | 0.23376 | -4.94485 | 0.720868 | 0.874463 | 0.153595 | 10 | 35311004 | R | II | CUL2 | Body | opensea | Body-opens | | rs1873344 | 7;1 |
| cg2203827 | -0.11006 | 0.411247 | -4.75028 | 0.000242 | 0.224708 | -0.12508 | 0.356218 | 0.466276 | 0.110057 | 15 | 75382874 | F | II | | IGR | opensea | IGR-opense | | rs1461053 | 51 |
| cg1089968 | -0.1115 | 0.55446 | -4.72934 | 0.000252 | 0.224708 | -0.16771 | 0.498712 | 0.610209 | 0.111497 | 5 | 1.59E+08 | F | II | | IGR | island | IGR-island | chr5:1585 | rs5374335 | 2;9 |
| cg2557180 | -0.15291 | 0.722141 | -3.14945 | 0.006453 | 0.224708 | -3.4235 | 0.645685 | 0.798598 | 0.152913 | 3 | 69299492 | F | II | FRMD4B | Body | opensea | Body-opens | | rs5397297 | 1 |
| cg2327228 | -0.1516 | 0.443945 | -2.76928 | 0.014071 | 0.224708 | -4.18254 | 0.368146 | 0.519745 | 0.151599 | 10 | 61043477 | F | II | FAM13C | Body | opensea | Body-opens | | | |
| cg1090950 | -0.15116 | 0.589185 | -2.72279 | 0.015462 | 0.224896 | -4.27333 | 0.513606 | 0.664764 | 0.151157 | 17 | 38081995 | F | II | ORMDL3 | 5'UTR | shore | 5'UTR-shor | chr17:380 | rs1886344 | 0;1;26;28;39 |
| cg0333616 | -0.15102 | 0.301073 | -4.46495 | 0.000429 | 0.224708 | -0.70874 | 0.225563 | 0.376583 | 0.15102 | 11 | 2930995 | R | I | SLC22A18 | Body | island | Body-islanc | chr11:293 | rs5274670 | 37;19;15;10 |
| cg0361542 | -0.14937 | 0.496266 | -2.2904 | 0.036521 | 0.238803 | -5.08808 | 0.421583 | 0.57095 | 0.149367 | 16 | 19777410 | R | II | IQCK | Body | opensea | Body-opens | | rs1909659 | 2 |
| cg0877731 | -0.10064 | 0.655417 | -4.60056 | 0.000326 | 0.224708 | -0.43058 | 0.605098 | 0.705736 | 0.100638 | 5 | 1.59E+08 | R | I | | IGR | island | IGR-island | chr5:1585 | rs5504999 | 34;24 |
| cg1805700 | -0.14899 | 0.40363 | -4.29588 | 0.000605 | 0.224708 | -1.05711 | 0.329136 | 0.478124 | 0.148989 | 16 | 87309765 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1825039 | 17;10;8;7;3 |
| cg1796634 | -0.11594 | 0.228045 | -4.56107 | 0.000353 | 0.224708 | -0.51144 | 0.170074 | 0.286015 | 0.115941 | 7 | 1.02E+08 | F | II | | IGR | shelf | IGR-shelf | chr7:1020 | rs5424251 | 1;14;16 |
| cg1201763 | -0.14881 | 0.761029 | -4.12206 | 0.000863 | 0.224708 | -1.41668 | 0.686623 | 0.835434 | 0.148811 | 7 | 1980892 | F | II | MAD1L1 | Body | shore | Body-shore | chr7:1978 | rs7686202 | 0;21 |
| cg2503563 | -0.11093 | 0.39795 | -4.48067 | 0.000415 | 0.224708 | -0.67643 | 0.342484 | 0.453415 | 0.110931 | 1 | 35586358 | F | I | | IGR | island | IGR-island | chr1:3558 | rs5398088 | 13;20;30 |
| cg0180803 | -0.14615 | 0.338329 | -2.48384 | 0.024972 | 0.228286 | -4.73091 | 0.265255 | 0.411403 | 0.146147 | 22 | 45809952 | R | I | RIBC2 | Body | island | Body-islanc | chr22:458 | rs5691365 | 36 |
| cg1391880 | -0.14545 | 0.596533 | -3.54271 | 0.002857 | 0.224708 | -2.61749 | 0.523807 | 0.669258 | 0.145451 | 1 | 2043761 | R | II | PRKCZ | 5'UTR | shelf | 5'UTR-shelf | chr1:2046 | rs5560603 | 45;2 |
| cg0135185 | -0.14554 | 0.433475 | -4.44746 | 0.000444 | 0.224708 | -0.7447 | 0.360703 | 0.506247 | 0.145544 | 22 | 39320511 | F | II | | IGR | shelf | IGR-shelf | chr22:393 | rs5611344 | 8 |
| cg1927489 | -0.14524 | 0.343718 | -2.63567 | 0.018435 | 0.225076 | -4.44201 | 0.271099 | 0.416338 | 0.145239 | 7 | 1.54E+08 | R | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5316338 | 51;45;33;30 |
| cg1470629 | -0.10116 | 0.756314 | -4.42623 | 0.000464 | 0.224708 | -0.78838 | 0.705733 | 0.806895 | 0.101162 | 2 | 43328266 | R | I | | IGR | island | IGR-island | chr2:4332 | rs5371966 | 17;2 |
| cg1060508 | -0.1444 | 0.524756 | -7.04003 | 3.49E-06 | 0.154235 | 4.230043 | 0.452556 | 0.596956 | 0.144401 | 12 | 9217763 | F | II | LOC14457 | TSS200 | shore | TSS200-shc | chr12:921 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2317221 | -0.12065 | 0.190578 | -4.37861 | 0.000511 | 0.224708 | -0.88644 | 0.130252 | 0.250903 | 0.12065 | 3 | 4393231 | F | II | | IGR | opensea | IGR-opense | | rs5592476 | 1 |
| cg0135394 | -0.13771 | 0.712103 | -4.34664 | 0.000545 | 0.224708 | -0.95237 | 0.643247 | 0.780959 | 0.137712 | 3 | 1.92E+08 | R | II | | IGR | opensea | IGR-opense | | rs1432926 | 36;26;24 |
| cg1223578 | -0.14214 | 0.249161 | -2.70219 | 0.01612 | 0.224896 | -4.31339 | 0.17809 | 0.320232 | 0.142142 | 3 | 1.23E+08 | F | II | MYLK | Body | opensea | Body-opens | | rs5370104 | 25;45 |
| cg0182101 | -0.14171 | 0.74671 | -2.68525 | 0.016682 | 0.224899 | -4.34625 | 0.675855 | 0.817565 | 0.141709 | 1 | 59043280 | R | I | TACSTD2 | TSS200 | island | TSS200-isla | chr1:5904 | | |
| cg1729275 | -0.14101 | 0.481656 | -5.0005 | 0.000147 | 0.224708 | 0.381119 | 0.411149 | 0.552164 | 0.141015 | 19 | 49636594 | R | II | PPFIA3 | Body | island | Body-islanc | chr19:496 | rs5524649 | 32 |
| cg1119859 | -0.1401 | 0.348254 | -2.50969 | 0.023721 | 0.227121 | -4.68221 | 0.278205 | 0.418303 | 0.140098 | 3 | 66548117 | R | II | LRIG1 | Body | shelf | Body-shelf | chr3:6655 | rs1878435 | 21;17 |
| cg1026238 | -0.13992 | 0.303524 | -3.47064 | 0.003318 | 0.224708 | -2.76619 | 0.233567 | 0.373482 | 0.139915 | 6 | 29855435 | R | II | HLA-H | Body | island | Body-islanc | chr6:2985 | rs3128881 | 51;45;36;28;12 |
| cg0498161 | -0.14531 | 0.719188 | -4.2796 | 0.000625 | 0.224708 | -1.09074 | 0.646532 | 0.791845 | 0.145312 | 2 | 43328122 | F | II | | IGR | island | IGR-island | chr2:4332 | rs5514137 | 33 |
| cg0600151 | -0.14716 | 0.308221 | -4.25102 | 0.000663 | 0.224708 | -1.1498 | 0.234642 | 0.381801 | 0.147159 | 13 | 23500838 | R | II | | IGR | island | IGR-island | chr13:235 | rs5741515 | 37;17 |
| cg0901263 | -0.13968 | 0.320684 | -3.77558 | 0.001763 | 0.224708 | -2.13533 | 0.250842 | 0.390526 | 0.139684 | 16 | 90114173 | R | I | LOC10013 | TSS200 | opensea | TSS200-ope | | rs5677693 | 43 |
| cg1847574 | -0.10052 | 0.293718 | -4.22108 | 0.000704 | 0.224708 | -1.2117 | 0.243456 | 0.34398 | 0.100524 | 3 | 1.78E+08 | F | II | | IGR | opensea | IGR-opense | | rs5766033 | 6 |
| cg0628524 | -0.13961 | 0.254389 | -6.78013 | 5.45E-06 | 0.154235 | 3.770119 | 0.184585 | 0.324193 | 0.139607 | 14 | 1.06E+08 | R | II | CRIP2 | Body | island | Body-islanc | chr14:105 | | |
| cg1074999 | -0.13949 | 0.445317 | -2.22788 | 0.041218 | 0.24425 | -5.20054 | 0.375572 | 0.515061 | 0.13949 | 2 | 25474327 | F | I | DNMT3A | Body | shore | Body-shore | chr2:2547 | rs934780;r | 7;17 |
| cg2268404 | -0.1384 | 0.53591 | -3.69757 | 0.002072 | 0.224708 | -2.29706 | 0.466711 | 0.605108 | 0.138396 | 19 | 1904554 | R | II | SCAMP4 | TSS1500 | shore | TSS1500-sh | chr19:190 | rs1844210 | 16 |
| cg2411852 | -0.13759 | 0.557314 | -2.46287 | 0.026033 | 0.229162 | -4.77025 | 0.48852 | 0.626108 | 0.137588 | 13 | 47472330 | F | I | HTR2A | TSS1500 | opensea | TSS1500-o | | rs5497097 | 13;30 |
| cg2168951 | -0.13752 | 0.352635 | -3.06651 | 0.007657 | 0.224708 | -3.59124 | 0.283876 | 0.421394 | 0.137518 | 21 | 47935083 | F | II | DIP2A | Body | opensea | Body-opens | | rs5448815 | 1;35 |
| cg2089997 | -0.1286 | 0.303018 | -4.16077 | 0.000797 | 0.224708 | -1.33652 | 0.238719 | 0.367317 | 0.128598 | 8 | 52913152 | F | II | | IGR | opensea | IGR-opense | | rs1914176 | 1;34;41;46;48 |
| cg0026582 | -0.1004 | 0.244569 | -4.15925 | 0.000799 | 0.224708 | -1.33966 | 0.194369 | 0.29477 | 0.100401 | 6 | 82323837 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1344069 | -0.27534 | 0.231266 | -4.12691 | 0.000854 | 0.224708 | -1.40663 | 0.093594 | 0.368938 | 0.275343 | 1 | 1186357 | F | II | | IGR | shelf | IGR-shelf | chr1:1189 | rs1485767 | 1;33;47 |
| cg2140292 | -0.13747 | 0.233175 | -2.49404 | 0.024471 | 0.227781 | -4.71172 | 0.164438 | 0.301913 | 0.137475 | 15 | 27112305 | R | I | GABRA5 | 1stExon | island | 1stExon-isl | chr15:271 | rs5389060 | 37 |
| cg1219383 | -0.11044 | 0.506376 | -4.11465 | 0.000876 | 0.224708 | -1.43204 | 0.451159 | 0.561594 | 0.110435 | 17 | 30244370 | F | I | | IGR | island | IGR-island | chr17:302 | rs5716466 | 22;24 |
| cg0346608 | -0.28942 | 0.733004 | -4.10379 | 0.000896 | 0.224708 | -1.45453 | 0.588293 | 0.877715 | 0.289422 | 5 | 1.39E+08 | R | II | | IGR | island | IGR-island | chr5:1390 | rs5750726 | 25 |
| cg2283063 | -0.13349 | 0.218182 | -4.08266 | 0.000936 | 0.224708 | -1.49833 | 0.151436 | 0.284928 | 0.133492 | 4 | 37237877 | R | II | | IGR | opensea | IGR-opense | | rs5380404 | 43;36;10 |
| cg0591384 | -0.10655 | 0.236384 | -4.06869 | 0.000963 | 0.224708 | -1.52729 | 0.183109 | 0.289658 | 0.106549 | 8 | 50139926 | F | II | | IGR | opensea | IGR-opense | | rs5541709 | 1 |
| cg0130138 | -0.11463 | 0.360476 | -4.06369 | 0.000973 | 0.224708 | -1.53765 | 0.303163 | 0.417789 | 0.114626 | 18 | 15198067 | R | I | | IGR | island | IGR-island | chr18:151 | rs5479163 | 22 |
| cg0828036 | -0.13728 | 0.351317 | -2.61939 | 0.019049 | 0.225391 | -4.47332 | 0.282677 | 0.419956 | 0.137278 | 14 | 71110536 | F | II | TTC9 | Body | shore | Body-shore | chr14:711 | rs7406331 | 13;30;31;35;42 |
| cg2717962 | -0.13691 | 0.669052 | -4.23955 | 0.000678 | 0.224708 | -1.17351 | 0.600598 | 0.737506 | 0.136908 | 1 | 2.26E+08 | F | I | LEFTY2 | Body | island | Body-islanc | chr1:2261 | rs5301844 | 27;33;40 |
| cg0931419 | -0.13531 | 0.438794 | -2.30671 | 0.03538 | 0.237637 | -5.0585 | 0.371141 | 0.506447 | 0.135306 | 19 | 22816508 | R | II | ZNF492 | TSS1500 | shore | TSS1500-sh | chr19:228 | rs5560885 | 12 |
| cg1379721 | -0.13503 | 0.424986 | -3.37285 | 0.004064 | 0.224708 | -2.96736 | 0.357473 | 0.492499 | 0.135026 | 7 | 71870614 | F | II | CALN1 | 5'UTR | opensea | 5'UTR-open | | rs5639559 | 9;38;42;43 |
| cg2511709 | -0.13489 | 0.679633 | -2.53671 | 0.022478 | 0.226384 | -4.63109 | 0.612185 | 0.74708 | 0.134894 | 3 | 1.51E+08 | R | II | MED12L | Body | opensea | Body-opens | | rs5723240 | 45;35;13;2;1 |
| cg1542335 | -0.12284 | 0.314731 | -3.97285 | 0.001173 | 0.224708 | -1.72606 | 0.253312 | 0.37615 | 0.122839 | 2 | 25149977 | R | I | | IGR | opensea | IGR-opense | | rs1855462 | 42;41 |
| cg2135139 | -0.1334 | 0.733803 | -2.77692 | 0.013854 | 0.224708 | -4.16756 | 0.667102 | 0.800503 | 0.133401 | 6 | 1.62E+08 | F | I | AGPAT4 | Body | opensea | Body-opens | | rs5544091 | 1 |
| cg0782490 | -0.13999 | 0.639186 | -3.95251 | 0.001223 | 0.224708 | -1.76825 | 0.569189 | 0.709183 | 0.139993 | 4 | 1.84E+08 | R | II | | IGR | shore | IGR-shore | chr4:1843 | rs5680286 | 12 |
| cg0528318 | -0.10109 | 0.825303 | -3.94217 | 0.001249 | 0.224708 | -1.7897 | 0.774758 | 0.875848 | 0.10109 | 6 | 79620031 | F | II | | IGR | shore | IGR-shore | chr6:7962 | rs1877119 | 0;28;30 |
| cg0509559 | -0.13326 | 0.348789 | -2.91563 | 0.01044 | 0.224708 | -3.89353 | 0.282161 | 0.415417 | 0.133256 | 7 | 2139259 | R | I | MAD1L1 | Body | opensea | Body-opens | | rs1895159 | 38 |
| cg0302071 | -0.13314 | 0.688516 | -6.09589 | 1.84E-05 | 0.178987 | 2.515358 | 0.621945 | 0.755087 | 0.133142 | 17 | 180404 | R | II | RPH3AL | 5'UTR | opensea | 5'UTR-open | | rs5429897 | 47;45 |
| cg0108931 | -0.1331 | 0.38008 | -8.71377 | 2.45E-07 | 0.083564 | 6.976756 | 0.313529 | 0.446631 | 0.133102 | 2 | 1.72E+08 | F | I | GAD1 | Body | island | Body-islanc | chr2:1716 | rs5669427 | 23 |
| cg2618868 | -0.13269 | 0.253711 | -2.38153 | 0.030564 | 0.233116 | -4.92146 | 0.187365 | 0.320056 | 0.132691 | 15 | 50540269 | R | II | HDC | Body | opensea | Body-opens | | rs5370295 | 1 |
| cg0088169 | -0.1099 | 0.799943 | -3.89771 | 0.00137 | 0.224708 | -1.88196 | 0.744992 | 0.854895 | 0.109903 | 2 | 43328003 | R | II | | IGR | island | IGR-island | chr2:4332 | rs5411003 | 50;23 |
| cg1173167 | -0.13248 | 0.606516 | -4.9336 | 0.000168 | 0.224708 | 0.246365 | 0.540277 | 0.672756 | 0.132479 | 1 | 2995604 | R | I | PRDM16 | Body | shore | Body-shore | chr1:2997 | rs5711008 | 42;30;25;21;15;9;1 |
| cg1432619 | -0.13179 | 0.32646 | -2.5472 | 0.022012 | 0.225946 | -4.61119 | 0.260567 | 0.392353 | 0.131786 | 9 | 1.17E+08 | F | I | KIF12 | 5'UTR | island | 5'UTR-islan | chr9:1168 | | |
| cg2431542 | -0.11196 | 0.382949 | -3.86654 | 0.001461 | 0.224708 | -1.94663 | 0.326968 | 0.43893 | 0.111962 | 1 | 2.08E+08 | F | II | | IGR | shore | IGR-shore | chr1:2080 | rs5495203 | 1;31;36 |
| cg0984231 | -0.13166 | 0.363541 | -3.76289 | 0.00181 | 0.224708 | -2.16164 | 0.297713 | 0.429369 | 0.131656 | 9 | 1.01E+08 | F | II | GABBR2 | Body | opensea | Body-opens | | rs5464026 | 0;6;48 |
| cg2250917 | -0.13141 | 0.749808 | -3.1395 | 0.006587 | 0.224708 | -3.44367 | 0.684102 | 0.815514 | 0.131412 | 1 | 25234806 | F | II | RUNX3 | Body | island | Body-islanc | chr1:2523 | rs1419031 | 4;38 |
| cg1069876 | -0.13133 | 0.271232 | -3.86644 | 0.001461 | 0.224708 | -1.94684 | 0.205568 | 0.336895 | 0.131326 | 16 | 1583463 | R | II | TMEM204 | 5'UTR | shore | 5'UTR-shor | chr16:158 | rs1397654 | 21;20;1 |
| cg1447383 | -0.11288 | 0.650193 | -3.83048 | 0.001574 | 0.224708 | -2.02145 | 0.593755 | 0.706632 | 0.112877 | 9 | 1.31E+08 | F | II | | IGR | shelf | IGR-shelf | chr9:1314 | rs5390953 | 25 |
| cg1218996 | -0.13094 | 0.451196 | -3.10139 | 0.007126 | 0.224708 | -3.52081 | 0.385725 | 0.516667 | 0.130941 | 20 | 31098130 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5426220 | 33 |
| cg1357592 | -0.13083 | 0.486094 | -5.21366 | 9.7E-05 | 0.223139 | 0.807453 | 0.420678 | 0.551511 | 0.130833 | 12 | 9217583 | R | I | LOC14457 | TSS200 | island | TSS200-isla | chr12:921 | | |
| cg2561426 | -0.10069 | 0.672189 | -3.81998 | 0.001608 | 0.224708 | -2.04324 | 0.621845 | 0.722534 | 0.100688 | 2 | 2.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs5600670 | 2 |
| cg2113792 | -0.13055 | 0.397715 | -5.10769 | 0.000119 | 0.223139 | 0.596111 | 0.332439 | 0.462991 | 0.130552 | 14 | 1.06E+08 | F | II | CRIP2 | Body | island | Body-islanc | chr14:105 | rs1393120 | 5;25;45 |
| cg2679499 | -0.13046 | 0.575991 | -2.99918 | 0.008795 | 0.224708 | -3.72663 | 0.510759 | 0.641223 | 0.130464 | 3 | 11624030 | F | II | VGLL4 | TSS200 | opensea | TSS200-ope | | rs1928821 | 31;34;47 |
| cg1550917 | -0.13043 | 0.496274 | -2.59114 | 0.02016 | 0.225654 | -4.52744 | 0.431061 | 0.561487 | 0.130425 | 13 | 19919208 | R | II | LOC10010 | TSS200 | island | TSS200-isla | chr13:199 | rs5695056 | 35;25;1 |
| cg0526739 | -0.13014 | 0.3463 | -4.47207 | 0.000423 | 0.224708 | -0.69411 | 0.28123 | 0.411371 | 0.130141 | 20 | 32856898 | F | I | ASIP | Body | island | Body-islanc | chr20:328 | | |
| cg0257072 | -0.12963 | 0.504625 | -2.90285 | 0.010716 | 0.224708 | -3.91895 | 0.439811 | 0.569438 | 0.129627 | 9 | 71509406 | R | II | PIP5K1B | Body | opensea | Body-opens | | | |
| cg1784291 | -0.1296 | 0.660939 | -5.45231 | 6.13E-05 | 0.219272 | 1.278834 | 0.596138 | 0.72574 | 0.129602 | 13 | 1.14E+08 | F | I | ATP11A | 3'UTR | island | 3'UTR-islan | chr13:113 | rs5389931 | 21;22;25;33 |
| cg0873028 | -0.12937 | 0.63438 | -3.20364 | 0.005769 | 0.224708 | -3.31339 | 0.569694 | 0.699065 | 0.129371 | 2 | 96922414 | F | II | TMEM127 | Body | opensea | Body-opens | | rs5537026 | 17 |
| cg2155409 | -0.12929 | 0.716122 | -3.41078 | 0.003756 | 0.224708 | -2.88942 | 0.651479 | 0.780764 | 0.129285 | 16 | 87993346 | R | I | BANP | TSS200 | shore | TSS200-sho | chr16:879 | | |
| cg0006473 | -0.12921 | 0.319584 | -2.81894 | 0.012719 | 0.224708 | -4.08498 | 0.254978 | 0.384189 | 0.129211 | 7 | 1.54E+08 | R | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5316338 | 47;41;29;26 |
| cg1591960 | -0.21926 | 0.210989 | -3.70404 | 0.002045 | 0.224708 | -2.28365 | 0.101359 | 0.320618 | 0.219258 | 5 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs3729722 | 25;35;36 |
| cg1591741 | -0.12917 | 0.382681 | -2.19035 | 0.044302 | 0.248079 | -5.26729 | 0.318098 | 0.447265 | 0.129167 | 15 | 69010214 | F | II | CORO2B | Body | opensea | Body-opens | | rs5728831 | 0;34;38 |
| cg2306004 | -0.10668 | 0.496536 | -3.69884 | 0.002067 | 0.224708 | -2.29443 | 0.443194 | 0.549879 | 0.106685 | 12 | 1.31E+08 | R | II | | IGR | shelf | IGR-shelf | chr12:130 | rs5427132 | 34 |
| cg1178716 | -0.12888 | 0.300878 | -2.14945 | 0.047905 | 0.252488 | -5.33935 | 0.236436 | 0.36532 | 0.128884 | 14 | 33407370 | R | II | NPAS3 | TSS1500 | shelf | TSS1500-sh | chr14:334 | rs5426679 | 29;23 |
| cg0177786 | -0.12811 | 0.359102 | -3.69587 | 0.002079 | 0.224708 | -2.30058 | 0.295049 | 0.423154 | 0.128106 | 4 | 56023843 | R | I | | IGR | island | IGR-island | chr4:5602 | rs1401537 | 39;18 |
| cg1569608 | -0.12886 | 0.587698 | -3.28951 | 0.00483 | 0.224708 | -3.13816 | 0.523269 | 0.652127 | 0.128858 | 11 | 8931543 | F | II | AKIP1 | TSS1500 | shore | TSS1500-sh | chr11:893 | rs5431926 | 4;23 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0767480 | -0.2063 | 0.417705 | -3.67947 | 0.002151 | 0.224708 | -2.33455 | 0.314555 | 0.520855 | 0.2063 | 13 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs5355307 | 29;1 |
| cg0611423 | -0.12868 | 0.635903 | -2.79496 | 0.013356 | 0.224708 | -4.13216 | 0.571565 | 0.700241 | 0.128676 | 21 | 47960237 | R | II | DIP2A | Body | opensea | Body-open: | | rs5437551 | 32;2 |
| cg1083306 | -0.12808 | 0.619311 | -3.01344 | 0.008541 | 0.224708 | -3.69802 | 0.555272 | 0.683351 | 0.128079 | 12 | 1.12E+08 | R | I | FAM109A | TSS1500 | shore | TSS1500-sh | chr12:111 | rs5613937 | 49;16;6 |
| cg0293344 | -0.12687 | 0.571512 | -3.66571 | 0.002214 | 0.224708 | -2.36305 | 0.508077 | 0.634948 | 0.126871 | 2 | 10410713 | R | II | | IGR | opensea | IGR-opense | | rs1911412 | 13 |
| cg1667281 | -0.12755 | 0.630103 | -3.37503 | 0.004045 | 0.224708 | -2.96289 | 0.566326 | 0.693879 | 0.127553 | 18 | 3606680 | R | II | DLGAP1-AS | Body | opensea | Body-open: | | rs5372748 | 13;2;1 |
| cg1538919 | -0.12752 | 0.617037 | -2.55654 | 0.021605 | 0.225763 | -4.59343 | 0.553277 | 0.680797 | 0.12752 | 3 | 32462380 | F | II | CMTM7 | Body | opensea | Body-open: | | rs347160;r | 13;42 |
| cg0344291 | -0.12743 | 0.464914 | -2.47549 | 0.025389 | 0.228651 | -4.74659 | 0.401197 | 0.528632 | 0.127434 | 20 | 44994454 | R | II | SLC35C2 | TSS1500 | shore | TSS1500-sh | chr20:449 | rs3758712 | 7 |
| cg0099187 | -0.10248 | 0.351303 | -3.64433 | 0.002314 | 0.224708 | -2.40732 | 0.300061 | 0.402545 | 0.102485 | 6 | 1.61E+08 | F | I | | IGR | island | IGR-island | chr6:1611( | rs5278564 | 9 |
| cg0008549 | -0.10163 | 0.349797 | -3.63133 | 0.002377 | 0.224708 | -2.43424 | 0.298981 | 0.400612 | 0.101631 | 1 | 2.08E+08 | R | II | | IGR | shore | IGR-shore | chr1:2080 | rs926628 | 40 |
| cg1279815 | -0.12738 | 0.241869 | -3.85775 | 0.001487 | 0.224708 | -1.96487 | 0.17818 | 0.305558 | 0.127379 | 1 | 19600719 | F | I | AKR7L | TSS200 | island | TSS200-isla | chr1:1960( | rs1859181 | 12;20;21;38 |
| cg2316001 | -0.12714 | 0.440754 | -2.89223 | 0.010952 | 0.224708 | -3.94003 | 0.377186 | 0.504322 | 0.127136 | 4 | 46391929 | R | II | GABRA2 | TSS1500 | island | TSS1500-isl | chr4:4639 | rs5599773 | 41;13 |
| cg2507007 | -0.11258 | 0.708562 | -3.58236 | 0.002631 | 0.224708 | -2.53555 | 0.65227 | 0.764853 | 0.112584 | 15 | 27083993 | R | II | | IGR | island | IGR-island | chr15:270 | rs1155632 | 50;44;27 |
| cg0541981 | -0.14529 | 0.2649 | -3.57592 | 0.002667 | 0.224708 | -2.54884 | 0.192258 | 0.337543 | 0.145286 | 6 | 31276437 | R | I | | IGR | island | IGR-island | chr6:3127( | rs9264960 | 43;42;27;12;4 |
| cg1886359 | -0.1271 | 0.443622 | -2.47635 | 0.025346 | 0.228558 | -4.74498 | 0.380069 | 0.507174 | 0.127105 | 3 | 6902845 | R | I | GRM7 | 1stExon | island | 1stExon-isl | chr3:6902 | rs5480698 | 33;19 |
| cg0081337 | -0.12674 | 0.541014 | -3.19433 | 0.005882 | 0.224708 | -3.33231 | 0.477646 | 0.604381 | 0.126735 | 1 | 1475209 | R | I | C1orf70 | Body | island | Body-islanc | chr1:1474 | rs5689947 | 21 |
| cg1334076 | -0.1262 | 0.474364 | -3.55953 | 0.002759 | 0.224708 | -2.58273 | 0.411265 | 0.537463 | 0.126198 | 8 | 1.42E+08 | F | I | | IGR | opensea | IGR-opense | | rs1422023 | 0;2;10;11;24 |
| cg2431013 | -0.12672 | 0.648583 | -4.20635 | 0.000726 | 0.224708 | -1.24218 | 0.585223 | 0.711942 | 0.126719 | 7 | 1.4E+08 | F | II | SLC37A3 | TSS1500 | shore | TSS1500-sh | chr7:1400 | rs4407796 | 26 |
| cg2379504 | -0.1267 | 0.416607 | -5.33203 | 7.72E-05 | 0.220729 | 1.04208 | 0.353257 | 0.479957 | 0.1267 | 12 | 9217529 | R | I | LOC14457 | TSS1500 | island | TSS1500-isl | chr12:921 | | |
| cg0934179 | -0.12664 | 0.478885 | -4.0196 | 0.001065 | 0.224708 | -1.62908 | 0.415566 | 0.542204 | 0.126638 | 14 | 62036609 | F | II | FLJ22447 | TSS1500 | opensea | TSS1500-o | | rs5574028 | 1;14;36 |
| cg2501024 | -0.12662 | 0.692382 | -3.00925 | 0.008615 | 0.224708 | -3.70642 | 0.629069 | 0.755694 | 0.126625 | 21 | 37451839 | R | II | LOC10013 | Body | opensea | Body-open: | | rs7321061 | 51;50;47;38;10;2 |
| cg0997886 | -0.14846 | 0.382928 | -3.53912 | 0.002878 | 0.224708 | -2.62488 | 0.308698 | 0.457158 | 0.148459 | 4 | 56023921 | F | I | | IGR | island | IGR-island | chr4:5602 | rs5711209 | 36;43 |
| cg1310834 | -0.12631 | 0.578364 | -3.77285 | 0.001773 | 0.224708 | -2.14099 | 0.515211 | 0.641517 | 0.126306 | 17 | 11608711 | R | II | DNAH9 | Body | opensea | Body-open: | | | |
| cg0590328 | -0.10978 | 0.693018 | -3.52697 | 0.002952 | 0.224708 | -2.64998 | 0.63813 | 0.747907 | 0.109777 | 2 | 1.3E+08 | F | I | | IGR | island | IGR-island | chr2:1303 | rs5382672 | 3 |
| cg0767180 | -0.12942 | 0.265843 | -3.52483 | 0.002965 | 0.224708 | -2.65441 | 0.201132 | 0.330554 | 0.129422 | 5 | 74907694 | R | I | | IGR | island | IGR-island | chr5:7490 | rs5558866 | 37;34 |
| cg1276512 | -0.11204 | 0.494323 | -3.52374 | 0.002972 | 0.224708 | -2.65664 | 0.438303 | 0.550342 | 0.112039 | 10 | 1.32E+08 | F | I | | IGR | opensea | IGR-opense | | rs5503527 | 4;5;37 |
| cg1834395 | -0.12601 | 0.286977 | -2.18633 | 0.044645 | 0.248546 | -5.2744 | 0.223971 | 0.349984 | 0.126013 | 14 | 48144197 | R | I | MDGA2 | TSS200 | island | TSS200-isla | chr14:481 | rs5557021 | 27 |
| cg2666629 | -0.12599 | 0.687453 | -3.04326 | 0.008033 | 0.224708 | -3.63806 | 0.624457 | 0.750449 | 0.125992 | 13 | 1.14E+08 | F | II | ATP11A | 3'UTR | island | 3'UTR-islan | chr13:113 | rs3832910 | 38 |
| cg1721093 | -0.1258 | 0.482656 | -3.06908 | 0.007617 | 0.224708 | -3.58605 | 0.419757 | 0.545555 | 0.125798 | 1 | 59043173 | R | I | TACSTD2 | TSS200 | island | TSS200-isla | chr1:5904 | rs5273258 | 50;33 |
| cg2251752 | -0.1255 | 0.289516 | -2.92136 | 0.010318 | 0.224708 | -3.88213 | 0.226767 | 0.352266 | 0.125499 | 21 | 48056967 | F | II | PRMT2 | Body | shore | Body-shore | chr21:480 | rs5741353 | 0;1;14 |
| cg1657287 | -0.12246 | 0.438089 | -3.48154 | 0.003243 | 0.224708 | -2.74371 | 0.376857 | 0.49932 | 0.122463 | 4 | 56024045 | F | II | | IGR | island | IGR-island | chr4:5602 | rs1771224 | 18;39 |
| cg2445006 | -0.12518 | 0.295599 | -2.93394 | 0.010055 | 0.224708 | -3.85706 | 0.233011 | 0.358187 | 0.125175 | 1 | 1.56E+08 | R | II | SLC25A44 | 5'UTR | island | 5'UTR-islan | chr1:1561( | rs5767060 | 41;26 |
| cg2742362 | -0.1248 | 0.459583 | -2.98819 | 0.008996 | 0.224708 | -3.74865 | 0.397181 | 0.521985 | 0.124804 | 3 | 69299355 | R | II | FRMD4B | Body | opensea | Body-open: | | rs5603839 | 12;8 |
| cg1322162 | -0.12437 | 0.261635 | -2.66562 | 0.017356 | 0.225046 | -4.38425 | 0.199451 | 0.323819 | 0.124368 | 22 | 47134912 | F | II | CERK | TSS1500 | opensea | TSS1500-o | | rs1899010 | 24 |
| cg1700156 | -0.12393 | 0.34844 | -4.67795 | 0.000279 | 0.224708 | -0.27246 | 0.286474 | 0.410406 | 0.123932 | 1 | 2990490 | F | I | PRDM16 | Body | island | Body-islanc | chr1:2990( | rs5438112 | 13;14;18 |
| cg1975743 | -0.12386 | 0.573466 | -4.05364 | 0.000993 | 0.224708 | -1.55849 | 0.511539 | 0.635394 | 0.123856 | 7 | 71868412 | F | II | CALN1 | ExonBnd | opensea | ExonBnd-o | | rs1454043 | 23;40;51 |
| cg0002924 | -0.12383 | 0.615475 | -3.82422 | 0.001594 | 0.224708 | -2.03443 | 0.553563 | 0.677388 | 0.123825 | 7 | 1.37E+08 | F | II | DGKI | Body | opensea | Body-open: | | rs1126399 | 1 |
| cg0158409 | -0.15101 | 0.555627 | -3.39002 | 0.003922 | 0.224708 | -2.9321 | 0.480124 | 0.63113 | 0.151006 | 21 | 45254457 | R | II | | IGR | opensea | IGR-opense | | rs1926338 | 47;2 |
| cg0567873 | -0.11522 | 0.569759 | -3.38763 | 0.003941 | 0.224708 | -2.93701 | 0.512146 | 0.627371 | 0.115225 | 5 | 43010511 | F | II | | IGR | opensea | IGR-opense | | rs1119135 | 19 |
| cg1648094 | -0.14686 | 0.293741 | -3.37904 | 0.004012 | 0.224708 | -2.95466 | 0.220312 | 0.367171 | 0.146859 | 5 | 10533585 | F | II | | IGR | opensea | IGR-opense | | rs1482503 | 22;47 |
| cg2137962 | -0.12367 | 0.43181 | -4.66909 | 0.000284 | 0.224708 | -0.29054 | 0.369977 | 0.493643 | 0.123666 | 10 | 33538715 | R | II | NRP1 | Body | opensea | Body-open: | | rs5338683 | 33 |
| cg0259932 | -0.1229 | 0.619265 | -2.82664 | 0.012521 | 0.224708 | -4.06982 | 0.557816 | 0.680714 | 0.122898 | 4 | 1.22E+08 | F | II | TNIP3 | TSS1500 | opensea | TSS1500-o | | rs1930318 | 14;18;21 |
| cg1612751 | -0.13169 | 0.732067 | -3.37191 | 0.004072 | 0.224708 | -2.96929 | 0.666221 | 0.797912 | 0.131692 | 10 | 29273678 | F | II | | IGR | opensea | IGR-opense | | rs5363367 | 17 |
| cg1234267 | -0.12272 | 0.346528 | -2.24314 | 0.040022 | 0.242641 | -5.17324 | 0.285166 | 0.407889 | 0.122723 | 10 | 60411127 | F | II | BICC1 | Body | opensea | Body-open: | | rs1176508 | 4;17;46 |
| cg2212378 | -0.159 | 0.359987 | -3.35374 | 0.004228 | 0.224708 | -3.00659 | 0.280487 | 0.439487 | 0.159 | 8 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5746854 | 38 |
| cg0161893 | -0.12267 | 0.455398 | -3.15506 | 0.006379 | 0.224708 | -3.41211 | 0.394063 | 0.516732 | 0.122668 | 3 | 72870430 | F | II | SHQ1 | Body | opensea | Body-open: | | rs7754433 | 0;1;24;26;34;48 |
| cg2014157 | -0.1226 | 0.41623 | -2.50634 | 0.02388 | 0.227295 | -4.68854 | 0.354928 | 0.477532 | 0.122605 | 12 | 12225262 | R | I | BCL2L14 | 5'UTR | opensea | 5'UTR-open | | rs5577052 | 34;33;30;1 |
| cg1952526 | -0.11414 | 0.638329 | -3.34218 | 0.004331 | 0.224708 | -3.03031 | 0.581258 | 0.6954 | 0.114142 | 11 | 91864865 | F | II | | IGR | opensea | IGR-opense | | rs1566061 | 25;30 |
| cg1707940 | -0.12209 | 0.62354 | -3.14785 | 0.006475 | 0.224708 | -3.42674 | 0.562495 | 0.684584 | 0.122089 | 3 | 1.43E+08 | F | II | SLC9A9 | Body | opensea | Body-open: | | rs1824680 | 0;21;37;47 |
| cg1561808 | -0.33007 | 0.423645 | -3.33294 | 0.004414 | 0.224708 | -3.04923 | 0.258611 | 0.588679 | 0.330068 | 14 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5543963 | 51;36;14;12;8;7;2;1 |
| cg1928675 | -0.12527 | 0.390131 | -3.32911 | 0.004449 | 0.224708 | -3.05708 | 0.327496 | 0.452766 | 0.125271 | 1 | 2.29E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754440 | 1 |
| cg1344750 | -0.11631 | 0.346132 | -3.32414 | 0.004495 | 0.224708 | -3.06727 | 0.287976 | 0.404288 | 0.116312 | 9 | 469777 | F | I | | IGR | shore | IGR-shore | chr9:4701( | rs1492647 | 3;13;21;24;28;34 |
| cg1597151 | -0.12183 | 0.645365 | -2.30643 | 0.035399 | 0.237641 | -5.059 | 0.584452 | 0.706278 | 0.121826 | 11 | 57159174 | R | II | PRG2 | TSS1500 | opensea | TSS1500-o | | rs5493842 | 8 |
| cg0549100 | -0.135 | 0.299407 | -3.29285 | 0.004797 | 0.224708 | -3.13133 | 0.231905 | 0.36691 | 0.135005 | 4 | 62066539 | F | I | | IGR | island | IGR-island | chr4:6206 | rs1386678 | 21;23 |
| cg1770058 | -0.12125 | 0.667415 | -2.865 | 0.011579 | 0.224708 | -3.99402 | 0.606788 | 0.728042 | 0.121254 | 14 | 1.06E+08 | R | II | CRIP2 | Body | shore | Body-shore | chr14:105 | rs5876809 | 45;35;8 |
| cg0627929 | -0.12124 | 0.380479 | -2.34464 | 0.032856 | 0.23511 | -4.98928 | 0.319856 | 0.441101 | 0.121244 | 10 | 601816 | F | II | DIP2C | Body | opensea | Body-open: | | rs5692921 | 0;16;18;44;45;48 |
| cg2442887 | -0.10166 | 0.305492 | -3.28506 | 0.004875 | 0.224708 | -3.14727 | 0.254663 | 0.35632 | 0.101657 | 6 | 21664652 | F | I | | IGR | island | IGR-island | chr6:2166 | rs5745930 | 11;40 |
| cg2447656 | -0.12124 | 0.406596 | -3.78822 | 0.001717 | 0.224708 | -2.10911 | 0.345974 | 0.467218 | 0.121244 | 13 | 95954382 | F | II | ABCC4 | TSS1500 | shore | TSS1500-sh | chr13:959 | | |
| cg2065507 | -0.10379 | 0.22568 | -3.28435 | 0.004882 | 0.224708 | -3.14871 | 0.173784 | 0.277577 | 0.103793 | 19 | 40315011 | R | I | | IGR | island | IGR-island | chr19:403 | rs2010953 | 41;29 |
| cg2159496 | -0.12123 | 0.259572 | -2.20387 | 0.043167 | 0.246657 | -5.24331 | 0.198956 | 0.320188 | 0.121232 | 3 | 3152916 | F | II | IL5RA | TSS1500 | opensea | TSS1500-o | | rs1787849 | 14;27 |
| cg2190079 | -0.12121 | 0.648175 | -2.8198 | 0.012697 | 0.224708 | -4.0833 | 0.587568 | 0.708781 | 0.121213 | 8 | 1.45E+08 | F | I | PLEC1 | Body | shore | Body-shore | chr8:1450( | rs1892335 | 0;1;25;28 |
| cg2556947 | -0.11094 | 0.578358 | -3.27592 | 0.004968 | 0.224708 | -3.16595 | 0.522891 | 0.633826 | 0.110936 | 8 | 41108491 | F | II | | IGR | opensea | IGR-opense | | rs5555040 | 1 |
| cg0093061 | -0.12087 | 0.591394 | -3.93694 | 0.001263 | 0.224708 | -1.80055 | 0.530959 | 0.651828 | 0.120869 | 18 | 74088820 | R | II | ZNF516 | Body | shelf | Body-shelf | chr18:740 | rs5670754 | 47;46 |
| cg1117363 | -0.28883 | 0.313195 | -3.26636 | 0.005067 | 0.224708 | -3.18547 | 0.16878 | 0.45761 | 0.288831 | 10 | 65632259 | R | II | | IGR | opensea | IGR-opense | | rs1418313 | 38;30;17;14;9 |
| cg0006190 | -0.12073 | 0.665485 | -3.3524 | 0.00424 | 0.224708 | -3.00934 | 0.605121 | 0.725849 | 0.120728 | 11 | 8931485 | F | II | AKIP1 | TSS1500 | shore | TSS1500-sh | chr11:893 | rs5718732 | 0;25;38;39 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2622001 | -0.10397 | 0.167143 | -3.26443 | 0.005087 | 0.224708 | -3.18942 | 0.115158 | 0.219128 | 0.10397 | 8 | 76320150 | R | I | | IGR | island | IGR-island | chr8:7631 | rs5527491 49;45;42;35 |
| cg0354616 | -0.12068 | 0.390168 | -2.33786 | 0.033294 | 0.235486 | -5.0017 | 0.329826 | 0.450511 | 0.120684 | 6 | 35654363 | R | II | FKBP5 | 5'UTR | shore | 5'UTR-shor | chr6:3565 | |
| cg0525649 | -0.1205 | 0.451034 | -3.55056 | 0.002811 | 0.224708 | -2.60127 | 0.390784 | 0.511284 | 0.1205 | 2 | 74643745 | F | II | C2orf81 | Body | shore | Body-shore | chr2:7464 | rs5752104 25 |
| cg0710491 | -0.12042 | 0.454563 | -4.189 | 0.000752 | 0.224708 | -1.27808 | 0.394353 | 0.514772 | 0.120419 | 11 | 46958073 | R | I | C11orf49 | TSS200 | shore | TSS200-sho | chr11:469 | rs5739559 22 |
| cg0447920 | -0.10842 | 0.532699 | -3.24929 | 0.005249 | 0.224708 | -3.22034 | 0.478488 | 0.58691 | 0.108422 | 8 | 61823106 | R | II | | IGR | shore | IGR-shore | chr8:6182 | |
| cg0879156 | -0.12041 | 0.437463 | -4.50157 | 0.000398 | 0.224708 | -0.63349 | 0.377255 | 0.49767 | 0.120415 | 2 | 66736054 | F | II | MEIS1 | Body | opensea | Body-open | | rs2005358 34 |
| cg1907653 | -0.11839 | 0.557531 | -3.23935 | 0.005359 | 0.224708 | -3.24061 | 0.498338 | 0.616723 | 0.118385 | 18 | 75072036 | R | II | | IGR | opensea | IGR-opense | | rs5659027 39;36;35;28;10;2 |
| cg1317200 | -0.12003 | 0.513543 | -2.68455 | 0.016705 | 0.224901 | -4.34761 | 0.453528 | 0.573557 | 0.120029 | 2 | 88390175 | F | II | SMYD1 | Body | opensea | Body-open | | rs5749572 1;47 |
| cg1490514 | -0.11991 | 0.472547 | -2.76801 | 0.014107 | 0.224708 | -4.18502 | 0.412591 | 0.532502 | 0.119911 | 15 | 70387094 | R | II | TLE3 | 5'UTR | shore | 5'UTR-shor | chr15:703 | rs5513355 11;6;5 |
| cg1864425 | -0.11991 | 0.630572 | -5.93147 | 2.49E-05 | 0.190792 | 2.204495 | 0.570619 | 0.690526 | 0.119907 | 12 | 9217859 | F | I | LOC144573 | Body | shore | Body-shore | chr12:921 | |
| cg2488572 | -0.11978 | 0.629596 | -2.87856 | 0.011262 | 0.224708 | -3.96716 | 0.569705 | 0.689487 | 0.119783 | 1 | 9030439 | F | II | CA6 | Body | opensea | Body-open | | rs5342159 14 |
| cg1347822 | -0.11965 | 0.232286 | -2.83937 | 0.0122 | 0.224708 | -4.0447 | 0.17246 | 0.292111 | 0.119651 | 18 | 70209432 | R | I | CBLN2 | 5'UTR | island | 5'UTR-islan | chr18:702 | rs5719552 38;12 |
| cg1140863 | -0.11968 | 0.431794 | -3.22788 | 0.005487 | 0.224708 | -3.26399 | 0.371952 | 0.491636 | 0.119685 | 1 | 4856487 | R | II | | IGR | opensea | IGR-opense | | rs5455687 18;10;7 |
| cg2301988 | -0.10284 | 0.684294 | -3.22691 | 0.005498 | 0.224708 | -3.26599 | 0.632876 | 0.735713 | 0.102837 | 1 | 1.47E+08 | F | II | | IGR | island | IGR-island | chr1:1465 | rs5875975 12;33;46;49 |
| cg2093329 | -0.14066 | 0.601485 | -3.21728 | 0.005609 | 0.224708 | -3.28561 | 0.531157 | 0.671813 | 0.140656 | 11 | 1.29E+08 | R | II | | IGR | island | IGR-island | chr11:128 | rs5274549 23 |
| cg1206742 | -0.13015 | 0.481315 | -3.2112 | 0.00568 | 0.224708 | -3.29798 | 0.416239 | 0.546391 | 0.130152 | 1 | 2.03E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:2032 | rs1921741 51;41;5 |
| cg0177801 | -0.12437 | 0.676898 | -3.20902 | 0.005706 | 0.224708 | -3.30242 | 0.614714 | 0.739081 | 0.124367 | 1 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0213271 | -0.11946 | 0.421236 | -3.28446 | 0.004881 | 0.224708 | -3.1485 | 0.361505 | 0.480966 | 0.119461 | 17 | 46656690 | F | I | HOXB4 | TSS1500 | shore | TSS1500-sh | chr17:466 | rs5514207 6 |
| cg2521871 | -0.11928 | 0.196086 | -3.04817 | 0.007952 | 0.224708 | -3.62819 | 0.136449 | 0.255724 | 0.119275 | 20 | 22565228 | R | I | FOXA2 | 5'UTR | island | 5'UTR-islan | chr20:225 | |
| cg0175975 | -0.11926 | 0.877483 | -2.35532 | 0.032176 | 0.234492 | -4.96971 | 0.817851 | 0.937115 | 0.119264 | 11 | 66579670 | R | II | C11orf80 | Body | opensea | Body-open | | |
| cg0106894 | -0.11101 | 0.201936 | -3.19226 | 0.005907 | 0.224708 | -3.33653 | 0.146431 | 0.257442 | 0.111011 | 20 | 9049273 | F | I | | IGR | island | IGR-island | chr20:904 | |
| cg0681837 | -0.11891 | 0.576859 | -3.83022 | 0.001574 | 0.224708 | -2.02198 | 0.517404 | 0.636315 | 0.118911 | 8 | 56793504 | R | II | LYN | 5'UTR | shore | 5'UTR-shor | chr8:5679 | rs6474026 13 |
| cg1153313 | -0.14462 | 0.596468 | -3.18103 | 0.006046 | 0.224708 | -3.35937 | 0.524156 | 0.668779 | 0.144622 | 12 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs7650844 0 |
| cg0476044 | -0.11891 | 0.393542 | -2.19042 | 0.044296 | 0.248068 | -5.26716 | 0.334089 | 0.452994 | 0.118905 | 21 | 46890849 | R | II | COL18A1 | Body | island | Body-islanc | chr21:468 | rs1411442 21 |
| cg0025588 | -0.11889 | 0.327787 | -4.3885 | 0.000501 | 0.224708 | -0.86608 | 0.268341 | 0.387232 | 0.118892 | 2 | 1.29E+08 | F | II | WDR33 | TSS1500 | shore | TSS1500-sh | chr2:1285 | rs1155108 19 |
| cg0664508 | -0.11879 | 0.641987 | -2.90491 | 0.010671 | 0.224708 | -3.91484 | 0.582593 | 0.70138 | 0.118787 | 15 | 85553820 | F | II | PDE8A | 5'UTR | opensea | 5'UTR-open | | rs6811599 10 |
| cg0188405 | -0.10873 | 0.372507 | -3.16164 | 0.006293 | 0.224708 | -3.39875 | 0.318142 | 0.426872 | 0.10873 | 2 | 25150051 | F | II | | IGR | opensea | IGR-opense | | rs5346995 1 |
| cg1394228 | -0.11863 | 0.521574 | -2.68971 | 0.016532 | 0.224896 | -4.3376 | 0.462259 | 0.580889 | 0.11863 | 10 | 1.13E+08 | R | II | RBM20 | Body | opensea | Body-open | | rs1442822 35;27 |
| cg1123194 | -0.11863 | 0.319803 | -2.18244 | 0.044979 | 0.248899 | -5.28128 | 0.260489 | 0.379118 | 0.118629 | 8 | 63161616 | R | I | NKAIN3 | 1stExon | island | 1stExon-isl | chr8:6316 | rs5353119 28;6 |
| cg0884131 | -0.11846 | 0.155284 | -3.62731 | 0.002397 | 0.224708 | -2.44256 | 0.096054 | 0.214514 | 0.11846 | 6 | 1.25E+08 | F | I | RNF217 | 1stExon | island | 1stExon-isl | chr6:1252 | |
| cg1191983 | -0.10064 | 0.649586 | -3.15366 | 0.006397 | 0.224708 | -3.41496 | 0.599268 | 0.699904 | 0.100636 | 8 | 57350735 | R | II | | IGR | shore | IGR-shore | chr8:5735 | rs5461053 15;11 |
| cg0619495 | -0.11836 | 0.544374 | -2.38851 | 0.030147 | 0.232737 | -4.90857 | 0.485193 | 0.603555 | 0.118362 | 16 | 27244433 | F | II | NSMCE1 | Body | opensea | Body-open | | rs2000325 0;1;29 |
| cg0773632 | -0.11834 | 0.776206 | -5.5114 | 5.47E-05 | 0.219272 | 1.394535 | 0.717034 | 0.835378 | 0.118344 | 4 | 52772969 | R | II | DCUN1D4 | Body | opensea | Body-open | | rs1817708 50;1 |
| cg1464892 | -0.11823 | 0.713025 | -3.04836 | 0.007949 | 0.224708 | -3.6278 | 0.653908 | 0.772141 | 0.118233 | 4 | 1.7E+08 | F | II | PALLD | 5'UTR | opensea | 5'UTR-open | | rs5382954 1;11;42 |
| cg0351346 | -0.18258 | 0.644011 | -3.13553 | 0.006641 | 0.224708 | -3.45171 | 0.55272 | 0.735303 | 0.182584 | 1 | 58898672 | F | II | | IGR | opensea | IGR-opense | | rs5765044 0;1;17;22;41 |
| cg1620195 | -0.11797 | 0.524504 | -2.61875 | 0.019073 | 0.225391 | -4.47455 | 0.465517 | 0.58349 | 0.117973 | 4 | 1.41E+08 | F | II | MAML3 | Body | opensea | Body-open | | rs5290159 0 |
| cg2436884 | -0.11779 | 0.383972 | -2.13811 | 0.048952 | 0.253847 | -5.35922 | 0.325078 | 0.442866 | 0.117788 | 19 | 58545160 | F | I | ZSCAN1 | TSS1500 | island | TSS1500-isl | chr19:585 | rs5561099 15 |
| cg1277689 | -0.11755 | 0.279811 | -2.14693 | 0.048137 | 0.252876 | -5.34378 | 0.221037 | 0.338586 | 0.117549 | 9 | 1.15E+08 | F | II | MIR3134 | Body | opensea | Body-open | | |
| cg1624081 | -0.16512 | 0.391754 | -3.11444 | 0.006937 | 0.224708 | -3.49441 | 0.309196 | 0.474313 | 0.165117 | 2 | 65861662 | F | II | | IGR | opensea | IGR-opense | | rs5340833 51 |
| cg2171399 | -0.11461 | 0.427962 | -3.10419 | 0.007085 | 0.224708 | -3.51516 | 0.370656 | 0.485268 | 0.114613 | 8 | 21718256 | F | II | | IGR | opensea | IGR-opense | | |
| cg0088473 | -0.11738 | 0.268788 | -2.61339 | 0.01928 | 0.225391 | -4.48484 | 0.210099 | 0.327478 | 0.117379 | 9 | 85678133 | F | I | RASEF | TSS200 | island | TSS200-isla | chr9:8567 | rs1505397 18;47 |
| cg2221339 | -0.11734 | 0.319326 | -2.31502 | 0.034812 | 0.237078 | -5.04338 | 0.260657 | 0.377996 | 0.11734 | 1 | 2.01E+08 | F | I | C1orf106 | TSS200 | island | TSS200-isla | chr1:2008 | rs5712494 16;38 |
| cg2098575 | -0.11695 | 0.25862 | -2.66253 | 0.017464 | 0.225076 | -4.39023 | 0.200142 | 0.317097 | 0.116955 | 3 | 24536474 | R | I | THRB | TSS200 | island | TSS200-isla | chr3:2453 | |
| cg1097362 | -0.11672 | 0.69928 | -2.3718 | 0.031153 | 0.233679 | -4.93941 | 0.640923 | 0.757638 | 0.116715 | 2 | 86423274 | R | II | IMMT | TSS1500 | shore | TSS1500-sh | chr2:8642 | rs5405563 40 |
| cg1221874 | -0.10842 | 0.680235 | -3.08613 | 0.007354 | 0.224708 | -3.55165 | 0.626023 | 0.734447 | 0.108424 | 21 | 37451666 | R | II | | IGR | opensea | IGR-opense | | rs1865503 51;18;1 |
| cg2042671 | -0.11638 | 0.427998 | -3.66141 | 0.002233 | 0.224708 | -2.37195 | 0.369808 | 0.486188 | 0.11638 | 22 | 50248907 | F | II | ZBED4 | 5'UTR | shore | 5'UTR-shor | chr22:502 | |
| cg0163454 | -0.11633 | 0.310935 | -2.99886 | 0.008801 | 0.224708 | -3.72727 | 0.252768 | 0.369102 | 0.116333 | 14 | 71128147 | R | II | TTC9 | Body | opensea | Body-open | | rs1899764 2 |
| cg2303267 | -0.11623 | 0.714442 | -3.1237 | 0.006806 | 0.224708 | -3.47568 | 0.656328 | 0.772555 | 0.116226 | 17 | 18671452 | R | II | FBXW10 | Body | opensea | Body-open | | rs1875588 50;32;22;4 |
| cg0738577 | -0.10529 | 0.551991 | -3.0766 | 0.0075 | 0.224708 | -3.57088 | 0.499344 | 0.604638 | 0.105294 | 3 | 72320634 | F | II | | IGR | opensea | IGR-opense | | rs1437369 1 |
| cg0579584 | -0.11596 | 0.476252 | -4.79771 | 0.00022 | 0.224708 | -0.02869 | 0.41827 | 0.534233 | 0.115963 | 3 | 4794082 | F | II | ITPR1 | Body | opensea | Body-open | | rs1866997 17;46 |
| cg1694222 | -0.11563 | 0.294863 | -2.84888 | 0.011966 | 0.224708 | -4.02591 | 0.237049 | 0.352677 | 0.115628 | 4 | 6050460 | F | I | JAKMIP1 | Body | opensea | Body-open | | rs5435200 14;25;37 |
| cg0470751 | -0.12044 | 0.344342 | -3.06577 | 0.007669 | 0.224708 | -3.59273 | 0.284122 | 0.404563 | 0.120442 | 10 | 21799314 | F | I | | IGR | island | IGR-island | chr10:217 | rs1115909 43 |
| cg0232048 | -0.11559 | 0.297609 | -2.37063 | 0.031225 | 0.233736 | -4.94155 | 0.239814 | 0.355404 | 0.11559 | 13 | 1.1E+08 | R | I | IRS2 | 5'UTR | island | 5'UTR-islan | chr13:110 | rs1864147 6 |
| cg0203544 | -0.11527 | 0.514364 | -2.33509 | 0.033475 | 0.23565 | -5.00676 | 0.456729 | 0.572 | 0.115272 | 7 | 40027398 | F | II | CDK13 | Body | opensea | Body-open | | rs1490287 0;47 |
| cg1697772 | -0.11522 | 0.604932 | -3.0628 | 0.007716 | 0.224708 | -3.59871 | 0.547324 | 0.66254 | 0.115216 | 2 | 85105984 | R | II | TRABD2A | Body | shore | Body-shore | chr2:8510 | |
| cg0008466 | -0.11515 | 0.432454 | -2.33922 | 0.033206 | 0.235369 | -4.9992 | 0.374878 | 0.490029 | 0.115151 | 3 | 1.89E+08 | F | I | TPRG1-AS1 | TSS200 | island | TSS200-isla | chr3:1886 | rs1496605 17;21;30;48;49 |
| cg2633390 | -0.11512 | 0.407175 | -2.44378 | 0.027035 | 0.22984 | -4.80595 | 0.349614 | 0.464736 | 0.115122 | 8 | 17354701 | F | I | SLC7A2 | 1stExon | island | 1stExon-isl | chr8:1735 | rs5514557 34;43 |
| cg1955158 | -0.11496 | 0.155519 | -2.93797 | 0.009973 | 0.224708 | -3.84902 | 0.098039 | 0.212999 | 0.11496 | 20 | 62579792 | R | I | UCKL1 | Body | shelf | Body-shelf | chr20:625 | rs5408851 41;37;36;12;1 |
| cg2515095 | -0.11496 | 0.373907 | -4.65485 | 0.000292 | 0.224708 | -0.31959 | 0.316429 | 0.431386 | 0.114957 | 4 | 41540229 | R | II | LIMCH1 | Body | opensea | Body-open | | rs8017685 46;43;22 |
| cg1827384 | -0.11491 | 0.30752 | -3.26152 | 0.005118 | 0.224708 | -3.19536 | 0.250065 | 0.364975 | 0.11491 | 5 | 45695643 | R | I | HCN1 | Body | island | Body-islanc | chr5:4569 | rs1138600 32 |
| cg0770023 | -0.12256 | 0.380832 | -3.03603 | 0.008153 | 0.224708 | -3.65262 | 0.319553 | 0.442111 | 0.122558 | 4 | 39171231 | R | II | | IGR | shore | IGR-shore | chr4:3917 | |
| cg0803523 | -0.10249 | 0.132217 | -3.02944 | 0.008265 | 0.224708 | -3.66586 | 0.080975 | 0.18346 | 0.102485 | 1 | 62107430 | R | II | | IGR | opensea | IGR-opense | | |
| cg0121643 | -0.10181 | 0.188371 | -3.02669 | 0.008312 | 0.224708 | -3.6714 | 0.137465 | 0.239276 | 0.101811 | 15 | 77376235 | F | I | | IGR | opensea | IGR-opense | | rs5275803 0;30 |
| cg0606298 | -0.10333 | 0.239228 | -3.02211 | 0.00839 | 0.224708 | -3.68061 | 0.187563 | 0.290892 | 0.103328 | 3 | 22413960 | R | I | | IGR | island | IGR-island | chr3:2241 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0868262 | -0.11487 | 0.403757 | -3.07725 | 0.00749 | 0.224708 | -3.56958 | 0.346323 | 0.461192 | 0.114869 | 8 | 1.28E+08 | F | II | LOC72767 | Body | opensea | Body-open | | rs1837544 1;24;32;35 |
| cg2737910 | -0.10095 | 0.401581 | -3.01671 | 0.008484 | 0.224708 | -3.69145 | 0.351105 | 0.452057 | 0.100952 | 5 | 74907287 | R | II | | IGR | island | IGR-island | chr5:7490 | rs5765296 38;29;25;21;15 |
| cg1221270 | -0.11466 | 0.267724 | -2.59684 | 0.019931 | 0.225549 | -4.51655 | 0.210393 | 0.325055 | 0.114661 | 19 | 42817984 | R | II | TMEM145 | Body | island | Body-islanc | chr19:428 | rs1146286 37 |
| cg0245746 | -0.11456 | 0.542654 | -3.03918 | 0.008101 | 0.224708 | -3.64627 | 0.485372 | 0.599936 | 0.114565 | 8 | 9913680 | R | II | MSRA | Body | shore | Body-shore | chr8:9911 | rs1400165 22 |
| cg1777628 | -0.11443 | 0.669184 | -2.96138 | 0.009505 | 0.224708 | -3.80228 | 0.611971 | 0.726397 | 0.114426 | 1 | 1.54E+08 | F | II | S100A13 | 5'UTR | opensea | 5'UTR-open | | rs5489756 6;31;46 |
| cg1346064 | -0.11433 | 0.280301 | -2.27303 | 0.037773 | 0.240072 | -5.11949 | 0.223138 | 0.337465 | 0.114327 | 1 | 2.1E+08 | F | I | G0S2 | 1stExon | island | 1stExon-isl | chr1:2098 | rs1154271 8;17 |
| cg0823916 | -0.10861 | 0.493101 | -3.00724 | 0.008651 | 0.224708 | -3.71045 | 0.438797 | 0.547406 | 0.108609 | 15 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5587818 25;11 |
| cg0550682 | -0.11431 | 0.697317 | -2.56948 | 0.021053 | 0.225654 | -4.56879 | 0.640161 | 0.754472 | 0.114312 | 13 | 47472349 | F | II | HTR2A | TSS1500 | opensea | TSS1500-o | | rs1914231 11;35;36 |
| cg0917936 | -0.13033 | 0.624374 | -3.0052 | 0.008687 | 0.224708 | -3.71454 | 0.559209 | 0.689539 | 0.13033 | 22 | 39407384 | F | II | | IGR | opensea | IGR-opense | | rs6001376 15;26;29;31;42 |
| cg0378166 | -0.11425 | 0.291754 | -3.04395 | 0.008022 | 0.224708 | -3.63669 | 0.234629 | 0.34888 | 0.114251 | 11 | 62255221 | R | II | AHNAK | Body | opensea | Body-open | | |
| cg2574443 | -0.11399 | 0.213441 | -4.18279 | 0.000762 | 0.224708 | -1.29092 | 0.156448 | 0.270434 | 0.113986 | 16 | 83760920 | F | II | CDH13 | Body | opensea | Body-open | | rs1891770 11;18;33;39 |
| cg2002459 | -0.11394 | 0.419027 | -5.90064 | 2.64E-05 | 0.193904 | 2.14582 | 0.362059 | 0.475995 | 0.113937 | 11 | 57136075 | F | II | P2RX3 | Body | opensea | Body-open | | rs5723652 10;26 |
| cg0331691 | -0.11388 | 0.373042 | -3.96558 | 0.001191 | 0.224708 | -1.74113 | 0.316102 | 0.429983 | 0.113881 | 3 | 1.51E+08 | F | II | P2RY14 | 5'UTR | opensea | 5'UTR-open | | rs1926100 20 |
| cg0666513 | -0.1136 | 0.75567 | -3.20352 | 0.005771 | 0.224708 | -3.31362 | 0.698869 | 0.812471 | 0.113602 | 16 | 81721842 | R | II | CMIP | Body | opensea | Body-open | | rs5430912 25;9;6 |
| cg0761878 | -0.11349 | 0.676205 | -3.75616 | 0.001835 | 0.224708 | -2.1756 | 0.619462 | 0.732949 | 0.113487 | 2 | 2.4E+08 | F | II | HDAC4 | Body | opensea | Body-open | | rs5631688 5 |
| cg1404069 | -0.1134 | 0.695253 | -2.81478 | 0.012827 | 0.224708 | -4.09317 | 0.638553 | 0.751953 | 0.1134 | 7 | 1.17E+08 | F | II | CTTNBP2 | Body | opensea | Body-open | | rs3569093 19;44;45;46 |
| cg0098703 | -0.11054 | 0.261573 | -2.97925 | 0.009163 | 0.224708 | -3.76655 | 0.206303 | 0.316842 | 0.110539 | 5 | 1.41E+08 | F | II | | IGR | island | IGR-island | chr5:1408 | rs5718368 8 |
| cg0281289 | -0.11334 | 0.167009 | -3.37092 | 0.00408 | 0.224708 | -2.97133 | 0.110337 | 0.223681 | 0.113343 | 8 | 13134146 | F | II | DLC1 | Body | island | Body-islanc | chr8:1313 | rs5734852 1;27;40;49 |
| cg0890944 | -0.11829 | 0.56869 | -2.97254 | 0.00929 | 0.224708 | -3.77997 | 0.509545 | 0.627835 | 0.11829 | 15 | 25010154 | F | II | | IGR | opensea | IGR-opense | | rs5594827 0;20;36 |
| cg2434002 | -0.11333 | 0.607557 | -2.91394 | 0.010476 | 0.224708 | -3.89689 | 0.550894 | 0.664221 | 0.113327 | 10 | 94304119 | R | II | IDE | Body | opensea | Body-open | | rs1409972 6 |
| cg2592052 | -0.11321 | 0.479959 | -2.79249 | 0.013423 | 0.224708 | -4.13701 | 0.423353 | 0.536565 | 0.113212 | 17 | 42147463 | R | II | G6PC3 | TSS1500 | shore | TSS1500-sh | chr17:421 | rs1929657 14;11 |
| cg1211488 | -0.11315 | 0.571372 | -2.51367 | 0.023534 | 0.22692 | -4.6747 | 0.514798 | 0.627946 | 0.113148 | 8 | 1.08E+08 | F | II | OXR1 | Body | opensea | Body-open | | rs1457398 51 |
| cg1511129 | -0.1855 | 0.2553 | -2.96271 | 0.009479 | 0.224708 | -3.79964 | 0.162551 | 0.348049 | 0.185497 | 18 | 47847332 | F | II | | IGR | opensea | IGR-opense | | rs5642781 0;32 |
| cg2223644 | -0.11293 | 0.202629 | -2.57761 | 0.020714 | 0.225654 | -4.55329 | 0.146163 | 0.259094 | 0.112931 | 9 | 13279528 | F | I | MPDZ | 1stExon | island | 1stExon-isl | chr9:1327 | rs7752040 11 |
| cg0404085 | -0.1129 | 0.738331 | -2.329 | 0.033875 | 0.23606 | -5.01789 | 0.681882 | 0.79478 | 0.112898 | 19 | 17201629 | F | II | MYO9B | 5'UTR | opensea | 5'UTR-open | | rs5592622 6 |
| cg1075708 | -0.11371 | 0.468592 | -2.95887 | 0.009554 | 0.224708 | -3.8073 | 0.411736 | 0.525447 | 0.113711 | 3 | 39336300 | F | II | | IGR | opensea | IGR-opense | | rs5291422 1 |
| cg1826682 | -0.10032 | 0.434164 | -2.95616 | 0.009608 | 0.224708 | -3.81273 | 0.384003 | 0.484325 | 0.100322 | 17 | 46027572 | F | II | | IGR | opensea | IGR-opense | | |
| cg1567882 | -0.11287 | 0.424901 | -3.85524 | 0.001495 | 0.224708 | -1.97008 | 0.368465 | 0.481336 | 0.112871 | 18 | 77266975 | F | II | NFATC1 | Body | shelf | Body-shelf | chr18:772 | rs5524270 1;7;43;47;50 |
| cg2691714 | -0.13508 | 0.253524 | -2.94867 | 0.009756 | 0.224708 | -3.82769 | 0.185986 | 0.321063 | 0.135078 | 1 | 91184770 | R | II | | IGR | shore | IGR-shore | chr1:9118 | rs1143862 2;1 |
| cg2545928 | -0.11272 | 0.534081 | -3.16052 | 0.006307 | 0.224708 | -3.40102 | 0.477722 | 0.59044 | 0.112718 | 12 | 1.24E+08 | R | II | ZNF664 | 5'UTR | opensea | 5'UTR-open | | rs5545240 45;43;1 |
| cg1535252 | -0.1127 | 0.562247 | -3.65927 | 0.002243 | 0.224708 | -2.37639 | 0.505897 | 0.618598 | 0.112701 | 22 | 39812626 | R | II | TAB1 | Body | opensea | Body-open | | rs5551565 48;2 |
| cg2175452 | -0.11249 | 0.614808 | -4.30362 | 0.000595 | 0.224708 | -1.04114 | 0.558562 | 0.671055 | 0.112494 | 6 | 1.49E+08 | R | II | UST | Body | opensea | Body-open | | |
| cg2394480 | -0.11223 | 0.288244 | -2.25226 | 0.039323 | 0.241792 | -5.15687 | 0.232128 | 0.344359 | 0.112231 | 20 | 11871384 | F | I | BTBD3 | TSS200 | island | TSS200-isla | chr20:118 | |
| cg0395049 | -0.1122 | 0.633511 | -3.55372 | 0.002792 | 0.224708 | -2.59472 | 0.577409 | 0.689613 | 0.112205 | 11 | 1.27E+08 | F | II | KIRREL3 | Body | opensea | Body-open | | rs5459230 1 |
| cg0854693 | -0.11211 | 0.322916 | -2.7772 | 0.013846 | 0.224708 | -4.16701 | 0.26686 | 0.378973 | 0.112113 | 7 | 79763240 | R | II | GNAI1 | TSS1500 | shore | TSS1500-sh | chr7:7976 | |
| cg1799691 | -0.11206 | 0.368842 | -2.82918 | 0.012456 | 0.224708 | -4.0648 | 0.312811 | 0.424874 | 0.112063 | 1 | 26024404 | R | II | MAN1C1 | Body | opensea | Body-open | | rs5575245 1 |
| cg0863270 | -0.13483 | 0.65658 | -2.92836 | 0.010171 | 0.224708 | -3.86819 | 0.589163 | 0.723997 | 0.134834 | 21 | 37451849 | R | II | | IGR | opensea | IGR-opense | | rs5400640 48;20;12;1 |
| cg1879483 | -0.112 | 0.214209 | -3.01468 | 0.008519 | 0.224708 | -3.69551 | 0.158209 | 0.270209 | 0.112 | 1 | 2.15E+08 | R | I | KCNK2 | TSS1500 | island | TSS1500-isl | chr1:2152 | rs5336556 20 |
| cg0769088 | -0.14268 | 0.588751 | -2.92479 | 0.010246 | 0.224708 | -3.8753 | 0.517411 | 0.660091 | 0.142679 | 11 | 1.29E+08 | R | II | | IGR | island | IGR-island | chr11:128 | rs5619231 28 |
| cg0191161 | -0.1336 | 0.310428 | -2.9233 | 0.010277 | 0.224708 | -3.87826 | 0.243627 | 0.377228 | 0.133601 | 3 | 1.96E+08 | R | I | | IGR | opensea | IGR-opense | | rs1448881 44;40;31;14 |
| cg0303584 | -0.11175 | 0.549683 | -2.58304 | 0.02049 | 0.225654 | -4.54293 | 0.493807 | 0.605559 | 0.111752 | 6 | 91003200 | R | II | BACH2 | 5'UTR | shore | 5'UTR-shor | chr6:9100 | rs5719522 47;26;10;1 |
| cg2699238 | -0.11175 | 0.688988 | -3.93572 | 0.001266 | 0.224708 | -1.80309 | 0.633113 | 0.744862 | 0.111749 | 3 | 71478152 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs7295939 18;1 |
| cg2564315 | -0.11159 | 0.567798 | -2.23944 | 0.040309 | 0.243063 | -5.17986 | 0.512003 | 0.623592 | 0.111589 | 6 | 1.59E+08 | F | I | SYTL3 | 5'UTR | opensea | 5'UTR-open | | rs5600143 16;46 |
| cg1073273 | -0.11158 | 0.561734 | -3.23179 | 0.005443 | 0.224708 | -3.25604 | 0.505944 | 0.617523 | 0.111579 | 9 | 97951665 | F | II | FANCC | Body | opensea | Body-open | | rs5699319 1;2;5;24 |
| cg1348432 | -0.13307 | 0.616349 | -2.91629 | 0.010426 | 0.224708 | -3.89221 | 0.549811 | 0.682886 | 0.133074 | 2 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5644946 10;4;1 |
| cg0763937 | -0.11141 | 0.392421 | -2.51397 | 0.02352 | 0.22692 | -4.67414 | 0.336713 | 0.448128 | 0.111415 | 16 | 1584516 | R | I | IFT140 | Body | island | Body-islanc | chr16:158 | rs1918718 41;26;2 |
| cg0619004 | -0.1114 | 0.578329 | -3.5507 | 0.00281 | 0.224708 | -2.60097 | 0.522629 | 0.634029 | 0.1114 | 16 | 83986382 | R | II | OSGIN1 | 5'UTR | opensea | 5'UTR-open | | rs5447833 8 |
| cg1641297 | -0.11135 | 0.628151 | -3.16468 | 0.006253 | 0.224708 | -3.39259 | 0.572475 | 0.683827 | 0.111352 | 9 | 1.31E+08 | R | II | FAM102A | Body | opensea | Body-open | | rs1460215 22 |
| cg0893892 | -0.11126 | 0.644198 | -2.37351 | 0.031049 | 0.233542 | -4.93626 | 0.588567 | 0.699829 | 0.111262 | 15 | 64110513 | R | II | HERC1 | 5'UTR | opensea | 5'UTR-open | | rs5555566 13;1 |
| cg1209722 | -0.11116 | 0.217478 | -2.24211 | 0.040101 | 0.242791 | -5.17507 | 0.161899 | 0.273057 | 0.111158 | 8 | 16885000 | R | I | EFHA2 | 1stExon | island | 1stExon-isl | chr8:1688 | rs5400761 23;13 |
| cg1392088 | -0.11111 | 0.174877 | -2.84281 | 0.012115 | 0.224708 | -4.03791 | 0.119324 | 0.23043 | 0.111106 | 21 | 22370438 | R | I | NCAM2 | TSS200 | island | TSS200-isla | chr21:223 | rs1115217 13 |
| cg0874090 | -0.11102 | 0.558607 | -2.68781 | 0.016596 | 0.224896 | -4.34129 | 0.503097 | 0.614118 | 0.111021 | 2 | 2.4E+08 | R | II | HDAC4 | Body | opensea | Body-open | | rs5525310 10 |
| cg1379060 | -0.11097 | 0.295341 | -2.72873 | 0.015278 | 0.224795 | -4.26177 | 0.239856 | 0.350826 | 0.11097 | 3 | 24536478 | R | I | THRB | TSS200 | island | TSS200-isla | chr3:2453 | |
| cg0432912 | -0.11088 | 0.508801 | -4.87166 | 0.00019 | 0.224708 | 0.121199 | 0.453363 | 0.564239 | 0.110876 | 14 | 1.06E+08 | F | I | CRIP2 | Body | island | Body-islanc | chr14:105 | rs5876740 39 |
| cg2569724 | -0.11083 | 0.560131 | -2.64648 | 0.018038 | 0.225076 | -4.42119 | 0.504715 | 0.615547 | 0.110832 | 3 | 17363960 | F | II | TBC1D5 | Body | opensea | Body-open | | rs5694529 0;12 |
| cg0073947 | -0.11076 | 0.580147 | -2.31916 | 0.034532 | 0.236784 | -5.03583 | 0.524768 | 0.635525 | 0.110757 | 14 | 69415588 | F | II | ACTN1 | Body | opensea | Body-open | | rs3722395 1;38 |
| cg0513048 | -0.15889 | 0.282486 | -2.87103 | 0.011437 | 0.224708 | -3.98208 | 0.203043 | 0.361929 | 0.158887 | 8 | 98271949 | R | II | | IGR | opensea | IGR-opense | | rs5573853 31;7;2;1 |
| cg0064100 | -0.11049 | 0.498116 | -2.30445 | 0.035536 | 0.237698 | -5.06259 | 0.442871 | 0.553361 | 0.11049 | 3 | 18459838 | R | II | SATB1 | Body | opensea | Body-open | | rs1873370 1 |
| cg0777530 | -0.1008 | 0.242589 | -2.86972 | 0.011468 | 0.224708 | -3.98468 | 0.192191 | 0.292987 | 0.100795 | 3 | 12595852 | F | II | | IGR | shelf | IGR-shelf | chr3:1259 | rs5402886 26 |
| cg2417797 | -0.11041 | 0.406319 | -2.83233 | 0.012377 | 0.224708 | -4.05859 | 0.351113 | 0.461526 | 0.110413 | 1 | 89127007 | R | II | PKN2-AS1 | Body | opensea | Body-open | | rs5410813 48;38 |
| cg1409682 | -0.11037 | 0.549563 | -2.65011 | 0.017907 | 0.225076 | -4.41419 | 0.494379 | 0.604747 | 0.110367 | 7 | 1.11E+08 | R | II | LRRN3 | 1stExon | opensea | 1stExon-op | | rs5577189 38;6;2 |
| cg2365138 | -0.11015 | 0.322039 | -2.92175 | 0.01031 | 0.224708 | -3.88135 | 0.266962 | 0.377116 | 0.110154 | 19 | 47685890 | F | II | SAE1 | Body | opensea | Body-open | | rs5414603 44 |
| cg1035169 | -0.11011 | 0.23175 | -3.08141 | 0.007426 | 0.224708 | -3.56118 | 0.176696 | 0.286804 | 0.110107 | 11 | 24518557 | F | I | LUZP2 | 5'UTR | island | 5'UTR-islan | chr11:245 | rs1441074 14 |
| cg0727884 | -0.14409 | 0.211508 | -2.85518 | 0.011813 | 0.224708 | -4.01346 | 0.139465 | 0.283551 | 0.144087 | 6 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5584787 9;33;39 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1191566 | -0.10996 | 0.565064 | -3.86918 | 0.001453 | 0.224708 | -1.94115 | 0.510082 | 0.620045 | 0.109963 | 1 | 1.54E+08 | R | II | S100A13 | TSS200 | opensea | TSS200-ope | | rs1430884 1 |
| cg1570077 | -0.10979 | 0.442137 | -3.47156 | 0.003311 | 0.224708 | -2.76428 | 0.387245 | 0.49703 | 0.109785 | 4 | 1.09E+08 | R | II | CYP2U1 | TSS1500 | shore | TSS1500-sh | chr4:10885 | rs5487252 1 |
| cg1398548 | -0.101 | 0.208917 | -2.84481 | 0.012066 | 0.224708 | -4.03396 | 0.158419 | 0.259416 | 0.100997 | 1 | 2.4E+08 | F | I | | IGR | island | IGR-island | chr1:2395 | rs5506474 3 |
| cg0463564 | -0.10974 | 0.450924 | -2.61965 | 0.019038 | 0.225391 | -4.47281 | 0.396054 | 0.505793 | 0.109739 | 16 | 12183938 | R | I | SNX29 | Body | opensea | Body-open | | rs5334388 8 |
| cg0880284 | -0.10982 | 0.619121 | -2.84285 | 0.012114 | 0.224708 | -4.03783 | 0.564211 | 0.67403 | 0.109819 | 12 | 89748726 | F | II | | IGR | shore | IGR-shore | chr12:897 | |
| cg2666882 | -0.10967 | 0.380236 | -2.86505 | 0.011577 | 0.224708 | -3.99393 | 0.325403 | 0.435069 | 0.109666 | 6 | 292823 | F | I | DUSP22 | Body | island | Body-islanc | chr6:2919 | rs815596;r 10;19;23;40 |
| cg1576539 | -0.1001 | 0.655264 | -2.8402 | 0.01218 | 0.224708 | -4.04305 | 0.605212 | 0.705316 | 0.100104 | 21 | 46409994 | F | II | | IGR | shore | IGR-shore | chr21:464 | rs1824241 0;13;38;41 |
| cg1644005 | -0.10965 | 0.363475 | -3.87553 | 0.001434 | 0.224708 | -1.92798 | 0.308652 | 0.418298 | 0.109646 | 20 | 32856846 | F | I | ASIP | Body | island | Body-islanc | chr20:328 | rs5763371 15 |
| cg2174015 | -0.10952 | 0.216366 | -2.17674 | 0.045473 | 0.249524 | -5.29135 | 0.161608 | 0.271124 | 0.109516 | 17 | 181194 | R | II | LOC10050( | 5'UTR | shelf | 5'UTR-shelf | chr17:185( | |
| cg0272545 | -0.10943 | 0.520332 | -2.78699 | 0.013574 | 0.224708 | -4.14781 | 0.465617 | 0.575047 | 0.10943 | 22 | 50249174 | F | II | ZBED4 | 5'UTR | shore | 5'UTR-shor | chr22:502 | rs1860528 0;47 |
| cg1040339 | -0.10943 | 0.602644 | -5.04316 | 0.000135 | 0.223139 | 0.466818 | 0.547931 | 0.657357 | 0.109426 | 15 | 63349192 | R | II | TPM1 | Body | opensea | Body-open | | rs2002572 2 |
| cg2370836 | -0.10943 | 0.358483 | -2.37617 | 0.030887 | 0.233383 | -4.93135 | 0.30377 | 0.413195 | 0.109425 | 7 | 1.46E+08 | F | II | CNTNAP2 | TSS200 | island | TSS200-isla | chr7:1458 | rs5280428 5 |
| cg1456036 | -0.14319 | 0.536063 | -2.82715 | 0.012508 | 0.224708 | -4.0688 | 0.464467 | 0.607658 | 0.143191 | 1 | 58898552 | R | II | | IGR | opensea | IGR-opense | | rs5683429 28;13 |
| cg2546118 | -0.10936 | 0.461225 | -2.94094 | 0.009912 | 0.224708 | -3.8431 | 0.406543 | 0.515907 | 0.109364 | 12 | 1.23E+08 | R | II | MLXIP | Body | shore | Body-shore | chr12:122 | rs5315780 49 |
| cg2130555 | -0.1093 | 0.519241 | -2.55976 | 0.021467 | 0.225654 | -4.58731 | 0.464591 | 0.573892 | 0.109301 | 12 | 1.08E+08 | R | II | BTBD11 | Body | opensea | Body-open | | rs5696865 2;1 |
| cg0849011 | -0.10928 | 0.254593 | -2.37266 | 0.031101 | 0.233625 | -4.93781 | 0.199955 | 0.309232 | 0.109277 | 11 | 30038675 | F | I | KCNA4 | TSS200 | island | TSS200-isla | chr11:300 | rs5386345 40;50 |
| cg1452271 | -0.10905 | 0.35172 | -2.45268 | 0.026563 | 0.229527 | -4.78931 | 0.297196 | 0.406243 | 0.109047 | 9 | 1.31E+08 | F | I | SLC25A25 | Body | opensea | Body-open | | rs5566265 2;18;24 |
| cg0573275 | -0.10729 | 0.294847 | -2.81415 | 0.012844 | 0.224708 | -4.09442 | 0.241201 | 0.348494 | 0.107293 | 7 | 6704045 | F | I | | IGR | island | IGR-island | chr7:6703 | |
| cg0546437 | -0.13128 | 0.210793 | -2.81126 | 0.01292 | 0.224708 | -4.1001 | 0.145151 | 0.276435 | 0.131284 | 10 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs7335091 23;19;10;1 |
| cg1401740 | -0.12613 | 0.461491 | -2.81053 | 0.012939 | 0.224708 | -4.10155 | 0.398427 | 0.524555 | 0.126128 | 2 | 86225602 | R | II | | IGR | opensea | IGR-opense | | rs1416376 11 |
| cg2403904 | -0.11634 | 0.125843 | -2.80193 | 0.013167 | 0.224708 | -4.11846 | 0.067673 | 0.184013 | 0.116339 | 6 | 1.71E+08 | F | II | | IGR | island | IGR-island | chr6:1705 | rs7761221 33;37 |
| cg0832592 | -0.10901 | 0.64195 | -3.00605 | 0.008672 | 0.224708 | -3.71284 | 0.587446 | 0.696454 | 0.109009 | 1 | 2.26E+08 | F | II | LIN9 | Body | opensea | Body-open | | rs1427713 1;50 |
| cg1512421 | -0.10899 | 0.341997 | -2.14005 | 0.048771 | 0.253574 | -5.35581 | 0.287503 | 0.396491 | 0.108989 | 4 | 1.73E+08 | F | I | GALNTL6 | TSS200 | island | TSS200-isla | chr4:1727 | rs5752688 6;47 |
| cg0646342 | -0.11718 | 0.882141 | -2.794 | 0.013382 | 0.224708 | -4.13405 | 0.82355 | 0.940731 | 0.11718 | 8 | 55471698 | F | II | | IGR | opensea | IGR-opense | | rs5755890 17;33;39 |
| cg0135528 | -0.10875 | 0.28295 | -2.97266 | 0.009288 | 0.224708 | -3.77974 | 0.228575 | 0.337325 | 0.10875 | 17 | 40264320 | F | II | DHX58 | 5'UTR | opensea | 5'UTR-open | | rs1808727 0;25;50;51 |
| cg1057024 | -0.10374 | 0.359032 | -2.791 | 0.013463 | 0.224708 | -4.13993 | 0.30716 | 0.410904 | 0.103744 | 7 | 1.59E+08 | R | I | | IGR | island | IGR-island | chr7:1587 | rs5532953 31;29;14;13;6;1 |
| cg1290911 | -0.1014 | 0.519096 | -2.78956 | 0.013503 | 0.224708 | -4.14277 | 0.468395 | 0.569797 | 0.101401 | 11 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs7112218 46;35;24;9 |
| cg2459186 | -0.10866 | 0.620551 | -2.93052 | 0.010126 | 0.224708 | -3.86388 | 0.566223 | 0.674879 | 0.108656 | 15 | 66697173 | F | II | MAP2K1 | Body | opensea | Body-open | | rs5605854 10 |
| cg0609229 | -0.1086 | 0.588194 | -2.25406 | 0.039186 | 0.241665 | -5.15363 | 0.533897 | 0.642492 | 0.108596 | 3 | 71180818 | F | II | FOXP1 | TSS1500 | opensea | TSS1500-o | | rs5779440 39;51 |
| cg0282420 | -0.10474 | 0.234605 | -2.78563 | 0.013611 | 0.224708 | -4.15048 | 0.182235 | 0.286976 | 0.104741 | 18 | 6729810 | R | I | | IGR | island | IGR-island | chr18:672 | |
| cg1541929 | -0.10859 | 0.641086 | -2.25654 | 0.038999 | 0.24144 | -5.14919 | 0.586793 | 0.695379 | 0.108585 | 19 | 56572945 | R | II | NLRP5 | 3'UTR | opensea | 3'UTR-open | | rs3762166 47;7 |
| cg1724391 | -0.10858 | 0.627979 | -2.72451 | 0.015409 | 0.224896 | -4.26999 | 0.573689 | 0.682269 | 0.10858 | 21 | 47982351 | R | II | DIP2A | Body | opensea | Body-open | | rs7777843 25;1 |
| cg0579019 | -0.10855 | 0.2893 | -3.01754 | 0.00847 | 0.224708 | -3.68978 | 0.235024 | 0.343576 | 0.108552 | 12 | 1.31E+08 | R | I | FZD10-AS1 | TSS1500 | island | TSS1500-isl | chr12:130 | |
| cg0975708 | -0.1085 | 0.230464 | -3.25722 | 0.005164 | 0.224708 | -3.20416 | 0.176213 | 0.284715 | 0.108502 | 16 | 1585644 | F | II | IFT140 | Body | shore | Body-shore | chr16:158 | rs1414607 6 |
| cg2181633 | -0.10849 | 0.379234 | -2.25226 | 0.039323 | 0.241792 | -5.15687 | 0.324988 | 0.433481 | 0.108493 | 17 | 27044629 | F | I | RAB34 | Body | island | Body-islanc | chr17:270 | rs5419273 22;38 |
| cg0740069 | -0.10835 | 0.544751 | -4.57767 | 0.000342 | 0.224708 | -0.47745 | 0.490574 | 0.598927 | 0.108353 | 20 | 21599928 | R | II | LOC10192( | Body | opensea | Body-open | | rs1161275 36;24;1 |
| cg0089166 | -0.10825 | 0.330305 | -2.79937 | 0.013236 | 0.224708 | -4.12349 | 0.276181 | 0.38443 | 0.108249 | 20 | 44868936 | R | II | CDH22 | Body | opensea | Body-open | | rs1831786 24;13;7 |
| cg0002708 | -0.10822 | 0.233277 | -2.78029 | 0.01376 | 0.224708 | -4.16095 | 0.179167 | 0.287388 | 0.108221 | 18 | 5543801 | F | I | EPB41L3 | 5'UTR | island | 5'UTR-islan | chr18:554 | rs5335151 45 |
| cg1398113 | -0.10213 | 0.347789 | -2.76908 | 0.014077 | 0.224708 | -4.18293 | 0.296726 | 0.398852 | 0.102126 | 14 | 76734493 | R | II | | IGR | opensea | IGR-opense | | |
| cg1569471 | -0.10816 | 0.458649 | -2.99623 | 0.008849 | 0.224708 | -3.73254 | 0.404569 | 0.51273 | 0.108161 | 11 | 1.18E+08 | R | II | TMEM25 | 5'UTR | shore | 5'UTR-shor | chr11:118 | |
| cg0387408 | -0.10813 | 0.185133 | -2.70156 | 0.016141 | 0.224896 | -4.31462 | 0.13107 | 0.239196 | 0.108125 | 1 | 14925172 | R | I | KAZN | TSS200 | island | TSS200-isla | chr1:1492 | |
| cg2145366 | -0.10001 | 0.435758 | -2.76454 | 0.014207 | 0.224708 | -4.19181 | 0.385753 | 0.485763 | 0.10001 | 3 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | | rs7389011 44 |
| cg1253426 | -0.10805 | 0.699992 | -2.50189 | 0.024093 | 0.227447 | -4.69693 | 0.645968 | 0.754017 | 0.10805 | 1 | 26092973 | F | II | MAN1C1 | Body | opensea | Body-open | | rs1901110 41;49 |
| cg1624832 | -0.10786 | 0.266781 | -2.17383 | 0.045727 | 0.249891 | -5.29649 | 0.212849 | 0.320713 | 0.107864 | 4 | 1.88E+08 | F | I | FAT1 | 5'UTR | island | 5'UTR-islan | chr4:1876 | rs1887875 20;36 |
| cg0319259 | -0.11829 | 0.303678 | -2.75437 | 0.014503 | 0.224708 | -4.2117 | 0.244533 | 0.362824 | 0.118291 | 19 | 12305854 | F | I | | IGR | island | IGR-island | chr19:123 | rs5600366 5;9;15;22;25;32 |
| cg0421747 | -0.11242 | 0.308726 | -2.75385 | 0.014519 | 0.224708 | -4.21272 | 0.252514 | 0.364937 | 0.112423 | 12 | 6895978 | F | II | | IGR | opensea | IGR-opense | | rs1125748 7;21 |
| cg0015553 | -0.10312 | 0.236639 | -2.75362 | 0.014525 | 0.224708 | -4.21317 | 0.185078 | 0.288199 | 0.103122 | 12 | 1.33E+08 | R | II | | IGR | shelf | IGR-shelf | chr12:132 | rs1124697 38;34;1 |
| cg1082796 | -0.11134 | 0.283971 | -2.75047 | 0.014619 | 0.224708 | -4.21933 | 0.2283 | 0.339641 | 0.111341 | 10 | 17548676 | F | II | | IGR | opensea | IGR-opense | | rs1845683 0;26 |
| cg0627410 | -0.11782 | 0.429376 | -2.74885 | 0.014667 | 0.224708 | -4.2225 | 0.370467 | 0.488285 | 0.117818 | 22 | 47798088 | F | II | | IGR | opensea | IGR-opense | | rs1849938 1;20;29 |
| cg1667230 | -0.10786 | 0.639842 | -4.62096 | 0.000313 | 0.224708 | -0.38886 | 0.585912 | 0.693773 | 0.10786 | 16 | 70780682 | F | II | VAC14 | Body | opensea | Body-open | | rs1482544 1;18 |
| cg0046398 | -0.10784 | 0.311523 | -2.65113 | 0.01787 | 0.225076 | -4.41224 | 0.257604 | 0.365442 | 0.107838 | 16 | 1583984 | F | I | IFT140 | Body | island | Body-islanc | chr16:158 | rs5564433 7 |
| cg0944331 | -0.10769 | 0.166802 | -3.48505 | 0.00322 | 0.224708 | -2.73647 | 0.112959 | 0.220645 | 0.107686 | 15 | 36871342 | R | II | C15orf41 | TSS1500 | shore | TSS1500-sh | chr15:368 | |
| cg2398260 | -0.10766 | 0.193562 | -3.68018 | 0.002148 | 0.224708 | -2.33308 | 0.139732 | 0.247392 | 0.107659 | 1 | 1823379 | R | II | GNB1 | TSS1500 | shore | TSS1500-sh | chr1:1821 | rs7571836 15;10 |
| cg2569664 | -0.10754 | 0.637039 | -2.61881 | 0.019071 | 0.225391 | -4.47442 | 0.583271 | 0.690807 | 0.107536 | 9 | 1.24E+08 | F | II | CNTRL | Body | opensea | Body-open | | rs7500879 0;7 |
| cg2642248 | -0.10737 | 0.252622 | -2.48306 | 0.025011 | 0.228314 | -4.73237 | 0.198936 | 0.306308 | 0.107372 | 5 | 16935950 | R | I | MYO10 | 1stExon | island | 1stExon-isl | chr5:1693 | rs5455530 38;29;18;2 |
| cg0088520 | -0.1129 | 0.389333 | -2.73069 | 0.015217 | 0.224792 | -4.25794 | 0.332885 | 0.445782 | 0.112897 | 15 | 70827566 | R | II | | IGR | opensea | IGR-opense | | rs5442891 38;19;1 |
| cg2388136 | -0.10737 | 0.553237 | -2.27127 | 0.037902 | 0.240217 | -5.12266 | 0.499554 | 0.606919 | 0.107366 | 13 | 47472343 | F | II | HTR2A | TSS1500 | opensea | TSS1500-o | | rs5497097 0;17;41;42 |
| cg1805917 | -0.10735 | 0.31451 | -4.80652 | 0.000216 | 0.224708 | -0.01081 | 0.260837 | 0.368182 | 0.107346 | 10 | 1282755 | F | II | ADARB2 | Body | shore | Body-shore | chr10:128 | rs5657412 0;1;3;4;23;23 |
| cg2676970 | -0.10734 | 0.478578 | -2.92711 | 0.010197 | 0.224708 | -3.87068 | 0.424906 | 0.532249 | 0.107344 | 8 | 1.41E+08 | F | I | TRAPPC9 | Body | opensea | Body-open | | rs1480574 11;12;43 |
| cg1826511 | -0.10732 | 0.499965 | -2.46932 | 0.025702 | 0.228885 | -4.75816 | 0.446307 | 0.553623 | 0.107316 | 7 | 2139243 | F | II | MAD1L1 | Body | opensea | Body-open | | rs7303844 31;43;48 |
| cg0652857 | -0.10725 | 0.273804 | -3.09549 | 0.007213 | 0.224708 | -3.53274 | 0.220178 | 0.327431 | 0.107253 | 1 | 2.07E+08 | R | I | FAIM3 | Body | island | Body-islanc | chr1:2070 | rs5284563 11 |
| cg0441517 | -0.10722 | 0.249416 | -2.44753 | 0.026835 | 0.229795 | -4.79894 | 0.195805 | 0.303028 | 0.107222 | 2 | 1.77E+08 | F | I | HOXD13 | 1stExon | island | 1stExon-isl | chr2:1769 | rs1399954 36 |
| cg1060327 | -0.10707 | 0.36287 | -2.55798 | 0.021543 | 0.225702 | -4.59069 | 0.309336 | 0.416405 | 0.107069 | 3 | 239665 | F | I | CHL1 | 5'UTR | island | 5'UTR-islan | chr3:2383 | rs5710245 33 |
| cg0262287 | -0.10706 | 0.524109 | -2.86522 | 0.011573 | 0.224708 | -3.99359 | 0.470577 | 0.577641 | 0.107064 | 4 | 71836756 | R | II | MOB1B | Body | opensea | Body-open | | rs5669747 2;1 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2602487 | -0.10696 | 0.457587 | -2.69457 | 0.016371 | 0.224896 | -4.32818 | 0.404108 | 0.511067 | 0.10696 | 18 | 54541128 | F | II | WDR7 | Body | opensea | Body-opens | | rs5352012 9;12 |
| cg2324402 | -0.14716 | 0.197513 | -2.71022 | 0.015861 | 0.224896 | -4.29779 | 0.123934 | 0.271091 | 0.147157 | 8 | 1.44E+08 | F | I | | IGR | opensea | IGR-opense | | rs1434202 29;30;46 |
| cg0037821 | -0.10419 | 0.463424 | -2.70666 | 0.015975 | 0.224896 | -4.30471 | 0.411328 | 0.515519 | 0.104191 | 8 | 1237075 | F | II | | IGR | opensea | IGR-opense | | rs1121788 0;7;39;41;43;48 |
| cg2266890 | -0.10355 | 0.586223 | -2.7041 | 0.016058 | 0.224896 | -4.30968 | 0.534446 | 0.638 | 0.103554 | 11 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | rs5641782 16;36;48 |
| cg1897267 | -0.10693 | 0.769404 | -4.2948 | 0.000606 | 0.224708 | -1.05934 | 0.715938 | 0.82287 | 0.106932 | 22 | 40784025 | R | II | SGSM3 | 5'UTR | opensea | 5'UTR-open | | |
| cg2637251 | -0.1067 | 0.339099 | -4.00431 | 0.001099 | 0.224708 | -1.66078 | 0.285748 | 0.39245 | 0.106702 | 1 | 36039159 | F | II | TFAP2E | 5'UTR | island | 5'UTR-islan | chr1:3603 | rs3766540 4;17;32 |
| cg2618008 | -0.10583 | 0.318239 | -2.69688 | 0.016294 | 0.224896 | -4.32371 | 0.265323 | 0.371156 | 0.105833 | 14 | 76734550 | R | II | | IGR | opensea | IGR-opense | | rs1122169 1;1 |
| cg2090447 | -0.10503 | 0.55486 | -2.69652 | 0.016306 | 0.224896 | -4.3244 | 0.502346 | 0.607375 | 0.105028 | 8 | 61823027 | F | II | | IGR | island | IGR-island | chr8:6182 | |
| cg0908199 | -0.1067 | 0.569497 | -3.24578 | 0.005288 | 0.224708 | -3.22749 | 0.516147 | 0.622847 | 0.1067 | 3 | 1.19E+08 | F | II | CDGAP | TSS1500 | shore | TSS1500-sh | chr3:1190 | rs7570768 7;8 |
| cg0654536 | -0.10667 | 0.603816 | -2.1412 | 0.048665 | 0.253405 | -5.35381 | 0.550482 | 0.65715 | 0.106668 | 7 | 1.11E+08 | F | II | LRRN3 | 5'UTR | opensea | 5'UTR-open | | rs5378047 1 |
| cg2350564 | -0.10666 | 0.55362 | -3.53139 | 0.002925 | 0.224708 | -2.64085 | 0.500288 | 0.606951 | 0.106663 | 6 | 31088434 | R | II | CDSN | TSS1500 | opensea | TSS1500-o | | rs1866306 13 |
| cg0840804 | -0.11797 | 0.237362 | -2.68868 | 0.016566 | 0.224896 | -4.3396 | 0.178375 | 0.29635 | 0.117974 | 7 | 11381133 | F | II | | IGR | opensea | IGR-opense | | rs1864482 9;49 |
| cg2491500 | -0.10662 | 0.460601 | -2.66596 | 0.017344 | 0.225046 | -4.3836 | 0.407291 | 0.513911 | 0.10662 | 15 | 43001029 | F | II | STARD9 | Body | opensea | Body-opens | | rs5348960 17;22;46 |
| cg1768167 | -0.10656 | 0.280372 | -3.274 | 0.004988 | 0.224708 | -3.16988 | 0.227091 | 0.333653 | 0.106562 | 11 | 3039964 | R | II | CARS | ExonBnd | opensea | ExonBnd-o | | rs5378275 13;1 |
| cg0224957 | -0.11844 | 0.864308 | -2.68704 | 0.016621 | 0.224896 | -4.34279 | 0.805087 | 0.92353 | 0.118443 | 10 | 52434778 | R | I | | IGR | island | IGR-island | chr10:524 | rs1154002 48;43;22;21;12;2 |
| cg1086159 | -0.10655 | 0.539795 | -5.3228 | 7.85E-05 | 0.220729 | 1.023846 | 0.486521 | 0.593068 | 0.106547 | 1 | 1.12E+08 | F | II | C1orf162 | 5'UTR | opensea | 5'UTR-open | | |
| cg2011121 | -0.10652 | 0.759891 | -2.3288 | 0.033888 | 0.236083 | -5.01825 | 0.706632 | 0.81315 | 0.106518 | 17 | 48585264 | F | II | MYCBPAP | TSS1500 | shore | TSS1500-sh | chr17:485 | rs5464236 8;16;39 |
| cg0159116 | -0.10651 | 0.261985 | -2.88122 | 0.011201 | 0.224708 | -3.96188 | 0.208731 | 0.315239 | 0.106508 | 10 | 1.3E+08 | R | II | MKI67 | Body | opensea | Body-opens | | rs1008239 31;3 |
| cg0005296 | -0.11037 | 0.620828 | -2.67751 | 0.016944 | 0.224901 | -4.36125 | 0.565646 | 0.676011 | 0.110365 | 2 | 85135823 | R | II | | IGR | shelf | IGR-shelf | chr2:8513 | rs5436227 42;6;1 |
| cg0796284 | -0.15565 | 0.50863 | -2.67697 | 0.016963 | 0.224901 | -4.36229 | 0.430802 | 0.586457 | 0.155655 | 7 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0966410 | -0.11302 | 0.465811 | -2.67658 | 0.016976 | 0.224901 | -4.36305 | 0.409302 | 0.522321 | 0.113019 | 12 | 6855032 | R | II | | IGR | shelf | IGR-shelf | chr12:685 | rs1467705 34 |
| cg2191635 | -0.11788 | 0.757645 | -2.6735 | 0.017082 | 0.224901 | -4.36902 | 0.698704 | 0.816587 | 0.117883 | 21 | 15077562 | R | I | | IGR | island | IGR-island | chr21:150 | |
| cg0891711 | -0.12852 | 0.335835 | -2.67038 | 0.01719 | 0.224959 | -4.37506 | 0.271573 | 0.400097 | 0.128524 | 10 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs1881803 33 |
| cg2216517 | -0.1065 | 0.437104 | -2.6796 | 0.016873 | 0.224901 | -4.35721 | 0.383856 | 0.490353 | 0.106496 | 1 | 1.11E+08 | R | II | KCNA2 | TSS1500 | shore | TSS1500-sh | chr1:1111 | rs5466940 27;25;14;2 |
| cg1468953 | -0.10647 | 0.287207 | -2.53896 | 0.022377 | 0.226346 | -4.62682 | 0.233971 | 0.340443 | 0.106472 | 10 | 94450866 | R | II | HHEX | Body | shore | Body-shore | chr10:944 | rs5348329 26 |
| cg0732261 | -0.10632 | 0.311042 | -2.38845 | 0.030151 | 0.232737 | -4.90869 | 0.257882 | 0.364202 | 0.10632 | 3 | 71503426 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs1045195 49;9 |
| cg0832091 | -0.1063 | 0.370651 | -2.87089 | 0.01144 | 0.224708 | -3.98236 | 0.317503 | 0.4238 | 0.106297 | 11 | 48065094 | F | II | PTPRJ | Body | opensea | Body-opens | | rs5355307 3;20;36;40;45 |
| cg1021540 | -0.11618 | 0.379056 | -2.66521 | 0.01737 | 0.225056 | -4.38503 | 0.320965 | 0.437147 | 0.116182 | 8 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5274408 26;2 |
| cg1975710 | -0.10629 | 0.420424 | -2.26272 | 0.038535 | 0.240988 | -5.13806 | 0.367279 | 0.473569 | 0.10629 | 1 | 6605447 | R | II | NOL9 | Body | opensea | Body-opens | | rs1827341 1 |
| cg0001252 | -0.10627 | 0.166296 | -3.23672 | 0.005388 | 0.224708 | -3.24597 | 0.113162 | 0.219431 | 0.106269 | 15 | 98503952 | R | I | ARRDC4 | 1stExon | island | 1stExon-isl | chr15:985 | rs1151375 43;36;34;17;13;2 |
| cg2649179 | -0.10617 | 0.179881 | -3.15789 | 0.006342 | 0.224708 | -3.40637 | 0.126797 | 0.232965 | 0.106168 | 10 | 1.29E+08 | R | I | DOCK1 | TSS200 | island | TSS200-isla | chr10:128 | |
| cg1887629 | -0.10614 | 0.352764 | -2.78111 | 0.013737 | 0.224708 | -4.15935 | 0.299696 | 0.405832 | 0.106136 | 11 | 1.19E+08 | F | II | C2CD2L | Body | opensea | Body-opens | | rs5429321 28;51 |
| cg0778140 | -0.11682 | 0.661429 | -2.64516 | 0.018086 | 0.225076 | -4.42373 | 0.603017 | 0.719842 | 0.116825 | 17 | 19773621 | R | II | | IGR | shore | IGR-shore | chr17:197 | |
| cg1630662 | -0.1041 | 0.124868 | -2.64477 | 0.018101 | 0.225076 | -4.42449 | 0.072821 | 0.176916 | 0.104096 | 8 | 1.19E+08 | R | II | | IGR | opensea | IGR-opense | | rs5635503 2;1 |
| cg1055574 | -0.106 | 0.556169 | -2.29658 | 0.036084 | 0.23834 | -5.07688 | 0.503172 | 0.609167 | 0.105996 | 1 | 25946258 | R | II | MAN1C1 | Body | shore | Body-shore | chr1:2594 | rs1419674 27 |
| cg0908410 | -0.10594 | 0.760617 | -2.84398 | 0.012086 | 0.224708 | -4.03558 | 0.707646 | 0.813589 | 0.105943 | 17 | 20904603 | F | II | USP22 | 3'UTR | opensea | 3'UTR-open | | rs5474760 1;12;16;18 |
| cg0176685 | -0.10276 | 0.105994 | -2.63044 | 0.01863 | 0.225119 | -4.45208 | 0.054612 | 0.157376 | 0.102764 | 6 | 1.71E+08 | F | II | | IGR | island | IGR-island | chr6:1705 | rs7761221 14;18;36;38;50 |
| cg0419216 | -0.10593 | 0.473879 | -2.30729 | 0.03534 | 0.237559 | -5.05744 | 0.420914 | 0.526844 | 0.10593 | 15 | 64806741 | R | II | ZNF609 | Body | opensea | Body-opens | | |
| cg1445861 | -0.10588 | 0.584554 | -3.23243 | 0.005436 | 0.224708 | -3.25473 | 0.531615 | 0.637493 | 0.105879 | 9 | 8858644 | R | II | PTPRD | 5'UTR | island | 5'UTR-islan | chr9:8857 | rs1421512 40;35 |
| cg0173043 | -0.12649 | 0.255086 | -2.62729 | 0.018748 | 0.225209 | -4.45813 | 0.191841 | 0.318331 | 0.126489 | 1 | 18857608 | R | II | | IGR | opensea | IGR-opense | | rs5682718 29;27;12 |
| cg1452540 | -0.10586 | 0.451004 | -3.10196 | 0.007118 | 0.224708 | -3.51967 | 0.398076 | 0.503933 | 0.105856 | 15 | 63570327 | F | II | APH1B | Body | shore | Body-shore | chr15:635 | rs5539718 1;13 |
| cg0714308 | -0.10575 | 0.325905 | -2.82988 | 0.012439 | 0.224708 | -4.06342 | 0.273029 | 0.378781 | 0.105752 | 7 | 70597921 | F | I | WBSCR17 | 1stExon | island | 1stExon-isl | chr7:7059 | rs2021303 5;14;42;49 |
| cg1366773 | -0.10569 | 0.131625 | -6.25147 | 1.39E-05 | 0.161665 | 2.806196 | 0.078777 | 0.184472 | 0.105695 | 14 | 1.06E+08 | F | II | CRIP2 | Body | island | Body-islanc | chr14:105 | |
| cg2162654 | -0.10564 | 0.333487 | -3.07938 | 0.007457 | 0.224708 | -3.56526 | 0.280667 | 0.386308 | 0.105641 | 2 | 10720198 | R | II | NOL10 | Body | opensea | Body-opens | | rs3728602 41 |
| cg2765986 | -0.10555 | 0.383581 | -3.25356 | 0.005203 | 0.224708 | -3.21162 | 0.330806 | 0.436355 | 0.105549 | 17 | 30882177 | R | II | MYO1D | Body | opensea | Body-opens | | rs1924263 24;9;1 |
| cg1419970 | -0.10555 | 0.551042 | -2.93277 | 0.01008 | 0.224708 | -3.85939 | 0.498269 | 0.603815 | 0.105546 | 6 | 90983735 | R | II | BACH2 | 5'UTR | opensea | 5'UTR-open | | rs5638636 48;3;2;1 |
| cg0774694 | -0.1055 | 0.235685 | -2.60666 | 0.019542 | 0.225391 | -4.49773 | 0.182934 | 0.288436 | 0.105502 | 3 | 238615 | F | I | CHL1 | TSS200 | island | TSS200-isla | chr3:2383 | rs5698015 24 |
| cg1443316 | -0.11831 | 0.651863 | -2.60974 | 0.019421 | 0.225391 | -4.49183 | 0.59271 | 0.711016 | 0.118307 | 8 | 28911793 | R | II | | IGR | opensea | IGR-opense | | rs5586872 2 |
| cg0557233 | -0.10626 | 0.671374 | -2.6077 | 0.019501 | 0.225391 | -4.49574 | 0.618243 | 0.724505 | 0.106262 | 7 | 55506671 | R | II | | IGR | opensea | IGR-opense | | rs5383429 29;2 |
| cg1999545 | -0.10546 | 0.573089 | -3.91745 | 0.001315 | 0.224708 | -1.84098 | 0.520359 | 0.625819 | 0.10546 | 3 | 30647672 | F | II | TGFBR2 | TSS1500 | shore | TSS1500-sh | chr3:3064 | rs5388513 3;6;28;45 |
| cg1603423 | -0.16922 | 0.579842 | -2.599 | 0.019844 | 0.225474 | -4.51241 | 0.495234 | 0.664451 | 0.169217 | 6 | 14371975 | F | II | | IGR | opensea | IGR-opense | | rs1507866 1;17;39 |
| cg0226914 | -0.15089 | 0.317481 | -2.59788 | 0.019889 | 0.225549 | -4.51456 | 0.242039 | 0.392924 | 0.150885 | 10 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg2320475 | -0.11875 | 0.402014 | -2.59716 | 0.019918 | 0.225549 | -4.51592 | 0.342637 | 0.461391 | 0.118754 | 21 | 18376383 | F | II | | IGR | opensea | IGR-opense | | |
| cg2047812 | -0.10536 | 0.184439 | -2.86716 | 0.011528 | 0.224708 | -3.98975 | 0.131757 | 0.237121 | 0.105363 | 14 | 27067372 | F | I | NOVA1 | TSS1500 | shore | TSS1500-sh | chr14:270 | |
| cg2438224 | -0.17092 | 0.585071 | -2.59472 | 0.020015 | 0.225563 | -4.5206 | 0.499611 | 0.670531 | 0.17092 | 15 | 66947171 | F | II | | IGR | shore | IGR-shore | chr15:669 | rs7401971 15;46 |
| cg0901743 | -0.10532 | 0.317574 | -2.37844 | 0.03075 | 0.23333 | -4.92716 | 0.264916 | 0.370232 | 0.105316 | 5 | 16179660 | F | I | MARCH11 | 1stExon | island | 1stExon-isl | chr5:1617 | rs5543882 51 |
| cg2646678 | -0.11569 | 0.172264 | -2.58318 | 0.020484 | 0.225654 | -4.54265 | 0.114419 | 0.230109 | 0.11569 | 8 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1015271 | -0.10531 | 0.460564 | -2.23036 | 0.041021 | 0.244026 | -5.19611 | 0.407911 | 0.513216 | 0.105305 | 20 | 44994449 | F | II | SLC35C2 | TSS1500 | shore | TSS1500-sh | chr20:449 | rs3758712 0 |
| cg0708694 | -0.139 | 0.393595 | -2.57885 | 0.020662 | 0.225654 | -4.55092 | 0.324094 | 0.463096 | 0.139001 | 6 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1818221 | -0.10528 | 0.517114 | -3.5064 | 0.00308 | 0.224708 | -2.69243 | 0.464475 | 0.569752 | 0.105277 | 1 | 1.51E+08 | F | II | FAM63A | 5'UTR | shelf | 5'UTR-shelf | chr1:1509 | rs5877230 5;19 |
| cg2257236 | -0.10527 | 0.589111 | -2.98271 | 0.009098 | 0.224708 | -3.75963 | 0.536476 | 0.641746 | 0.105269 | 5 | 501938 | R | I | SLC9A3 | Body | island | Body-islanc | chr5:5018 | rs1127981 47;36;29;17;14 |
| cg1039112 | -0.10513 | 0.251259 | -3.04267 | 0.008043 | 0.224708 | -3.63925 | 0.198694 | 0.303825 | 0.105131 | 21 | 43319594 | R | II | C2CD2 | Body | opensea | Body-opens | | rs1711408 40 |
| cg2313346 | -0.1051 | 0.47945 | -2.40737 | 0.029049 | 0.231636 | -4.87368 | 0.426899 | 0.532002 | 0.105102 | 12 | 32292908 | R | II | BICD1 | Body | opensea | Body-opens | | rs1895771 33;30;15 |
| cg2377498 | -0.10503 | 0.43267 | -2.85125 | 0.011908 | 0.224708 | -4.02123 | 0.380156 | 0.485184 | 0.105029 | 11 | 1.28E+08 | F | I | ETS1 | Body | island | Body-islanc | chr11:128 | rs4396302 25;28 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0615392 | -0.10493 | 0.532953 | -2.74748 | 0.014708 | 0.224708 | -4.22518 | 0.480489 | 0.585417 | 0.104928 | 17 | 78755379 | F | I | RPTOR | Body | opensea | Body-opens | | rs5744280 | 17 |
| cg1344362 | -0.10481 | 0.495807 | -3.64645 | 0.002304 | 0.224708 | -2.40294 | 0.443401 | 0.548213 | 0.104811 | 1 | 59043070 | F | I | TACSTD2 | 5'UTR | island | 5'UTR-islan | chr1:5904 | rs5413819 | 35;40 |
| cg2241792 | -0.10478 | 0.424227 | -2.95238 | 0.009682 | 0.224708 | -3.82028 | 0.37184 | 0.476615 | 0.104775 | 8 | 1.44E+08 | R | II | TOP1MT | TSS1500 | shore | TSS1500-sh | chr8:1444 | rs5575007 | 49;48;39;33;31;1 |
| cg1475222 | -0.10472 | 0.874418 | -2.96526 | 0.00943 | 0.224708 | -3.79454 | 0.822058 | 0.926777 | 0.104719 | 20 | 34000481 | F | II | UQCC | TSS1500 | opensea | TSS1500-o | | rs3742555 | 1;49 |
| cg1489812 | -0.10464 | 0.417527 | -2.56957 | 0.02105 | 0.225654 | -4.56863 | 0.365209 | 0.469846 | 0.104637 | 15 | 81587493 | R | II | IL16 | Body | opensea | Body-opens | | rs5683418 | 23 |
| cg2571968 | -0.10445 | 0.582368 | -2.89203 | 0.010956 | 0.224708 | -3.94044 | 0.530145 | 0.634591 | 0.104446 | 3 | 1E+08 | F | II | ADGRG7 | TSS1500 | opensea | TSS1500-o | | rs5610058 | 23;41;43 |
| cg2027637 | -0.10439 | 0.19167 | -2.45946 | 0.026209 | 0.229328 | -4.77663 | 0.139475 | 0.243866 | 0.104391 | 3 | 99595026 | F | I | C3orf26 | Body | island | Body-islanc | chr3:9959 | | |
| cg2135833 | -0.18233 | 0.665841 | -2.54067 | 0.022301 | 0.226241 | -4.62359 | 0.574678 | 0.757004 | 0.182326 | 17 | 6558440 | F | II | | IGR | island | IGR-island | chr17:655 | rs5357655 | 31 |
| cg0548503 | -0.10434 | 0.309838 | -2.96046 | 0.009523 | 0.224708 | -3.80413 | 0.257667 | 0.362008 | 0.104341 | 6 | 1.12E+08 | R | II | TRAF3IP2 | TSS200 | opensea | TSS200-ope | | rs5685093 | 39;29;20;7;2 |
| cg0834939 | -0.10431 | 0.685979 | -3.44152 | 0.003524 | 0.224708 | -2.82617 | 0.633825 | 0.738132 | 0.104307 | 18 | 11857605 | F | II | GNAL | 1stExon | opensea | 1stExon-op | | rs7340958 | 29 |
| cg1614312 | -0.1042 | 0.570663 | -2.44622 | 0.026905 | 0.229799 | -4.80139 | 0.51856 | 0.622765 | 0.104205 | 13 | 30929119 | F | II | LINC00426 | Body | opensea | Body-opens | | rs1151671 | 0;30 |
| cg1504495 | -0.10418 | 0.305326 | -2.32126 | 0.034391 | 0.236667 | -5.03201 | 0.253237 | 0.357414 | 0.104177 | 11 | 30038672 | F | I | KCNA4 | TSS200 | island | TSS200-isla | chr11:300 | rs5386345 | 43 |
| cg1103383 | -0.10412 | 0.235777 | -2.32607 | 0.03407 | 0.236372 | -5.02324 | 0.183716 | 0.287839 | 0.104123 | 3 | 77087860 | F | I | ROBO2 | TSS1500 | shore | TSS1500-sh | chr3:7708 | rs5517502 | 3;24 |
| cg2410456 | -0.10407 | 0.313769 | -2.72892 | 0.015271 | 0.224793 | -4.26139 | 0.261736 | 0.365803 | 0.104067 | 17 | 40932508 | R | I | WNK4 | TSS200 | island | TSS200-isla | chr17:409 | rs5388144 | 37;3 |
| cg0705206 | -0.10402 | 0.328659 | -2.47447 | 0.025441 | 0.228719 | -4.7485 | 0.27665 | 0.380668 | 0.104018 | 10 | 99255236 | R | II | MMS19 | Body | shelf | Body-shelf | chr10:992 | rs2900126 | 29 |
| cg0203816 | -0.11762 | 0.139854 | -2.52436 | 0.023038 | 0.226614 | -4.65448 | 0.081044 | 0.198665 | 0.117621 | 22 | 39784481 | R | I | | IGR | island | IGR-island | chr22:397 | rs5471784 | 19 |
| cg1054514 | -0.10393 | 0.382435 | -2.48211 | 0.025058 | 0.228362 | -4.73416 | 0.330467 | 0.434402 | 0.103934 | 19 | 42070902 | F | I | CEACAM21 | 5'UTR | opensea | 5'UTR-open | | rs5530406 | 0;47 |
| cg1042085 | -0.15218 | 0.448225 | -2.51741 | 0.02336 | 0.226902 | -4.66763 | 0.372133 | 0.524317 | 0.152184 | 6 | 41207397 | R | II | | IGR | opensea | IGR-opense | | rs5581566 | 37 |
| cg0863389 | -0.10297 | 0.546793 | -2.5171 | 0.023374 | 0.226911 | -4.66821 | 0.495307 | 0.598279 | 0.102973 | 13 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5704046 | 3;2 |
| cg0007619 | -0.10886 | 0.243356 | -2.5157 | 0.023439 | 0.22692 | -4.67087 | 0.188928 | 0.297784 | 0.108857 | 5 | 1.41E+08 | R | I | | IGR | shore | IGR-shore | chr5:1408 | rs251022;r | 36;28;2 |
| cg0536430 | -0.10801 | 0.350856 | -2.51567 | 0.023441 | 0.22692 | -4.67093 | 0.29685 | 0.404862 | 0.108012 | 10 | 1.04E+08 | R | II | | IGR | island | IGR-island | chr10:103 | rs5308336 | 8 |
| cg0031221 | -0.10393 | 0.853538 | -4.44272 | 0.000449 | 0.224708 | -0.75446 | 0.801573 | 0.905504 | 0.103931 | 5 | 96063813 | R | II | CAST | Body | opensea | Body-opens | | rs5559708 | 42;27;5;2 |
| cg0524146 | -0.10388 | 0.154666 | -3.16216 | 0.006286 | 0.224708 | -3.39769 | 0.102725 | 0.206606 | 0.103881 | 19 | 22816980 | R | I | ZNF492 | TSS200 | shore | TSS200-sho | chr19:228 | rs5658552 | 51 |
| cg0021729 | -0.10386 | 0.543071 | -2.99615 | 0.00885 | 0.224708 | -3.73271 | 0.491143 | 0.594999 | 0.103856 | 15 | 50200296 | F | II | ATP8B4 | Body | opensea | Body-opens | | rs1907856 | 25;42;51 |
| cg0333049 | -0.10381 | 0.355401 | -3.05064 | 0.007912 | 0.224708 | -3.62322 | 0.303497 | 0.407304 | 0.103807 | 10 | 94452236 | F | I | HHEX | Body | island | Body-islanc | chr10:944 | rs5338245 | 1;7 |
| cg1506001 | -0.10379 | 0.366271 | -2.26036 | 0.038711 | 0.241192 | -5.14231 | 0.314377 | 0.418166 | 0.103789 | 19 | 58446783 | F | II | ZNF418 | TSS200 | island | TSS200-isla | chr19:584 | rs5753763 | 5;50 |
| cg1389669 | -0.10365 | 0.694432 | -2.55231 | 0.021789 | 0.225834 | -4.60148 | 0.642607 | 0.746257 | 0.10365 | 5 | 13770231 | F | II | DNAH5 | Body | opensea | Body-opens | | rs1905399 | 1;7;10;14;17;19 |
| cg0983797 | -0.10363 | 0.574155 | -2.50568 | 0.023911 | 0.22731 | -4.68978 | 0.522339 | 0.625971 | 0.103632 | 7 | 1.11E+08 | R | II | LRRN3 | 5'UTR | opensea | 5'UTR-open | | rs5538823 | 49 |
| cg0990750 | -0.1036 | 0.436537 | -2.4154 | 0.028593 | 0.231218 | -4.85877 | 0.384739 | 0.488336 | 0.103597 | 13 | 37248244 | F | I | C13orf36 | 5'UTR | island | 5'UTR-islan | chr13:372 | | |
| cg0886471 | -0.10346 | 0.590625 | -2.4833 | 0.024999 | 0.228308 | -4.73192 | 0.538897 | 0.642353 | 0.103455 | 14 | 69436506 | R | II | ACTN1 | Body | opensea | Body-opens | | rs1399096 | 51 |
| cg1695737 | -0.10133 | 0.359824 | -2.49317 | 0.024514 | 0.227821 | -4.71336 | 0.309161 | 0.410488 | 0.101327 | 8 | 42596672 | R | II | | IGR | opensea | IGR-opense | | rs1898945 | 28;3;1 |
| cg0629310 | -0.10343 | 0.272348 | -2.28655 | 0.036794 | 0.239116 | -5.09504 | 0.220633 | 0.324063 | 0.10343 | 13 | 1.1E+08 | F | II | IRS2 | 1stExon | island | 1stExon-isl | chr13:110 | | |
| cg0875045 | -0.17703 | 0.517313 | -2.48883 | 0.024726 | 0.228039 | -4.72153 | 0.428795 | 0.60583 | 0.177034 | 17 | 6558815 | R | II | | IGR | shore | IGR-shore | chr17:655 | rs8078913 | 49 |
| cg1487517 | -0.10328 | 0.403533 | -2.18639 | 0.04464 | 0.248546 | -5.2743 | 0.351891 | 0.455175 | 0.103283 | 2 | 50574196 | R | I | NRXN1 | Body | island | Body-islanc | chr2:5057 | rs1898733 | 15 |
| cg0519107 | -0.10327 | 0.252541 | -2.45828 | 0.026271 | 0.22938 | -4.77885 | 0.200908 | 0.304174 | 0.103266 | 4 | 66536186 | R | I | EPHA5 | TSS1500 | island | TSS1500-isl | chr4:6653 | | |
| cg1053088 | -0.10319 | 0.308492 | -2.35371 | 0.032278 | 0.234548 | -4.97266 | 0.256899 | 0.360085 | 0.103186 | 5 | 3596207 | F | I | IRX1 | 1stExon | island | 1stExon-isl | chr5:3594 | rs5527259 | 28 |
| cg2262022 | -0.10314 | 0.355685 | -2.62362 | 0.018887 | 0.225339 | -4.46518 | 0.304112 | 0.407257 | 0.103145 | 7 | 1.54E+08 | F | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5501179 | 5;6;51 |
| cg0299613 | -0.10312 | 0.410375 | -5.54349 | 5.15E-05 | 0.216493 | 1.457176 | 0.358817 | 0.461933 | 0.103116 | 6 | 1.53E+08 | R | II | SYNE1 | TSS1500 | shore | TSS1500-sh | chr6:1529 | | |
| cg0649596 | -0.1031 | 0.487425 | -2.94546 | 0.009821 | 0.224708 | -3.83408 | 0.435873 | 0.538977 | 0.103104 | 7 | 1.54E+08 | R | II | DPP6 | 1stExon | island | 1stExon-isl | chr7:1535 | rs5662032 | 21 |
| cg1418003 | -0.10303 | 0.295083 | -4.3436 | 0.000549 | 0.224708 | -0.95863 | 0.243569 | 0.346597 | 0.103028 | 9 | 1.23E+08 | R | II | MEGF9 | Body | shore | Body-shore | chr9:1234 | rs5291646 | 46 |
| cg1883214 | -0.10299 | 0.484365 | -2.62849 | 0.018703 | 0.225205 | -4.45582 | 0.432869 | 0.535862 | 0.102994 | 3 | 1.02E+08 | F | II | LOC15222 | TSS200 | opensea | TSS200-ope | | rs1511578 | 0;1;14;23;24 |
| cg1893272 | -0.10296 | 0.229952 | -2.71515 | 0.015703 | 0.224896 | -4.28819 | 0.17847 | 0.281434 | 0.102964 | 10 | 1.29E+08 | R | I | DOCK1 | Body | island | Body-islanc | chr10:128 | rs5353975 | 51 |
| cg2128100 | -0.10295 | 0.367107 | -2.54288 | 0.022203 | 0.226158 | -4.6194 | 0.315632 | 0.418583 | 0.102951 | 18 | 14748298 | R | I | ANKRD30B | 1stExon | shore | 1stExon-sh | chr18:147 | rs1152202 | 45;35;22;1 |
| cg1031315 | -0.12762 | 0.850876 | -2.46202 | 0.026077 | 0.229196 | -4.77185 | 0.787067 | 0.914685 | 0.127618 | 2 | 1.07E+08 | F | II | | IGR | shelf | IGR-shelf | chr2:1068 | rs3721609 | 18;29 |
| cg2626687 | -0.10291 | 0.695671 | -3.27632 | 0.004964 | 0.224708 | -3.16514 | 0.644218 | 0.747124 | 0.102906 | 3 | 23957486 | R | II | RPL15 | TSS1500 | shore | TSS1500-sh | chr3:2395 | rs1885726 | 27;18 |
| cg1159250 | -0.1027 | 0.296847 | -2.54069 | 0.0223 | 0.226241 | -4.62355 | 0.245499 | 0.348195 | 0.102696 | 7 | 1.46E+08 | F | I | CNTNAP2 | TSS200 | island | TSS200-isla | chr7:1458 | rs5608750 | 13;20 |
| cg0100018 | -0.10266 | 0.662757 | -2.98699 | 0.009018 | 0.224708 | -3.75106 | 0.611425 | 0.71409 | 0.102664 | 9 | 1.34E+08 | F | II | QRFP | 1stExon | opensea | 1stExon-op | | rs1426949 | 23;41;44 |
| cg0183267 | -0.10264 | 0.635742 | -2.73878 | 0.014969 | 0.224747 | -4.24216 | 0.58442 | 0.687063 | 0.102643 | 12 | 1.23E+08 | F | II | VPS37B | Body | opensea | Body-opens | | rs5407435 | 49 |
| cg2187740 | -0.10264 | 0.542116 | -2.55444 | 0.021696 | 0.225763 | -4.59742 | 0.490796 | 0.593436 | 0.10264 | 1 | 6605464 | F | II | NOL9 | Body | opensea | Body-opens | | rs5304333 | 14;33;45 |
| cg0372669 | -0.10995 | 0.649742 | -2.44583 | 0.026926 | 0.229816 | -4.80211 | 0.594769 | 0.704714 | 0.109945 | 19 | 58315178 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2271576 | -0.10262 | 0.607322 | -2.52274 | 0.023113 | 0.22668 | -4.65755 | 0.556009 | 0.658634 | 0.102625 | 1 | 10556294 | R | II | PEX14 | Body | opensea | Body-opens | | | |
| cg0124585 | -0.10262 | 0.543344 | -2.51274 | 0.023578 | 0.226934 | -4.67645 | 0.492036 | 0.594652 | 0.102616 | 6 | 90894791 | F | II | BACH2 | 5'UTR | opensea | 5'UTR-open | | rs5469890 | 1;9;40;49 |
| cg2675442 | -0.10262 | 0.182843 | -3.35115 | 0.004251 | 0.224708 | -3.0119 | 0.131535 | 0.23415 | 0.102615 | 3 | 1.13E+08 | R | II | CD200R1 | TSS200 | opensea | TSS200-ope | | | |
| cg2280758 | -0.11785 | 0.213932 | -2.42798 | 0.027892 | 0.230634 | -4.83538 | 0.155009 | 0.272855 | 0.117846 | 5 | 53564 | R | I | | IGR | island | IGR-island | chr5:5311 | rs5510302 | 48;30 |
| cg0394446 | -0.10979 | 0.39281 | -2.42653 | 0.027972 | 0.230684 | -4.83809 | 0.337916 | 0.447704 | 0.109788 | 4 | 3765186 | R | II | | IGR | shore | IGR-shore | chr4:3767 | rs5530060 | 37;30 |
| cg0462411 | -0.10257 | 0.425166 | -2.64122 | 0.01823 | 0.225076 | -4.43132 | 0.373882 | 0.47645 | 0.102568 | 20 | 13976093 | R | I | MACROD2 | TSS200 | island | TSS200-isla | chr20:139 | rs3701202 | 16 |
| cg0066794 | -0.11143 | 0.857421 | -2.415 | 0.028616 | 0.231224 | -4.85952 | 0.801707 | 0.913134 | 0.111427 | 13 | 1.01E+08 | F | II | | IGR | shore | IGR-shore | chr13:100 | rs1489892 | 0 |
| cg2707311 | -0.10254 | 0.663975 | -3.18534 | 0.005992 | 0.224708 | -3.3506 | 0.612703 | 0.715246 | 0.102544 | 16 | 56228744 | R | II | DKFZP434I | TSS1500 | shelf | TSS1500-sh | chr16:562 | | |
| cg1891920 | -0.10253 | 0.542161 | -2.49265 | 0.024539 | 0.227869 | -4.71434 | 0.490897 | 0.593424 | 0.102527 | 11 | 96012039 | F | II | MAML2 | Body | opensea | Body-opens | | | |
| cg0020827 | -0.10253 | 0.648783 | -2.96442 | 0.009446 | 0.224708 | -3.79621 | 0.59752 | 0.700047 | 0.102527 | 7 | 4779342 | R | II | FOXK1 | Body | opensea | Body-opens | | rs1840296 | 40;13;2;1 |
| cg2245623 | -0.11063 | 0.288541 | -2.39116 | 0.029991 | 0.232589 | -4.90368 | 0.233225 | 0.343856 | 0.11063 | 13 | 48718766 | R | II | | IGR | opensea | IGR-opense | | rs5308410 | 28;22;20;1 |
| cg1780641 | -0.10245 | 0.463441 | -2.20309 | 0.043232 | 0.246746 | -5.24469 | 0.412217 | 0.514666 | 0.102449 | 3 | 18459963 | F | II | SATB1 | Body | opensea | Body-opens | | rs1461314 | 38 |
| cg1853962 | -0.10239 | 0.573294 | -3.57385 | 0.002678 | 0.224708 | -2.55312 | 0.522099 | 0.624488 | 0.102389 | 17 | 10051407 | F | II | GAS7 | Body | opensea | Body-opens | | rs7530779 | 0;45 |
| cg0537402 | -0.10234 | 0.693248 | -2.78462 | 0.013639 | 0.224708 | -4.15246 | 0.642076 | 0.74442 | 0.102345 | 19 | 55549746 | F | II | GP6 | TSS200 | opensea | TSS200-ope | | rs1654431 | 12;14 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0339399 | -0.19415 | 0.234961 | -2.38738 | 0.030214 | 0.232799 | -4.91066 | 0.137887 | 0.332034 | 0.194147 | 4 | 1580377 | F | I | | IGR | island | IGR-island | chr4:1580( | rs5342840 | 31;32 |
| cg1674560 | -0.10224 | 0.632671 | -3.3384 | 0.004365 | 0.224708 | -3.03805 | 0.581551 | 0.683792 | 0.102241 | 2 | 2.02E+08 | F | II | CASP10 | TSS200 | opensea | TSS200-ope | | rs7142428 | 9;51 |
| cg2040485 | -0.10222 | 0.703342 | -4.9111 | 0.000176 | 0.224708 | 0.200931 | 0.652231 | 0.754452 | 0.102221 | 9 | 99374660 | F | II | CDC14B | Body | opensea | Body-open: | | rs5682216 | 0;37 |
| cg1401905 | -0.10217 | 0.756692 | -2.88828 | 0.011041 | 0.224708 | -3.94788 | 0.705607 | 0.807776 | 0.102168 | 9 | 1.08E+08 | F | II | ABCA1 | TSS1500 | island | TSS1500-isl | chr9:1076( | rs5289522 | 14;39 |
| cg0660208 | -0.10215 | 0.329907 | -2.35296 | 0.032325 | 0.234567 | -4.97403 | 0.27883 | 0.380984 | 0.102155 | 16 | 1583883 | R | I | IFT140 | Body | island | Body-islanc | chr16:158: | rs5379185 | 51;10;8 |
| cg0876793 | -0.10213 | 0.56377 | -2.37354 | 0.031047 | 0.233536 | -4.93619 | 0.512703 | 0.614837 | 0.102134 | 7 | 25989524 | F | II | | IGR | shore | IGR-shore | chr7:2599( | | |
| cg2602301 | -0.10207 | 0.266986 | -2.28802 | 0.03669 | 0.239006 | -5.09239 | 0.215952 | 0.31802 | 0.102069 | 21 | 31311859 | F | I | GRIK1 | 1stExon | island | 1stExon-isl | chr21:313: | rs1865063 | 0 |
| cg1629876 | -0.10207 | 0.608353 | -2.53713 | 0.022459 | 0.226384 | -4.6303 | 0.55732 | 0.659386 | 0.102065 | 22 | 44445889 | R | II | PARVB | Body | opensea | Body-open: | | | |
| cg1167053 | -0.10202 | 0.533736 | -2.36597 | 0.031511 | 0.234003 | -4.95013 | 0.482727 | 0.584745 | 0.102018 | 3 | 71421949 | F | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs1893613 | 0;12 |
| cg1081928 | -0.10199 | 0.68926 | -2.68739 | 0.01661 | 0.224896 | -4.34211 | 0.638267 | 0.740253 | 0.101986 | 22 | 39810539 | F | II | TAB1 | Body | opensea | Body-open: | | rs5721770 | 7;11;21;31 |
| cg2272972 | -0.10197 | 0.400875 | -6.33631 | 1.19E-05 | 0.161665 | 2.963444 | 0.349892 | 0.451858 | 0.101966 | 1 | 3123854 | F | II | PRDM16 | Body | opensea | Body-open: | | rs1932886 | 1;9;46 |
| cg1114669 | -0.10195 | 0.560307 | -3.47381 | 0.003296 | 0.224708 | -2.75964 | 0.50933 | 0.611284 | 0.101955 | 12 | 47219737 | F | I | SLC38A4 | 1stExon | opensea | 1stExon-op | | rs5591118 | 1;2 |
| cg0126107 | -0.10195 | 0.259237 | -2.48202 | 0.025062 | 0.228362 | -4.73432 | 0.208261 | 0.310213 | 0.101952 | 4 | 1.88E+08 | F | II | FAT1 | TSS200 | island | TSS200-isla | chr4:1876- | rs2276929 | 9;46 |
| cg1351882 | -0.1019 | 0.55873 | -2.78853 | 0.013531 | 0.224708 | -4.14479 | 0.507778 | 0.609681 | 0.101903 | 1 | 8523537 | F | II | RERE | Body | opensea | Body-open: | | rs7404964 | 14 |
| cg1574115 | -0.11115 | 0.472525 | -2.364 | 0.031633 | 0.234051 | -4.95375 | 0.416948 | 0.528103 | 0.111154 | 1 | 1.11E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:1106: | rs5574573 | 14;21;24;35 |
| cg2439297 | -0.10188 | 0.5554 | -4.20582 | 0.000727 | 0.224708 | -1.24328 | 0.504459 | 0.606341 | 0.101882 | 4 | 74089169 | F | II | ANKRD17 | TSS1500 | opensea | TSS1500-o | | rs5762947 | 3;37 |
| cg1038755 | -0.10179 | 0.224987 | -2.36117 | 0.031809 | 0.234211 | -4.95895 | 0.174095 | 0.27588 | 0.101786 | 11 | 30038615 | R | I | KCNA4 | TSS200 | island | TSS200-isla | chr11:300: | | |
| cg1568569 | -0.10178 | 0.285026 | -2.92014 | 0.010344 | 0.224708 | -3.88456 | 0.234137 | 0.335916 | 0.101779 | 7 | 70597351 | F | I | WBSCR17 | TSS200 | island | TSS200-isla | chr7:7059( | rs1023496 | 14;16 |
| cg0072897 | -0.10176 | 0.472875 | -2.7852 | 0.013623 | 0.224708 | -4.15133 | 0.421993 | 0.523757 | 0.101763 | 17 | 37036448 | F | II | LASP1 | Body | opensea | Body-open: | | rs226213 | 40 |
| cg0316052 | -0.10171 | 0.438376 | -3.26537 | 0.005078 | 0.224708 | -3.18751 | 0.38752 | 0.489231 | 0.101711 | 17 | 80928410 | R | I | B3GNTL1 | Body | shore | Body-shore | chr17:809: | rs7337286 | 16;12;3;1 |
| cg0073566 | -0.10391 | 0.300918 | -2.3509 | 0.032456 | 0.234639 | -4.97781 | 0.248962 | 0.352873 | 0.103911 | 3 | 74663796 | F | I | | IGR | island | IGR-island | chr3:7466: | rs5459523 | 7;8;49 |
| cg2197153 | -0.10169 | 0.429659 | -3.76049 | 0.001819 | 0.224708 | -2.16662 | 0.378815 | 0.480504 | 0.10169 | 14 | 39734390 | F | II | CTAGE5 | TSS1500 | shore | TSS1500-sh | chr14:397: | rs5587431 | 1 |
| cg1308842 | -0.10165 | 0.54956 | -2.50262 | 0.024057 | 0.227443 | -4.69555 | 0.498732 | 0.600387 | 0.101654 | 11 | 940618 | R | II | AP2A2 | Body | shelf | Body-shelf | chr11:943: | rs5643884 | 45;12;8;1 |
| cg2385017 | -0.10526 | 0.446222 | -2.33971 | 0.033174 | 0.23536 | -4.9983 | 0.393594 | 0.49885 | 0.105256 | 10 | 22542726 | F | II | | IGR | island | IGR-island | chr10:225- | rs1896988 | 34 |
| cg0864199 | -0.10162 | 0.390003 | -2.63032 | 0.018635 | 0.225119 | -4.45232 | 0.339194 | 0.440812 | 0.101618 | 1 | 54822503 | F | II | SSBP3 | Body | shore | Body-shore | chr1:5482: | | |
| cg2659997 | -0.1016 | 0.610409 | -2.43647 | 0.027429 | 0.230075 | -4.81958 | 0.55961 | 0.661208 | 0.101598 | 9 | 1.28E+08 | F | II | SCAI | Body | opensea | Body-open: | | rs5598086 | 0;5;7;44 |
| cg2591894 | -0.1016 | 0.839985 | -4.00908 | 0.001088 | 0.224708 | -1.65088 | 0.789187 | 0.890784 | 0.101597 | 17 | 41365094 | F | II | TMEM106A | Body | shore | Body-shore | chr17:413( | rs1505008 | 1;37 |
| cg2268756 | -0.12074 | 0.778614 | -2.33163 | 0.033701 | 0.235831 | -5.01307 | 0.718246 | 0.838982 | 0.120736 | 19 | 36439299 | F | II | | IGR | shelf | IGR-shelf | chr19:364: | rs1401404 | 0;19;30 |
| cg1907857 | -0.10159 | 0.289638 | -2.35231 | 0.032366 | 0.234603 | -4.97523 | 0.238844 | 0.340432 | 0.101588 | 5 | 17217877 | F | I | BASP1 | 5'UTR | island | 5'UTR-islan | chr5:1721: | rs1476216 | 22 |
| cg0974744 | -0.10158 | 0.462437 | -2.76237 | 0.01427 | 0.224708 | -4.19605 | 0.411646 | 0.513228 | 0.101582 | 15 | 70387268 | R | II | TLE3 | Body | shore | Body-shore | chr15:703( | rs5290753 | 46;45;42;37;36;23;11;10;8 |
| cg0733011 | -0.10158 | 0.52786 | -2.34379 | 0.03291 | 0.235122 | -4.99083 | 0.477071 | 0.578649 | 0.101578 | 3 | 11624023 | F | II | VGLL4 | Body | opensea | Body-open: | | rs1928821 | 38;41 |
| cg0982776 | -0.23264 | 0.335559 | -2.32238 | 0.034316 | 0.236584 | -5.02996 | 0.219237 | 0.451882 | 0.232645 | 15 | 66947392 | F | I | | IGR | island | IGR-island | chr15:669- | | |
| cg2577101 | -0.10157 | 0.351373 | -2.74698 | 0.014723 | 0.224708 | -4.22616 | 0.300586 | 0.40216 | 0.101574 | 7 | 25989735 | F | II | MIR148A | TSS200 | shore | TSS200-sho | chr7:2599( | | |
| cg1627354 | -0.10795 | 0.678641 | -2.31932 | 0.034521 | 0.236777 | -5.03554 | 0.624667 | 0.732614 | 0.107947 | 10 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs5365527 | 1 |
| cg2543194 | -0.10157 | 0.67454 | -2.37796 | 0.030779 | 0.23334 | -4.92806 | 0.623755 | 0.725324 | 0.101569 | 4 | 40313893 | R | II | LOC10106( | Body | opensea | Body-open: | | rs5279890 | 11 |
| cg0577132 | -0.10155 | 0.412036 | -4.20677 | 0.000725 | 0.224708 | -1.24131 | 0.361262 | 0.462811 | 0.101549 | 3 | 1.71E+08 | R | II | PLD1 | Body | opensea | Body-open: | | | |
| cg1372576 | -0.10148 | 0.587899 | -2.53225 | 0.022679 | 0.226517 | -4.63955 | 0.537158 | 0.63864 | 0.101482 | 1 | 1.83E+08 | R | II | NPL | 5'UTR | opensea | 5'UTR-open | | rs7306535 | 38;16 |
| cg0311797 | -0.10148 | 0.174543 | -2.53569 | 0.022524 | 0.226391 | -4.63302 | 0.123805 | 0.225282 | 0.101477 | 18 | 11149435 | F | I | FAM38B | TSS1500 | island | TSS1500-isl | chr18:111- | rs5724852 | 51 |
| cg0758600 | -0.10146 | 0.480827 | -5.61381 | 4.51E-05 | 0.208563 | 1.594024 | 0.430096 | 0.531559 | 0.101463 | 19 | 49636535 | F | I | PPFIA3 | Body | island | Body-islanc | chr19:496: | rs5524649 | 29 |
| cg0460299 | -0.10146 | 0.330453 | -2.36433 | 0.031613 | 0.234049 | -4.95315 | 0.279725 | 0.381182 | 0.101457 | 17 | 62009628 | R | II | CD79B | 1stExon | opensea | 1stExon-op | | rs1999304 | 23;2;1 |
| cg1872340 | -0.10145 | 0.534501 | -2.40235 | 0.029338 | 0.231819 | -4.88298 | 0.483774 | 0.585228 | 0.101454 | 11 | 1911547 | R | I | LSP1 | 3'UTR | opensea | 3'UTR-open | | rs5656858 | 33 |
| cg2055832 | -0.10393 | 0.455145 | -2.30584 | 0.03544 | 0.237641 | -5.06007 | 0.403182 | 0.507108 | 0.103926 | 2 | 2.35E+08 | R | I | | IGR | opensea | IGR-opense | | rs5308705 | 37;34;32;22;1 |
| cg1809698 | -0.1014 | 0.602709 | -2.773 | 0.013965 | 0.224708 | -4.17525 | 0.552008 | 0.65341 | 0.101402 | 3 | 11623873 | R | II | VGLL4 | Body | opensea | Body-open: | | rs5475545 | 29;6;2 |
| cg2268199 | -0.10139 | 0.559575 | -5.47992 | 5.81E-05 | 0.219272 | 1.332945 | 0.508879 | 0.610271 | 0.101393 | 2 | 65131547 | R | II | LOC40095( | Body | opensea | Body-open: | | rs1302790 | 38;36;35;26;5 |
| cg2570276 | -0.10401 | 0.816721 | -2.29907 | 0.03591 | 0.238096 | -5.07235 | 0.764717 | 0.868725 | 0.104008 | 12 | 69605100 | F | II | | IGR | opensea | IGR-opense | | rs3586899 | 0;12 |
| cg1732871 | -0.10137 | 0.541327 | -2.76715 | 0.014132 | 0.224708 | -4.1867 | 0.490641 | 0.592012 | 0.101372 | 7 | 56516243 | R | II | LOC65022( | TSS200 | shore | TSS200-sho | chr7:5651! | rs5433559 | 25;22;3 |
| cg1423760 | -0.10132 | 0.557143 | -2.74874 | 0.01467 | 0.224708 | -4.22271 | 0.506481 | 0.607805 | 0.101324 | 3 | 1.79E+08 | F | II | MFN1 | TSS1500 | shore | TSS1500-sh | chr3:1790( | rs1386525 | 8;27 |
| cg0375333 | -0.10123 | 0.207287 | -2.728 | 0.0153 | 0.224807 | -4.26318 | 0.156672 | 0.257903 | 0.101231 | 2 | 1.16E+08 | R | I | DPP10 | TSS1500 | island | TSS1500-isl | chr2:1159: | | |
| cg2243531 | -0.10122 | 0.286405 | -2.31494 | 0.034817 | 0.237078 | -5.04352 | 0.235793 | 0.337017 | 0.101224 | 17 | 64669739 | F | II | PRKCA | Body | opensea | Body-open: | | rs1502969 | 2 |
| cg2426816 | -0.10122 | 0.660891 | -2.42893 | 0.02784 | 0.230593 | -4.83363 | 0.610281 | 0.7115 | 0.101219 | 22 | 39747459 | F | II | SYNGR1 | Body | shore | Body-shore | chr22:397- | rs1896786 | 0;23 |
| cg1217116 | -0.10122 | 0.592658 | -2.87985 | 0.011232 | 0.224708 | -3.96459 | 0.542049 | 0.643268 | 0.101218 | 9 | 1.27E+08 | F | II | DENND1A | Body | opensea | Body-open: | | rs5665526 | 21 |
| cg2641550 | -0.10119 | 0.520823 | -3.4825 | 0.003237 | 0.224708 | -2.74174 | 0.470226 | 0.57142 | 0.101194 | 21 | 46344680 | F | II | ITGB2-AS1 | Body | opensea | Body-open: | | rs5394812 | 0;8;48 |
| cg0049065 | -0.10117 | 0.273364 | -2.53171 | 0.022703 | 0.226534 | -4.64057 | 0.22278 | 0.323949 | 0.101169 | 2 | 1.65E+08 | R | I | FIGN | TSS1500 | shore | TSS1500-sh | chr2:1645! | rs5630044 | 7;6 |
| cg2609983 | -0.17858 | 0.387698 | -2.25925 | 0.038795 | 0.241232 | -5.14431 | 0.29841 | 0.476986 | 0.178576 | 15 | 66947568 | R | I | | IGR | island | IGR-island | chr15:669- | rs5357947 | 27 |
| cg1617034 | -0.10113 | 0.667234 | -4.04915 | 0.001002 | 0.224708 | -1.56781 | 0.616671 | 0.717798 | 0.101127 | 19 | 2424006 | R | II | TMPRSS9 | Body | island | Body-islanc | chr19:242- | rs5522450 | 23;2 |
| cg0599741 | -0.10111 | 0.349145 | -3.70697 | 0.002032 | 0.224708 | -2.27757 | 0.298591 | 0.399698 | 0.101107 | 2 | 2.4E+08 | F | II | HDAC4 | Body | shore | Body-shore | chr2:2401! | rs1908550 | 23;46 |
| cg0016935 | -0.11488 | 0.518317 | -2.25235 | 0.039316 | 0.241781 | -5.15671 | 0.460879 | 0.575754 | 0.114876 | 20 | 54922827 | R | II | | IGR | shelf | IGR-shelf | chr20:549: | rs5278543 | 21 |
| cg0288186 | -0.10107 | 0.481541 | -2.61439 | 0.019241 | 0.225391 | -4.48291 | 0.431007 | 0.532076 | 0.101069 | 17 | 999650 | R | I | ABR | Body | opensea | Body-open: | | rs2257532 | 25;24;2 |
| cg0851026 | -0.10106 | 0.190733 | -2.36776 | 0.031401 | 0.233871 | -4.94684 | 0.1402 | 0.241265 | 0.101064 | 13 | 1.1E+08 | F | I | IRS2 | 1stExon | island | 1stExon-isl | chr13:110- | rs5328102 | 29 |
| cg0453658 | -0.10876 | 0.539018 | -2.24541 | 0.039847 | 0.242456 | -5.16917 | 0.484636 | 0.5934 | 0.108764 | 10 | 6919371 | R | II | | IGR | opensea | IGR-opense | | rs5777894 | 42;29 |
| cg1026119 | -0.10106 | 0.375545 | -3.22973 | 0.005466 | 0.224708 | -3.26024 | 0.325016 | 0.426074 | 0.101058 | 11 | 1.25E+08 | F | II | FEZ1 | 5'UTR | shore | 5'UTR-shor | chr11:125: | rs1478858 | 2;13;37 |
| cg1304622 | -0.10044 | 0.335268 | -2.24288 | 0.040042 | 0.242678 | -5.1737 | 0.285047 | 0.385489 | 0.100443 | 12 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs5440711 | 7;27 |
| cg1665524 | -0.10102 | 0.232746 | -3.50448 | 0.003093 | 0.224708 | -2.69639 | 0.182236 | 0.283256 | 0.101019 | 20 | 32857072 | R | I | ASIP | 3'UTR | island | 3'UTR-islan | chr20:328! | rs5653446 | 32;14 |
| cg2284135 | -0.10095 | 0.256631 | -3.12682 | 0.006762 | 0.224708 | -3.46936 | 0.206154 | 0.307108 | 0.100954 | 1 | 1.84E+08 | F | II | RGL1 | Body | opensea | Body-open: | | rs1833821 | 48;51 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1680442 | -0.10091 | 0.659924 | -2.69387 | 0.016394 | 0.224896 | -4.32954 | 0.60947 | 0.710378 | 0.100908 | 3 | 71367137 | F | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | rs5576592 | 0 |
| cg0939670 | -0.10088 | 0.227507 | -2.76339 | 0.01424 | 0.224708 | -4.19406 | 0.177066 | 0.277947 | 0.100881 | 1 | 2.03E+08 | F | II | PPFIA4 | Body | island | Body-islanc | chr1:20304 | rs5347469 | 4;7 |
| cg1124737 | -0.21177 | 0.249097 | -2.22943 | 0.041095 | 0.244107 | -5.19778 | 0.143214 | 0.354981 | 0.211767 | 22 | 39784982 | F | II | | IGR | island | IGR-island | chr22:3978 | rs5640351 | 3;44 |
| cg1542788 | -0.11188 | 0.295459 | -2.22924 | 0.04111 | 0.244112 | -5.19811 | 0.23952 | 0.351398 | 0.111878 | 8 | 55379663 | F | I | | IGR | island | IGR-island | chr8:5537 | rs5671180 | 35 |
| cg2479517 | -0.1008 | 0.788358 | -4.75117 | 0.000241 | 0.224708 | -0.12328 | 0.73796 | 0.838756 | 0.100796 | 10 | 1.09E+08 | R | II | SORCS1 | Body | opensea | Body-open | rs5591673 | 51;31;1 |
| cg1670366 | -0.11962 | 0.585994 | -2.2252 | 0.041432 | 0.244509 | -5.20533 | 0.526184 | 0.645804 | 0.119619 | 6 | 41207506 | F | II | | IGR | opensea | IGR-opense | | |
| cg0495730 | -0.10775 | 0.545873 | -2.20941 | 0.04271 | 0.246052 | -5.23346 | 0.491998 | 0.599748 | 0.107749 | 12 | 92180808 | F | II | | IGR | opensea | IGR-opense | rs1484999 | 1;7 |
| cg0389283 | -0.10076 | 0.682347 | -5.9793 | 2.28E-05 | 0.186757 | 2.295287 | 0.63197 | 0.732725 | 0.100755 | 2 | 2.39E+08 | R | I | LRRFIP1 | TSS1500 | shore | TSS1500-sh | chr2:2385 | rs5615905 | 44;14 |
| cg0609853 | -0.10074 | 0.404552 | -2.20472 | 0.043096 | 0.246579 | -5.2418 | 0.354182 | 0.454922 | 0.10074 | 10 | 76727919 | F | II | MYST4 | Body | opensea | Body-open | rs5444744 | 0;1;11;22 |
| cg2371234 | -0.10071 | 0.291816 | -2.24139 | 0.040157 | 0.242872 | -5.17637 | 0.241461 | 0.342172 | 0.10071 | 10 | 60936794 | F | I | PHYHIPL | Body | island | Body-islanc | chr10:609 | rs3763659 | 16;37 |
| cg0659883 | -0.10175 | 0.211943 | -2.19994 | 0.043494 | 0.24707 | -5.25029 | 0.161069 | 0.262817 | 0.101749 | 3 | 2140699 | R | I | | IGR | island | IGR-island | chr3:2140 | rs5705063 | 33 |
| cg2439971 | -0.15053 | 0.172752 | -2.19617 | 0.043811 | 0.247395 | -5.25699 | 0.097485 | 0.248019 | 0.150534 | 22 | 39784796 | R | II | | IGR | island | IGR-island | chr22:397 | | |
| cg1765030 | -0.10063 | 0.593616 | -2.54663 | 0.022037 | 0.225993 | -4.61226 | 0.543301 | 0.64393 | 0.100629 | 3 | 13001450 | F | II | IQSEC1 | Body | opensea | Body-open | rs5736424 | 45 |
| cg1535231 | -0.10063 | 0.50906 | -3.6037 | 0.002517 | 0.224708 | -2.49141 | 0.458746 | 0.559375 | 0.100629 | 2 | 1.61E+08 | R | II | CD302 | TSS1500 | shore | TSS1500-sh | chr2:1606 | rs1883371 | 18 |
| cg1461310 | -0.12645 | 0.711273 | -2.18682 | 0.044603 | 0.248479 | -5.27353 | 0.648049 | 0.774497 | 0.126448 | 9 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | rs7274032 | 0;1;8;18;38;42 | |
| cg2522328 | -0.10574 | 0.411348 | -2.18644 | 0.044636 | 0.248546 | -5.27422 | 0.358477 | 0.464219 | 0.105742 | 2 | 1.28E+08 | R | II | | IGR | island | IGR-island | chr2:1284 | | |
| cg0243412 | -0.1006 | 0.476259 | -3.23745 | 0.00538 | 0.224708 | -3.24449 | 0.425958 | 0.526561 | 0.100604 | 7 | 4901798 | R | I | PAPOLB | TSS200 | shore | TSS200-sho | chr7:4901 | rs2007521 | 47;42 |
| cg0690647 | -0.1005 | 0.211203 | -2.39012 | 0.030052 | 0.232664 | -4.9056 | 0.160953 | 0.261452 | 0.100499 | 2 | 1.08E+08 | R | I | ST6GAL2 | TSS200 | island | TSS200-isla | chr2:1075 | rs5603966 | 42 |
| cg1071786 | -0.10048 | 0.554847 | -2.83123 | 0.012405 | 0.224708 | -4.06077 | 0.504606 | 0.605089 | 0.100484 | 1 | 2.06E+08 | R | II | SLC41A1 | 5'UTR | shore | 5'UTR-shor | chr1:2057 | | |
| cg2548115 | -0.14404 | 0.495176 | -2.17787 | 0.045374 | 0.249398 | -5.28935 | 0.423156 | 0.567197 | 0.144041 | 15 | 66947564 | R | II | | IGR | island | IGR-island | chr15:669 | rs5357947 | 23 |
| cg0430350 | -0.10048 | 0.598434 | -3.69949 | 0.002064 | 0.224708 | -2.29307 | 0.548193 | 0.648675 | 0.100482 | 19 | 35453690 | F | II | ZNF792 | Body | shore | Body-shore | chr19:354 | rs5774584 | 3;50 |
| cg0754052 | -0.10038 | 0.203225 | -2.73033 | 0.015228 | 0.224792 | -4.25864 | 0.153034 | 0.253417 | 0.100383 | 1 | 14925170 | R | I | KAZN | TSS200 | island | TSS200-isla | chr1:1492 | | |
| cg0719976 | -0.15405 | 0.684356 | -2.16654 | 0.046368 | 0.250588 | -5.30933 | 0.607333 | 0.76138 | 0.154046 | 1 | 5347468 | R | II | | IGR | opensea | IGR-opense | rs565916;r | 44;31;29;13;1 | |
| cg0680633 | -0.10028 | 0.700361 | -3.676 | 0.002167 | 0.224708 | -2.34174 | 0.65022 | 0.750502 | 0.100282 | 9 | 20508649 | R | II | MLLT3 | Body | opensea | Body-open | rs1477608 | 29 |
| cg0906065 | -0.10023 | 0.620245 | -4.81242 | 0.000213 | 0.224708 | 0.001166 | 0.570129 | 0.670361 | 0.100232 | 10 | 90985062 | R | II | LIPA | Body | opensea | Body-open | rs5334254 | 2 |
| cg2410619 | -0.10016 | 0.565867 | -2.91659 | 0.010419 | 0.224708 | -3.89161 | 0.515787 | 0.615946 | 0.100158 | 19 | 38422618 | F | II | SIPA1L3 | 5'UTR | opensea | 5'UTR-open | rs5294120 | 8;21;43 |
| cg0305261 | -0.10016 | 0.529104 | -2.31669 | 0.034698 | 0.236945 | -5.04033 | 0.479025 | 0.579183 | 0.100158 | 17 | 17410416 | F | II | PEMT | Body | opensea | Body-open | rs5394903 | 2;30;32;36 |
| cg2660963 | -0.10012 | 0.235186 | -2.3043 | 0.035547 | 0.237702 | -5.06287 | 0.185126 | 0.285246 | 0.10012 | 13 | 28366814 | R | I | GSX1 | 5'UTR | island | 5'UTR-islan | chr13:283 | | |

SUPPLEMENTAL TABLE 2 - FEMALE HYPO

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | Normal_f_A | LBP_f_AVG | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1259227 | 0.153449 | 0.68634 | 7.54499 | 1.51E-06 | 0.133374 | 5.097468 | 0.763065 | 0.609615 | -0.15345 | 12 | 3427813 | R | II | | IGR | opensea | IGR-opense | | rs7299862 | 35;2 |
| cg2665477 | 0.274619 | 0.385845 | 3.036448 | 0.008146 | 0.224708 | -3.65178 | 0.523154 | 0.248535 | -0.27462 | 12 | 740100 | F | II | NINJ2 | Body | opensea | Body-opens | | rs5398488 | 15 |
| cg1784632 | 0.101997 | 0.429045 | 6.061821 | 1.96E-05 | 0.180489 | 2.451235 | 0.480044 | 0.378047 | -0.102 | 2 | 79168411 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2575542 | 0.261975 | 0.445129 | 2.610006 | 0.019411 | 0.225391 | -4.49132 | 0.576116 | 0.314141 | -0.26197 | 19 | 13875111 | R | I | MRI1 | TSS1500 | island | TSS1500-isl | chr19:138 | rs5404156 | 49;18 |
| cg2007591 | 0.125867 | 0.614368 | 5.749773 | 3.49E-05 | 0.202189 | 1.856885 | 0.677301 | 0.551434 | -0.12587 | 5 | 6837863 | F | II | | IGR | opensea | IGR-opense | | rs1121560 | 0;10;51 |
| cg0879814 | 0.259916 | 0.616842 | 2.368031 | 0.031384 | 0.233855 | -4.94634 | 0.746801 | 0.486884 | -0.25992 | 4 | 36305221 | R | II | DTHD1 | Body | opensea | Body-opens | | rs3507478 | 1;1 |
| cg1290159 | 0.119401 | 0.37881 | 5.585301 | 4.76E-05 | 0.20957 | 1.538619 | 0.438511 | 0.31911 | -0.1194 | 11 | 44527562 | R | II | | IGR | opensea | IGR-opense | | rs5543129 | 2 |
| cg1647469 | 0.254341 | 0.40547 | 2.763572 | 0.014235 | 0.224708 | -4.19371 | 0.532641 | 0.278299 | -0.25434 | 19 | 13875014 | R | II | MRI1 | TSS1500 | shore | TSS1500-sh | chr19:138 | rs1464733 | 34;12 |
| cg0779992 | 0.163406 | 0.624492 | 5.472197 | 5.9E-05 | 0.219272 | 1.317823 | 0.706196 | 0.542789 | -0.16341 | 14 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs1013380 | 12;5 |
| cg2687422 | 0.143923 | 0.58207 | 5.47165 | 5.9E-05 | 0.219272 | 1.316751 | 0.654031 | 0.510108 | -0.14392 | 2 | 1.06E+08 | F | I | | IGR | island | IGR-island | chr2:1058 | rs5722912 | 1;14;25 |
| cg2360399 | 0.25291 | 0.616304 | 2.43989 | 0.027244 | 0.229955 | -4.8132 | 0.742759 | 0.489849 | -0.25291 | 6 | 1.57E+08 | R | II | ARID1B | Body | opensea | Body-opens | | rs5727022 | 38;31;1;1 |
| cg0508466 | 0.249867 | 0.586746 | 2.535263 | 0.022543 | 0.226447 | -4.63384 | 0.711679 | 0.461812 | -0.24987 | 3 | 1.26E+08 | F | II | ALG1L | 5'UTR | opensea | 5'UTR-open | | rs1133474 | 3;12;40 |
| cg2336301 | 0.248088 | 0.609507 | 2.183169 | 0.044916 | 0.248813 | -5.27999 | 0.733551 | 0.485463 | -0.24809 | 8 | 42123384 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5278849 | 50;39;1 |
| cg1946972 | 0.103858 | 0.485022 | 5.401465 | 6.75E-05 | 0.219272 | 1.178962 | 0.536951 | 0.433093 | -0.10386 | 14 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs7845516 | 8;51 |
| cg0648999 | 0.247248 | 0.472487 | 3.228632 | 0.005479 | 0.224708 | -3.26247 | 0.596111 | 0.348863 | -0.24725 | 19 | 47082996 | R | II | PPP5D1 | Body | opensea | Body-opens | | rs5657773 | 38;11 |
| cg1800834 | 0.240245 | 0.209726 | 3.561087 | 0.00275 | 0.224708 | -2.57951 | 0.329849 | 0.089604 | -0.24024 | 19 | 1096084 | R | II | POLR2E | TSS1500 | shore | TSS1500-sh | chr19:109 | rs5659822 | 46;42;25;1 |
| cg0935251 | 0.233892 | 0.33096 | 2.671751 | 0.017143 | 0.224959 | -4.37239 | 0.447906 | 0.214013 | -0.23389 | 19 | 21265421 | R | II | ZNF714 | 5'UTR | island | 5'UTR-islan | chr19:212 | rs8101412 | 50 |
| cg2696871 | 0.109648 | 0.654195 | 5.234195 | 9.32E-05 | 0.223139 | 0.848275 | 0.709019 | 0.599371 | -0.10965 | 15 | 20152530 | R | II | | IGR | shelf | IGR-shelf | chr15:201 | rs5605057 | 30;23;9;1 |
| cg0411861 | 0.228936 | 0.439228 | 3.172372 | 0.006155 | 0.224708 | -3.37696 | 0.553696 | 0.32476 | -0.22894 | 4 | 62707027 | R | II | LPHN3 | Body | opensea | Body-opens | | rs5334296 | 18;3 |
| cg0821455 | 0.101169 | 0.734509 | 5.22188 | 9.55E-05 | 0.223139 | 0.823803 | 0.785093 | 0.683924 | -0.10117 | 16 | 85250798 | R | II | | IGR | opensea | IGR-opense | | rs1178703 | 43 |
| cg2074390 | 0.10946 | 0.391394 | 5.200219 | 9.96E-05 | 0.223139 | 0.78072 | 0.446124 | 0.336664 | -0.10946 | 13 | 34116177 | R | II | | IGR | shore | IGR-shore | chr13:341 | rs5371615 | 48;29 |
| cg2625972 | 0.11025 | 0.547597 | 5.078957 | 0.000126 | 0.223139 | 0.538596 | 0.602722 | 0.492472 | -0.11025 | 20 | 50652947 | R | II | | IGR | opensea | IGR-opense | | rs2426407 | 12 |
| cg0632665 | 0.14059 | 0.769509 | 5.076967 | 0.000127 | 0.223139 | 0.534609 | 0.839804 | 0.699214 | -0.14059 | 11 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1229322 | 10;32 |
| cg1491168 | 0.220278 | 0.369716 | 2.920366 | 0.010339 | 0.224708 | -3.8841 | 0.479855 | 0.259578 | -0.22028 | 12 | 739980 | F | I | NINJ2 | Body | opensea | Body-opens | | rs5568616 | 27;29;38;43 |
| cg1318084 | 0.106585 | 0.773784 | 5.071622 | 0.000128 | 0.223139 | 0.523899 | 0.827076 | 0.720491 | -0.10659 | 2 | 2711168 | F | II | | IGR | opensea | IGR-opense | | rs1897816 | 0;1;6;22 |
| cg2175831 | 0.211346 | 0.512506 | 3.487244 | 0.003205 | 0.224708 | -2.73195 | 0.618178 | 0.406833 | -0.21135 | 14 | 1.03E+08 | F | II | CDC42BPB | Body | opensea | Body-opens | | rs3588035 | 21;24;47 |
| cg1465584 | 0.100542 | 0.649159 | 4.987675 | 0.000151 | 0.224708 | 0.35532 | 0.69943 | 0.598888 | -0.10054 | 2 | 2711189 | F | II | | IGR | opensea | IGR-opense | | rs5651033 | 1;31 |
| cg2685011 | 0.208852 | 0.48562 | 2.695073 | 0.016354 | 0.224896 | -4.32721 | 0.590047 | 0.381194 | -0.20885 | 6 | 1.7E+08 | R | II | C6orf208 | TSS1500 | shore | TSS1500-sh | chr6:1701 | rs5881841 | 5;1 |
| cg0428208 | 0.2071 | 0.599095 | 2.189782 | 0.04435 | 0.248142 | -5.2683 | 0.702645 | 0.495545 | -0.2071 | 9 | 1.25E+08 | R | II | LHX6 | Body | island | Body-islanc | chr9:1249 | rs1501862 | 2 |
| cg1130024 | 0.147082 | 0.625142 | 4.874771 | 0.000189 | 0.224708 | 0.127491 | 0.698683 | 0.551601 | -0.14708 | 9 | 1.37E+08 | F | II | | IGR | opensea | IGR-opense | | rs1466424 | 1;3;5;15;42;46 |
| cg2054042 | 0.206232 | 0.433906 | 3.71517 | 0.001998 | 0.224708 | -2.26058 | 0.537022 | 0.33079 | -0.20623 | 3 | 73045686 | F | II | PPP4R2 | TSS1500 | shore | TSS1500-sh | chr3:7304 | | |
| cg0336328 | 0.206092 | 0.412641 | 2.426553 | 0.027971 | 0.230679 | -4.83804 | 0.515687 | 0.309596 | -0.20609 | 9 | 1.25E+08 | R | II | LHX6 | Body | island | Body-islanc | chr9:1249 | | |
| cg1488296 | 0.166896 | 0.227135 | 4.837345 | 0.000203 | 0.224708 | 0.051704 | 0.310583 | 0.143687 | -0.1669 | 2 | 3699353 | F | I | | IGR | island | IGR-island | chr2:3699 | rs5757995 | 51 |
| cg1969278 | 0.200668 | 0.373064 | 2.624912 | 0.018838 | 0.225325 | -4.46271 | 0.473398 | 0.27273 | -0.20067 | 12 | 739953 | F | I | LOC10004 | TSS200 | opensea | TSS200-ope | | rs5356011 | 12 |
| cg0199598 | 0.186472 | 0.718588 | 4.759201 | 0.000237 | 0.224708 | -0.10694 | 0.811824 | 0.625352 | -0.18647 | 6 | 1.47E+08 | R | II | STXBP5-AS | Body | opensea | Body-opens | | rs1529013 | 19 |
| cg0557810 | 0.184613 | 0.350356 | 2.580399 | 0.020598 | 0.225654 | -4.54797 | 0.442663 | 0.25805 | -0.18461 | 12 | 739986 | F | I | LOC10004 | TSS200 | opensea | TSS200-ope | | rs5568616 | 21;23;32;37 |
| cg1496664 | 0.174495 | 0.582432 | 2.820928 | 0.012668 | 0.224708 | -4.08107 | 0.66968 | 0.495185 | -0.1745 | 8 | 1.26E+08 | R | II | MTSS1 | Body | opensea | Body-opens | | rs1009051 | 17 |
| cg2113840 | 0.168975 | 0.349884 | 2.872313 | 0.011407 | 0.224708 | -3.97954 | 0.434372 | 0.265397 | -0.16897 | 5 | 1.32E+08 | R | II | IRF1 | TSS1500 | shore | TSS1500-sh | chr5:1318 | rs4152564 | 34;23;2 |
| cg0741448 | 0.167795 | 0.633727 | 2.32145 | 0.034378 | 0.236654 | -5.03166 | 0.717624 | 0.549829 | -0.1678 | 6 | 31107186 | R | II | PSORS1C1 | Body | opensea | Body-opens | | rs5399358 | 43;1 |
| cg1993242 | 0.11169 | 0.486057 | 4.782301 | 0.000227 | 0.224708 | -0.05999 | 0.541902 | 0.430212 | -0.11169 | 1 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs5714418 | 28;27;26;1;1 |
| cg1658974 | 0.166424 | 0.816291 | 2.427348 | 0.027927 | 0.230655 | -4.83657 | 0.899503 | 0.73308 | -0.16642 | 19 | 8367881 | R | II | CD320 | ExonBnd | opensea | ExonBnd-o | | rs7965826 | 38;35;27;25;22;4;1 |
| cg1778565 | 0.10897 | 0.582754 | 4.755101 | 0.000239 | 0.224708 | -0.11528 | 0.637239 | 0.52827 | -0.10897 | 20 | 809805 | F | II | | IGR | opensea | IGR-opense | | rs5869109 | 7;17;31;32 |
| cg0518696 | 0.13045 | 0.646545 | 4.753511 | 0.00024 | 0.224708 | -0.11851 | 0.71177 | 0.58132 | -0.13045 | 5 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2030051 | 0.165692 | 0.307064 | 4.329903 | 0.000564 | 0.224708 | -0.98688 | 0.38991 | 0.224218 | -0.16569 | 1 | 2120985 | F | II | C1orf86 | Body | shore | Body-shore | chr1:2121 | rs1867511 | 11;19;28 |
| cg0115049 | 0.165236 | 0.374128 | 3.646368 | 0.002304 | 0.224708 | -2.4031 | 0.456746 | 0.29151 | -0.16524 | 1 | 2120978 | F | II | FAAP20 | Body | shore | Body-shore | chr1:2121 | rs1867511 | 18;26;35 |
| cg2622722 | 0.16514 | 0.439325 | 3.398558 | 0.003853 | 0.224708 | -2.91455 | 0.521895 | 0.356755 | -0.16514 | 1 | 2121039 | R | I | C1orf86 | Body | island | Body-islanc | chr1:2121 | rs1867511 | 45;37;28 |
| cg0298100 | 0.164423 | 0.254796 | 3.43096 | 0.003602 | 0.224708 | -2.8479 | 0.337007 | 0.172584 | -0.16442 | 10 | 1.35E+08 | R | II | GPR123 | Body | shore | Body-shore | chr10:134 | rs1906855 | 35;10 |
| cg1456541 | 0.164223 | 0.480616 | 3.350766 | 0.004254 | 0.224708 | -3.01269 | 0.562727 | 0.398504 | -0.16422 | 22 | 29412439 | R | II | ZNRF3 | Body | opensea | Body-opens | | rs3037486 | 24;22 |
| cg0607714 | 0.102753 | 0.468748 | 4.701828 | 0.000266 | 0.224708 | -0.22375 | 0.520124 | 0.417371 | -0.10275 | 7 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs1141633 | 47;25;1 |
| cg1934725 | 0.162221 | 0.704316 | 4.706994 | 0.000263 | 0.224708 | -0.21323 | 0.785426 | 0.623205 | -0.16222 | 8 | 11706360 | F | II | CTSB | Body | opensea | Body-opens | | rs1127696 | 0;1;8;37;40 |
| cg0025591 | 0.161906 | 0.41355 | 2.877426 | 0.011288 | 0.224708 | -3.96941 | 0.494503 | 0.332597 | -0.16191 | 5 | 1.32E+08 | F | II | IRF1 | TSS1500 | shore | TSS1500-sh | chr5:1318 | rs5496419 | 1;15 |
| cg1311153 | 0.161576 | 0.587717 | 4.007148 | 0.001093 | 0.224708 | -1.6549 | 0.668505 | 0.506928 | -0.16158 | 1 | 1886543 | R | I | KIAA1751 | 3'UTR | island | 3'UTR-islan | chr1:1886 | rs2748976 | 44;26;15;13 |
| cg0533776 | 0.161338 | 0.553102 | 3.876145 | 0.001432 | 0.224708 | -1.9267 | 0.633771 | 0.472433 | -0.16134 | 1 | 2121349 | R | I | C1orf86 | Body | island | Body-islanc | chr1:2121 | | |
| cg2317716 | 0.298125 | 0.583637 | 4.663767 | 0.000287 | 0.224708 | -0.3014 | 0.7327 | 0.434575 | -0.29813 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5695769 | 17;22;49 |
| cg2155710 | 0.160724 | 0.237786 | 3.763869 | 0.001806 | 0.224708 | -2.15962 | 0.318148 | 0.157424 | -0.16072 | 15 | 50410962 | R | II | ATP8B4 | 5'UTR | opensea | 5'UTR-open | | rs5397142 | 47;31;21;9 |
| cg1568298 | 0.158937 | 0.337608 | 3.670287 | 0.002193 | 0.224708 | -2.35357 | 0.417077 | 0.25814 | -0.15894 | 8 | 56904810 | F | II | LYN | Body | opensea | Body-opens | | rs5536603 | 1;42 |
| cg0037983 | 0.113399 | 0.830712 | 4.607389 | 0.000322 | 0.224708 | -0.41661 | 0.887411 | 0.774012 | -0.1134 | 16 | 3137338 | R | II | | IGR | shore | IGR-shore | chr16:313 | rs5446093 | 48;43;41;2 |
| cg2033126 | 0.197499 | 0.584463 | 4.595374 | 0.00033 | 0.224708 | -0.4412 | 0.683213 | 0.485714 | -0.1975 | 13 | 73829188 | R | II | | IGR | opensea | IGR-opense | | rs5566250 | 20 |
| cg0402816 | 0.110523 | 0.602691 | 4.571971 | 0.000345 | 0.224708 | -0.48912 | 0.657952 | 0.547429 | -0.11052 | 12 | 76107548 | F | II | | IGR | opensea | IGR-opense | | rs1894781 | 0;1;15;31 |
| cg2390014 | 0.185977 | 0.540983 | 4.556328 | 0.000357 | 0.224708 | -0.52117 | 0.633971 | 0.447994 | -0.18598 | 9 | 22142053 | R | II | | IGR | opensea | IGR-opense | | rs5579372 | 1 |
| cg0586391 | 0.15452 | 0.575422 | 4.294241 | 0.000607 | 0.224708 | -1.0605 | 0.652682 | 0.498162 | -0.15452 | 4 | 1.55E+08 | R | II | DCHS2 | 1stExon | opensea | 1stExon-op | | rs5432459 | 33;29;20;15;1 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1396733 | 0.153978 | 0.735426 | 2.943206 | 0.009866 | 0.224708 | -3.83858 | 0.812415 | 0.658437 | -0.15398 | 8 | 17533669 | F | II | MTUS1 | Body | opensea | Body-opens | | rs2301543 24;46 |
| cg1987622 | 0.15391 | 0.395164 | 4.479491 | 0.000416 | 0.224708 | -0.67885 | 0.472119 | 0.318209 | -0.15391 | 7 | 12641129 | F | II | SCIN | Body | opensea | Body-opens | | rs1882068 8;16;23 |
| cg2202288 | 0.181555 | 0.618169 | 4.520241 | 0.000383 | 0.224708 | -0.59518 | 0.708947 | 0.527392 | -0.18156 | 2 | 1.06E+08 | R | II | | IGR | island | IGR-island | chr2:1058 | rs1851525 28;16 |
| cg0551912 | 0.112496 | 0.606244 | 4.490627 | 0.000407 | 0.224708 | -0.65597 | 0.662492 | 0.549996 | -0.1125 | 7 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs7809915 32 |
| cg0425207 | 0.152371 | 0.581908 | 2.286229 | 0.036817 | 0.239161 | -5.09563 | 0.658093 | 0.505722 | -0.15237 | 9 | 1.38E+08 | F | II | COL5A1 | Body | shelf | Body-shelf | chr9:1377 | rs1131101 0;11;17;26;41 |
| cg0100389 | 0.151963 | 0.78528 | 3.271473 | 0.005014 | 0.224708 | -3.17504 | 0.861262 | 0.709298 | -0.15196 | 8 | 17533903 | R | II | MTUS1 | Body | opensea | Body-opens | | rs5300957 0;45;49;50 |
| cg1205884 | 0.149169 | 0.63102 | 4.470058 | 0.000424 | 0.224708 | -0.69824 | 0.705605 | 0.556436 | -0.14917 | 20 | 57844021 | R | II | | IGR | opensea | IGR-opense | | |
| cg2364490 | 0.110151 | 0.74888 | 4.464926 | 0.000429 | 0.224708 | -0.70878 | 0.803956 | 0.693805 | -0.11015 | 2 | 59616842 | R | II | | IGR | opensea | IGR-opense | | rs5348907 47;38;29;28;20;15;7;5;1 |
| cg0664302 | 0.151431 | 0.461606 | 2.546715 | 0.022034 | 0.225975 | -4.61211 | 0.537322 | 0.385891 | -0.15143 | 2 | 2.42E+08 | F | I | FARP2 | TSS1500 | shore | TSS1500-sh | chr2:2422 | rs5713563 12 |
| cg1296842 | 0.149644 | 0.536911 | 4.724779 | 0.000254 | 0.224708 | -0.17699 | 0.611733 | 0.462089 | -0.14964 | 10 | 85898499 | F | II | GHITM | TSS1500 | shore | TSS1500-sh | chr10:858 | rs5676181 0;18;20 |
| cg2497117 | 0.12493 | 0.658946 | 4.453841 | 0.000439 | 0.224708 | -0.73158 | 0.721411 | 0.596481 | -0.12493 | 10 | 94155343 | F | II | | IGR | opensea | IGR-opense | | rs1138647 11;17;47 |
| cg1305262 | 0.10355 | 0.629571 | 4.445063 | 0.000446 | 0.224708 | -0.74963 | 0.681346 | 0.577796 | -0.10355 | 10 | 7071021 | F | II | | IGR | opensea | IGR-opense | | rs1125495 9;27 |
| cg1872712 | 0.146533 | 0.695501 | 4.441479 | 0.00045 | 0.224708 | -0.757 | 0.768768 | 0.622235 | -0.14653 | 17 | 406137 | R | II | | IGR | shore | IGR-shore | chr17:406 | rs1407515 17 |
| cg0718089 | 0.149577 | 0.80385 | 2.768526 | 0.014093 | 0.224708 | -4.18401 | 0.878638 | 0.729061 | -0.14958 | 6 | 32729130 | F | II | HLA-DQB2 | Body | shore | Body-shore | chr6:3272 | rs1446337 51 |
| cg2753272 | 0.149414 | 0.390259 | 3.94071 | 0.001253 | 0.224708 | -1.79273 | 0.464967 | 0.315552 | -0.14941 | 8 | 17534102 | F | II | MTUS1 | Body | opensea | Body-opens | | rs1506595 1;23;48 |
| cg0594523 | 0.11938 | 0.729574 | 4.415696 | 0.000474 | 0.224708 | -0.81006 | 0.789264 | 0.669883 | -0.11938 | 17 | 12425767 | R | II | | IGR | opensea | IGR-opense | | rs1849381 26 |
| cg0317171 | 0.103827 | 0.454101 | 4.397975 | 0.000491 | 0.224708 | -0.84655 | 0.506014 | 0.402187 | -0.10383 | 6 | 1.65E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg0704743 | 0.116883 | 0.681771 | 4.397057 | 0.000492 | 0.224708 | -0.84844 | 0.740212 | 0.623329 | -0.11688 | 22 | 48346046 | R | II | | IGR | opensea | IGR-opense | | |
| cg0274545 | 0.105517 | 0.562616 | 4.395387 | 0.000494 | 0.224708 | -0.85188 | 0.615375 | 0.509858 | -0.10552 | 15 | 96207497 | R | II | | IGR | opensea | IGR-opense | | rs5371572 2 |
| cg2338488 | 0.243597 | 0.453273 | 4.387775 | 0.000501 | 0.224708 | -0.86756 | 0.575072 | 0.331475 | -0.2436 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1887178 3;20 |
| cg1405816 | 0.108004 | 0.527864 | 4.386863 | 0.000502 | 0.224708 | -0.86944 | 0.581866 | 0.473862 | -0.108 | 22 | 48286722 | F | II | | IGR | opensea | IGR-opense | | rs1806724 1;22 |
| cg1863899 | 0.149144 | 0.648692 | 2.452215 | 0.026588 | 0.229555 | -4.79019 | 0.723264 | 0.57412 | -0.14914 | 15 | 47656820 | R | II | SEMA6D | 5'UTR | opensea | 5'UTR-open | | rs5320859 2;1 |
| cg1583477 | 0.150836 | 0.515866 | 4.372522 | 0.000517 | 0.224708 | -0.89899 | 0.591283 | 0.440448 | -0.15084 | 17 | 43919576 | R | II | | IGR | opensea | IGR-opense | | |
| cg0623831 | 0.148811 | 0.323067 | 2.392754 | 0.029897 | 0.232477 | -4.90074 | 0.397473 | 0.248662 | -0.14881 | 19 | 21265364 | F | II | ZNF714 | 5'UTR | island | 5'UTR-islan | chr19:212 | rs5606097 0;9 |
| cg2021804 | 0.147717 | 0.617091 | 4.360923 | 0.00053 | 0.224708 | -0.9229 | 0.690949 | 0.543233 | -0.14772 | 6 | 14369697 | R | II | | IGR | opensea | IGR-opense | | |
| cg2201576 | 0.148387 | 0.546822 | 3.253257 | 0.005206 | 0.224708 | -3.21224 | 0.621015 | 0.472628 | -0.14839 | 6 | 34624127 | F | II | C6orf106 | Body | opensea | Body-opens | | rs5715076 0;21;39;46 |
| cg1770343 | 0.148205 | 0.612452 | 4.801945 | 0.000218 | 0.224708 | -0.0201 | 0.686554 | 0.538349 | -0.14821 | 7 | 22186517 | R | II | RAPGEF5 | ExonBnd | opensea | ExonBnd-o | | rs5342141 1 |
| cg0433349 | 0.148094 | 0.458962 | 3.909868 | 0.001336 | 0.224708 | -1.85672 | 0.533009 | 0.384915 | -0.14809 | 17 | 18763778 | R | II | PRPSAP2 | 5'UTR | shore | 5'UTR-shor | chr17:187 | |
| cg0592887 | 0.147462 | 0.54085 | 2.291359 | 0.036452 | 0.238704 | -5.08634 | 0.614581 | 0.467119 | -0.14746 | 1 | 72302970 | R | II | NEGR1 | Body | opensea | Body-opens | | rs1141429 1 |
| cg0503750 | 0.146964 | 0.404178 | 2.22375 | 0.041547 | 0.244654 | -5.20791 | 0.47766 | 0.330696 | -0.14696 | 9 | 1.25E+08 | R | II | LHX6 | Body | island | Body-islanc | chr9:1249 | rs5294799 22;9 |
| cg2756513 | 0.16051 | 0.614254 | 4.313958 | 0.000583 | 0.224708 | -1.01979 | 0.694509 | 0.533999 | -0.16051 | 12 | 63696438 | R | II | | IGR | opensea | IGR-opense | | rs5634446 20;14;2 |
| cg2195015 | 0.146322 | 0.601367 | 2.719576 | 0.015563 | 0.224896 | -4.27959 | 0.674528 | 0.528206 | -0.14632 | 13 | 28555387 | F | II | PRHOXNB | Body | shore | Body-shore | chr13:285 | |
| cg0086161 | 0.101386 | 0.579866 | 4.299853 | 0.0006 | 0.224708 | -1.04891 | 0.630559 | 0.529173 | -0.10139 | 4 | 62065095 | F | II | | IGR | shore | IGR-shore | chr4:6206 | rs1456863 30;41 |
| cg1183959 | 0.14622 | 0.651265 | 4.794205 | 0.000221 | 0.224708 | -0.03581 | 0.724375 | 0.578155 | -0.14622 | 20 | 62833186 | F | II | MYT1 | Body | opensea | Body-opens | | rs1866857 1 |
| cg0577940 | 0.146039 | 0.487215 | 2.896459 | 0.010857 | 0.224708 | -3.93164 | 0.560235 | 0.414196 | -0.14604 | 7 | 1198841 | F | II | ZFAND2A | 5'UTR | shore | 5'UTR-shor | chr7:1198 | rs7851594 20;31;36;48 |
| cg1678126 | 0.145665 | 0.429793 | 3.093927 | 0.007237 | 0.224708 | -3.5359 | 0.502626 | 0.356961 | -0.14566 | 2 | 1.01E+08 | F | I | NMS | Body | opensea | Body-opens | | rs5493870 0;22 |
| cg2544918 | 0.110344 | 0.453908 | 4.289033 | 0.000613 | 0.224708 | -1.07125 | 0.50908 | 0.398736 | -0.11034 | 3 | 70115097 | F | II | | IGR | opensea | IGR-opense | | rs5751266 31 |
| cg1439150 | 0.100561 | 0.631507 | 4.270519 | 0.000637 | 0.224708 | -1.1095 | 0.681788 | 0.581227 | -0.10056 | 11 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs1386882 4 |
| cg0330717 | 0.128559 | 0.71304 | 4.269175 | 0.000638 | 0.224708 | -1.11228 | 0.77732 | 0.648761 | -0.12856 | 3 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs6583331 23;34;40;41;50 |
| cg2239822 | 0.111289 | 0.516578 | 4.263415 | 0.000646 | 0.224708 | -1.12418 | 0.572222 | 0.460933 | -0.11129 | 4 | 1.56E+08 | F | II | | IGR | shore | IGR-shore | chr4:1556 | |
| cg0030391 | 0.145632 | 0.763986 | 3.103399 | 0.007097 | 0.224708 | -3.51675 | 0.836802 | 0.69117 | -0.14563 | 1 | 1.2E+08 | R | II | REG4 | 3'UTR | opensea | 3'UTR-open | | rs5682227 44;1 |
| cg2495178 | 0.145284 | 0.698119 | 2.647036 | 0.018018 | 0.225076 | -4.42012 | 0.770761 | 0.625477 | -0.14528 | 5 | 1.32E+08 | R | II | SEPT8 | TSS1500 | shore | TSS1500-sh | chr5:1321 | rs1159018 7;2 |
| cg2023547 | 0.144855 | 0.865431 | 2.17653 | 0.045491 | 0.249561 | -5.29172 | 0.937859 | 0.793004 | -0.14486 | 13 | 1.14E+08 | R | II | TMCO3 | Body | shore | Body-shore | chr13:114 | rs1065494 43;14;1 |
| cg2645467 | 0.144597 | 0.630401 | 3.596596 | 0.002555 | 0.224708 | -2.5061 | 0.7027 | 0.558103 | -0.1446 | 9 | 37011472 | F | II | PAX5 | Body | opensea | Body-opens | | rs944066;r 7;13;29 |
| cg0456601 | 0.143564 | 0.545716 | 3.314578 | 0.004585 | 0.224708 | -3.08686 | 0.617498 | 0.473934 | -0.14356 | 5 | 1.68E+08 | R | II | TENM2 | Body | opensea | Body-opens | | rs5559666 1 |
| cg1234649 | 0.14264 | 0.518875 | 3.969712 | 0.00118 | 0.224708 | -1.73256 | 0.590195 | 0.447556 | -0.14264 | 5 | 1.11E+08 | F | II | STARD4-AS | Body | opensea | Body-opens | | rs5766634 11 |
| cg0129524 | 0.142608 | 0.489411 | 2.380741 | 0.030611 | 0.23319 | -4.92292 | 0.560715 | 0.418106 | -0.14261 | 2 | 1.06E+08 | R | II | NCK2 | 5'UTR | opensea | 5'UTR-open | | rs4851091 29;2 |
| cg2570521 | 0.14244 | 0.652089 | 4.644096 | 0.000299 | 0.224708 | -0.34157 | 0.723308 | 0.580869 | -0.14244 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs1897500 46 |
| cg1947734 | 0.102074 | 0.744685 | 4.216697 | 0.000711 | 0.224708 | -1.22077 | 0.795722 | 0.693647 | -0.10207 | 19 | 48699872 | R | II | | IGR | shore | IGR-shore | chr19:486 | |
| cg1843678 | 0.142032 | 0.508243 | 3.011613 | 0.008573 | 0.224708 | -3.70168 | 0.579258 | 0.437227 | -0.14203 | 1 | 3704244 | F | II | LRRC47 | Body | shore | Body-shore | chr1:3703 | rs5391909 0;14;26 |
| cg2336318 | 0.244249 | 0.626568 | 4.206002 | 0.000726 | 0.224708 | -1.24289 | 0.748692 | 0.504444 | -0.24425 | 2 | 1.81E+08 | R | II | | IGR | opensea | IGR-opense | | rs5647866 10 |
| cg2623654 | 0.142809 | 0.591585 | 4.201394 | 0.000733 | 0.224708 | -1.25243 | 0.66299 | 0.520181 | -0.14281 | 8 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5876270 12;14;14;16;47 |
| cg0129281 | 0.179024 | 0.511233 | 4.201118 | 0.000734 | 0.224708 | -1.253 | 0.600745 | 0.421721 | -0.17902 | 3 | 1.84E+08 | R | II | | IGR | shore | IGR-shore | chr3:1842 | rs5626114 27 |
| cg1275574 | 0.121015 | 0.337131 | 4.200041 | 0.000735 | 0.224708 | -1.25523 | 0.397638 | 0.276623 | -0.12101 | 4 | 1.85E+08 | R | II | | IGR | shore | IGR-shore | chr4:1846 | rs5600000 48;23;12 |
| cg0846867 | 0.104205 | 0.425232 | 4.198989 | 0.000737 | 0.224708 | -1.2574 | 0.477335 | 0.37313 | -0.1042 | 15 | 61927784 | F | II | | IGR | opensea | IGR-opense | | rs7459980 1 |
| cg0605948 | 0.111496 | 0.613805 | 4.195952 | 0.000742 | 0.224708 | -1.26369 | 0.669553 | 0.558057 | -0.1115 | 10 | 46171106 | F | II | | IGR | shelf | IGR-shelf | chr10:461 | |
| cg0109151 | 0.139734 | 0.241418 | 4.190566 | 0.00075 | 0.224708 | -1.27483 | 0.311285 | 0.171552 | -0.13973 | 4 | 1.85E+08 | F | II | | IGR | shore | IGR-shore | chr4:1846 | rs1117468 11;31 |
| cg1395651 | 0.124244 | 0.547814 | 4.190094 | 0.000751 | 0.224708 | -1.27581 | 0.609936 | 0.485692 | -0.12424 | 12 | 40511665 | F | II | | IGR | opensea | IGR-opense | | |
| cg0888034 | 0.141754 | 0.587135 | 2.830596 | 0.012421 | 0.224708 | -4.06201 | 0.658012 | 0.516258 | -0.14175 | 22 | 49860548 | F | II | C22orf34 | Body | opensea | Body-opens | | rs1880245 5 |
| cg1391263 | 0.109205 | 0.529572 | 4.179724 | 0.000767 | 0.224708 | -1.29727 | 0.584175 | 0.47497 | -0.1092 | 9 | 1.36E+08 | F | II | | IGR | shore | IGR-shore | chr9:1360 | rs5356506 46 |
| cg0182806 | 0.105757 | 0.402657 | 4.178179 | 0.000769 | 0.224708 | -1.30047 | 0.455536 | 0.349779 | -0.10576 | 5 | 1.41E+08 | F | II | | IGR | shore | IGR-shore | chr5:1406 | rs5501447 48;50 |
| cg1340577 | 0.141534 | 0.4621 | 4.212672 | 0.000717 | 0.224708 | -1.22909 | 0.532867 | 0.391333 | -0.14153 | 22 | 32599648 | F | II | RFPL2 | TSS200 | opensea | TSS200-ope | | rs5673285 1;35 |
| cg0526362 | 0.100063 | 0.571564 | 4.171017 | 0.00078 | 0.224708 | -1.3153 | 0.621596 | 0.521533 | -0.10006 | 2 | 76539134 | F | II | | IGR | opensea | IGR-opense | | |
| cg1412218 | 0.130638 | 0.605788 | 4.1624 | 0.000794 | 0.224708 | -1.33314 | 0.671107 | 0.54047 | -0.13064 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs5596979 1;5;44 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1663425 | 0.100344 | 0.438908 | 4.157921 | 0.000802 | 0.224708 | -1.34241 | 0.489079 | 0.388736 | -0.10034 | 6 | 1.48E+08 | R | II | | IGR | opensea | IGR-opense | | rs5529425 | 26 |
| cg1799683 | 0.141437 | 0.496222 | 3.651561 | 0.002279 | 0.224708 | -2.39235 | 0.56694 | 0.425503 | -0.14144 | 11 | 78616440 | R | II | ODZ4 | Body | shore | Body-shore | chr11:786: | rs1909848 | 17;12 |
| cg1871587 | 0.183223 | 0.551566 | 4.150056 | 0.000815 | 0.224708 | -1.3587 | 0.643178 | 0.459954 | -0.18322 | 2 | 2.43E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:2426: | rs5318817 | 10;2 |
| cg2308076 | 0.141146 | 0.562093 | 3.83913 | 0.001546 | 0.224708 | -2.0035 | 0.632666 | 0.49152 | -0.14115 | 1 | 1.71E+08 | R | II | FMO1 | TSS1500 | opensea | TSS1500-o | | rs2064078 | 10 |
| cg0632910 | 0.140671 | 0.593891 | 3.194014 | 0.005885 | 0.224708 | -3.33297 | 0.664226 | 0.523555 | -0.14067 | 8 | 20810381 | R | II | LOC10246 | TSS1500 | opensea | TSS1500-o | | rs1134091 | 1 |
| cg1140151 | 0.105648 | 0.578283 | 4.137974 | 0.000835 | 0.224708 | -1.38372 | 0.631107 | 0.525459 | -0.10565 | 7 | 1.19E+08 | F | II | | IGR | opensea | IGR-opense | | rs1510832 | 0;19 |
| cg2080282 | 0.10487 | 0.474309 | 4.137094 | 0.000837 | 0.224708 | -1.38554 | 0.526744 | 0.421874 | -0.10487 | 6 | 30782080 | R | II | | IGR | opensea | IGR-opense | | rs5306903 | 38;15;2 |
| cg1785709 | 0.140535 | 0.638535 | 3.394915 | 0.003882 | 0.224708 | -2.92204 | 0.708803 | 0.568268 | -0.14054 | 6 | 30907280 | F | II | DPCR1 | TSS1500 | opensea | TSS1500-o | | | |
| cg0041617 | 0.118543 | 0.687804 | 4.13022 | 0.000849 | 0.224708 | -1.39978 | 0.747076 | 0.628532 | -0.11854 | 17 | 406140 | R | II | | IGR | shore | IGR-shore | chr17:406: | rs1407515 | 20 |
| cg1983196 | 0.130939 | 0.725148 | 4.126933 | 0.000854 | 0.224708 | -1.40659 | 0.790618 | 0.659679 | -0.13094 | 2 | 317929 | R | II | | IGR | shelf | IGR-shelf | chr2:3148: | rs7792054 | 20 |
| cg1508613 | 0.108491 | 0.39758 | 4.121612 | 0.000864 | 0.224708 | -1.41761 | 0.451826 | 0.343335 | -0.10849 | 8 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs5628999 | 49;46;43;30;9 |
| cg0343116 | 0.139683 | 0.566227 | 3.344294 | 0.004312 | 0.224708 | -3.02596 | 0.636068 | 0.496385 | -0.13968 | 3 | 1.22E+08 | F | II | CD86 | 5'UTR | opensea | 5'UTR-open | | rs1407765 | 0;6;14;15;29;35 |
| cg1805437 | 0.139507 | 0.441442 | 3.626504 | 0.002401 | 0.224708 | -2.44422 | 0.511195 | 0.371688 | -0.13951 | 10 | 81194201 | F | II | ZCCHC24 | Body | opensea | Body-open: | | rs5744125 | 4;18;35;42;44 |
| cg0867790 | 0.148534 | 0.727985 | 4.099788 | 0.000903 | 0.224708 | -1.46283 | 0.802252 | 0.653718 | -0.14853 | 2 | 2.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs999033;r | 30;18;13;11;2 |
| cg1635485 | 0.120512 | 0.663489 | 4.099651 | 0.000903 | 0.224708 | -1.46311 | 0.723744 | 0.603233 | -0.12051 | 12 | 19218990 | F | II | | IGR | opensea | IGR-opense | | rs5481738 | 12 |
| cg0453100 | 0.119158 | 0.623793 | 4.099642 | 0.000903 | 0.224708 | -1.46313 | 0.683372 | 0.564214 | -0.11916 | 2 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0220010 | 0.104445 | 0.407157 | 4.080114 | 0.00094 | 0.224708 | -1.5036 | 0.459379 | 0.354934 | -0.10444 | 10 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5403855 | 1;8;10;29;36 |
| cg0788982 | 0.102864 | 0.710653 | 4.07936 | 0.000942 | 0.224708 | -1.50517 | 0.762085 | 0.659221 | -0.10286 | 10 | 93443413 | F | II | | IGR | opensea | IGR-opense | | rs5283471 | 0;3;36 |
| cg2735389 | 0.139166 | 0.323489 | 3.087084 | 0.007339 | 0.224708 | -3.54972 | 0.393072 | 0.253905 | -0.13917 | 3 | 1.95E+08 | F | I | MUC4 | Body | island | Body-islanc | chr3:19548 | rs1995527 | 8;27 |
| cg0673730 | 0.13904 | 0.684258 | 2.649874 | 0.017915 | 0.225076 | -4.41465 | 0.753778 | 0.614738 | -0.13904 | 4 | 1.85E+08 | R | II | ENPP6 | Body | shelf | Body-shelf | chr4:1850: | rs5768557 | 6 |
| cg2042238 | 0.118408 | 0.342609 | 4.067359 | 0.000965 | 0.224708 | -1.53004 | 0.401813 | 0.283405 | -0.11841 | 1 | 2.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs2809341 | 48;20 |
| cg1188541 | 0.138819 | 0.494323 | 3.066947 | 0.00765 | 0.224708 | -3.59035 | 0.563732 | 0.424913 | -0.13882 | 21 | 30715207 | R | II | BACH1 | 3'UTR | opensea | 3'UTR-open | | rs5398539 | 13 |
| cg0677718 | 0.137825 | 0.605132 | 2.146216 | 0.048202 | 0.252931 | -5.34502 | 0.674045 | 0.53622 | -0.13782 | 4 | 1.06E+08 | R | II | PPA2 | Body | opensea | Body-open: | | rs1488741 | 31;2;1 |
| cg1357146 | 0.137738 | 0.631068 | 2.255481 | 0.039079 | 0.241564 | -5.15108 | 0.699937 | 0.562199 | -0.13774 | 9 | 1.25E+08 | F | I | LHX6 | Body | island | Body-islanc | chr9:12495 | rs1120438 | 44 |
| cg2436412 | 0.13757 | 0.577934 | 2.843797 | 0.012091 | 0.224708 | -4.03595 | 0.646719 | 0.509149 | -0.13757 | 15 | 33757827 | F | II | RYR3 | Body | opensea | Body-open: | | rs5452455 | 0;4;13;40 |
| cg1193862 | 0.165802 | 0.614098 | 4.056361 | 0.000988 | 0.224708 | -1.55285 | 0.696999 | 0.531198 | -0.1658 | 1 | 2.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5770717 | 36 |
| cg0366689 | 0.137296 | 0.60917 | 3.967455 | 0.001186 | 0.224708 | -1.73724 | 0.677818 | 0.540522 | -0.1373 | 11 | 76847277 | R | II | MYO7A | Body | shore | Body-shore | chr11:768 | rs1841666 | 37 |
| cg0900931 | 0.13708 | 0.651197 | 3.728641 | 0.001943 | 0.224708 | -2.23266 | 0.719737 | 0.582657 | -0.13708 | 9 | 6566991 | F | II | GLDC | Body | opensea | Body-open: | | | |
| cg1170604 | 0.100411 | 0.69667 | 4.051859 | 0.000997 | 0.224708 | -1.56218 | 0.746875 | 0.646465 | -0.10041 | 13 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs2182920 | 37;11;2 |
| cg0970995 | 0.136414 | 0.374021 | 4.863546 | 0.000193 | 0.224708 | 0.104774 | 0.442228 | 0.305814 | -0.13641 | 12 | 54017699 | F | II | ATF7 | 5'UTR | shelf | 5'UTR-shelf | chr12:540: | rs1854655 | 0 |
| cg2497143 | 0.100524 | 0.686901 | 4.050181 | 0.001 | 0.224708 | -1.56566 | 0.737163 | 0.636639 | -0.10052 | 18 | 22094439 | F | II | | IGR | opensea | IGR-opense | | rs5723839 | 15;39 |
| cg2088809 | 0.113366 | 0.732772 | 4.047734 | 0.001005 | 0.224708 | -1.57073 | 0.789456 | 0.676089 | -0.11337 | 7 | 1.55E+08 | F | II | | IGR | opensea | IGR-opense | | rs1866531 | 0;38 |
| cg1669256 | 0.117237 | 0.601861 | 4.038496 | 0.001025 | 0.224708 | -1.58989 | 0.66048 | 0.543243 | -0.11724 | 2 | 39135866 | R | II | | IGR | opensea | IGR-opense | | rs1463480 | 20 |
| cg2731357 | 0.107165 | 0.728968 | 4.034403 | 0.001033 | 0.224708 | -1.59838 | 0.782551 | 0.675386 | -0.10716 | 7 | 1.57E+08 | R | II | | IGR | shore | IGR-shore | chr7:1572( | rs5556188 | 51;29;27;16 |
| cg1840833 | 0.111857 | 0.494547 | 4.032966 | 0.001036 | 0.224708 | -1.60136 | 0.550475 | 0.438618 | -0.11186 | 18 | 3305544 | R | II | | IGR | opensea | IGR-opense | | rs5344272 | 42 |
| cg2144677 | 0.111647 | 0.557174 | 4.032234 | 0.001038 | 0.224708 | -1.60287 | 0.612998 | 0.501351 | -0.11165 | 2 | 2.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs5305531 | 2 |
| cg0565892 | 0.134213 | 0.536845 | 4.03131 | 0.00104 | 0.224708 | -1.60479 | 0.603952 | 0.469739 | -0.13421 | 7 | 13191068 | R | II | | IGR | opensea | IGR-opense | | rs5354259 | 20 |
| cg0566644 | 0.13636 | 0.714198 | 3.130507 | 0.006711 | 0.224708 | -3.46189 | 0.782378 | 0.646018 | -0.13636 | 22 | 26023816 | F | II | ADRBK2 | Body | opensea | Body-open: | | rs1174756 | 0;41;49 |
| cg1822494 | 0.135617 | 0.449982 | 4.835554 | 0.000204 | 0.224708 | 0.048074 | 0.51779 | 0.382173 | -0.13562 | 1 | 1225781 | R | II | SCNN1D | Body | shelf | Body-shelf | chr1:1228: | rs1131974 | 30;29;28;15;2;1 |
| cg1529342 | 0.135374 | 0.563475 | 5.443699 | 6.23E-05 | 0.219272 | 1.261947 | 0.631162 | 0.495788 | -0.13537 | 2 | 37897716 | F | II | CDC42EP3 | 5'UTR | shore | 5'UTR-shor | chr2:3789! | rs1133621 | 0;34 |
| cg2045833 | 0.135222 | 0.513065 | 4.682508 | 0.000277 | 0.224708 | -0.26315 | 0.580676 | 0.445454 | -0.13522 | 13 | 32502384 | R | II | EEF1DP3 | Body | opensea | Body-open: | | | |
| cg1726612 | 0.135128 | 0.584152 | 4.143501 | 0.000826 | 0.224708 | -1.37227 | 0.651716 | 0.516588 | -0.13513 | 21 | 30476810 | R | II | MAP3K7CL | 5'UTR | opensea | 5'UTR-open | | rs1870250 | 6;2 |
| cg0844007 | 0.118569 | 0.519811 | 4.01234 | 0.001081 | 0.224708 | -1.64413 | 0.579096 | 0.460526 | -0.11857 | 2 | 2.42E+08 | R | II | | IGR | shore | IGR-shore | chr2:2418! | rs1454877 | 1 |
| cg1980578 | 0.104985 | 0.71858 | 4.011706 | 0.001083 | 0.224708 | -1.64545 | 0.771073 | 0.666088 | -0.10499 | 17 | 70472110 | R | II | | IGR | opensea | IGR-opense | | rs5739337 | 48 |
| cg0302528 | 0.111937 | 0.634696 | 4.011444 | 0.001083 | 0.224708 | -1.64599 | 0.690665 | 0.578728 | -0.11194 | 8 | 19752474 | R | II | | IGR | opensea | IGR-opense | | rs1476263 | 1 |
| cg0425867 | 0.110498 | 0.623173 | 4.008537 | 0.00109 | 0.224708 | -1.65202 | 0.678422 | 0.567924 | -0.1105 | 1 | 94240208 | F | II | | IGR | opensea | IGR-opense | | rs5343663 | 3;26;32 |
| cg2759689 | 0.134911 | 0.532152 | 3.691639 | 0.002098 | 0.224708 | -2.30934 | 0.599608 | 0.464697 | -0.13491 | 16 | 49621173 | F | II | ZNF423 | Body | opensea | Body-open: | | rs5494576 | 0;7 |
| cg2688694 | 0.134125 | 0.584055 | 2.721888 | 0.015491 | 0.224896 | -4.27509 | 0.651117 | 0.516992 | -0.13413 | 14 | 90399629 | F | II | EFCAB11 | Body | opensea | Body-open: | | rs1173870 | 0;1;9 |
| cg0903593 | 0.134116 | 0.643833 | 2.496027 | 0.024375 | 0.227653 | -4.70798 | 0.710891 | 0.576775 | -0.13412 | 12 | 1.29E+08 | R | II | SLC15A4 | Body | shore | Body-shore | chr12:129: | rs5426064 | 18;14 |
| cg0916364 | 0.134091 | 0.576456 | 4.107827 | 0.000888 | 0.224708 | -1.44617 | 0.643501 | 0.509411 | -0.13409 | 9 | 6566510 | R | II | GLDC | Body | opensea | Body-open: | | rs5738601 | 48;30;22 |
| cg0597327 | 0.117303 | 0.662401 | 4.000228 | 0.001108 | 0.224708 | -1.66925 | 0.721052 | 0.60375 | -0.1173 | 22 | 32860714 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2012459 | 0.10467 | 0.499302 | 3.999482 | 0.00111 | 0.224708 | -1.6708 | 0.551637 | 0.446967 | -0.10467 | 14 | 35825453 | R | II | | IGR | opensea | IGR-opense | | rs8005252 | 19;18;2;1 |
| cg1785835 | 0.134035 | 0.564209 | 4.079342 | 0.000942 | 0.224708 | -1.5052 | 0.631227 | 0.497192 | -0.13403 | 3 | 1.78E+08 | R | II | KCNMB2-A | Body | opensea | Body-open: | | rs5304138 | 40;25;13;2 |
| cg0225064 | 0.13392 | 0.547292 | 2.993881 | 0.008892 | 0.224708 | -3.73724 | 0.614252 | 0.480332 | -0.13392 | 15 | 45020024 | R | II | LOC10041 | TSS1500 | opensea | TSS1500-o | | rs1381315 | 40;1 |
| cg0016345 | 0.133892 | 0.560194 | 3.963655 | 0.001195 | 0.224708 | -1.74512 | 0.62714 | 0.493248 | -0.13389 | 20 | 10411528 | R | II | MKKS | 5'UTR | shelf | 5'UTR-shelf | chr20:104: | | |
| cg1783618 | 0.102677 | 0.605361 | 3.984544 | 0.001145 | 0.224708 | -1.70179 | 0.6567 | 0.554023 | -0.10268 | 21 | 36570494 | F | II | | IGR | opensea | IGR-opense | | rs5651723 | 50;51 |
| cg0929501 | 0.133759 | 0.574825 | 3.650867 | 0.002283 | 0.224708 | -2.39379 | 0.641704 | 0.507945 | -0.13376 | 8 | 99503021 | F | II | STK3 | Body | opensea | Body-open: | | rs1828935 | 0;30;31 |
| cg0893710 | 0.135429 | 0.676492 | 3.973463 | 0.001171 | 0.224708 | -1.72478 | 0.744207 | 0.608778 | -0.13543 | 16 | 3136857 | R | II | | IGR | shelf | IGR-shelf | chr16:313 | rs5773290 | 45;2 |
| cg0048206 | 0.127083 | 0.609905 | 3.971589 | 0.001176 | 0.224708 | -1.72866 | 0.673447 | 0.546364 | -0.12708 | 1 | 61478983 | F | II | | IGR | opensea | IGR-opense | | rs1486563 | 23;29 |
| cg0248832 | 0.109456 | 0.533992 | 3.971003 | 0.001177 | 0.224708 | -1.72988 | 0.58872 | 0.479264 | -0.10946 | 19 | 5841442 | R | II | | IGR | shelf | IGR-shelf | chr19:584: | | |
| cg0234365 | 0.133623 | 0.527394 | 3.554404 | 0.002788 | 0.224708 | -2.59332 | 0.594205 | 0.460582 | -0.13362 | 21 | 30476730 | R | II | MAP3K7CL | 5'UTR | opensea | 5'UTR-open | | | |
| cg0662591 | 0.133338 | 0.505576 | 3.124204 | 0.006798 | 0.224708 | -3.47465 | 0.572246 | 0.438907 | -0.13334 | 4 | 1.2E+08 | F | II | SEC24D | Body | opensea | Body-open: | | | |
| cg0738337 | 0.132961 | 0.456305 | 3.391558 | 0.003909 | 0.224708 | -2.92894 | 0.522785 | 0.389824 | -0.13296 | 7 | 40766405 | R | II | SUGCT | Body | opensea | Body-open: | | rs1875599 | 1 |
| cg1518630 | 0.113514 | 0.548872 | 3.965984 | 0.00119 | 0.224708 | -1.74029 | 0.605629 | 0.492115 | -0.11351 | 13 | 55110248 | R | II | | IGR | opensea | IGR-opense | | rs5697292 | 42;31;26;1 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2109415 | 0.132951 | 0.514339 | 3.255701 | 0.00518 | 0.224708 | -3.20725 | 0.580815 | 0.447864 | -0.13295 | 7 | 17345221 | F | II | AHR | Body | opensea | Body-opens | | rs1154274 0;39;41 |
| cg1079076 | 0.102299 | 0.639782 | 3.96078 | 0.001202 | 0.224708 | -1.75109 | 0.690932 | 0.588632 | -0.1023 | 17 | 47562801 | R | II | | IGR | opensea | IGR-opense | | rs1506627 47;27;2;1 |
| cg1550090 | 0.132409 | 0.505744 | 3.435158 | 0.003571 | 0.224708 | -2.83926 | 0.571948 | 0.43954 | -0.13241 | 6 | 1.12E+08 | R | II | LAMA4 | Body | opensea | Body-opens | | rs2005416 49;40;36;24;7;2 |
| cg2221033 | 0.131893 | 0.342768 | 2.540733 | 0.022298 | 0.226234 | -4.62346 | 0.408714 | 0.276822 | -0.13189 | 11 | 2322808 | R | I | C11orf21 | Body | opensea | Body-opens | | rs1422473 28;7 |
| cg1327889 | 0.112581 | 0.516314 | 3.956353 | 0.001213 | 0.224708 | -1.76027 | 0.572604 | 0.460023 | -0.11258 | 13 | 84451164 | R | II | | IGR | shelf | IGR-shelf | chr13:8445 | rs5749292 31;1 |
| cg2532668 | 0.131433 | 0.580674 | 3.254706 | 0.005191 | 0.224708 | -3.20928 | 0.64639 | 0.514957 | -0.13143 | 5 | 1.68E+08 | F | II | TENM2 | Body | opensea | Body-opens | | rs1930661 15 |
| cg0053658 | 0.103267 | 0.59377 | 3.943702 | 0.001245 | 0.224708 | -1.78652 | 0.645404 | 0.542136 | -0.10327 | 12 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | | rs5545677 0 |
| cg1593156 | 0.131408 | 0.563223 | 3.498657 | 0.00313 | 0.224708 | -2.70841 | 0.628927 | 0.497519 | -0.13141 | 9 | 71985131 | F | II | FAM189A2 | Body | opensea | Body-opens | | rs1113834 20;38 |
| cg0234164 | 0.13133 | 0.81184 | 3.613533 | 0.002467 | 0.224708 | -2.47106 | 0.877505 | 0.746175 | -0.13133 | 17 | 71756141 | F | II | C17orf54 | Body | opensea | Body-opens | | rs7137349 15;17 |
| cg1337635 | 0.131254 | 0.480226 | 3.375575 | 0.004041 | 0.224708 | -2.96177 | 0.545853 | 0.414599 | -0.13125 | 6 | 87892453 | F | II | ZNF292 | Body | opensea | Body-opens | | rs1178603 7;21;32 |
| cg0255615 | 0.111694 | 0.503657 | 3.933279 | 0.001273 | 0.224708 | -1.80815 | 0.559504 | 0.447811 | -0.11169 | 3 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs3741836 7 |
| cg1862266 | 0.116989 | 0.732549 | 3.93281 | 0.001274 | 0.224708 | -1.80912 | 0.791043 | 0.674054 | -0.11699 | 1 | 2.24E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0583511 | 0.130828 | 0.434969 | 3.191525 | 0.005916 | 0.224708 | -3.33803 | 0.500383 | 0.369555 | -0.13083 | 7 | 48294858 | F | II | ABCA13 | Body | opensea | Body-opens | | |
| cg1427204 | 0.104163 | 0.774375 | 3.928216 | 0.001286 | 0.224708 | -1.81865 | 0.826456 | 0.722293 | -0.10416 | 12 | 92453691 | F | II | | IGR | opensea | IGR-opense | | |
| cg0527136 | 0.13158 | 0.692634 | 3.927851 | 0.001287 | 0.224708 | -1.81941 | 0.758424 | 0.626844 | -0.13158 | 10 | 27259297 | R | II | | IGR | opensea | IGR-opense | | |
| cg0719037 | 0.143667 | 0.556715 | 3.925294 | 0.001294 | 0.224708 | -1.82472 | 0.628549 | 0.484882 | -0.14367 | 9 | 1.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs2006720 0 |
| cg2731159 | 0.188166 | 0.755849 | 3.9213 | 0.001304 | 0.224708 | -1.833 | 0.849932 | 0.661766 | -0.18817 | 4 | 1521984 | R | II | | IGR | island | IGR-island | chr4:15217 | rs1394081 39;34;29;15 |
| cg0733609 | 0.12893 | 0.457166 | 3.921249 | 0.001305 | 0.224708 | -1.83311 | 0.521631 | 0.392701 | -0.12893 | 2 | 1.4E+08 | R | II | | IGR | opensea | IGR-opense | | rs5690980 47 |
| cg1981640 | 0.130617 | 0.693982 | 3.126773 | 0.006763 | 0.224708 | -3.46945 | 0.75929 | 0.628673 | -0.13062 | 22 | 45993430 | F | II | FBLN1 | Body | opensea | Body-opens | | rs5328689 16 |
| cg0244969 | 0.103641 | 0.648304 | 3.91912 | 0.00131 | 0.224708 | -1.83753 | 0.700124 | 0.596483 | -0.10364 | 1 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | rs5413744 43;40;1 |
| cg2679460 | 0.123853 | 0.511319 | 3.917677 | 0.001314 | 0.224708 | -1.84052 | 0.573245 | 0.449392 | -0.12385 | 10 | 89942354 | R | II | | IGR | opensea | IGR-opense | | rs5509443 28 |
| cg0008981 | 0.104051 | 0.61611 | 3.915166 | 0.001321 | 0.224708 | -1.84573 | 0.668136 | 0.564085 | -0.10405 | 3 | 72641008 | R | II | | IGR | opensea | IGR-opense | | rs5618881 16;2;1 |
| cg2469376 | 0.128842 | 0.24704 | 3.915036 | 0.001321 | 0.224708 | -1.846 | 0.31146 | 0.182619 | -0.12884 | 1 | 1.68E+08 | F | II | | IGR | opensea | IGR-opense | | rs1387513 3;13;48 |
| cg1361382 | 0.130486 | 0.784217 | 2.633365 | 0.018521 | 0.225084 | -4.44645 | 0.849459 | 0.718974 | -0.13049 | 22 | 45897722 | F | II | FBLN1 | TSS1500 | shore | TSS1500-sh | chr22:4585 | rs1124286 0;28 |
| cg2234506 | 0.106119 | 0.778598 | 3.912395 | 0.001329 | 0.224708 | -1.85148 | 0.831658 | 0.725539 | -0.10612 | 5 | 6795634 | R | II | | IGR | opensea | IGR-opense | | rs5626137 29;8 |
| cg0023972 | 0.115292 | 0.369106 | 3.910891 | 0.001333 | 0.224708 | -1.8546 | 0.426752 | 0.31146 | -0.11529 | 12 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs1901122 1;25;35 |
| cg2349277 | 0.13045 | 0.70838 | 3.528859 | 0.00294 | 0.224708 | -2.64608 | 0.773605 | 0.643155 | -0.13045 | 6 | 36928572 | F | II | PI16 | Body | shore | Body-shore | chr6:36925 | rs1875644 32 |
| cg1513125 | 0.130285 | 0.531777 | 2.77412 | 0.013933 | 0.224708 | -4.17305 | 0.59692 | 0.466635 | -0.13029 | 20 | 31805182 | R | II | C20orf71 | 5'UTR | opensea | 5'UTR-open | | rs5351642 43;9;2;1;1 |
| cg2571614 | 0.104719 | 0.531592 | 3.891192 | 0.001388 | 0.224708 | -1.89548 | 0.583951 | 0.479233 | -0.10472 | 3 | 33763505 | R | II | | IGR | shelf | IGR-shelf | chr3:33759 | rs5389048 46;1 |
| cg0924328 | 0.130258 | 0.229966 | 3.967466 | 0.001186 | 0.224708 | -1.73722 | 0.295095 | 0.164837 | -0.13026 | 9 | 6015084 | R | II | RANBP6 | Body | opensea | Body-opens | | |
| cg1707392 | 0.129835 | 0.500535 | 3.230916 | 0.005453 | 0.224708 | -3.25782 | 0.565453 | 0.435618 | -0.12984 | 10 | 81106651 | F | II | PPIF | TSS1500 | shore | TSS1500-sh | chr10:8110 | rs1693709 42 |
| cg1108453 | 0.107805 | 0.582822 | 3.882996 | 0.001412 | 0.224708 | -1.91248 | 0.636724 | 0.528919 | -0.1078 | 6 | 1.32E+08 | R | II | | IGR | shelf | IGR-shelf | chr6:1322 | |
| cg2758679 | 0.438928 | 0.508526 | 3.879298 | 0.001423 | 0.224708 | -1.92016 | 0.72799 | 0.289062 | -0.43893 | 5 | 13664584 | R | II | | IGR | opensea | IGR-opense | | rs5705085 13;3;2;2;1 |
| cg2128108 | 0.129775 | 0.52239 | 3.373302 | 0.00406 | 0.224708 | -2.96644 | 0.587278 | 0.457503 | -0.12978 | 5 | 55067187 | R | II | DDX4 | Body | opensea | Body-opens | | rs5311283 28 |
| cg0679159 | 0.129655 | 0.446112 | 3.515512 | 0.003023 | 0.224708 | -2.67363 | 0.510939 | 0.381284 | -0.12966 | 6 | 32823292 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282( | rs3763346 37;1 |
| cg1481659 | 0.129434 | 0.494231 | 3.823885 | 0.001595 | 0.224708 | -2.03513 | 0.558948 | 0.429514 | -0.12943 | 3 | 1.42E+08 | F | II | ATP1B3 | Body | opensea | Body-opens | | rs7819298 9;36;37;43 |
| cg0433552 | 0.129067 | 0.667716 | 3.101658 | 0.007122 | 0.224708 | -3.52027 | 0.732249 | 0.603182 | -0.12907 | 10 | 53790078 | R | II | PRKG1 | Body | opensea | Body-opens | | rs1073389 46 |
| cg1354650 | 0.128767 | 0.53406 | 3.191387 | 0.005917 | 0.224708 | -3.33831 | 0.598443 | 0.469676 | -0.12877 | 14 | 78864773 | R | II | NRXN3 | Body | opensea | Body-opens | | rs5640816 2;1 |
| cg1132967 | 0.111548 | 0.517063 | 3.855729 | 0.001494 | 0.224708 | -1.96906 | 0.572838 | 0.461289 | -0.11155 | 5 | 2165422 | R | II | | IGR | opensea | IGR-opense | | rs5373332 30 |
| cg0937751 | 0.128476 | 0.548079 | 4.890807 | 0.000183 | 0.224708 | 0.159925 | 0.612316 | 0.483841 | -0.12848 | 17 | 11786949 | R | II | DNAH9 | 5'UTR | opensea | 5'UTR-open | | rs1918127 45;26;10;2;1 |
| cg1879578 | 0.128376 | 0.609648 | 4.806157 | 0.000216 | 0.224708 | -0.01155 | 0.673835 | 0.54546 | -0.12838 | 12 | 41087584 | R | II | CNTN1 | 5'UTR | shore | 5'UTR-shor | chr12:4108 | |
| cg0797309 | 0.128364 | 0.474081 | 2.850773 | 0.01192 | 0.224708 | -4.02217 | 0.538263 | 0.409899 | -0.12836 | 16 | 451040 | R | I | DECR2 | TSS1500 | island | TSS1500-isl | chr16:4508 | rs1123893 47;16 |
| cg0613362 | 0.127926 | 0.560737 | 3.265391 | 0.005077 | 0.224708 | -3.18746 | 0.6247 | 0.496774 | -0.12793 | 4 | 1.01E+08 | R | II | EMCN | Body | opensea | Body-opens | | rs3611005 50;2;1 |
| cg0934018 | 0.145493 | 0.546092 | 3.832874 | 0.001566 | 0.224708 | -2.01648 | 0.618838 | 0.473345 | -0.14549 | 5 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs7963111 24;7;3 |
| cg2136987 | 0.175341 | 0.685986 | 3.829896 | 0.001576 | 0.224708 | -2.02266 | 0.773656 | 0.598316 | -0.17534 | 5 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs1997731 0;10 |
| cg0249618 | 0.127833 | 0.711766 | 5.431063 | 6.38E-05 | 0.219272 | 1.237141 | 0.775683 | 0.64785 | -0.12783 | 8 | 1.34E+08 | R | II | TG | Body | opensea | Body-opens | | rs1494385 2 |
| cg0753924 | 0.103778 | 0.716647 | 3.823986 | 0.001595 | 0.224708 | -2.03492 | 0.768536 | 0.664757 | -0.10378 | 7 | 93919388 | F | II | | IGR | opensea | IGR-opense | | rs5531540 7;9;16;36 |
| cg0504539 | 0.127683 | 0.496762 | 4.547177 | 0.000363 | 0.224708 | -0.53993 | 0.560603 | 0.43292 | -0.12768 | 18 | 6249208 | R | II | L3MBTL4 | Body | opensea | Body-opens | | rs5448058 50;26;14 |
| cg0439339 | 0.102994 | 0.507724 | 3.820772 | 0.001606 | 0.224708 | -2.04159 | 0.559221 | 0.456227 | -0.10299 | 11 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5663130 1 |
| cg1424870 | 0.127455 | 0.663672 | 2.773356 | 0.013955 | 0.224708 | -4.17455 | 0.727399 | 0.599945 | -0.12745 | 5 | 1.51E+08 | R | II | CTB-12O2.1 | Body | opensea | Body-opens | | rs5434732 11;2 |
| cg0218455 | 0.127296 | 0.163954 | 2.575829 | 0.020788 | 0.225654 | -4.55669 | 0.227602 | 0.100307 | -0.1273 | 16 | 68104456 | F | II | DUS2 | Body | opensea | Body-opens | | rs5655812 6;33 |
| cg2665875 | 0.127022 | 0.479327 | 4.056733 | 0.000987 | 0.224708 | -1.55207 | 0.542839 | 0.415816 | -0.12702 | 14 | 77666908 | F | II | TMEM63C | 5'UTR | opensea | 5'UTR-open | | rs1710545 29 |
| cg0965895 | 0.126971 | 0.322247 | 4.482504 | 0.000414 | 0.224708 | -0.67266 | 0.385733 | 0.258762 | -0.12697 | 8 | 56904259 | R | II | LYN | Body | opensea | Body-opens | | rs2667977 17;14;2 |
| cg1290696 | 0.102064 | 0.405297 | 3.808052 | 0.001648 | 0.224708 | -2.06798 | 0.456329 | 0.354265 | -0.10206 | 3 | 3807867 | R | II | | IGR | opensea | IGR-opense | | rs5648868 1 |
| cg2122365 | 0.126862 | 0.420746 | 3.095326 | 0.007216 | 0.224708 | -3.53307 | 0.484177 | 0.357315 | -0.12686 | 10 | 15873568 | R | II | FAM188A | Body | opensea | Body-opens | | rs1153725 24 |
| cg0132928 | 0.111201 | 0.390584 | 3.800257 | 0.001675 | 0.224708 | -2.08415 | 0.446184 | 0.334983 | -0.1112 | 5 | 31657134 | R | II | | IGR | opensea | IGR-opense | | rs5723343 43;38 |
| cg0047851 | 0.126661 | 0.504829 | 3.488453 | 0.003197 | 0.224708 | -2.72946 | 0.56816 | 0.441499 | -0.12666 | 2 | 1.61E+08 | R | II | ITGB6 | Body | opensea | Body-opens | | rs5569174 7;1 |
| cg0959462 | 0.126661 | 0.423343 | 4.227663 | 0.000695 | 0.224708 | -1.19809 | 0.486674 | 0.360013 | -0.12666 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:11865 | rs7610611 27;21 |
| cg1499231 | 0.103764 | 0.337581 | 3.796642 | 0.001688 | 0.224708 | -2.09164 | 0.389462 | 0.285699 | -0.10376 | 7 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0796772 | 0.100968 | 0.69164 | 3.795706 | 0.001691 | 0.224708 | -2.09359 | 0.742124 | 0.641156 | -0.10097 | 14 | 21199232 | F | II | | IGR | opensea | IGR-opense | | rs5704454 6;22;45 |
| cg0274071 | 0.126538 | 0.485289 | 3.681949 | 0.00214 | 0.224708 | -2.32941 | 0.548558 | 0.42202 | -0.12654 | 5 | 1.51E+08 | F | II | SLC36A1 | TSS1500 | opensea | TSS1500-op | | rs1390628 0;44;47 |
| cg1660483 | 0.126514 | 0.363038 | 3.201839 | 0.005791 | 0.224708 | -3.31704 | 0.426295 | 0.299781 | -0.12651 | 7 | 1.08E+08 | F | II | NRCAM | 5'UTR | opensea | 5'UTR-open | | rs5572698 0;23;28;45 |
| cg2119057 | 0.117275 | 0.396264 | 3.789778 | 0.001712 | 0.224708 | -2.10588 | 0.454901 | 0.337626 | -0.11728 | 13 | 74818020 | F | II | | IGR | opensea | IGR-opense | | rs5415324 15 |
| cg2702628 | 0.103962 | 0.528144 | 3.785659 | 0.001727 | 0.224708 | -2.11442 | 0.580125 | 0.476163 | -0.10396 | 2 | 18248362 | F | II | | IGR | opensea | IGR-opense | | rs1163842 0;14;21;25 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0054177 | 0.126487 | 0.799895 | 2.257169 | 0.038951 | 0.241391 | -5.14805 | 0.863138 | 0.736651 | -0.12649 | 2 | 3652840 | R | II | COLEC11 | TSS1500 | opensea | TSS1500-op | | rs5403612 12 |
| cg0095758 | 0.126327 | 0.523546 | 3.160388 | 0.006309 | 0.224708 | -3.4013 | 0.586709 | 0.460383 | -0.12633 | 15 | 86189830 | R | II | AKAP13 | Body | opensea | Body-opens | | rs5378322 51;27 |
| cg1967409 | 0.126286 | 0.640498 | 3.056463 | 0.007818 | 0.224708 | -3.61148 | 0.703641 | 0.577355 | -0.12629 | 15 | 90643766 | F | I | IDH2 | Body | shore | Body-shore | chr15:906 | rs1431235 16;18 |
| cg2742285 | 0.138646 | 0.738337 | 3.773527 | 0.00177 | 0.224708 | -2.13959 | 0.80766 | 0.669015 | -0.13865 | 2 | 1.06E+08 | R | II | | IGR | island | IGR-island | chr2:1058 | rs5370985 48;32;15 |
| cg2119995 | 0.126201 | 0.7515 | 5.008411 | 0.000145 | 0.224708 | 0.397027 | 0.814601 | 0.688399 | -0.1262 | 1 | 2.23E+08 | R | II | MIA3 | Body | shore | Body-shore | chr1:2227 | |
| cg0814986 | 0.109934 | 0.551176 | 3.768082 | 0.001791 | 0.224708 | -2.15088 | 0.606144 | 0.496209 | -0.10993 | 21 | 24264513 | F | II | | IGR | opensea | IGR-opense | | |
| cg0132369 | 0.126084 | 0.400033 | 3.258128 | 0.005154 | 0.224708 | -3.2023 | 0.463075 | 0.336991 | -0.12608 | 3 | 52705086 | R | II | PBRM1 | Body | opensea | Body-opens | | rs1144923 2 |
| cg0492268 | 0.100934 | 0.424667 | 3.761924 | 0.001814 | 0.224708 | -2.16365 | 0.475134 | 0.3742 | -0.10093 | 3 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs9815495 24;28 |
| cg1290638 | 0.125821 | 0.442984 | 3.556752 | 0.002775 | 0.224708 | -2.58847 | 0.505894 | 0.380073 | -0.12582 | 22 | 32599516 | F | I | RFPL2 | TSS200 | opensea | TSS200-ope | | rs5423692 17;24 |
| cg1381544 | 0.125812 | 0.540612 | 3.537674 | 0.002887 | 0.224708 | -2.62788 | 0.603518 | 0.477706 | -0.12581 | 11 | 88028475 | R | II | CTSC | Body | opensea | Body-opens | | rs5606178 21;18;8 |
| cg1861028 | 0.125716 | 0.505258 | 5.28145 | 8.51E-05 | 0.223139 | 0.942019 | 0.568116 | 0.4424 | -0.12572 | 18 | 36994604 | F | II | LINC00669 | Body | opensea | Body-opens | | rs5660288 0 |
| cg0979936 | 0.105701 | 0.677088 | 3.75466 | 0.001841 | 0.224708 | -2.17871 | 0.729938 | 0.624237 | -0.1057 | 20 | 51268046 | F | II | | IGR | opensea | IGR-opense | | rs5594264 0;36;39 |
| cg0023935 | 0.125406 | 0.508936 | 2.879392 | 0.011243 | 0.224708 | -3.96551 | 0.571639 | 0.446233 | -0.12541 | 16 | 3115133 | F | I | IL32 | TSS1500 | opensea | TSS1500-op | | rs1131244 0;28;40;41 |
| cg2382102 | 0.12532 | 0.486382 | 3.132309 | 0.006686 | 0.224708 | -3.45824 | 0.549042 | 0.423722 | -0.12532 | 13 | 99962835 | F | II | UBAC2 | Body | opensea | Body-opens | | |
| cg0601916 | 0.119867 | 0.602858 | 3.745976 | 0.001874 | 0.224708 | -2.19672 | 0.662791 | 0.542924 | -0.11987 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1138755 49;24 |
| cg0107608 | 0.124979 | 0.515442 | 3.150774 | 0.006436 | 0.224708 | -3.42081 | 0.577932 | 0.452952 | -0.12498 | 3 | 1.78E+08 | F | II | KCNMB2 | 5'UTR | opensea | 5'UTR-open | | rs5316963 0;29 |
| cg2427744 | 0.11332 | 0.574709 | 3.742266 | 0.001889 | 0.224708 | -2.20441 | 0.631369 | 0.518049 | -0.11332 | 14 | 52796897 | F | II | | IGR | opensea | IGR-opense | | rs1834354 27;43 |
| cg1647310 | 0.110363 | 0.538788 | 3.739072 | 0.001901 | 0.224708 | -2.21103 | 0.593969 | 0.483606 | -0.11036 | 5 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs5610944 1;23;30 |
| cg0717553 | 0.127795 | 0.475083 | 3.738724 | 0.001903 | 0.224708 | -2.21175 | 0.53898 | 0.411185 | -0.1278 | 16 | 15991691 | F | II | | IGR | opensea | IGR-opense | | rs5528229 0 |
| cg0192134 | 0.124611 | 0.763622 | 2.561069 | 0.021411 | 0.225654 | -4.58482 | 0.825928 | 0.701317 | -0.12461 | 1 | 1.6E+08 | R | II | FCRL6 | Body | opensea | Body-opens | | rs5448720 29;2;1 |
| cg1655686 | 0.124479 | 0.776837 | 3.829168 | 0.001578 | 0.224708 | -2.02417 | 0.839076 | 0.714597 | -0.12448 | 20 | 55029866 | F | II | CASS4 | Body | opensea | Body-opens | | rs5297707 26 |
| cg0715138 | 0.123623 | 0.516234 | 3.731447 | 0.001932 | 0.224708 | -2.22684 | 0.578045 | 0.454422 | -0.12362 | 5 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5715783 40 |
| cg0392093 | 0.124158 | 0.501421 | 3.025307 | 0.008335 | 0.224708 | -3.67417 | 0.5635 | 0.439342 | -0.12416 | 2 | 55538851 | F | II | CCDC88A | Body | opensea | Body-opens | | |
| cg1968280 | 0.124101 | 0.660128 | 3.210673 | 0.005686 | 0.224708 | -3.29906 | 0.722178 | 0.598077 | -0.1241 | 8 | 1.03E+08 | F | II | NCALD | 5'UTR | opensea | 5'UTR-open | | rs5481098 13 |
| cg1190092 | 0.144183 | 0.399392 | 3.727315 | 0.001948 | 0.224708 | -2.2354 | 0.471483 | 0.327301 | -0.14418 | 3 | 1.84E+08 | F | II | | IGR | shore | IGR-shore | chr3:1842 | rs5332715 36;44 |
| cg2359419 | 0.100768 | 0.452704 | 3.724251 | 0.001961 | 0.224708 | -2.24175 | 0.503088 | 0.40232 | -0.10077 | 2 | 45121446 | F | II | | IGR | opensea | IGR-opense | | rs5745534 0;1;20;33 |
| cg2137702 | 0.124007 | 0.7207 | 2.648268 | 0.017973 | 0.225076 | -4.41775 | 0.782703 | 0.658696 | -0.12401 | 22 | 49915303 | F | II | C22orf34 | Body | opensea | Body-opens | | rs5381209 35 |
| cg2331631 | 0.123996 | 0.521651 | 3.10725 | 0.007041 | 0.224708 | -3.50896 | 0.583649 | 0.459653 | -0.124 | 12 | 21606508 | R | II | PYROXD1 | Body | opensea | Body-opens | | |
| cg2308006 | 0.114234 | 0.670009 | 3.722233 | 0.001969 | 0.224708 | -2.24594 | 0.727125 | 0.612892 | -0.11423 | 5 | 61028303 | F | II | | IGR | opensea | IGR-opense | | rs7875043 30 |
| cg2374342 | 0.123969 | 0.712263 | 3.639206 | 0.002339 | 0.224708 | -2.41793 | 0.774248 | 0.650278 | -0.12397 | 8 | 13170741 | R | II | DLC1 | Body | opensea | Body-opens | | rs5633304 26 |
| cg2153399 | 0.123797 | 0.406091 | 2.556167 | 0.021621 | 0.225763 | -4.59414 | 0.46799 | 0.344193 | -0.1238 | 12 | 1.29E+08 | F | I | SLC15A4 | Body | opensea | Body-opens | | rs1461845 0;46 |
| cg1736572 | 0.12346 | 0.734996 | 5.226036 | 9.47E-05 | 0.223139 | 0.832063 | 0.796727 | 0.673266 | -0.12346 | 2 | 2.43E+08 | R | II | D2HGDH | Body | opensea | Body-opens | | rs1430110 49;31 |
| cg1975577 | 0.114876 | 0.47131 | 3.714675 | 0.002 | 0.224708 | -2.2616 | 0.528748 | 0.413872 | -0.11488 | 6 | 29067386 | R | II | | IGR | opensea | IGR-opense | | rs1813841 42;7 |
| cg1045613 | 0.123361 | 0.575104 | 2.842663 | 0.012119 | 0.224708 | -4.03819 | 0.636784 | 0.513423 | -0.12336 | 9 | 76985951 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5668494 0;1;5;13 |
| cg2295218 | 0.123323 | 0.550647 | 3.780399 | 0.001745 | 0.224708 | -2.12533 | 0.612308 | 0.488985 | -0.12332 | 11 | 9091264 | F | II | SCUBE2 | Body | opensea | Body-opens | | rs5540114 42 |
| cg1295889 | 0.123083 | 0.625714 | 2.638756 | 0.018321 | 0.225076 | -4.43607 | 0.687255 | 0.564172 | -0.12308 | 2 | 59444755 | F | II | LOC10192 | TSS200 | opensea | TSS200-ope | | rs5606858 0;1;8;15;20;39 |
| cg0170399 | 0.122949 | 0.787593 | 2.392324 | 0.029922 | 0.232532 | -4.90153 | 0.849068 | 0.726119 | -0.12295 | 14 | 22103310 | F | II | OR10G2 | TSS1500 | opensea | TSS1500-op | | rs2858658 0;49 |
| cg2472936 | 0.104088 | 0.373142 | 3.707061 | 0.002032 | 0.224708 | -2.27738 | 0.425186 | 0.321098 | -0.10409 | 16 | 87194677 | F | II | | IGR | opensea | IGR-opense | | rs5692535 0;5 |
| cg1533221 | 0.122931 | 0.367192 | 2.648074 | 0.01798 | 0.225076 | -4.41812 | 0.428658 | 0.305727 | -0.12293 | 13 | 28555064 | F | II | PRHOXNB | Body | island | Body-island | chr13:285 | rs5762726 11;50 |
| cg1884235 | 0.101866 | 0.456756 | 3.703095 | 0.002049 | 0.224708 | -2.2856 | 0.507688 | 0.405823 | -0.10187 | 13 | 97794052 | F | II | | IGR | opensea | IGR-opense | | rs5468635 17 |
| cg1732911 | 0.122825 | 0.59925 | 2.784452 | 0.013644 | 0.224708 | -4.15279 | 0.660662 | 0.537837 | -0.12282 | 20 | 62690171 | F | II | TCEA2 | 5'UTR | shore | 5'UTR-shor | chr20:626 | rs1418279 0;4;33;51 |
| cg1019310 | 0.132673 | 0.518197 | 3.693855 | 0.002088 | 0.224708 | -2.30475 | 0.584534 | 0.451861 | -0.13267 | 7 | 75924270 | R | II | | IGR | opensea | IGR-opense | | rs5313143 47;28;25;21;20;3 |
| cg0159357 | 0.122821 | 0.467335 | 3.285381 | 0.004871 | 0.224708 | -3.14661 | 0.528745 | 0.405925 | -0.12282 | 17 | 60818877 | R | II | MARCH10 | Body | opensea | Body-opens | | |
| cg0207322 | 0.122718 | 0.62739 | 3.562086 | 0.002744 | 0.224708 | -2.57745 | 0.688749 | 0.566032 | -0.12272 | 1 | 3458304 | R | II | MEGF6 | Body | shore | Body-shore | chr1:3459 | rs5357245 49;41;1 |
| cg0229647 | 0.122683 | 0.522292 | 4.062105 | 0.000976 | 0.224708 | -1.54094 | 0.583634 | 0.460951 | -0.12268 | 8 | 1.04E+08 | R | II | AZIN1-AS1 | Body | opensea | Body-opens | | rs5525803 32;10 |
| cg0320315 | 0.122633 | 0.826888 | 2.66068 | 0.01753 | 0.225076 | -4.39379 | 0.888205 | 0.765572 | -0.12263 | 7 | 1.33E+08 | F | II | EXOC4 | Body | opensea | Body-opens | | rs5524197 0;18;19 |
| cg0906943 | 0.122583 | 0.524208 | 3.045256 | 0.008 | 0.224708 | -3.63405 | 0.5855 | 0.462917 | -0.12258 | 5 | 80584068 | F | II | CKMT2-AS1 | Body | opensea | Body-opens | | rs5318956 5;42 |
| cg0545138 | 0.122583 | 0.435381 | 4.459044 | 0.000434 | 0.224708 | -0.72088 | 0.496672 | 0.37409 | -0.12258 | 3 | 1.98E+08 | R | II | LRCH3 | Body | shore | Body-shore | chr3:1975 | |
| cg0795386 | 0.122434 | 0.436133 | 5.823003 | 3.04E-05 | 0.197233 | 1.997493 | 0.49735 | 0.374916 | -0.12243 | 14 | 20483579 | F | II | OR4K14 | TSS1500 | opensea | TSS1500-op | | rs7450995 1;9;48;51 |
| cg1800332 | 0.122398 | 0.526877 | 4.225594 | 0.000698 | 0.224708 | -1.20237 | 0.588075 | 0.465678 | -0.1224 | 12 | 32138012 | F | II | KIAA1551 | Body | opensea | Body-opens | | rs7694315 15;31;46 |
| cg1415343 | 0.122369 | 0.413951 | 3.753117 | 0.001847 | 0.224708 | -2.18191 | 0.475136 | 0.352766 | -0.12237 | 5 | 1.19E+08 | R | I | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs7610611 46;40 |
| cg1400827 | 0.12212 | 0.580268 | 3.377461 | 0.004025 | 0.224708 | -2.9579 | 0.641328 | 0.519208 | -0.12212 | 12 | 68845785 | R | II | LOC10050 | TSS1500 | opensea | TSS1500-op | | rs5639455 12 |
| cg1692589 | 0.109687 | 0.591243 | 3.682187 | 0.002139 | 0.224708 | -2.32892 | 0.646086 | 0.536399 | -0.10969 | 13 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5711842 1 |
| cg2095731 | 0.121981 | 0.480526 | 3.364618 | 0.004134 | 0.224708 | -2.98427 | 0.541517 | 0.419536 | -0.12198 | 2 | 38976409 | F | II | SFRS7 | Body | shore | Body-shore | chr2:3897 | |
| cg1961863 | 0.351387 | 0.390421 | 3.681716 | 0.002141 | 0.224708 | -2.3299 | 0.566114 | 0.214727 | -0.35139 | 17 | 69085963 | R | II | | IGR | opensea | IGR-opense | | rs2012264 2;1 |
| cg0346532 | 0.121932 | 0.353462 | 3.799707 | 0.001677 | 0.224708 | -2.08529 | 0.414428 | 0.292496 | -0.12193 | 6 | 32823078 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282 | |
| cg1778568 | 0.121823 | 0.442028 | 3.344118 | 0.004313 | 0.224708 | -3.02632 | 0.50294 | 0.381116 | -0.12182 | 18 | 21322159 | F | II | LAMA3 | Body | opensea | Body-opens | | rs5669774 26 |
| cg0023417 | 0.121691 | 0.599052 | 3.382042 | 0.003987 | 0.224708 | -2.94849 | 0.659897 | 0.538206 | -0.12169 | 5 | 1.57E+08 | R | II | ITK | Body | opensea | Body-opens | | rs1396556 7;1 |
| cg0172007 | 0.121514 | 0.496275 | 4.177524 | 0.00077 | 0.224708 | -1.30183 | 0.557032 | 0.435518 | -0.12151 | 12 | 31835278 | R | II | AMN1 | Body | opensea | Body-opens | | |
| cg0613436 | 0.121407 | 0.635203 | 3.337169 | 0.004376 | 0.224708 | -3.04057 | 0.695906 | 0.574499 | -0.12141 | 3 | 1.25E+08 | F | II | SLC12A8 | Body | opensea | Body-opens | | rs5506197 1;5;13;48 |
| cg1498181 | 0.114482 | 0.592036 | 3.668772 | 0.0022 | 0.224708 | -2.35671 | 0.649277 | 0.534795 | -0.11448 | 7 | 96597711 | F | II | | IGR | opensea | IGR-opense | | rs5549519 22 |
| cg1700564 | 0.121372 | 0.564159 | 3.708538 | 0.002026 | 0.224708 | -2.27432 | 0.624845 | 0.503473 | -0.12137 | 7 | 23304848 | R | II | GPNMB | Body | opensea | Body-opens | | |
| cg0313489 | 0.101095 | 0.637794 | 3.665789 | 0.002213 | 0.224708 | -2.36289 | 0.688341 | 0.587246 | -0.10109 | 7 | 66343288 | R | II | | IGR | opensea | IGR-opense | | rs5752921 1 |
| cg2256827 | 0.121227 | 0.437832 | 2.784727 | 0.013636 | 0.224708 | -4.15225 | 0.498446 | 0.377219 | -0.12123 | 3 | 69811867 | R | II | MITF | TSS1500 | opensea | TSS1500-op | | rs2014262 37 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2685595 | 0.121197 | 0.534738 | 4.337639 | 0.000555 | 0.224708 | -0.97092 | 0.595337 | 0.47414 | -0.1212 | 8 | 93020657 | F | II | RUNX1T1 | Body | opensea | Body-opens | | rs5326829 14 |
| cg2581860 | 0.107958 | 0.553176 | 3.658974 | 0.002245 | 0.224708 | -2.377 | 0.607155 | 0.499197 | -0.10796 | 2 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs1379590 51 |
| cg0941579 | 0.116012 | 0.483807 | 3.657801 | 0.00225 | 0.224708 | -2.37943 | 0.541813 | 0.425801 | -0.11601 | 3 | 23800187 | F | II | | IGR | opensea | IGR-opense | | rs5727585 4;17 |
| cg1888038 | 0.121126 | 0.66014 | 4.862354 | 0.000193 | 0.224708 | 0.102362 | 0.720703 | 0.599577 | -0.12113 | 6 | 32365113 | R | II | BTNL2 | Body | opensea | Body-opens | | rs1178304 40;29;24;22;15;2;1 |
| cg2314547 | 0.121074 | 0.371817 | 3.127715 | 0.006749 | 0.224708 | -3.46754 | 0.432354 | 0.31128 | -0.12107 | 3 | 66522924 | F | II | LRIG1 | Body | opensea | Body-opens | | rs5344157 1;23 |
| cg2540564 | 0.121022 | 0.580172 | 3.756669 | 0.001833 | 0.224708 | -2.17454 | 0.640683 | 0.519662 | -0.12102 | 2 | 2.18E+08 | F | II | DIRC3 | Body | opensea | Body-opens | | rs5431954 11;22 |
| cg1587459 | 0.103145 | 0.515548 | 3.649092 | 0.002291 | 0.224708 | -2.39746 | 0.56712 | 0.463975 | -0.10314 | 16 | 29032168 | R | II | | IGR | opensea | IGR-opense | | rs1454786 1 |
| cg1458518 | 0.121019 | 0.400551 | 3.349867 | 0.004262 | 0.224708 | -3.01453 | 0.46106 | 0.340041 | -0.12102 | 12 | 1.05E+08 | F | II | CHST11 | Body | opensea | Body-opens | | rs5773223 1;27;35 |
| cg0418843 | 0.120959 | 0.515451 | 4.005895 | 0.001096 | 0.224708 | -1.6575 | 0.57593 | 0.454971 | -0.12096 | 20 | 24500288 | F | II | SYNDIG1 | 5'UTR | opensea | 5'UTR-open | | rs5491396 1 |
| cg1295081 | 0.120898 | 0.206112 | 3.648305 | 0.002295 | 0.224708 | -2.39909 | 0.266561 | 0.145662 | -0.1209 | 7 | 1198977 | F | I | ZFAND2A | 5'UTR | island | 5'UTR-islan | chr7:11198 | rs5967624 8;31 |
| cg1322110 | 0.120834 | 0.803929 | 3.849899 | 0.001512 | 0.224708 | -1.98116 | 0.864346 | 0.743511 | -0.12083 | 12 | 52846088 | R | II | KRT6B | TSS200 | opensea | TSS200-ope | | rs1451551 50;46;2 |
| cg2670300 | 0.120798 | 0.52028 | 2.942515 | 0.00988 | 0.224708 | -3.83996 | 0.580679 | 0.459881 | -0.1208 | 15 | 55834750 | F | II | PYGO1 | 3'UTR | opensea | 3'UTR-open | | rs1849950 11;18;19 |
| cg1203661 | 0.120759 | 0.470584 | 2.990717 | 0.00895 | 0.224708 | -3.74359 | 0.530964 | 0.410205 | -0.12076 | 4 | 80929171 | R | II | ANTXR2 | Body | opensea | Body-opens | | rs5659504 28;2;1 |
| cg2590242 | 0.120688 | 0.579656 | 3.689538 | 0.002107 | 0.224708 | -2.31369 | 0.64 | 0.519312 | -0.12069 | 12 | 94773488 | R | II | CEP83 | Body | opensea | Body-opens | | |
| cg0458593 | 0.12064 | 0.641353 | 4.227151 | 0.000696 | 0.224708 | -1.19915 | 0.701673 | 0.581033 | -0.12064 | 14 | 1.02E+08 | R | II | MIR376B | TSS1500 | opensea | TSS1500-op | | rs7270057 1 |
| cg0871134 | 0.120619 | 0.481012 | 3.347386 | 0.004284 | 0.224708 | -3.01962 | 0.541322 | 0.420703 | -0.12062 | 9 | 1.24E+08 | F | II | TRAF1 | Body | opensea | Body-opens | | rs1850025 1;34 |
| cg1422675 | 0.120415 | 0.612572 | 5.498698 | 5.61E-05 | 0.219272 | 1.369695 | 0.672779 | 0.552364 | -0.12042 | 5 | 1.08E+08 | F | II | FBXL17 | Body | opensea | Body-opens | | rs5742852 0;2;18;19 |
| cg2489933 | 0.120403 | 0.455581 | 3.217401 | 0.005608 | 0.224708 | -3.28536 | 0.515783 | 0.39538 | -0.1204 | 3 | 1.68E+08 | F | II | GOLIM4 | Body | opensea | Body-opens | | rs5725839 31 |
| cg1665179 | 0.115482 | 0.44306 | 3.617238 | 0.002448 | 0.224708 | -2.4634 | 0.500801 | 0.385319 | -0.11548 | 18 | 715830 | F | II | | IGR | shelf | IGR-shelf | chr18:712 | rs5305979 0 |
| cg0174218 | 0.12033 | 0.53084 | 3.186691 | 0.005975 | 0.224708 | -3.34786 | 0.591005 | 0.470675 | -0.12033 | 9 | 6566568 | F | II | GLDC | Body | opensea | Body-opens | | rs1821660 7;34;38;48 |
| cg1941280 | 0.102095 | 0.605677 | 3.614433 | 0.002462 | 0.224708 | -2.4692 | 0.656725 | 0.55463 | -0.10209 | 1 | 69916760 | F | II | | IGR | opensea | IGR-opense | | rs1503112 22;23;51 |
| cg1822589 | 0.113858 | 0.433692 | 3.613754 | 0.002465 | 0.224708 | -2.4706 | 0.490621 | 0.376763 | -0.11386 | 6 | 80087320 | F | II | | IGR | opensea | IGR-opense | | rs1410107 1;41 |
| cg1154971 | 0.120275 | 0.52597 | 2.653727 | 0.017777 | 0.225076 | -4.40722 | 0.586107 | 0.465832 | -0.12028 | 2 | 55001373 | F | II | EML6 | Body | opensea | Body-opens | | rs5554022 0;32 |
| cg0216474 | 0.127796 | 0.396393 | 3.613128 | 0.002469 | 0.224708 | -2.4719 | 0.460291 | 0.332495 | -0.1278 | 6 | 76206048 | F | II | | IGR | opensea | IGR-opense | | rs1172187 1 |
| cg1316611 | 0.125656 | 0.458589 | 3.612198 | 0.002473 | 0.224708 | -2.47382 | 0.521417 | 0.395761 | -0.12566 | 3 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5403381 12 |
| cg0413740 | 0.104059 | 0.390448 | 3.610668 | 0.002481 | 0.224708 | -2.47699 | 0.442477 | 0.338419 | -0.10406 | 14 | 62414451 | R | II | | IGR | opensea | IGR-opense | | rs3750408 16 |
| cg0278141 | 0.108035 | 0.467811 | 3.607915 | 0.002495 | 0.224708 | -2.48269 | 0.521829 | 0.413794 | -0.10804 | 6 | 27302893 | F | II | | IGR | opensea | IGR-opense | | rs5355633 0;26 |
| cg0115452 | 0.120199 | 0.679478 | 2.753247 | 0.014537 | 0.224708 | -4.21391 | 0.739577 | 0.619379 | -0.1202 | 6 | 1.52E+08 | F | II | AKAP12 | Body | shore | Body-shore | chr6:1516 | rs1422944 0;23 |
| cg1387843 | 0.102113 | 0.681072 | 3.606134 | 0.002505 | 0.224708 | -2.48637 | 0.732128 | 0.630015 | -0.10211 | 12 | 66409494 | F | II | | IGR | opensea | IGR-opense | | rs5509891 0;23;37 |
| cg0466162 | 0.10317 | 0.645958 | 3.605529 | 0.002508 | 0.224708 | -2.48762 | 0.697543 | 0.594373 | -0.10317 | 12 | 28174838 | R | II | | IGR | opensea | IGR-opense | | rs5546425 40;23 |
| cg1931836 | 0.188241 | 0.642707 | 3.602957 | 0.002521 | 0.224708 | -2.49294 | 0.736827 | 0.548587 | -0.18824 | 6 | 55774999 | R | II | | IGR | opensea | IGR-opense | | rs5306838 19 |
| cg0865866 | 0.120045 | 0.688609 | 3.417919 | 0.003701 | 0.224708 | -2.87474 | 0.748631 | 0.628586 | -0.12004 | 12 | 1.09E+08 | F | II | SVOP | Body | opensea | Body-opens | | rs5665863 19;45 |
| cg0024209 | 0.114414 | 0.517534 | 3.600466 | 0.002534 | 0.224708 | -2.49809 | 0.574741 | 0.460327 | -0.11441 | 1 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs5608731 0;21;26 |
| cg1448406 | 0.125739 | 0.56639 | 3.600164 | 0.002536 | 0.224708 | -2.49872 | 0.629259 | 0.50352 | -0.12574 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1753736 | 0.115014 | 0.584081 | 3.600126 | 0.002536 | 0.224708 | -2.4988 | 0.641588 | 0.526574 | -0.11501 | 4 | 75260310 | F | II | | IGR | opensea | IGR-opense | | rs5771241 1;2;22;27 |
| cg0530060 | 0.133225 | 0.630232 | 3.59934 | 0.00254 | 0.224708 | -2.50042 | 0.696844 | 0.56362 | -0.13322 | 12 | 52235472 | R | II | | IGR | opensea | IGR-opense | | rs1258068 14;1 |
| cg1527215 | 0.120026 | 0.474538 | 3.051983 | 0.00789 | 0.224708 | -3.62051 | 0.534551 | 0.414525 | -0.12003 | 4 | 38525916 | F | II | LINC01258 | TSS1500 | opensea | TSS1500-op | | rs7313995 38 |
| cg0136902 | 0.119995 | 0.468382 | 3.248575 | 0.005257 | 0.224708 | -3.2218 | 0.52838 | 0.408385 | -0.12 | 10 | 11133829 | R | II | CELF2 | Body | opensea | Body-opens | | rs1147858 37;8 |
| cg1788004 | 0.119328 | 0.671245 | 3.597517 | 0.00255 | 0.224708 | -2.50419 | 0.730909 | 0.611581 | -0.11933 | 12 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1413333 36;31;28 |
| cg0726797 | 0.119916 | 0.461702 | 3.188491 | 0.005953 | 0.224708 | -3.3442 | 0.52166 | 0.401744 | -0.11992 | 8 | 62539945 | F | II | ASPH | Body | opensea | Body-opens | | rs1920400 0;24;27;51 |
| cg0701959 | 0.119877 | 0.457177 | 3.25064 | 0.005235 | 0.224708 | -3.21758 | 0.517115 | 0.397239 | -0.11988 | 17 | 34207481 | R | II | CCL5 | TSS200 | opensea | TSS200-ope | | rs5359131 1 |
| cg0449163 | 0.119785 | 0.533148 | 3.270007 | 0.005029 | 0.224708 | -3.17803 | 0.593041 | 0.473255 | -0.11979 | 2 | 1.74E+08 | F | II | ZAK | Body | opensea | Body-opens | | rs1116036 0;21 |
| cg2437621 | 0.119674 | 0.49944 | 3.035146 | 0.008168 | 0.224708 | -3.65439 | 0.559277 | 0.439603 | -0.11967 | 19 | 38918135 | R | II | RASGRP4 | TSS1500 | opensea | TSS1500-op | | rs5374606 22;8;2 |
| cg0205252 | 0.113698 | 0.279964 | 3.59211 | 0.002579 | 0.224708 | -2.51538 | 0.336813 | 0.223115 | -0.1137 | 18 | 61662355 | F | II | | IGR | opensea | IGR-opense | | rs5280166 0;1;14 |
| cg1828745 | 0.109493 | 0.451511 | 3.590317 | 0.002588 | 0.224708 | -2.51908 | 0.506258 | 0.396765 | -0.10949 | 6 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs5434158 19;12;2 |
| cg1017446 | 0.124973 | 0.658007 | 3.587024 | 0.002606 | 0.224708 | -2.52589 | 0.720493 | 0.59552 | -0.12497 | 8 | 11739341 | F | II | | IGR | opensea | IGR-opense | | rs1831214 21;29;47 |
| cg0013949 | 0.119635 | 0.72023 | 4.00045 | 0.001108 | 0.224708 | -1.66879 | 0.780048 | 0.660413 | -0.11963 | 3 | 52731124 | F | II | GLT8D1 | Body | opensea | Body-opens | | |
| cg1333384 | 0.146129 | 0.604235 | 3.583105 | 0.002627 | 0.224708 | -2.534 | 0.677299 | 0.53117 | -0.14613 | 13 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs7764741 31 |
| cg2321105 | 0.119629 | 0.453943 | 3.109822 | 0.007003 | 0.224708 | -3.50376 | 0.513758 | 0.394128 | -0.11963 | 3 | 1.68E+08 | F | II | EGFEM1P | Body | opensea | Body-opens | | rs5340285 0;26;34;41 |
| cg1403406 | 0.112506 | 0.512391 | 3.580677 | 0.00264 | 0.224708 | -2.53902 | 0.568644 | 0.456138 | -0.11251 | 22 | 39282561 | R | II | | IGR | opensea | IGR-opense | | rs5630978 9 |
| cg1812492 | 0.103991 | 0.359764 | 3.577177 | 0.00266 | 0.224708 | -2.54625 | 0.411759 | 0.307768 | -0.10399 | 5 | 73294360 | F | II | | IGR | opensea | IGR-opense | | |
| cg2208246 | 0.119413 | 0.605568 | 3.131002 | 0.006704 | 0.224708 | -3.46089 | 0.665274 | 0.545862 | -0.11941 | 14 | 24540415 | R | II | CPNE6 | TSS1500 | opensea | TSS1500-op | | rs5368055 49;17;7;2 |
| cg0750432 | 0.119396 | 0.566217 | 3.594219 | 0.002567 | 0.224708 | -2.51101 | 0.625915 | 0.506519 | -0.1194 | 2 | 98860544 | F | II | VWA3B | Body | opensea | Body-opens | | rs7773337 18;29 |
| cg1663493 | 0.119383 | 0.559625 | 3.041793 | 0.008057 | 0.224708 | -3.64102 | 0.619316 | 0.499933 | -0.11938 | 10 | 35033892 | F | II | PARD3 | Body | opensea | Body-opens | | rs1881855 1 |
| cg1005317 | 0.119334 | 0.526166 | 3.250818 | 0.005233 | 0.224708 | -3.21722 | 0.585833 | 0.466499 | -0.11933 | 20 | 48924790 | R | II | LINC01270 | Body | opensea | Body-opens | | rs5403083 48 |
| cg0936781 | 0.119271 | 0.595166 | 3.013842 | 0.008534 | 0.224708 | -3.6972 | 0.654802 | 0.535531 | -0.11927 | 21 | 30463648 | R | II | MAP3K7CL | TSS1500 | opensea | TSS1500-op | | rs8131128 25;17;1 |
| cg0406541 | 0.119213 | 0.55413 | 3.930209 | 0.001281 | 0.224708 | -1.81452 | 0.613737 | 0.494524 | -0.11921 | 3 | 62799139 | R | II | CADPS | Body | opensea | Body-opens | | rs5713159 45;31;19;7;2 |
| cg1583730 | 0.140129 | 0.589742 | 3.570344 | 0.002698 | 0.224708 | -2.56038 | 0.659807 | 0.519678 | -0.14013 | 6 | 32427751 | F | II | | IGR | opensea | IGR-opense | | rs3771676 1;7;38 |
| cg2672640 | 0.119197 | 0.756618 | 3.722539 | 0.001968 | 0.224708 | -2.2453 | 0.816217 | 0.69702 | -0.1192 | 2 | 46948107 | R | II | SOCS5 | 5'UTR | opensea | 5'UTR-open | | rs1189315 34;1 |
| cg1053671 | 0.119106 | 0.531696 | 3.201755 | 0.005792 | 0.224708 | -3.31722 | 0.591249 | 0.472143 | -0.11911 | 2 | 86089041 | R | II | ST3GAL5 | Body | opensea | Body-opens | | rs1436850 1 |
| cg0993190 | 0.119052 | 0.491956 | 3.067551 | 0.007641 | 0.224708 | -3.58913 | 0.551482 | 0.43243 | -0.11905 | 6 | 74160206 | F | II | C6orf150 | Body | shore | Body-shore | chr6:7416 | rs5778603 46 |
| cg0219385 | 0.119022 | 0.497294 | 3.568925 | 0.002706 | 0.224708 | -2.56331 | 0.556805 | 0.437783 | -0.11902 | 18 | 77960683 | R | II | PARD6G | Body | opensea | Body-opens | | rs1500228 46 |
| cg0288308 | 0.103795 | 0.508035 | 3.566155 | 0.002721 | 0.224708 | -2.56904 | 0.559932 | 0.456137 | -0.10379 | 10 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1436066 1 |
| cg1407444 | 0.118952 | 0.798169 | 2.559666 | 0.021471 | 0.225654 | -4.58749 | 0.857645 | 0.738692 | -0.11895 | 5 | 1.49E+08 | F | II | ABLIM3 | Body | opensea | Body-opens | | rs1429891 0;1;37 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2082131 | 0.118789 | 0.490718 | 3.632303 | 0.002372 | 0.224708 | -2.43222 | 0.550112 | 0.431324 | -0.11879 | 2 | 10950732 | F | II | PDIA6 | Body | shore | Body-shore | chr2:1095 | rs1136054 | 10 |
| cg1776538 | 0.118781 | 0.58248 | 3.18025 | 0.006055 | 0.224708 | -3.36095 | 0.64187 | 0.52309 | -0.11878 | 12 | 1.17E+08 | F | II | FBXW8 | Body | opensea | Body-open: | | rs1172971 | 8 |
| cg0019358 | 0.118683 | 0.483295 | 2.85877 | 0.011727 | 0.224708 | -4.00635 | 0.542636 | 0.423953 | -0.11868 | 1 | 77879926 | F | II | AK5 | Body | opensea | Body-open: | | rs7861829 | 0;1;50 |
| cg0644219 | 0.118619 | 0.365143 | 3.959921 | 0.001205 | 0.224708 | -1.75287 | 0.424452 | 0.305833 | -0.11862 | 1 | 92414344 | F | II | BRDT | TSS1500 | shore | TSS1500-sh | chr1:9241 | | |
| cg0500709 | 0.11861 | 0.592339 | 3.338881 | 0.00436 | 0.224708 | -3.03706 | 0.651644 | 0.533034 | -0.11861 | 16 | 77322779 | R | II | ADAMTS18 | Body | opensea | Body-open: | | rs1164331 | 24;1 |
| cg1870074 | 0.118583 | 0.3955 | 3.105124 | 0.007071 | 0.224708 | -3.51326 | 0.454792 | 0.336208 | -0.11858 | 12 | 1.13E+08 | R | II | NAA25 | Body | opensea | Body-open: | | | |
| cg1069440 | 0.11856 | 0.53022 | 3.91923 | 0.00131 | 0.224708 | -1.8373 | 0.5895 | 0.47094 | -0.11856 | 7 | 1.44E+08 | F | II | OR2F1 | TSS1500 | opensea | TSS1500-o | | rs1811382 | 1;23;51 |
| cg0364500 | 0.118551 | 0.500596 | 3.011614 | 0.008573 | 0.224708 | -3.70168 | 0.559871 | 0.44132 | -0.11855 | 7 | 1.02E+08 | F | II | FBXL13 | Body | opensea | Body-open: | | rs5554587 | 35;46 |
| cg1182179 | 0.107919 | 0.393298 | 3.555977 | 0.002779 | 0.224708 | -2.59007 | 0.447257 | 0.339339 | -0.10792 | 22 | 47611604 | R | II | | IGR | shelf | IGR-shelf | chr22:476 | rs1923492 | 21;2;1 |
| cg1743667 | 0.118484 | 0.532674 | 3.257154 | 0.005165 | 0.224708 | -3.20428 | 0.591916 | 0.473432 | -0.11848 | 4 | 1.06E+08 | F | II | ARHGEF38 | Body | opensea | Body-open: | | rs1405735 | 8;49;50 |
| cg2760128 | 0.118396 | 0.580377 | 2.310411 | 0.035126 | 0.237348 | -5.05176 | 0.639575 | 0.521178 | -0.1184 | 2 | 39492724 | F | II | MAP4K3 | Body | opensea | Body-open: | | rs5345208 | 7 |
| cg0679569 | 0.11831 | 0.663268 | 2.459423 | 0.026211 | 0.229328 | -4.7767 | 0.722423 | 0.604113 | -0.11831 | 16 | 50648887 | R | II | NKD1 | Body | opensea | Body-open: | | rs5569132 | 39;1 |
| cg0038025 | 0.118277 | 0.783425 | 2.48378 | 0.024975 | 0.228296 | -4.73102 | 0.842564 | 0.724287 | -0.11828 | 7 | 48465916 | R | II | ABCA13 | Body | opensea | Body-open: | | rs7561903 | 33 |
| cg1625865 | 0.1182 | 0.504943 | 2.816914 | 0.012772 | 0.224708 | -4.08898 | 0.564043 | 0.445843 | -0.1182 | 3 | 29338542 | F | II | RBMS3 | Body | opensea | Body-open: | | rs8023379 | 0;27;51 |
| cg1492584 | 0.127961 | 0.448771 | 3.550885 | 0.002809 | 0.224708 | -2.60059 | 0.512751 | 0.384791 | -0.12796 | 21 | 35790214 | F | II | | IGR | opensea | IGR-opense | | rs5487386 | 6;14;32;34 |
| cg0983683 | 0.118141 | 0.561284 | 3.571669 | 0.00269 | 0.224708 | -2.55764 | 0.620354 | 0.502213 | -0.11814 | 18 | 77723602 | R | II | HSBP1L1 | TSS1500 | shore | TSS1500-sh | chr18:777 | rs5501489 | 21;4 |
| cg0979028 | 0.118129 | 0.668254 | 3.136583 | 0.006627 | 0.224708 | -3.44958 | 0.727319 | 0.60919 | -0.11813 | 7 | 1.24E+08 | R | II | LOC101928 | Body | opensea | Body-open: | | rs7843655 | 24;1 |
| cg0267253 | 0.118083 | 0.579191 | 3.343797 | 0.004316 | 0.224708 | -3.02698 | 0.638233 | 0.520149 | -0.11808 | 11 | 1.21E+08 | F | II | GRIK4 | Body | opensea | Body-open: | | rs1402963 | 0;6 |
| cg0501795 | 0.118026 | 0.564838 | 3.104168 | 0.007085 | 0.224708 | -3.5152 | 0.623851 | 0.505825 | -0.11803 | 3 | 1.51E+08 | F | II | GPR87 | 5'UTR | opensea | 5'UTR-open | | rs1192614 | 31;36 |
| cg1723928 | 0.104934 | 0.710805 | 3.546917 | 0.002832 | 0.224708 | -2.60879 | 0.763272 | 0.658338 | -0.10493 | 17 | 29911092 | R | II | | IGR | opensea | IGR-opense | | rs1882077 | 1 |
| cg1268281 | 0.117997 | 0.45417 | 2.891762 | 0.010962 | 0.224708 | -3.94097 | 0.513169 | 0.395172 | -0.118 | 2 | 1.69E+08 | R | II | STK39 | Body | opensea | Body-open: | | rs1861657 | 42 |
| cg2380665 | 0.117954 | 0.48803 | 3.636285 | 0.002353 | 0.224708 | -2.42398 | 0.547008 | 0.429053 | -0.11795 | 7 | 1.11E+08 | R | II | IMMP2L | Body | opensea | Body-open: | | rs1150644 | 46 |
| cg2399336 | 0.117826 | 0.452816 | 3.356506 | 0.004204 | 0.224708 | -3.00091 | 0.511729 | 0.393903 | -0.11783 | 14 | 50086035 | R | II | MGAT2 | TSS1500 | shore | TSS1500-sh | chr14:500 | rs1482780 | 47 |
| cg1100313 | 0.117699 | 0.457593 | 3.141425 | 0.006561 | 0.224708 | -3.43976 | 0.516442 | 0.398743 | -0.1177 | 1 | 1.59E+08 | R | II | AIM2 | 5'UTR | opensea | 5'UTR-open | | rs4126445 | 15;10;2;1 |
| cg2253472 | 0.106899 | 0.527086 | 3.539665 | 0.002875 | 0.224708 | -2.62377 | 0.580535 | 0.473636 | -0.1069 | 13 | 78358711 | F | II | | IGR | opensea | IGR-opense | | rs1870320 | 1;37 |
| cg1923518 | 0.117613 | 0.4156 | 3.288995 | 0.004835 | 0.224708 | -3.13922 | 0.474407 | 0.356793 | -0.11761 | 3 | 1.56E+08 | R | II | KCNAB1-AS | TSS200 | opensea | TSS200-ope | | | |
| cg0245852 | 0.103838 | 0.630432 | 3.537776 | 0.002886 | 0.224708 | -2.62767 | 0.682351 | 0.578513 | -0.10384 | 14 | 24166813 | R | II | | IGR | opensea | IGR-opense | | rs6071922 | 50;35;1 |
| cg1237640 | 0.117523 | 0.452583 | 3.240639 | 0.005344 | 0.224708 | -3.23799 | 0.511344 | 0.393821 | -0.11752 | 14 | 21236306 | R | II | EDDM3B | TSS1500 | opensea | TSS1500-o | | rs1144170 | 33;19;1 |
| cg1114618 | 0.110082 | 0.663478 | 3.537552 | 0.002888 | 0.224708 | -2.62813 | 0.718519 | 0.608437 | -0.11008 | 15 | 39593169 | F | II | | IGR | opensea | IGR-opense | | rs3708730 | 1;26 |
| cg1976647 | 0.117488 | 0.368341 | 3.00675 | 0.00866 | 0.224708 | -3.71144 | 0.427085 | 0.309597 | -0.11749 | 11 | 2322802 | R | II | C11orf21 | Body | opensea | Body-open: | | rs1422473 | 22;1 |
| cg0448010 | 0.117477 | 0.775002 | 2.627521 | 0.01874 | 0.225209 | -4.45769 | 0.83374 | 0.716263 | -0.11748 | 5 | 72934606 | F | II | RGNEF | 5'UTR | opensea | 5'UTR-open | | rs5649205 | 17;28;32;46 |
| cg1405869 | 0.104953 | 0.577016 | 3.536365 | 0.002895 | 0.224708 | -2.63058 | 0.629492 | 0.524539 | -0.10495 | 13 | 63200547 | R | II | | IGR | opensea | IGR-opense | | rs5633557 | 22 |
| cg2445215 | 0.117453 | 0.503768 | 3.203825 | 0.005767 | 0.224708 | -3.313 | 0.562495 | 0.445041 | -0.11745 | 2 | 12433867 | R | II | LOC10050 | Body | opensea | Body-open: | | rs5563541 | 1 |
| cg0322432 | 0.117447 | 0.531127 | 3.016576 | 0.008486 | 0.224708 | -3.69171 | 0.589851 | 0.472404 | -0.11745 | 3 | 1.57E+08 | R | II | CCNL1 | TSS1500 | shore | TSS1500-sh | chr3:1568 | rs5757058 | 46 |
| cg0747531 | 0.117398 | 0.664825 | 2.890233 | 0.010997 | 0.224708 | -3.944 | 0.723524 | 0.606126 | -0.1174 | 5 | 54717280 | R | II | SKIV2L2 | Body | opensea | Body-open: | | rs3716455 | 44 |
| cg2249596 | 0.116912 | 0.645868 | 3.531041 | 0.002927 | 0.224708 | -2.64157 | 0.704324 | 0.587411 | -0.11691 | 2 | 5622155 | R | II | | IGR | opensea | IGR-opense | | rs5974547 | 20;1 |
| cg0074614 | 0.120102 | 0.604945 | 3.529322 | 0.002937 | 0.224708 | -2.64512 | 0.664996 | 0.544893 | -0.1201 | 20 | 39551744 | F | II | | IGR | opensea | IGR-opense | | rs1864539 | 47 |
| cg2759388 | 0.117357 | 0.736994 | 2.66792 | 0.017275 | 0.225017 | -4.3798 | 0.795672 | 0.678315 | -0.11736 | 4 | 84194117 | R | II | COQ2 | Body | opensea | Body-open: | | rs5528840 | 4 |
| cg1974334 | 0.10527 | 0.547638 | 3.527846 | 0.002946 | 0.224708 | -2.64817 | 0.600272 | 0.495003 | -0.10527 | 2 | 317938 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs7792054 | 29;4;1 |
| cg0854672 | 0.117311 | 0.523845 | 3.548667 | 0.002822 | 0.224708 | -2.60517 | 0.5825 | 0.465189 | -0.11731 | 10 | 67705174 | F | II | CTNNA3 | Body | opensea | Body-open: | | rs5763577 | 1;33 |
| cg0141092 | 0.117261 | 0.664043 | 3.364822 | 0.004132 | 0.224708 | -2.98385 | 0.722673 | 0.605413 | -0.11726 | 2 | 1.92E+08 | R | II | MYO1B | Body | opensea | Body-open: | | rs1488319 | 51;31 |
| cg2753727 | 0.117238 | 0.394641 | 3.349786 | 0.004263 | 0.224708 | -3.0147 | 0.45326 | 0.336021 | -0.11724 | 3 | 1.48E+08 | R | II | AGTR1 | 5'UTR | opensea | 5'UTR-open | | rs5446051 | 50;35 |
| cg1025633 | 0.117213 | 0.65397 | 3.496339 | 0.003145 | 0.224708 | -2.71319 | 0.712576 | 0.595363 | -0.11721 | 17 | 76801775 | F | II | USP36 | Body | shelf | Body-shelf | chr17:767 | rs1127790 | 9;24;33 |
| cg0842867 | 0.11718 | 0.414071 | 3.671821 | 0.002186 | 0.224708 | -2.35039 | 0.472661 | 0.355481 | -0.11718 | 3 | 1.77E+08 | F | II | LINC00578 | Body | opensea | Body-open: | | rs1506197 | 9;32 |
| cg0427662 | 0.117046 | 0.378392 | 2.876872 | 0.011301 | 0.224708 | -3.97051 | 0.436915 | 0.319869 | -0.11705 | 17 | 57918500 | F | II | MIR21 | TSS200 | opensea | TSS200-ope | | rs5586536 | 0;9;25;28;28;33 |
| cg0625562 | 0.106371 | 0.676299 | 3.513719 | 0.003034 | 0.224708 | -2.67733 | 0.729484 | 0.623113 | -0.10637 | 5 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | | rs1465923 | 24;43;48 |
| cg1460992 | 0.101683 | 0.469301 | 3.5131 | 0.003038 | 0.224708 | -2.67861 | 0.520142 | 0.418459 | -0.10168 | 1 | 2.2E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0743670 | 0.117004 | 0.621476 | 3.129553 | 0.006724 | 0.224708 | -3.46382 | 0.679978 | 0.562974 | -0.117 | 10 | 88717623 | R | II | MMRN2 | TSS200 | opensea | TSS200-ope | | rs1148980 | 1 |
| cg1096005 | 0.112931 | 0.235995 | 3.506177 | 0.003082 | 0.224708 | -2.6929 | 0.29246 | 0.179529 | -0.11293 | 6 | 28664226 | R | II | | IGR | opensea | IGR-opense | | rs1689421 | 15 |
| cg2127873 | 0.119227 | 0.61689 | 3.502982 | 0.003102 | 0.224708 | -2.69949 | 0.676503 | 0.557276 | -0.11923 | 4 | 38797651 | F | II | | IGR | opensea | IGR-opense | | rs1479840 | 0;12;35 |
| cg1746443 | 0.116972 | 0.602111 | 3.938591 | 0.001259 | 0.224708 | -1.79713 | 0.660597 | 0.543625 | -0.11697 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-open: | | rs4651242 | 41;27;22 |
| cg0316539 | 0.116939 | 0.421855 | 2.988481 | 0.008991 | 0.224708 | -3.74807 | 0.480324 | 0.363385 | -0.11694 | 12 | 1.2E+08 | R | II | CIT | Body | opensea | Body-open: | | rs5832550 | 31;4;1 |
| cg1782217 | 0.126423 | 0.539151 | 3.496976 | 0.003141 | 0.224708 | -2.71188 | 0.602363 | 0.47594 | -0.12642 | 2 | 1.45E+08 | F | II | | IGR | opensea | IGR-opense | | rs5737327 | 0 |
| cg0179424 | 0.116895 | 0.502179 | 3.484195 | 0.003226 | 0.224708 | -2.73824 | 0.560627 | 0.443731 | -0.1169 | 8 | 1.46E+08 | R | II | KIAA1688 | TSS1500 | opensea | TSS1500-o | | | |
| cg0741815 | 0.116876 | 0.430014 | 2.947834 | 0.009773 | 0.224708 | -3.82935 | 0.488452 | 0.371576 | -0.11688 | 19 | 13056052 | R | II | RAD23A | TSS1500 | shore | TSS1500-sh | chr19:130 | | |
| cg2469968 | 0.118372 | 0.61342 | 3.491043 | 0.00318 | 0.224708 | -2.72412 | 0.672606 | 0.554234 | -0.11837 | 1 | 95268325 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1610107 | 0.116791 | 0.524272 | 3.728394 | 0.001944 | 0.224708 | -2.23317 | 0.582667 | 0.465877 | -0.11679 | 10 | 1.3E+08 | F | II | CLRN3 | 3'UTR | opensea | 3'UTR-open | | rs2296785 | 27;40 |
| cg0805963 | 0.116657 | 0.403878 | 2.825057 | 0.012562 | 0.224708 | -4.07293 | 0.462206 | 0.345549 | -0.11666 | 8 | 6274876 | R | II | MCPH1 | Body | opensea | Body-open: | | rs5367941 | 38 |
| cg0151816 | 0.107236 | 0.655261 | 3.487994 | 0.0032 | 0.224708 | -2.7304 | 0.708879 | 0.601643 | -0.10724 | 6 | 92828798 | F | II | | IGR | opensea | IGR-opense | | rs1174980 | 1;3;44 |
| cg1975451 | 0.116549 | 0.562559 | 3.472231 | 0.003307 | 0.224708 | -2.7629 | 0.620833 | 0.504284 | -0.11655 | 2 | 2.25E+08 | F | II | WDFY1 | ExonBnd | opensea | ExonBnd-o | | rs1407775 | 0;2;6 |
| cg1912124 | 0.116545 | 0.660466 | 3.567931 | 0.002711 | 0.224708 | -2.56537 | 0.718739 | 0.602194 | -0.11654 | 1 | 89266282 | R | II | PKN2 | Body | opensea | Body-open: | | rs5700623 | 48;33 |
| cg1366429 | 0.114154 | 0.483352 | 3.484723 | 0.003222 | 0.224708 | -2.73715 | 0.54043 | 0.426275 | -0.11415 | 11 | 9587813 | F | II | | IGR | opensea | IGR-opense | | rs1502162 | 0 |
| cg1264556 | 0.116369 | 0.443233 | 3.220473 | 0.005572 | 0.224708 | -3.2791 | 0.501418 | 0.385049 | -0.11637 | 1 | 51339561 | R | II | FAF1 | Body | opensea | Body-open: | | rs1921246 | 37;2 |
| cg1749995 | 0.126693 | 0.481648 | 3.483926 | 0.003227 | 0.224708 | -2.73879 | 0.544994 | 0.418301 | -0.12669 | 12 | 40562179 | F | II | | IGR | opensea | IGR-opense | | rs5725517 | 0;15;39 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1558030 | 0.116335 | 0.52214 | 2.128001 | 0.049902 | 0.255014 | -5.37686 | 0.580307 | 0.463972 | -0.11633 | 1 | 46814106 | R | II | NSUN4 | Body | opensea | Body-opens | | rs6657520 | 16 |
| cg1372761 | 0.116313 | 0.588405 | 3.323765 | 0.004499 | 0.224708 | -3.06804 | 0.646562 | 0.530249 | -0.11631 | 19 | 7145317 | F | II | INSR | Body | shelf | Body-shelf | chr19:714 | | |
| cg1803155 | 0.116268 | 0.439998 | 3.29494 | 0.004776 | 0.224708 | -3.12706 | 0.498132 | 0.381864 | -0.11627 | 11 | 1.21E+08 | R | II | GRIK4 | Body | opensea | Body-opens | | rs5408820 | 37;25 |
| cg1387375 | 0.123273 | 0.444845 | 3.47168 | 0.00331 | 0.224708 | -2.76404 | 0.506482 | 0.383209 | -0.12327 | 2 | 317826 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs5515383 | 33;13 |
| cg0265823 | 0.116122 | 0.442684 | 3.073358 | 0.00755 | 0.224708 | -3.57742 | 0.500745 | 0.384623 | -0.11612 | 2 | 2.25E+08 | R | II | CUL3 | TSS1500 | opensea | TSS1500-op | | | |
| cg1555935 | 0.116109 | 0.551675 | 2.426717 | 0.027962 | 0.230664 | -4.83774 | 0.609729 | 0.49362 | -0.11611 | 18 | 74785799 | R | II | MBP | Body | opensea | Body-opens | | rs5493903 | 23;18;13;2 |
| cg2474550 | 0.116104 | 0.506427 | 2.980528 | 0.009139 | 0.224708 | -3.76399 | 0.564479 | 0.448374 | -0.1161 | 4 | 88728805 | R | II | IBSP | Body | opensea | Body-opens | | rs5392891 | 47;21;14;1 |
| cg0966597 | 0.116084 | 0.550169 | 3.153867 | 0.006395 | 0.224708 | -3.41453 | 0.608211 | 0.492127 | -0.11608 | 2 | 1.73E+08 | F | II | SLC25A12 | Body | opensea | Body-opens | | rs5507590 | 0 |
| cg2741532 | 0.141973 | 0.763228 | 3.465732 | 0.003352 | 0.224708 | -2.7763 | 0.834214 | 0.692241 | -0.14197 | 22 | 17901078 | R | II | | IGR | shelf | IGR-shelf | chr22:178 | rs1440106 | 18;4;1 |
| cg1113124 | 0.106324 | 0.615155 | 3.464415 | 0.003361 | 0.224708 | -2.77901 | 0.668317 | 0.561993 | -0.10632 | 20 | 1396853 | F | II | | IGR | opensea | IGR-opense | | rs1483980 | 0;21;34 |
| cg1907149 | 0.109747 | 0.565333 | 3.462494 | 0.003374 | 0.224708 | -2.78297 | 0.620207 | 0.51046 | -0.10975 | 1 | 63604560 | F | II | | IGR | opensea | IGR-opense | | rs1118257 | 1 |
| cg1807393 | 0.116068 | 0.585454 | 3.271881 | 0.00501 | 0.224708 | -3.1742 | 0.643487 | 0.52742 | -0.11607 | 4 | 1.01E+08 | R | II | DAPP1 | 3'UTR | opensea | 3'UTR-open | | | |
| cg1167887 | 0.120138 | 0.59193 | 3.461347 | 0.003382 | 0.224708 | -2.78533 | 0.651999 | 0.531861 | -0.12014 | 12 | 26340149 | F | II | | IGR | opensea | IGR-opense | | rs5736756 | 0;14;19;20 |
| cg2572919 | 0.101604 | 0.48406 | 3.460689 | 0.003387 | 0.224708 | -2.78669 | 0.534862 | 0.433258 | -0.1016 | 1 | 17520216 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1060127 | 0.100489 | 0.484787 | 3.460355 | 0.003389 | 0.224708 | -2.78738 | 0.535032 | 0.434543 | -0.10049 | 1 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1869738 | 46 |
| cg1749653 | 0.101546 | 0.580047 | 3.460327 | 0.003389 | 0.224708 | -2.78743 | 0.63082 | 0.529274 | -0.10155 | 3 | 59712199 | R | II | | IGR | opensea | IGR-opense | | rs1456800 | 11;4 |
| cg2480926 | 0.115893 | 0.45934 | 3.545446 | 0.002841 | 0.224708 | -2.61183 | 0.517287 | 0.401394 | -0.11589 | 17 | 74260692 | F | II | FAM100B | TSS1500 | shore | TSS1500-sh | chr17:742 | rs5638810 | 50 |
| cg0141512 | 0.104509 | 0.563809 | 3.456138 | 0.003419 | 0.224708 | -2.79606 | 0.616063 | 0.511554 | -0.10451 | 2 | 85929746 | R | II | | IGR | opensea | IGR-opense | | rs1829442 | 43;1 |
| cg0671774 | 0.112762 | 0.553831 | 3.455396 | 0.003424 | 0.224708 | -2.79759 | 0.610212 | 0.49745 | -0.11276 | 8 | 23626859 | F | II | | IGR | opensea | IGR-opense | | rs5431190 | 0;1;4;46 |
| cg2202644 | 0.115786 | 0.64401 | 2.699524 | 0.016207 | 0.224896 | -4.31857 | 0.701903 | 0.586117 | -0.11579 | 6 | 17442621 | R | II | CAP2 | Body | opensea | Body-opens | | rs5330808 | 26;19 |
| cg0859126 | 0.115756 | 0.480498 | 2.757732 | 0.014405 | 0.224708 | -4.20514 | 0.538376 | 0.42262 | -0.11576 | 17 | 56082867 | F | I | SFRS1 | 3'UTR | shore | 3'UTR-shor | chr17:560 | rs1420721 | 41 |
| cg2373441 | 0.132174 | 0.567622 | 3.45046 | 0.003459 | 0.224708 | -2.80776 | 0.63371 | 0.501535 | -0.13217 | 13 | 61221316 | R | II | | IGR | opensea | IGR-opense | | rs1423965 | 38;10;3 |
| cg2251422 | 0.115743 | 0.652221 | 3.471427 | 0.003312 | 0.224708 | -2.76456 | 0.710092 | 0.594349 | -0.11574 | 1 | 94118054 | R | II | BCAR3 | Body | opensea | Body-opens | | rs1851198 | 18;2 |
| cg0178509 | 0.115731 | 0.601335 | 3.098783 | 0.007165 | 0.224708 | -3.52608 | 0.6592 | 0.543469 | -0.11573 | 8 | 22756144 | F | II | PEBP4 | Body | opensea | Body-opens | | rs1415635 | 1;45;48;50 |
| cg1074314 | 0.115725 | 0.622941 | 3.439029 | 0.003543 | 0.224708 | -2.8313 | 0.680804 | 0.565078 | -0.11573 | 13 | 94446931 | F | II | GPC6 | Body | opensea | Body-opens | | rs5623907 | 1;8;35 |
| cg1265858 | 0.115705 | 0.357857 | 5.320879 | 7.88E-05 | 0.220729 | 1.020044 | 0.415709 | 0.300004 | -0.11571 | 10 | 26736531 | F | II | APBB1IP | 5'UTR | opensea | 5'UTR-open | | | |
| cg0278107 | 0.115631 | 0.428946 | 3.574725 | 0.002673 | 0.224708 | -2.55132 | 0.486761 | 0.37113 | -0.11563 | 13 | 1.01E+08 | F | I | GGACT | TSS200 | island | TSS200-isla | chr13:101 | | |
| cg1083838 | 0.115596 | 0.627221 | 3.1988 | 0.005827 | 0.224708 | -3.32323 | 0.685019 | 0.569423 | -0.1156 | 10 | 1156113 | R | I | WDR37 | Body | opensea | Body-opens | | rs5400188 | 35;6 |
| cg1362024 | 0.115441 | 0.44105 | 3.018349 | 0.008455 | 0.224708 | -3.68815 | 0.49877 | 0.38333 | -0.11544 | 9 | 1.26E+08 | F | II | DENND1A | Body | opensea | Body-opens | | rs5630428 | 48 |
| cg1391671 | 0.115429 | 0.769174 | 2.363534 | 0.031662 | 0.234067 | -4.95461 | 0.826888 | 0.711459 | -0.11543 | 2 | 1.29E+08 | F | II | WDR33 | 5'UTR | shelf | 5'UTR-shelf | chr2:1285 | rs6430953 | 25;42 |
| cg1270236 | 0.115374 | 0.554227 | 3.109767 | 0.007004 | 0.224708 | -3.50387 | 0.611914 | 0.49654 | -0.11537 | 1 | 86035283 | R | II | DDAH1 | 5'UTR | opensea | 5'UTR-open | | rs5689986 | 29;15;1 |
| cg1604352 | 0.123887 | 0.688888 | 3.443092 | 0.003513 | 0.224708 | -2.82293 | 0.750832 | 0.626945 | -0.12389 | 6 | 47155663 | F | II | | IGR | opensea | IGR-opense | | rs5341999 | 1;10;11;23;33 |
| cg0954940 | 0.115374 | 0.764056 | 3.077863 | 0.00748 | 0.224708 | -3.56833 | 0.821742 | 0.706369 | -0.11537 | 8 | 10331768 | R | II | LINCR-000 | TSS1500 | opensea | TSS1500-op | | rs1811592 | 26;16;2;1 |
| cg2012665 | 0.115167 | 0.500018 | 3.270707 | 0.005022 | 0.224708 | -3.1766 | 0.557601 | 0.442434 | -0.11517 | 17 | 76801712 | F | II | USP36 | Body | shelf | Body-shelf | chr17:767 | rs5510390 | 1;40 |
| cg2478404 | 0.109244 | 0.410037 | 3.440119 | 0.003534 | 0.224708 | -2.82905 | 0.464659 | 0.355415 | -0.10924 | 3 | 33034475 | F | II | | IGR | opensea | IGR-opense | | rs5465351 | 1;4;25;36;49 |
| cg1626593 | 0.115161 | 0.45097 | 3.193281 | 0.005894 | 0.224708 | -3.33446 | 0.50855 | 0.393389 | -0.11516 | 10 | 1.12E+08 | R | II | RBM20 | Body | opensea | Body-opens | | rs5287368 | 41 |
| cg1820491 | 0.115133 | 0.479797 | 2.787121 | 0.01357 | 0.224708 | -4.14755 | 0.537364 | 0.422231 | -0.11513 | 10 | 1.06E+08 | F | II | CFAP43 | Body | opensea | Body-opens | | rs1163266 | 0 |
| cg0411410 | 0.110855 | 0.432699 | 3.43891 | 0.003543 | 0.224708 | -2.83154 | 0.488126 | 0.377272 | -0.11085 | 3 | 13339321 | F | II | | IGR | opensea | IGR-opense | | rs6058874 | 0;4 |
| cg0238449 | 0.115132 | 0.558944 | 3.345507 | 0.004301 | 0.224708 | -3.02348 | 0.61651 | 0.501378 | -0.11513 | 1 | 1.62E+08 | R | II | NOS1AP | Body | opensea | Body-opens | | | |
| cg2518976 | 0.115106 | 0.549365 | 3.388084 | 0.003937 | 0.224708 | -2.93607 | 0.606918 | 0.491812 | -0.11511 | 6 | 1.12E+08 | R | II | FYN | 5'UTR | opensea | 5'UTR-open | | rs1916832 | 41;17;14;11 |
| cg1810102 | 0.115102 | 0.802806 | 2.925624 | 0.010228 | 0.224708 | -3.87363 | 0.860357 | 0.745255 | -0.1151 | 4 | 71226205 | F | II | SMR3A | TSS1500 | opensea | TSS1500-op | | rs1000779 | 0 |
| cg1868999 | 0.115032 | 0.543049 | 4.153719 | 0.000809 | 0.224708 | -1.35111 | 0.600565 | 0.485533 | -0.11503 | 5 | 55164885 | R | II | IL31RA | 5'UTR | opensea | 5'UTR-open | | rs5300594 | 23;22;5;1 |
| cg1674421 | 0.118082 | 0.544534 | 3.434112 | 0.003579 | 0.224708 | -2.84142 | 0.603575 | 0.485493 | -0.11808 | 14 | 49872206 | F | II | | IGR | opensea | IGR-opense | | rs1500094 | 1;8 |
| cg2045008 | 0.115029 | 0.504781 | 3.207789 | 0.00572 | 0.224708 | -3.30493 | 0.562296 | 0.447266 | -0.11503 | 6 | 75857507 | R | II | COL12A1 | ExonBnd | opensea | ExonBnd-op | | rs1135498 | 36;35;13 |
| cg0642230 | 0.114956 | 0.537219 | 3.184413 | 0.006003 | 0.224708 | -3.35249 | 0.594697 | 0.479741 | -0.11496 | 10 | 1352781 | R | II | ADARB2 | Body | opensea | Body-opens | | rs1131878 | 48;35 |
| cg1258918 | 0.110519 | 0.463441 | 3.429676 | 0.003612 | 0.224708 | -2.85055 | 0.5187 | 0.408181 | -0.11052 | 10 | 1226886 | F | II | | IGR | shelf | IGR-shelf | chr10:123 | rs5778733 | 0;1;9;14;19;41;50 |
| cg2414031 | 0.130323 | 0.546922 | 3.428979 | 0.003617 | 0.224708 | -2.85198 | 0.612084 | 0.481761 | -0.13032 | 1 | 1.85E+08 | R | II | | IGR | opensea | IGR-opense | | rs1503022 | 17;1 |
| cg0785156 | 0.124454 | 0.523304 | 3.427802 | 0.003626 | 0.224708 | -2.8544 | 0.585531 | 0.461077 | -0.12445 | 18 | 48695911 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2510667 | 0.114951 | 0.627703 | 2.997615 | 0.008824 | 0.224708 | -3.72976 | 0.685178 | 0.570227 | -0.11495 | 21 | 17452671 | R | II | MIR99AHG | Body | opensea | Body-opens | | | |
| cg1614517 | 0.103444 | 0.446009 | 3.426589 | 0.003635 | 0.224708 | -2.8569 | 0.497731 | 0.394287 | -0.10344 | 21 | 25596030 | F | II | | IGR | opensea | IGR-opense | | rs1500489 | 0;9;28;39 |
| cg0167462 | 0.114919 | 0.453617 | 3.413665 | 0.003734 | 0.224708 | -2.88349 | 0.511077 | 0.396158 | -0.11492 | 7 | 1.06E+08 | R | II | NAMPT | Body | opensea | Body-opens | | rs5367027 | 21 |
| cg0120872 | 0.113098 | 0.444211 | 3.424692 | 0.003649 | 0.224708 | -2.8608 | 0.50076 | 0.387662 | -0.1131 | 5 | 6829916 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2130398 | 0.110274 | 0.423508 | 3.424104 | 0.003654 | 0.224708 | -2.86201 | 0.478645 | 0.36837 | -0.11027 | 2 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1016902 | 39;24;5;1 |
| cg1021786 | 0.114909 | 0.417666 | 3.109403 | 0.007009 | 0.224708 | -3.50461 | 0.47512 | 0.360211 | -0.11491 | 10 | 99188343 | R | II | PGAM1 | Body | shelf | Body-shelf | chr10:991 | rs1475377 | 45;34 |
| cg0073439 | 0.114813 | 0.610166 | 3.532971 | 0.002915 | 0.224708 | -2.63759 | 0.667572 | 0.552759 | -0.11481 | 10 | 4122651 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1166529 | 22;5;2 |
| cg0311210 | 0.100165 | 0.423121 | 3.419117 | 0.003692 | 0.224708 | -2.87227 | 0.473204 | 0.373039 | -0.10017 | 3 | 55469470 | F | II | | IGR | opensea | IGR-opense | | rs1862543 | 0;41;44 |
| cg1528653 | 0.114786 | 0.570294 | 3.296514 | 0.00476 | 0.224708 | -3.12384 | 0.627688 | 0.512901 | -0.11479 | 16 | 19823027 | F | II | IQCK | Body | opensea | Body-opens | | rs1470942 | 1;33 |
| cg0629748 | 0.105685 | 0.709218 | 3.418842 | 0.003694 | 0.224708 | -2.87284 | 0.762061 | 0.656376 | -0.10569 | 16 | 73240390 | R | II | | IGR | opensea | IGR-opense | | rs5575901 | 4;2;1 |
| cg2417153 | 0.109292 | 0.509019 | 3.418574 | 0.003696 | 0.224708 | -2.87339 | 0.563665 | 0.454374 | -0.10929 | 8 | 55361122 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0903796 | 0.158992 | 0.307989 | 3.418379 | 0.003698 | 0.224708 | -2.87379 | 0.387485 | 0.228493 | -0.15899 | 2 | 37828140 | R | II | | IGR | opensea | IGR-opense | | rs1156806 | 20;18 |
| cg0724389 | 0.11476 | 0.474268 | 2.630873 | 0.018614 | 0.225119 | -4.45124 | 0.531648 | 0.416888 | -0.11476 | 3 | 18195180 | F | II | LOC33986 | Body | opensea | Body-opens | | rs5592653 | 0;3 |
| cg0282524 | 0.10092 | 0.442077 | 3.417683 | 0.003703 | 0.224708 | -2.87522 | 0.492537 | 0.391617 | -0.10092 | 2 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754973 | 22;1 |
| cg1067954 | 0.117677 | 0.549997 | 3.417254 | 0.003706 | 0.224708 | -2.87611 | 0.608836 | 0.491159 | -0.11768 | 1 | 21532794 | R | II | | IGR | opensea | IGR-opense | | rs5604575 | 1 |
| cg2696124 | 0.114614 | 0.458974 | 2.889902 | 0.011004 | 0.224708 | -3.94466 | 0.516281 | 0.401667 | -0.11461 | 6 | 90813309 | F | II | BACH2 | 5'UTR | opensea | 5'UTR-open | | rs5570660 | 15;20;42 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0287836 | 0.105336 | 0.741099 | 3.414929 | 0.003724 | 0.224708 | -2.88089 | 0.793767 | 0.688431 | -0.10534 | 6 | 272080 | R | II | | IGR | opensea | IGR-opense | | rs3690126 | 35;1 |
| cg0010212 | 0.114595 | 0.583376 | 4.030504 | 0.001041 | 0.224708 | -1.60646 | 0.640673 | 0.526079 | -0.11459 | 8 | 1.31E+08 | F | II | FAM49B | Body | opensea | Body-opens | | rs5756457 | 1;19 |
| cg2266935 | 0.106231 | 0.623476 | 3.414848 | 0.003725 | 0.224708 | -2.88106 | 0.676591 | 0.57036 | -0.10623 | 5 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs1386673 | 5 |
| cg0370596 | 0.114468 | 0.607835 | 2.71762 | 0.015625 | 0.224896 | -4.28339 | 0.665069 | 0.550601 | -0.11447 | 7 | 1.12E+08 | F | II | DOCK4 | Body | opensea | Body-opens | | rs1129577 | 0 |
| cg2030434 | 0.114461 | 0.611658 | 3.291348 | 0.004812 | 0.224708 | -3.1344 | 0.668889 | 0.554428 | -0.11446 | 10 | 13739925 | R | II | FRMD4A | Body | opensea | Body-opens | | rs1396537 | 49;16 |
| cg2287587 | 0.114461 | 0.498006 | 3.206723 | 0.005733 | 0.224708 | -3.3071 | 0.555237 | 0.440775 | -0.11446 | 4 | 72978321 | F | II | NPFFR2 | 5'UTR | opensea | 5'UTR-open | | rs7639025 | 1;17;33;44 |
| cg1776979 | 0.114432 | 0.383436 | 3.557988 | 0.002768 | 0.224708 | -2.58591 | 0.440652 | 0.32622 | -0.11443 | 4 | 89976368 | R | II | FAM13A | Body | opensea | Body-opens | | rs7655442 | 46;17 |
| cg1645882 | 0.114406 | 0.284922 | 2.484594 | 0.024935 | 0.228258 | -4.72949 | 0.342125 | 0.227719 | -0.11441 | 13 | 44261002 | R | II | ENOX1 | 5'UTR | opensea | 5'UTR-open | | rs7972945 | 1 |
| cg0238763 | 0.11609 | 0.363726 | 3.410811 | 0.003756 | 0.224708 | -2.88936 | 0.421771 | 0.305681 | -0.11609 | 8 | 50084756 | R | II | | IGR | opensea | IGR-opense | | rs5564741 | 13;1 |
| cg1475850 | 0.121557 | 0.527896 | 3.410722 | 0.003757 | 0.224708 | -2.88954 | 0.588675 | 0.467118 | -0.12156 | 6 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs3702481 | 43;1 |
| cg0841521 | 0.117436 | 0.514035 | 3.403887 | 0.00381 | 0.224708 | -2.9036 | 0.572752 | 0.455317 | -0.11744 | 6 | 19906065 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0238494 | 0.112894 | 0.415988 | 3.400596 | 0.003836 | 0.224708 | -2.91036 | 0.472435 | 0.359541 | -0.11289 | 3 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1289553 | 0.114371 | 0.671177 | 4.455442 | 0.000437 | 0.224708 | -0.72828 | 0.728362 | 0.613991 | -0.11437 | 16 | 58063504 | F | II | MMP15 | Body | shelf | Body-shelf | chr16:580 | rs5505787 | 3;9 |
| cg1425803 | 0.114315 | 0.619346 | 2.553869 | 0.021721 | 0.225763 | -4.59851 | 0.676504 | 0.562189 | -0.11432 | 9 | 8711763 | R | II | PTPRD | Body | shore | Body-shore | chr9:8713 | rs1925176 | 49;43;4;1 |
| cg1561753 | 0.11429 | 0.455048 | 4.107249 | 0.000889 | 0.224708 | -1.44737 | 0.512193 | 0.397902 | -0.11429 | 1 | 1.99E+08 | F | II | PTPRC | TSS1500 | opensea | TSS1500-o | | rs1214128 | 0 |
| cg0725253 | 0.102915 | 0.687335 | 3.394318 | 0.003887 | 0.224708 | -2.92327 | 0.738793 | 0.635878 | -0.10292 | 12 | 59845805 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2172108 | 0.114254 | 0.520806 | 3.601306 | 0.00253 | 0.224708 | -2.49636 | 0.577933 | 0.463679 | -0.11425 | 9 | 37667895 | R | II | FRMPD1 | 5'UTR | opensea | 5'UTR-open | | rs5434572 | 32;17 |
| cg0836560 | 0.119448 | 0.356005 | 3.393842 | 0.003891 | 0.224708 | -2.92424 | 0.415729 | 0.296281 | -0.11945 | 19 | 33726655 | R | II | | IGR | island | IGR-island | chr19:337 | | |
| cg1462898 | 0.114236 | 0.586163 | 3.207129 | 0.005728 | 0.224708 | -3.30628 | 0.643281 | 0.529045 | -0.11424 | 2 | 28717630 | R | II | PLB1 | TSS1500 | opensea | TSS1500-o | | | |
| cg1340841 | 0.118998 | 0.605617 | 3.391788 | 0.003907 | 0.224708 | -2.92846 | 0.665116 | 0.546118 | -0.119 | 1 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1502960 | 0.114235 | 0.711826 | 3.327635 | 0.004463 | 0.224708 | -3.06011 | 0.768943 | 0.654708 | -0.11423 | 7 | 47377238 | F | II | TNS3 | Body | opensea | Body-opens | | rs5558151 | 0;23;44 |
| cg1891709 | 0.114205 | 0.471299 | 2.914287 | 0.010468 | 0.224708 | -3.8962 | 0.528402 | 0.414197 | -0.11421 | 2 | 2.02E+08 | F | II | CFLAR | TSS1500 | opensea | TSS1500-o | | | |
| cg0912199 | 0.10043 | 0.682614 | 3.389642 | 0.003925 | 0.224708 | -2.93287 | 0.732829 | 0.632399 | -0.10043 | 1 | 1.81E+08 | R | II | | IGR | opensea | IGR-opense | | rs5771152 | 39;35;2 |
| cg1405720 | 0.11416 | 0.610817 | 3.905494 | 0.001348 | 0.224708 | -1.8658 | 0.667897 | 0.553737 | -0.11416 | 2 | 39659093 | F | II | MAP4K3 | Body | opensea | Body-opens | | rs7950591 | 1;15;24;45 |
| cg2542698 | 0.102433 | 0.503591 | 3.388582 | 0.003933 | 0.224708 | -2.93505 | 0.554807 | 0.452374 | -0.10243 | 18 | 61683198 | F | II | | IGR | opensea | IGR-opense | | rs1511701 | 28;46 |
| cg1544481 | 0.114138 | 0.702868 | 2.601384 | 0.01975 | 0.225445 | -4.50784 | 0.759937 | 0.6458 | -0.11414 | 17 | 75721911 | R | II | LOC10013 | Body | opensea | Body-opens | | rs8080638 | 51;21;1 |
| cg1842961 | 0.11446 | 0.732146 | 3.387914 | 0.003939 | 0.224708 | -2.93643 | 0.789376 | 0.674916 | -0.11446 | 3 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs5587367 | 37;21;17;16;2 |
| cg0724078 | 0.102082 | 0.752477 | 3.387634 | 0.003941 | 0.224708 | -2.937 | 0.803518 | 0.701436 | -0.10208 | 5 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs1480925 | 1;8;15;34;42;43;47;47;48;49 |
| cg1208130 | 0.107931 | 0.525413 | 3.386702 | 0.003949 | 0.224708 | -2.93892 | 0.579378 | 0.471447 | -0.10793 | 2 | 38346853 | F | II | | IGR | opensea | IGR-opense | | rs5649776 | 0;20;49 |
| cg1965882 | 0.114204 | 0.601432 | 3.386456 | 0.003951 | 0.224708 | -2.93942 | 0.658534 | 0.54433 | -0.1142 | 3 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0930447 | 0.114112 | 0.582658 | 3.23221 | 0.005438 | 0.224708 | -3.25518 | 0.639714 | 0.525602 | -0.11411 | 18 | 76916901 | R | II | ATP9B | Body | opensea | Body-opens | | rs1145147 | 1 |
| cg1009312 | 0.114112 | 0.569198 | 3.425837 | 0.003641 | 0.224708 | -2.85845 | 0.626254 | 0.512142 | -0.11411 | 17 | 1335117 | F | II | CRK | Body | opensea | Body-opens | | | |
| cg1738166 | 0.107601 | 0.556914 | 3.382613 | 0.003982 | 0.224708 | -2.94732 | 0.610714 | 0.503114 | -0.1076 | 4 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs1432030 | 1 |
| cg2530440 | 0.114067 | 0.550622 | 3.235545 | 0.005401 | 0.224708 | -3.24838 | 0.607655 | 0.493589 | -0.11407 | 17 | 32485152 | R | II | ACCN1 | TSS1500 | shore | TSS1500-sh | chr17:324 | rs1862167 | 41;1 |
| cg1747448 | 0.118458 | 0.473768 | 3.380733 | 0.003998 | 0.224708 | -2.95118 | 0.532997 | 0.414539 | -0.11846 | 12 | 20047827 | F | II | | IGR | opensea | IGR-opense | | rs5284874 | 44 |
| cg2748343 | 0.114035 | 0.538292 | 4.67754 | 0.000279 | 0.224708 | -0.27329 | 0.59531 | 0.481275 | -0.11404 | 1 | 2.48E+08 | F | II | OR2L5 | TSS1500 | opensea | TSS1500-o | | rs1419421 | 0;20;40 |
| cg0550161 | 0.114033 | 0.492506 | 3.018402 | 0.008455 | 0.224708 | -3.68805 | 0.549522 | 0.435489 | -0.11403 | 4 | 1.85E+08 | R | II | IRF2 | Body | opensea | Body-opens | | rs6233775 | 34;13 |
| cg0570272 | 0.11402 | 0.466441 | 3.687477 | 0.002116 | 0.224708 | -2.31796 | 0.523451 | 0.409431 | -0.11402 | 4 | 1.12E+08 | R | II | PITX2 | TSS1500 | shelf | TSS1500-sh | chr4:1115 | rs5411311 | 29;1 |
| cg1807249 | 0.114017 | 0.612892 | 3.758669 | 0.001826 | 0.224708 | -2.1704 | 0.6699 | 0.555883 | -0.11402 | 12 | 40944308 | F | II | MUC19 | Body | opensea | Body-opens | | | |
| cg1194257 | 0.113946 | 0.603093 | 4.06887 | 0.000962 | 0.224708 | -1.52691 | 0.660066 | 0.54612 | -0.11395 | 2 | 48952008 | R | II | LHCGR | Body | opensea | Body-opens | | rs4366951 | 39;21;20;1 |
| cg1409865 | 0.113935 | 0.451007 | 3.839428 | 0.001545 | 0.224708 | -2.00288 | 0.507974 | 0.39404 | -0.11393 | 1 | 1.12E+08 | F | II | KCND3-AS1 | TSS1500 | opensea | TSS1500-o | | rs5345913 | 1;35;36;43;46 |
| cg2373248 | 0.10634 | 0.586844 | 3.373896 | 0.004055 | 0.224708 | -2.96522 | 0.640013 | 0.533674 | -0.10634 | 3 | 12930997 | R | II | | IGR | opensea | IGR-opense | | rs1145087 | 1 |
| cg1823151 | 0.113815 | 0.610492 | 2.444631 | 0.02699 | 0.22984 | -4.80435 | 0.6674 | 0.553585 | -0.11381 | 8 | 1.41E+08 | F | II | TRAPPC9 | Body | opensea | Body-opens | | rs5374153 | 29;39 |
| cg2054701 | 0.113793 | 0.506292 | 2.856364 | 0.011785 | 0.224708 | -4.01111 | 0.563189 | 0.449396 | -0.11379 | 12 | 1.11E+08 | R | II | PPP1CC | Body | opensea | Body-opens | | rs5500907 | 44;32;25;20 |
| cg1453356 | 0.11379 | 0.447718 | 3.013068 | 0.008548 | 0.224708 | -3.69876 | 0.504613 | 0.390822 | -0.11379 | 3 | 52705872 | R | II | PBRM1 | Body | opensea | Body-opens | | rs5497009 | 33;22 |
| cg2524096 | 0.113767 | 0.539397 | 3.684893 | 0.002127 | 0.224708 | -2.32332 | 0.59628 | 0.482513 | -0.11377 | 4 | 79339974 | R | II | FRAS1 | Body | opensea | Body-opens | | rs1449887 | 48;45;26 |
| cg0621425 | 0.113726 | 0.658859 | 2.873626 | 0.011376 | 0.224708 | -3.97694 | 0.715722 | 0.601996 | -0.11373 | 13 | 73438525 | F | II | PIBF1 | Body | opensea | Body-opens | | rs7853179 | 0;13 |
| cg1148027 | 0.113716 | 0.429331 | 2.355286 | 0.032178 | 0.234492 | -4.96976 | 0.486189 | 0.372473 | -0.11372 | 17 | 83580 | R | II | RPH3AL | Body | shore | Body-shore | chr17:850 | rs1157297 | 8;1 |
| cg1934716 | 0.104741 | 0.794549 | 3.364138 | 0.004138 | 0.224708 | -2.98525 | 0.84692 | 0.742178 | -0.10474 | 2 | 65763752 | R | II | | IGR | opensea | IGR-opense | | rs1437608 | 42;11;2;1 |
| cg0591920 | 0.100258 | 0.467158 | 3.364063 | 0.004138 | 0.224708 | -2.98541 | 0.517287 | 0.417029 | -0.10026 | 4 | 5914761 | R | II | | IGR | opensea | IGR-opense | | rs5412842 | 45 |
| cg0112413 | 0.113704 | 0.431233 | 3.025238 | 0.008336 | 0.224708 | -3.67431 | 0.488085 | 0.374381 | -0.1137 | 22 | 32599511 | F | II | RFPL2 | TSS200 | opensea | TSS200-ope | | rs5746053 | 0;22;29 |
| cg0727201 | 0.113667 | 0.706381 | 3.445037 | 0.003499 | 0.224708 | -2.81893 | 0.763215 | 0.649548 | -0.11367 | 6 | 11767836 | F | II | ADTRP | Body | opensea | Body-opens | | rs1465744 | 0;1;18;40 |
| cg0888183 | 0.113635 | 0.59445 | 3.573673 | 0.002679 | 0.224708 | -2.5535 | 0.651268 | 0.537633 | -0.11363 | 12 | 5348711 | R | II | LOC10192 | Body | opensea | Body-opens | | rs3713237 | 32 |
| cg2598271 | 0.11356 | 0.630831 | 4.316607 | 0.00058 | 0.224708 | -1.01432 | 0.687612 | 0.574051 | -0.11356 | 18 | 11027789 | R | II | PIEZO2 | Body | opensea | Body-opens | | rs3735900 | 26 |
| cg0446232 | 0.102902 | 0.598015 | 3.356458 | 0.004204 | 0.224708 | -3.00101 | 0.649466 | 0.546564 | -0.1029 | 14 | 91697876 | R | II | | IGR | shelf | IGR-shelf | chr14:917 | rs1422905 | 38;6;5 |
| cg2482723 | 0.107628 | 0.617928 | 3.356248 | 0.004206 | 0.224708 | -3.00144 | 0.671742 | 0.564114 | -0.10763 | 11 | 1.16E+08 | F | II | | IGR | shelf | IGR-shelf | chr11:115 | rs1166368 | 0 |
| cg1416439 | 0.113334 | 0.490336 | 3.290927 | 0.004816 | 0.224708 | -3.13527 | 0.547003 | 0.433669 | -0.11333 | 17 | 28707127 | R | II | CPD | TSS1500 | shore | TSS1500-sh | chr17:287 | rs5644120 | 7 |
| cg0546240 | 0.11131 | 0.687069 | 3.351847 | 0.004245 | 0.224708 | -3.01047 | 0.742724 | 0.631414 | -0.11131 | 11 | 59266110 | R | II | | IGR | opensea | IGR-opense | | rs5323318 | 39 |
| cg0511474 | 0.191201 | 0.70471 | 3.351802 | 0.004245 | 0.224708 | -3.01057 | 0.80031 | 0.609109 | -0.1912 | 2 | 2.43E+08 | F | II | | IGR | shelf | IGR-shelf | chr2:2426 | rs5594630 | 0 |
| cg2277189 | 0.113298 | 0.501202 | 2.90952 | 0.010571 | 0.224708 | -3.90569 | 0.557851 | 0.444553 | -0.1133 | 8 | 17613996 | R | II | MTUS1 | 5'UTR | opensea | 5'UTR-open | | rs5499932 | 49;2;1 |
| cg1102082 | 0.10591 | 0.579705 | 3.350565 | 0.004256 | 0.224708 | -3.0131 | 0.63266 | 0.526749 | -0.10591 | 15 | 79128547 | R | II | | IGR | shelf | IGR-shelf | chr15:791 | rs4539564 | 50;28;2 |
| cg1998339 | 0.132133 | 0.475997 | 3.350497 | 0.004256 | 0.224708 | -3.01324 | 0.542063 | 0.40993 | -0.13213 | 13 | 29115045 | R | II | | IGR | opensea | IGR-opense | | rs5451385 | 38;2 |
| cg0838841 | 0.113294 | 0.542914 | 3.191309 | 0.005918 | 0.224708 | -3.33847 | 0.599561 | 0.486267 | -0.11329 | 2 | 2.26E+08 | R | II | DOCK10 | Body | opensea | Body-opens | | rs5635179 | 7 |
| cg2529610 | 0.113282 | 0.48452 | 2.969513 | 0.009348 | 0.224708 | -3.78603 | 0.541161 | 0.427879 | -0.11328 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | | rs5374792 | 46;43;21 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1617725 | 0.11321 | 0.646378 | 2.91151 | 0.010528 | 0.224708 | -3.90173 | 0.702983 | 0.589774 | -0.11321 | 6 | 1.2E+08 | F | II | MAN1A1 | Body | opensea | Body-opens | | rs5548515 | 44 |
| cg0946539 | 0.113194 | 0.676586 | 3.506287 | 0.003081 | 0.224708 | -2.69267 | 0.733182 | 0.619989 | -0.11319 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs5616773 | 38;2 |
| cg0525422 | 0.113183 | 0.494037 | 2.850599 | 0.011924 | 0.224708 | -4.02251 | 0.550628 | 0.437445 | -0.11318 | 10 | 61050062 | R | II | FAM13C | Body | opensea | Body-opens | | rs5729288 | 25;5 |
| cg1017094 | 0.113145 | 0.533314 | 4.821674 | 0.00021 | 0.224708 | 0.019932 | 0.589886 | 0.476742 | -0.11314 | 12 | 57599717 | F | II | LRP1 | Body | shelf | Body-shelf | chr12:575 | rs1460269 | 0;18 |
| cg2581716 | 0.113112 | 0.566204 | 2.154655 | 0.047433 | 0.251904 | -5.33022 | 0.62276 | 0.509648 | -0.11311 | 18 | 72167213 | R | II | CNDP2 | 1stExon | shelf | 1stExon-sh | chr18:721 | rs1918690 | 31;17;2 |
| cg0082985 | 0.11311 | 0.472292 | 2.613164 | 0.019288 | 0.225391 | -4.48526 | 0.528847 | 0.415737 | -0.11311 | 2 | 1.79E+08 | F | II | OSBPL6 | 5'UTR | opensea | 5'UTR-open | | rs5694126 | 0;1 |
| cg0667966 | 0.119534 | 0.585416 | 3.345378 | 0.004302 | 0.224708 | -3.02374 | 0.645183 | 0.525649 | -0.11953 | 8 | 94966773 | F | II | | IGR | opensea | IGR-opense | | rs1837980 | 0;16 |
| cg1810095 | 0.131191 | 0.56968 | 3.344699 | 0.004308 | 0.224708 | -3.02513 | 0.635275 | 0.504084 | -0.13119 | 2 | 2.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs6218803 | 18;24;25 |
| cg1355382 | 0.112252 | 0.523963 | 3.34459 | 0.004309 | 0.224708 | -3.02536 | 0.580089 | 0.467837 | -0.11225 | 4 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs5728741 | 41 |
| cg0605737 | 0.101447 | 0.334868 | 3.344362 | 0.004311 | 0.224708 | -3.02582 | 0.385591 | 0.284145 | -0.10145 | 1 | 89507082 | R | II | | IGR | opensea | IGR-opense | | rs1508799 | 32 |
| cg2573408 | 0.113091 | 0.426475 | 2.767731 | 0.014115 | 0.224708 | -4.18557 | 0.483021 | 0.36993 | -0.11309 | 19 | 46969919 | R | II | PNMAL1 | 3'UTR | opensea | 3'UTR-open | | rs5658754 | 36 |
| cg0870784 | 0.113082 | 0.436827 | 3.414778 | 0.003725 | 0.224708 | -2.8812 | 0.493368 | 0.380286 | -0.11308 | 10 | 13061436 | R | II | CCDC3 | 5'UTR | opensea | 5'UTR-open | | rs5510475 | 8 |
| cg2475649 | 0.11306 | 0.639074 | 3.598017 | 0.002547 | 0.224708 | -2.50316 | 0.695604 | 0.582544 | -0.11306 | 18 | 21754024 | F | II | OSBPL1A | Body | opensea | Body-opens | | rs1841844 | 1;7;34;36 |
| cg1076455 | 0.113021 | 0.532877 | 3.780045 | 0.001747 | 0.224708 | -2.12607 | 0.589388 | 0.476367 | -0.11302 | 11 | 12419531 | R | II | PARVA | Body | opensea | Body-opens | | rs1818671 | 50;44 |
| cg2041401 | 0.112988 | 0.703936 | 2.780266 | 0.013761 | 0.224708 | -4.161 | 0.76043 | 0.647442 | -0.11299 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs5379888 | 34;5;1 |
| cg1868768 | 0.112986 | 0.349938 | 3.748322 | 0.001865 | 0.224708 | -2.19185 | 0.406431 | 0.293445 | -0.11299 | 6 | 4801802 | R | II | CDYL | Body | opensea | Body-opens | | | |
| cg1460121 | 0.111284 | 0.580597 | 3.339323 | 0.004356 | 0.224708 | -3.03616 | 0.636239 | 0.524955 | -0.11128 | 7 | 1.56E+08 | R | I | | IGR | shelf | IGR-shelf | chr7:1556 | rs3734060 | 35;18 |
| cg1870459 | 0.112957 | 0.505954 | 2.690626 | 0.016502 | 0.224896 | -4.33584 | 0.562433 | 0.449475 | -0.11296 | 4 | 1.54E+08 | F | II | TRIM2 | 5'UTR | opensea | 5'UTR-open | | rs1140632 | 1;18 |
| cg1579558 | 0.112922 | 0.437227 | 3.00772 | 0.008642 | 0.224708 | -3.70949 | 0.493688 | 0.380766 | -0.11292 | 2 | 2.43E+08 | F | II | DTYMK | TSS1500 | shore | TSS1500-sh | chr2:2426 | rs1486185 | 38;49 |
| cg0441044 | 0.112913 | 0.49394 | 2.843652 | 0.012094 | 0.224708 | -4.03624 | 0.550396 | 0.437483 | -0.11291 | 6 | 1.44E+08 | R | II | C6orf94 | Body | opensea | Body-opens | | rs5456474 | 38;2;1 |
| cg2278647 | 0.119714 | 0.388816 | 3.333185 | 0.004412 | 0.224708 | -3.04874 | 0.448673 | 0.328959 | -0.11971 | 4 | 26198975 | F | II | | IGR | opensea | IGR-opense | | rs5473382 | 0 |
| cg1111353 | 0.120665 | 0.582314 | 3.331725 | 0.004425 | 0.224708 | -3.05173 | 0.642646 | 0.521981 | -0.12066 | 11 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs1262591 | 43;42 |
| cg1852223 | 0.203647 | 0.378308 | 3.331074 | 0.004431 | 0.224708 | -3.05307 | 0.480132 | 0.276484 | -0.20365 | 3 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0935305 | 0.112871 | 0.428339 | 3.190472 | 0.005929 | 0.224708 | -3.34017 | 0.484775 | 0.371903 | -0.11287 | 2 | 1.67E+08 | R | II | SCN1A | 3'UTR | opensea | 3'UTR-open | | | |
| cg0015579 | 0.112822 | 0.603315 | 2.731011 | 0.015207 | 0.224792 | -4.25731 | 0.659725 | 0.546904 | -0.11282 | 2 | 1.73E+08 | R | II | METAP1D | Body | opensea | Body-opens | | rs9973784 | 29 |
| cg2736557 | 0.114641 | 0.547333 | 3.329036 | 0.00445 | 0.224708 | -3.05724 | 0.604654 | 0.490013 | -0.11464 | 2 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | | rs5407420 | 0;18;51 |
| cg1036590 | 0.112749 | 0.535285 | 3.940615 | 0.001253 | 0.224708 | -1.79293 | 0.591659 | 0.47891 | -0.11275 | 11 | 78568009 | R | II | ODZ4 | Body | opensea | Body-opens | | rs5317268 | 46;2 |
| cg2587349 | 0.106116 | 0.575683 | 3.326758 | 0.004471 | 0.224708 | -3.06191 | 0.628741 | 0.522624 | -0.10612 | 20 | 17973930 | F | II | | IGR | opensea | IGR-opense | | rs1407710 | 42;51 |
| cg2475965 | 0.112637 | 0.507155 | 3.330782 | 0.004434 | 0.224708 | -3.05366 | 0.563474 | 0.450837 | -0.11264 | 17 | 76801065 | R | II | USP36 | Body | shelf | Body-shelf | chr17:767 | rs7476313 | 41;13;1 |
| cg1627899 | 0.101213 | 0.591956 | 3.322123 | 0.004514 | 0.224708 | -3.07141 | 0.642562 | 0.541349 | -0.10121 | 6 | 13715593 | F | II | | IGR | shelf | IGR-shelf | chr6:1371 | | |
| cg0605566 | 0.112536 | 0.163204 | 2.348009 | 0.03264 | 0.234795 | -4.98311 | 0.219472 | 0.106936 | -0.11254 | 8 | 4399574 | R | II | CSMD1 | Body | opensea | Body-opens | | rs5377435 | 21;11 |
| cg2584078 | 0.11248 | 0.683125 | 3.280366 | 0.004922 | 0.224708 | -3.15686 | 0.739365 | 0.626885 | -0.11248 | 20 | 50156843 | F | II | NFATC2 | Body | shelf | Body-shelf | chr20:501 | rs5475672 | 1;30;31 |
| cg0435315 | 0.112461 | 0.491427 | 3.468399 | 0.003333 | 0.224708 | -2.7708 | 0.547658 | 0.435197 | -0.11246 | 15 | 77722632 | F | II | HMG20A | 5'UTR | opensea | 5'UTR-open | | rs1892357 | 1 |
| cg0634612 | 0.112448 | 0.463686 | 2.950063 | 0.009728 | 0.224708 | -3.8249 | 0.51991 | 0.407463 | -0.11245 | 19 | 50804360 | F | II | MYH14 | Body | opensea | Body-opens | | rs5651906 | 0;38;39;46 |
| cg0161707 | 0.112375 | 0.48151 | 3.811313 | 0.001637 | 0.224708 | -2.06121 | 0.537697 | 0.425322 | -0.11238 | 7 | 964629 | R | II | ADAP1 | Body | shore | Body-shore | chr7:9659 | rs1433319 | 35;1 |
| cg1447836 | 0.103714 | 0.546018 | 3.314879 | 0.004583 | 0.224708 | -3.08624 | 0.597876 | 0.494161 | -0.10371 | 9 | 99209707 | F | II | | IGR | shelf | IGR-shelf | chr9:9921 | rs5481274 | 0 |
| cg1665803 | 0.112322 | 0.473858 | 3.039436 | 0.008096 | 0.224708 | -3.64576 | 0.530019 | 0.417697 | -0.11232 | 10 | 22919045 | F | II | PIP4K2A | Body | opensea | Body-opens | | rs1878955 | 0;40;42;44 |
| cg2263700 | 0.10517 | 0.457769 | 3.312907 | 0.004601 | 0.224708 | -3.09028 | 0.510354 | 0.405184 | -0.10517 | 2 | 706036 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2346182 | 0.112244 | 0.594779 | 3.013309 | 0.008544 | 0.224708 | -3.69827 | 0.650901 | 0.538658 | -0.11224 | 7 | 1.35E+08 | R | II | CALD1 | Body | opensea | Body-opens | | | |
| cg1748639 | 0.112193 | 0.585691 | 2.826059 | 0.012536 | 0.224708 | -4.07096 | 0.641788 | 0.529595 | -0.11219 | 1 | 1.72E+08 | F | II | C1orf105 | Body | opensea | Body-opens | | rs5404290 | 0;34 |
| cg0845203 | 0.112163 | 0.512756 | 2.989048 | 0.00898 | 0.224708 | -3.74693 | 0.568837 | 0.456674 | -0.11216 | 22 | 28426107 | F | II | TTC28 | Body | opensea | Body-opens | | rs5692076 | 1;21 |
| cg0530422 | 0.10943 | 0.481245 | 3.310211 | 0.004627 | 0.224708 | -3.0958 | 0.53596 | 0.42653 | -0.10943 | 5 | 4234168 | F | II | | IGR | opensea | IGR-opense | | rs5679892 | 1 |
| cg0146418 | 0.11216 | 0.481936 | 2.736999 | 0.015024 | 0.22478 | -4.24563 | 0.538017 | 0.425856 | -0.11216 | 10 | 52191661 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5672233 | 0 |
| cg0834360 | 0.112159 | 0.508947 | 3.096267 | 0.007202 | 0.224708 | -3.53117 | 0.565027 | 0.452867 | -0.11216 | 10 | 43894095 | F | II | HNRNPF | 5'UTR | shore | 5'UTR-shor | chr10:438 | rs5523722 | 1;13;17;37 |
| cg0728549 | 0.117113 | 0.522151 | 3.308433 | 0.004644 | 0.224708 | -3.09944 | 0.580708 | 0.463595 | -0.11711 | 1 | 32071681 | F | II | | IGR | opensea | IGR-opense | | rs5399555 | 24;49 |
| cg2463970 | 0.112156 | 0.544173 | 2.842657 | 0.012119 | 0.224708 | -4.03821 | 0.600251 | 0.488095 | -0.11216 | 1 | 64986155 | R | II | CACHD1 | Body | opensea | Body-opens | | rs5298374 | 13 |
| cg2628520 | 0.120793 | 0.647089 | 3.307694 | 0.004651 | 0.224708 | -3.10095 | 0.707486 | 0.586693 | -0.12079 | 20 | 40342240 | F | II | | IGR | opensea | IGR-opense | | rs7598542 | 1;22 |
| cg0830404 | 0.111966 | 0.632054 | 3.418901 | 0.003694 | 0.224708 | -2.87272 | 0.688037 | 0.576071 | -0.11197 | 20 | 237253 | F | II | DEFB132 | TSS1500 | opensea | TSS1500-o | | rs5729680 | 36;44;48 |
| cg0425883 | 0.111958 | 0.533638 | 3.057418 | 0.007802 | 0.224708 | -3.60956 | 0.589617 | 0.477659 | -0.11196 | 2 | 1.03E+08 | F | II | IL1R1 | 5'UTR | opensea | 5'UTR-open | | rs7462859 | 33;42;50 |
| cg0759554 | 0.103867 | 0.513532 | 3.305506 | 0.004672 | 0.224708 | -3.10543 | 0.565465 | 0.461598 | -0.10387 | 13 | 77919764 | F | II | | IGR | opensea | IGR-opense | | rs5666234 | 28 |
| cg1095437 | 0.11189 | 0.645778 | 2.495614 | 0.024395 | 0.227653 | -4.70875 | 0.701724 | 0.589833 | -0.11189 | 4 | 66188645 | F | II | EPHA5 | 3'UTR | opensea | 3'UTR-open | | rs1015532 | 0;27 |
| cg2136222 | 0.11189 | 0.622853 | 3.448475 | 0.003474 | 0.224708 | -2.81185 | 0.678798 | 0.566908 | -0.11189 | 8 | 1864982 | R | II | ARHGEF10 | Body | opensea | Body-opens | | rs1857418 | 50;47;2 |
| cg0241880 | 0.111841 | 0.460672 | 3.017855 | 0.008464 | 0.224708 | -3.68914 | 0.516593 | 0.404752 | -0.11184 | 12 | 94766510 | F | II | CEP83 | Body | opensea | Body-opens | | rs5698437 | 0 |
| cg1349476 | 0.111835 | 0.574113 | 3.049539 | 0.00793 | 0.224708 | -3.62543 | 0.63003 | 0.518195 | -0.11184 | 1 | 2.44E+08 | F | II | MIR4677 | TSS1500 | opensea | TSS1500-o | | rs1924570 | 0;1 |
| cg2260951 | 0.1109 | 0.485029 | 3.29823 | 0.004743 | 0.224708 | -3.12032 | 0.540478 | 0.429579 | -0.1109 | 7 | 28891164 | R | II | | IGR | shelf | IGR-shelf | chr7:2889 | rs763811;r | 44;33;19;17;2 |
| cg0581313 | 0.111819 | 0.650973 | 3.421194 | 0.003676 | 0.224708 | -2.868 | 0.706883 | 0.595064 | -0.11182 | 12 | 1.19E+08 | F | II | SRRM4 | Body | opensea | Body-opens | | rs1507520 | 5;34 |
| cg1947937 | 0.111813 | 0.658903 | 3.459854 | 0.003393 | 0.224708 | -2.78841 | 0.71481 | 0.602997 | -0.11181 | 10 | 99734154 | F | II | CRTAC1 | Body | opensea | Body-opens | | rs1405161 | 8;37 |
| cg0678409 | 0.11145 | 0.557618 | 3.296181 | 0.004764 | 0.224708 | -3.12452 | 0.613344 | 0.501893 | -0.11145 | 5 | 40151155 | F | II | | IGR | opensea | IGR-opense | | rs7162384 | 30 |
| cg1177427 | 0.111718 | 0.573872 | 3.778773 | 0.001751 | 0.224708 | -2.12871 | 0.62973 | 0.518013 | -0.11172 | 17 | 49110507 | R | II | SPAG9 | Body | opensea | Body-opens | | rs5492084 | 2 |
| cg0101984 | 0.111714 | 0.504965 | 3.142454 | 0.006547 | 0.224708 | -3.43768 | 0.560822 | 0.449108 | -0.11171 | 11 | 1.19E+08 | F | II | ABCG4 | Body | shelf | Body-shelf | chr11:119 | rs5737133 | 0;32;45 |
| cg0867146 | 0.105976 | 0.453083 | 3.292859 | 0.004797 | 0.224708 | -3.13131 | 0.506071 | 0.400095 | -0.10598 | 12 | 51912686 | R | II | | IGR | opensea | IGR-opense | | rs5409346 | 41;37;9;6 |
| cg0895051 | 0.125533 | 0.571305 | 3.292656 | 0.004799 | 0.224708 | -3.13173 | 0.634072 | 0.508538 | -0.12553 | 2 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5540531 | 38;32;3 |
| cg0085853 | 0.103232 | 0.684216 | 3.291436 | 0.004811 | 0.224708 | -3.13422 | 0.735832 | 0.632599 | -0.10323 | 13 | 73743021 | F | II | | IGR | opensea | IGR-opense | | rs1445758 | 0 |
| cg2089284 | 0.111688 | 0.674381 | 2.502688 | 0.024054 | 0.227443 | -4.69542 | 0.730225 | 0.618537 | -0.11169 | 3 | 1.57E+08 | R | II | CCNL1 | TSS1500 | shore | TSS1500-sh | chr3:1568 | rs5757058 | 32 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1167460 | 0.111646 | 0.648127 | 2.289533 | 0.036582 | 0.23891 | -5.08965 | 0.70395 | 0.592304 | -0.11165 | 22 | 49910987 | F | II | C22orf34 | Body | opensea | Body-opens | | rs5440797 29;31 |
| cg2658237 | 0.111599 | 0.483532 | 3.145195 | 0.00651 | 0.224708 | -3.43212 | 0.539332 | 0.427733 | -0.1116 | 4 | 4639639 | R | II | STX18-AS1 | Body | opensea | Body-opens | | rs5517322 29;28;23;1 |
| cg1513811 | 0.111554 | 0.432197 | 3.285499 | 0.00487 | 0.224708 | -3.14637 | 0.487974 | 0.37642 | -0.11155 | 6 | 1.5E+08 | F | II | PPP1R14C | Body | opensea | Body-opens | | |
| cg1161645 | 0.111534 | 0.37473 | 3.131132 | 0.006702 | 0.224708 | -3.46062 | 0.430496 | 0.318963 | -0.11153 | 4 | 38525723 | R | II | LINC01258 | TSS1500 | opensea | TSS1500-op | | rs1832261 33 |
| cg0351287 | 0.111498 | 0.597292 | 3.414885 | 0.003724 | 0.224708 | -2.88098 | 0.653041 | 0.541542 | -0.1115 | 3 | 1.2E+08 | R | II | GPR156 | Body | opensea | Body-opens | | rs5631941 25 |
| cg0875243 | 0.111488 | 0.423265 | 2.956449 | 0.009602 | 0.224708 | -3.81215 | 0.479009 | 0.367521 | -0.11149 | 12 | 1.11E+08 | R | II | PPTC7 | Body | shelf | Body-shelf | chr12:111( | rs1891183 11;2 |
| cg1416871 | 0.111443 | 0.559753 | 3.150519 | 0.006439 | 0.224708 | -3.42132 | 0.615474 | 0.504031 | -0.11144 | 10 | 60579479 | R | II | BICC1 | Body | opensea | Body-opens | | rs7902375 24 |
| cg0427048 | 0.111846 | 0.344695 | 3.283809 | 0.004887 | 0.224708 | -3.14982 | 0.400617 | 0.288772 | -0.11185 | 11 | 85827505 | F | II | | IGR | opensea | IGR-opense | | rs1497039 1;16;19;32 |
| cg2741724 | 0.115647 | 0.55759 | 3.283694 | 0.004888 | 0.224708 | -3.15006 | 0.615414 | 0.499767 | -0.11565 | 7 | 20323695 | F | II | | IGR | opensea | IGR-opense | | rs2529019 10 |
| cg0547959 | 0.119897 | 0.617956 | 3.28288 | 0.004897 | 0.224708 | -3.15172 | 0.677904 | 0.558007 | -0.1199 | 11 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5655423 40;22;16;2 |
| cg1016849 | 0.114131 | 0.711136 | 3.281773 | 0.004908 | 0.224708 | -3.15398 | 0.768201 | 0.65407 | -0.11413 | 3 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | rs5583051 51;24;14 |
| cg2410804 | 0.123082 | 0.665934 | 3.281763 | 0.004908 | 0.224708 | -3.15401 | 0.727475 | 0.604393 | -0.12308 | 12 | 63700576 | F | II | | IGR | opensea | IGR-opense | | rs3689994 0;23 |
| cg1733049 | 0.111405 | 0.565858 | 2.923948 | 0.010263 | 0.224708 | -3.87697 | 0.621561 | 0.510155 | -0.11141 | 13 | 67550124 | F | II | PCDH9-AS3 | TSS1500 | opensea | TSS1500-op | | rs5415131 32;46 |
| cg1212670 | 0.111405 | 0.606557 | 2.791229 | 0.013457 | 0.224708 | -4.13949 | 0.66226 | 0.550855 | -0.11141 | 1 | 1.57E+08 | F | II | C1orf92 | TSS1500 | shore | TSS1500-sh | chr1:1568( | rs5416842 7;41 |
| cg1749257 | 0.103045 | 0.476361 | 3.280126 | 0.004925 | 0.224708 | -3.15735 | 0.527884 | 0.424839 | -0.10304 | 6 | 1.59E+08 | R | II | | IGR | opensea | IGR-opense | | rs5410837 2 |
| cg1426334 | 0.111392 | 0.465364 | 2.802032 | 0.013165 | 0.224708 | -4.11826 | 0.52106 | 0.409668 | -0.11139 | 7 | 1.51E+08 | F | II | RHEB | Body | opensea | Body-opens | | rs1150018 17;18 |
| cg2378620 | 0.101543 | 0.459841 | 3.278799 | 0.004938 | 0.224708 | -3.16006 | 0.510613 | 0.40907 | -0.10154 | 10 | 77057425 | R | II | | IGR | shelf | IGR-shelf | chr10:770! | |
| cg0388003 | 0.111374 | 0.635165 | 3.040104 | 0.008085 | 0.224708 | -3.64442 | 0.690852 | 0.579477 | -0.11137 | 16 | 55866757 | F | II | CES1 | Body | island | Body-islanc | chr16:558( | rs5735936 0;35;39;41;42;50 |
| cg1611698 | 0.111346 | 0.581638 | 3.309678 | 0.004632 | 0.224708 | -3.09689 | 0.637311 | 0.525965 | -0.11135 | 6 | 97395162 | R | II | KLHL32 | 5'UTR | opensea | 5'UTR-open | | rs5820473 20;2 |
| cg0813634 | 0.111318 | 0.796172 | 2.191821 | 0.044177 | 0.247847 | -5.26469 | 0.851831 | 0.740513 | -0.11132 | 9 | 1.39E+08 | F | II | SDCCAG3 | Body | shore | Body-shore | chr9:1393( | rs5300374 3;17;24 |
| cg2494268 | 0.115332 | 0.691082 | 3.275861 | 0.004968 | 0.224708 | -3.16607 | 0.748748 | 0.633416 | -0.11533 | 13 | 77518644 | R | II | | IGR | opensea | IGR-opense | | |
| cg2645366 | 0.106536 | 0.53973 | 3.273006 | 0.004998 | 0.224708 | -3.1719 | 0.592998 | 0.486462 | -0.10654 | 10 | 90411391 | R | II | | IGR | opensea | IGR-opense | | rs1384306 2 |
| cg0900561 | 0.111317 | 0.467785 | 3.025889 | 0.008325 | 0.224708 | -3.67301 | 0.523444 | 0.412126 | -0.11132 | 1 | 1.86E+08 | R | II | HMCN1 | Body | opensea | Body-opens | | rs5664036 1 |
| cg0151222 | 0.110806 | 0.72477 | 3.271762 | 0.005011 | 0.224708 | -3.17445 | 0.780173 | 0.669367 | -0.11081 | 12 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs1910062 1;18 |
| cg0743197 | 0.111283 | 0.535297 | 4.133579 | 0.000843 | 0.224708 | -1.39282 | 0.590939 | 0.479656 | -0.11128 | 14 | 52142383 | F | II | FRMD6 | 5'UTR | opensea | 5'UTR-open | | |
| cg2607995 | 0.111251 | 0.554555 | 2.144718 | 0.04834 | 0.253098 | -5.34764 | 0.610181 | 0.49893 | -0.11125 | 12 | 1.29E+08 | F | II | SLC15A4 | Body | opensea | Body-opens | | rs5322940 6;9;10 |
| cg2035837 | 0.100507 | 0.583734 | 3.270207 | 0.005027 | 0.224708 | -3.17762 | 0.633987 | 0.53348 | -0.10051 | 2 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg2403312 | 0.111202 | 0.201329 | 4.018756 | 0.001067 | 0.224708 | -1.63083 | 0.25693 | 0.145728 | -0.1112 | 16 | 30485383 | R | II | ITGAL | Body | island | Body-islanc | chr16:304! | rs3755904 2 |
| cg1751534 | 0.111155 | 0.542431 | 2.759377 | 0.014357 | 0.224708 | -4.20192 | 0.598008 | 0.486854 | -0.11115 | 1 | 1.59E+08 | R | II | AIM2 | TSS1500 | opensea | TSS1500-op | | rs5652591 46;45;10;3 |
| cg2745452 | 0.111146 | 0.578416 | 3.182894 | 0.006022 | 0.224708 | -3.35558 | 0.633989 | 0.522843 | -0.11115 | 1 | 2.47E+08 | F | II | SMYD3 | TSS200 | opensea | TSS200-ope | | rs1829293 23;30 |
| cg2474346 | 0.101247 | 0.611832 | 3.268825 | 0.005041 | 0.224708 | -3.18045 | 0.662456 | 0.561208 | -0.10125 | 13 | 65669420 | R | II | | IGR | opensea | IGR-opense | | rs5744790 29 |
| cg0372967 | 0.11113 | 0.445433 | 2.641388 | 0.018224 | 0.225076 | -4.431 | 0.500998 | 0.389868 | -0.11113 | 5 | 71855774 | F | II | LOC10250: | Body | opensea | Body-opens | | |
| cg0447469 | 0.103274 | 0.576428 | 3.266368 | 0.005067 | 0.224708 | -3.18547 | 0.628065 | 0.524791 | -0.10327 | 17 | 55158407 | R | II | | IGR | shelf | IGR-shelf | chr17:551( | rs1401916 2 |
| cg2259909 | 0.111103 | 0.609131 | 3.250032 | 0.005241 | 0.224708 | -3.21882 | 0.664683 | 0.553579 | -0.1111 | 7 | 1.16E+08 | R | II | LINC01510 | Body | opensea | Body-opens | | rs5319736 39;1 |
| cg2501344 | 0.123756 | 0.708676 | 3.265029 | 0.005081 | 0.224708 | -3.1882 | 0.770554 | 0.646798 | -0.12376 | 11 | 1.07E+08 | F | II | | IGR | shelf | IGR-shelf | chr11:107: | |
| cg1398071 | 0.111084 | 0.634447 | 3.010531 | 0.008592 | 0.224708 | -3.70385 | 0.689989 | 0.578905 | -0.11108 | 2 | 2.18E+08 | F | II | TNP1 | TSS1500 | opensea | TSS1500-op | | rs5327672 8;17;28 |
| cg2358408 | 0.111071 | 0.686203 | 4.379948 | 0.00051 | 0.224708 | -0.88369 | 0.741739 | 0.630668 | -0.11107 | 13 | 33626629 | R | II | KL | Body | opensea | Body-opens | | rs1497347 37;12;1 |
| cg0763573 | 0.23137 | 0.801239 | 3.256766 | 0.005169 | 0.224708 | -3.20508 | 0.916924 | 0.685554 | -0.23137 | 2 | 2.43E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:2426: | rs5318817 50;42;21 |
| cg0596822 | 0.105065 | 0.679342 | 3.256408 | 0.005173 | 0.224708 | -3.20581 | 0.731874 | 0.626809 | -0.10506 | 11 | 5770442 | F | II | | IGR | opensea | IGR-opense | | rs5278813 25;26;27 |
| cg0999405 | 0.111069 | 0.532565 | 3.773483 | 0.001771 | 0.224708 | -2.13968 | 0.588099 | 0.47703 | -0.11107 | 10 | 14598259 | F | II | FAM107B | 5'UTR | opensea | 5'UTR-open | | |
| cg0170833 | 0.110979 | 0.556331 | 3.159151 | 0.006325 | 0.224708 | -3.40381 | 0.611821 | 0.500842 | -0.11098 | 20 | 20484969 | R | II | RALGAPA2 | Body | opensea | Body-opens | | rs5746230 48;36;1 |
| cg1790226 | 0.112223 | 0.482968 | 3.253317 | 0.005206 | 0.224708 | -3.21212 | 0.53908 | 0.426857 | -0.11222 | 16 | 77490838 | F | II | | IGR | opensea | IGR-opense | | rs3775960 5;6;11;41;51 |
| cg0939330 | 0.110978 | 0.460446 | 2.840099 | 0.012182 | 0.224708 | -4.04326 | 0.515935 | 0.404957 | -0.11098 | 2 | 2.01E+08 | R | II | TYW5 | Body | opensea | Body-opens | | rs1808259 50;2 |
| cg0829168 | 0.102847 | 0.492644 | 3.252172 | 0.005218 | 0.224708 | -3.21445 | 0.544068 | 0.441221 | -0.10285 | 22 | 49749753 | F | II | | IGR | opensea | IGR-opense | | rs5325898 37 |
| cg0182970 | 0.117054 | 0.560561 | 3.251787 | 0.005222 | 0.224708 | -3.21524 | 0.619089 | 0.502034 | -0.11705 | 22 | 32047972 | R | II | | IGR | opensea | IGR-opense | | rs6223917 33;4 |
| cg1175076 | 0.118815 | 0.543415 | 3.251744 | 0.005223 | 0.224708 | -3.21533 | 0.602823 | 0.484007 | -0.11882 | 7 | 12521687 | F | II | | IGR | opensea | IGR-opense | | rs1467679 1;35;41 |
| cg0488514 | 0.110863 | 0.63503 | 3.105155 | 0.007071 | 0.224708 | -3.5132 | 0.690461 | 0.579599 | -0.11086 | 9 | 1.1E+08 | R | II | MIR548Q | Body | opensea | Body-opens | | rs5409613 2 |
| cg1055686 | 0.110855 | 0.566796 | 3.178584 | 0.006076 | 0.224708 | -3.36434 | 0.622224 | 0.511369 | -0.11085 | 6 | 16413526 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5700094 1 |
| cg0575869 | 0.110845 | 0.418092 | 2.886906 | 0.011072 | 0.224708 | -3.95061 | 0.473514 | 0.36267 | -0.11084 | 6 | 4790999 | F | II | CDYL | Body | opensea | Body-opens | | rs1876937 12 |
| cg0792195 | 0.110834 | 0.676502 | 3.721012 | 0.001974 | 0.224708 | -2.24847 | 0.731919 | 0.621086 | -0.11083 | 12 | 14107199 | F | II | GRIN2B | 5'UTR | opensea | 5'UTR-open | | rs5560964 19 |
| cg2497680 | 0.110799 | 0.591724 | 3.051165 | 0.007903 | 0.224708 | -3.62215 | 0.647124 | 0.536325 | -0.1108 | 1 | 1.6E+08 | F | II | CRP | TSS1500 | opensea | TSS1500-op | | rs5610226 6 |
| cg1312114 | 0.110752 | 0.558512 | 2.472832 | 0.025524 | 0.228747 | -4.75158 | 0.613888 | 0.503136 | -0.11075 | 15 | 33218656 | R | II | FMN1 | Body | opensea | Body-opens | | rs5462501 39 |
| cg0200871 | 0.110684 | 0.592789 | 3.306383 | 0.004664 | 0.224708 | -3.10364 | 0.648131 | 0.537447 | -0.11068 | 6 | 1.33E+08 | F | II | LINC00326 | Body | opensea | Body-opens | | rs1929208 0;1;48 |
| cg2005885 | 0.110668 | 0.570946 | 3.30135 | 0.004713 | 0.224708 | -3.11394 | 0.626279 | 0.515612 | -0.11067 | 2 | 2.25E+08 | F | II | AP1S3 | Body | opensea | Body-opens | | rs3738281 1;19 |
| cg1818895 | 0.100941 | 0.459874 | 3.246554 | 0.005279 | 0.224708 | -3.22592 | 0.510344 | 0.409404 | -0.10094 | 16 | 65613388 | F | II | | IGR | opensea | IGR-opense | | rs5771782 50 |
| cg0820054 | 0.110643 | 0.608911 | 3.439485 | 0.003539 | 0.224708 | -2.83036 | 0.664232 | 0.55359 | -0.11064 | 1 | 2121449 | F | II | C1orf86 | Body | island | Body-islanc | chr1:2121( | rs5537926 7;35 |
| cg1126407 | 0.120658 | 0.670207 | 3.242623 | 0.005322 | 0.224708 | -3.23394 | 0.730536 | 0.609878 | -0.12066 | 14 | 71355741 | R | II | | IGR | opensea | IGR-opense | | rs5363285 16;1 |
| cg0445242 | 0.110615 | 0.583084 | 3.057928 | 0.007794 | 0.224708 | -3.60853 | 0.638392 | 0.527777 | -0.11061 | 6 | 1.51E+08 | F | II | MTHFD1L | Body | opensea | Body-opens | | |
| cg0898578 | 0.110613 | 0.488675 | 3.79481 | 0.001694 | 0.224708 | -2.09544 | 0.543982 | 0.433369 | -0.11061 | 6 | 39196340 | F | I | KCNK5 | Body | shore | Body-shore | chr6:3919( | rs1118568 15;28 |
| cg1688693 | 0.102236 | 0.632187 | 3.240053 | 0.005351 | 0.224708 | -3.23918 | 0.683305 | 0.581069 | -0.10224 | 2 | 2.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs5653095 0;1;11 |
| cg1957438 | 0.127396 | 0.446407 | 3.23925 | 0.00536 | 0.224708 | -3.24082 | 0.510104 | 0.382709 | -0.1274 | 4 | 10075174 | R | II | | IGR | opensea | IGR-opense | | rs1926784 1 |
| cg1278796 | 0.100123 | 0.489437 | 3.239061 | 0.005362 | 0.224708 | -3.24121 | 0.539498 | 0.439375 | -0.10012 | 4 | 1.5E+08 | R | II | | IGR | opensea | IGR-opense | | rs7295998 2 |
| cg0198081 | 0.100432 | 0.495372 | 3.238734 | 0.005365 | 0.224708 | -3.24187 | 0.545589 | 0.445156 | -0.10043 | 4 | 1.13E+08 | F | II | | IGR | shore | IGR-shore | chr4:1132( | rs1406720 27 |
| cg1063624 | 0.110608 | 0.312564 | 2.395598 | 0.02973 | 0.232293 | -4.89548 | 0.367868 | 0.25726 | -0.11061 | 1 | 1.59E+08 | F | II | AIM2 | TSS1500 | opensea | TSS1500-op | | rs1845798 6;36 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0668165 | 0.101996 | 0.571365 | 3.237839 | 0.005375 | 0.224708 | -3.2437 | 0.622363 | 0.520366 | -0.102 | 20 | 22777067 | F | II | | IGR | opensea | IGR-opense | | rs5396566 1;6;18;42 |
| cg0571077 | 0.110512 | 0.650096 | 3.445128 | 0.003498 | 0.224708 | -2.81874 | 0.705352 | 0.59484 | -0.11051 | 2 | 65089821 | F | II | LOC101927 | Body | shelf | Body-shelf | chr2:6509: | rs5470309 5;20 |
| cg0796525 | 0.110475 | 0.525571 | 3.221409 | 0.005561 | 0.224708 | -3.27719 | 0.580808 | 0.470333 | -0.11047 | 15 | 38342973 | R | II | LOC101928 | Body | opensea | Body-open: | | |
| cg2311904 | 0.110459 | 0.588537 | 3.564543 | 0.00273 | 0.224708 | -2.57237 | 0.643767 | 0.533308 | -0.11046 | 10 | 73572537 | F | II | CDH23 | Body | opensea | Body-open: | | rs1408849 1;2 |
| cg1836228 | 0.110427 | 0.558835 | 2.508393 | 0.023783 | 0.227223 | -4.68466 | 0.614049 | 0.503621 | -0.11043 | 7 | 1.57E+08 | R | I | DNAJB6 | Body | island | Body-islanc | chr7:1572( | |
| cg1731254 | 0.114194 | 0.442828 | 3.23376 | 0.005421 | 0.224708 | -3.25202 | 0.499924 | 0.385731 | -0.11419 | 7 | 24561256 | F | II | | IGR | opensea | IGR-opense | | rs1844744 5;23;28 |
| cg2689901 | 0.101566 | 0.451694 | 3.232817 | 0.005431 | 0.224708 | -3.25394 | 0.502478 | 0.400911 | -0.10157 | 5 | 86042549 | R | II | | IGR | opensea | IGR-opense | | rs5764025 37;4 |
| cg2442625 | 0.110425 | 0.602989 | 2.55342 | 0.02174 | 0.225763 | -4.59937 | 0.658201 | 0.547776 | -0.11043 | 12 | 94703450 | R | II | CEP83 | Body | opensea | Body-open: | | rs7336859 42 |
| cg1840232 | 0.110407 | 0.582412 | 2.477077 | 0.02531 | 0.228534 | -4.74361 | 0.637616 | 0.527209 | -0.11041 | 12 | 1.29E+08 | R | II | SLC15A4 | Body | opensea | Body-open: | | rs1461845 23 |
| cg1131562 | 0.110345 | 0.481913 | 3.093388 | 0.007245 | 0.224708 | -3.53698 | 0.537085 | 0.426741 | -0.11034 | 17 | 57829517 | R | II | VMP1 | Body | opensea | Body-open: | | rs5682089 49;34;15;1 |
| cg1848967 | 0.110227 | 0.434658 | 3.890009 | 0.001391 | 0.224708 | -1.89793 | 0.489772 | 0.379545 | -0.11023 | 10 | 1408561 | F | II | ADARB2 | Body | shelf | Body-shelf | chr10:140 | rs1140921 0;20;23;26 |
| cg2171391 | 0.104918 | 0.500591 | 3.230657 | 0.005456 | 0.224708 | -3.25834 | 0.55305 | 0.448132 | -0.10492 | 5 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs1472804 35;42 |
| cg0722341 | 0.105591 | 0.523034 | 3.230579 | 0.005457 | 0.224708 | -3.2585 | 0.57583 | 0.470239 | -0.10559 | 2 | 28668934 | F | II | | IGR | opensea | IGR-opense | | rs6752004 15 |
| cg2618953 | 0.105703 | 0.469752 | 3.229896 | 0.005464 | 0.224708 | -3.25989 | 0.522604 | 0.416901 | -0.1057 | 18 | 56791106 | F | II | | IGR | opensea | IGR-opense | | |
| cg2687819 | 0.112138 | 0.684551 | 3.229641 | 0.005467 | 0.224708 | -3.26042 | 0.74062 | 0.628482 | -0.11214 | 5 | 1794420 | R | II | | IGR | opensea | IGR-opense | | rs5319988 44 |
| cg0357819 | 0.110153 | 0.490685 | 2.765927 | 0.014167 | 0.224708 | -4.1891 | 0.545761 | 0.435608 | -0.11015 | 2 | 63671845 | F | II | C2orf86 | Body | opensea | Body-open: | | rs1121230 0;41 |
| cg2037253 | 0.102272 | 0.630423 | 3.228304 | 0.005482 | 0.224708 | -3.26314 | 0.68156 | 0.579287 | -0.10227 | 1 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | rs5504320 45 |
| cg1353051 | 0.100047 | 0.583884 | 3.228224 | 0.005483 | 0.224708 | -3.2633 | 0.633908 | 0.53386 | -0.10005 | 1 | 30951615 | R | II | | IGR | opensea | IGR-opense | | rs6703542 42;39;14 |
| cg1675590 | 0.103322 | 0.526978 | 3.227249 | 0.005494 | 0.224708 | -3.26529 | 0.578638 | 0.475317 | -0.10332 | 10 | 44567089 | F | II | | IGR | opensea | IGR-opense | | rs5622879 0 |
| cg2174558 | 0.11014 | 0.560804 | 3.286229 | 0.004863 | 0.224708 | -3.14487 | 0.615873 | 0.505734 | -0.11014 | 12 | 12518875 | R | II | LOH12CR1 | Body | opensea | Body-open: | | rs5711745 16;7;1 |
| cg1140446 | 0.118442 | 0.426391 | 3.226051 | 0.005508 | 0.224708 | -3.26773 | 0.485612 | 0.36717 | -0.11844 | 2 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1419365 | 0.110124 | 0.591353 | 3.692467 | 0.002094 | 0.224708 | -2.30762 | 0.646415 | 0.536291 | -0.11012 | 9 | 94178868 | R | II | NFIL3 | 5'UTR | opensea | 5'UTR-open | | |
| cg0832329 | 0.103092 | 0.523448 | 3.224326 | 0.005528 | 0.224708 | -3.27125 | 0.574994 | 0.471902 | -0.10309 | 13 | 80563028 | R | II | | IGR | opensea | IGR-opense | | rs5279103 12;1 |
| cg1051172 | 0.108002 | 0.537156 | 3.223875 | 0.005533 | 0.224708 | -3.27217 | 0.591158 | 0.483155 | -0.108 | 14 | 24813353 | F | II | | IGR | opensea | IGR-opense | | |
| cg2559802 | 0.119195 | 0.561842 | 3.223588 | 0.005536 | 0.224708 | -3.27275 | 0.62144 | 0.502245 | -0.1192 | 2 | 877141 | F | II | | IGR | opensea | IGR-opense | | rs7315303 0;1 |
| cg1026960 | 0.11012 | 0.488129 | 3.248593 | 0.005257 | 0.224708 | -3.22176 | 0.543189 | 0.433069 | -0.11012 | 4 | 1.2E+08 | R | II | USP53 | 5'UTR | opensea | 5'UTR-open | | rs1469883 1 |
| cg1590905 | 0.110057 | 0.524207 | 3.017376 | 0.008472 | 0.224708 | -3.69011 | 0.579236 | 0.469179 | -0.11006 | 12 | 71837175 | R | II | LGR5 | Body | shelf | Body-shelf | chr12:718: | rs5607118 34;1 |
| cg0505945 | 0.115409 | 0.465414 | 3.222426 | 0.00555 | 0.224708 | -3.27512 | 0.523118 | 0.407709 | -0.11541 | 11 | 13011156 | F | II | | IGR | opensea | IGR-opense | | |
| cg1230198 | 0.110046 | 0.501675 | 3.002628 | 0.008733 | 0.224708 | -3.71971 | 0.556698 | 0.446652 | -0.11005 | 2 | 1E+08 | R | II | AFF3 | Body | opensea | Body-open: | | rs1479200 47 |
| cg1176927 | 0.11004 | 0.642794 | 2.704471 | 0.016046 | 0.224896 | -4.30896 | 0.697814 | 0.587774 | -0.11004 | 3 | 1.95E+08 | F | II | XXYLT1 | Body | opensea | Body-open: | | rs5359511 1;45 |
| cg1371440 | 0.110029 | 0.449709 | 3.234311 | 0.005415 | 0.224708 | -3.25089 | 0.504724 | 0.394695 | -0.11003 | 9 | 1.35E+08 | F | II | RAPGEF1 | Body | opensea | Body-open: | | rs5474923 1;18 |
| cg0082663 | 0.110028 | 0.511277 | 2.403072 | 0.029296 | 0.231808 | -4.88164 | 0.566291 | 0.456263 | -0.11003 | 19 | 46969832 | F | II | PNMAL1 | 3'UTR | opensea | 3'UTR-open | | rs5392116 0;15 |
| cg0464507 | 0.109391 | 0.449619 | 3.220266 | 0.005574 | 0.224708 | -3.27952 | 0.504314 | 0.394923 | -0.10939 | 11 | 34393106 | F | II | | IGR | opensea | IGR-opense | | rs5693732 0;4;43 |
| cg0554789 | 0.163382 | 0.461631 | 3.220121 | 0.005576 | 0.224708 | -3.27982 | 0.543321 | 0.37994 | -0.16338 | 3 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs5712945 23;15 |
| cg1220181 | 0.110021 | 0.595131 | 2.312303 | 0.034997 | 0.237181 | -5.04832 | 0.650141 | 0.54012 | -0.11002 | 2 | 39493370 | R | II | MAP4K3 | Body | opensea | Body-open: | | rs1750554 51;17;9 |
| cg1166928 | 0.11002 | 0.318017 | 2.492149 | 0.024564 | 0.227897 | -4.71528 | 0.373027 | 0.263007 | -0.11002 | 5 | 37721782 | R | I | WDR70 | Body | opensea | Body-open: | | rs5643034 25;2 |
| cg1214826 | 0.126653 | 0.586795 | 3.218571 | 0.005594 | 0.224708 | -3.28298 | 0.650122 | 0.523469 | -0.12665 | 2 | 1.21E+08 | F | II | | IGR | shelf | IGR-shelf | chr2:1214: | rs875825 20 |
| cg2538101 | 0.110017 | 0.394115 | 3.389209 | 0.003928 | 0.224708 | -2.93376 | 0.449124 | 0.339107 | -0.11002 | 3 | 3151795 | R | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | rs2290608 38 |
| cg2590022 | 0.109994 | 0.701466 | 3.298935 | 0.004737 | 0.224708 | -3.11888 | 0.756463 | 0.646469 | -0.10999 | 4 | 1.23E+08 | F | II | KIAA1109 | Body | opensea | Body-open: | | rs5416179 32 |
| cg0794895 | 0.10309 | 0.547899 | 3.21599 | 0.005624 | 0.224708 | -3.28823 | 0.599444 | 0.496354 | -0.10309 | 6 | 45649741 | R | II | | IGR | opensea | IGR-opense | | rs1432177 2 |
| cg1784609 | 0.109972 | 0.46244 | 3.366513 | 0.004117 | 0.224708 | -2.98038 | 0.517426 | 0.407454 | -0.10997 | 3 | 1.57E+08 | F | II | LINC00880 | Body | opensea | Body-open: | | rs5338856 1;14;23;39 |
| cg1665226 | 0.11808 | 0.574044 | 3.211915 | 0.005672 | 0.224708 | -3.29653 | 0.633084 | 0.515004 | -0.11808 | 4 | 97948716 | F | II | | IGR | opensea | IGR-opense | | rs5625731 0;24 |
| cg1432935 | 0.109965 | 0.527824 | 3.514474 | 0.003029 | 0.224708 | -2.67577 | 0.582807 | 0.472842 | -0.10996 | 11 | 62573880 | F | II | NXF1 | TSS1500 | shore | TSS1500-sh | chr11:625: | rs5425435 9;33 |
| cg0719877 | 0.10991 | 0.494556 | 2.520241 | 0.023228 | 0.226763 | -4.66228 | 0.549511 | 0.439602 | -0.10991 | 7 | 92439762 | R | II | CDK6 | Body | opensea | Body-open: | | rs1878481 40;32;28;1 |
| cg0647328 | 0.109873 | 0.448831 | 3.067991 | 0.007634 | 0.224708 | -3.58825 | 0.503767 | 0.393894 | -0.10987 | 6 | 32820102 | R | II | TAP1 | Body | shore | Body-shore | chr6:3282( | |
| cg2621968 | 0.10419 | 0.465658 | 3.209719 | 0.005697 | 0.224708 | -3.301 | 0.517752 | 0.413563 | -0.10419 | 2 | 58568596 | F | II | | IGR | opensea | IGR-opense | | rs1812388 8;15;29 |
| cg2353245 | 0.109845 | 0.602103 | 2.775911 | 0.013883 | 0.224708 | -4.16954 | 0.657025 | 0.54718 | -0.10985 | 14 | 75910026 | F | II | JDP2 | Body | opensea | Body-open: | | rs1394330 0 |
| cg0404563 | 0.104759 | 0.563014 | 3.207504 | 0.005723 | 0.224708 | -3.30551 | 0.615393 | 0.510634 | -0.10476 | 2 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs5421717 4;20;50 |
| cg1212026 | 0.109815 | 0.459385 | 2.594563 | 0.020022 | 0.225563 | -4.5209 | 0.514292 | 0.404478 | -0.10981 | 5 | 1.26E+08 | F | II | ALDH7A1 | Body | opensea | Body-open: | | rs1437451 0;29;32 |
| cg0720663 | 0.109803 | 0.584586 | 3.447606 | 0.00348 | 0.224708 | -2.81364 | 0.639487 | 0.529684 | -0.1098 | 5 | 1.42E+08 | R | II | FGF1 | 5'UTR | opensea | 5'UTR-open | | rs1407738 15;6;1 |
| cg0055461 | 0.103058 | 0.504164 | 3.204435 | 0.00576 | 0.224708 | -3.31176 | 0.555693 | 0.452635 | -0.10306 | 16 | 79747651 | R | II | | IGR | opensea | IGR-opense | | rs5353848 48;32;1 |
| cg2630569 | 0.109797 | 0.608189 | 3.86484 | 0.001466 | 0.224708 | -1.95016 | 0.663088 | 0.553291 | -0.1098 | 12 | 442192 | R | II | KDM5A | Body | opensea | Body-open: | | rs1154946 29;1 |
| cg1756034 | 0.109774 | 0.474431 | 3.212402 | 0.005666 | 0.224708 | -3.29554 | 0.529318 | 0.419544 | -0.10977 | 17 | 684490 | F | II | RNMTL1 | TSS1500 | shore | TSS1500-sh | chr17:685: | rs7397552 7;31;44 |
| cg0005222 | 0.109754 | 0.632093 | 3.568966 | 0.002705 | 0.224708 | -2.56323 | 0.686969 | 0.577216 | -0.10975 | 12 | 15783053 | F | II | EPS8 | Body | opensea | Body-open: | | rs5569469 0;31;48 |
| cg1423265 | 0.109664 | 0.52869 | 3.168259 | 0.006207 | 0.224708 | -3.38531 | 0.583522 | 0.473858 | -0.10966 | 14 | 45564553 | F | II | PRPF39 | Body | opensea | Body-open: | | rs5370135 1;27;31 |
| cg0454131 | 0.109584 | 0.43952 | 3.554613 | 0.002787 | 0.224708 | -2.59289 | 0.494312 | 0.384728 | -0.10958 | 15 | 33897878 | F | II | RYR3 | Body | opensea | Body-open: | | rs5532466 7;43 |
| cg1896824 | 0.109514 | 0.457976 | 3.540488 | 0.00287 | 0.224708 | -2.62207 | 0.512733 | 0.40322 | -0.10951 | 4 | 1.24E+08 | F | II | IL21-AS1 | Body | opensea | Body-open: | | rs1143013 9 |
| cg1720706 | 0.109503 | 0.64449 | 2.793208 | 0.013403 | 0.224708 | -4.1356 | 0.699241 | 0.589738 | -0.1095 | 5 | 95624196 | F | II | LOC101929 | Body | opensea | Body-open: | | rs5425205 0;51 |
| cg1304189 | 0.100854 | 0.735801 | 3.201689 | 0.005793 | 0.224708 | -3.31735 | 0.786228 | 0.685374 | -0.10085 | 22 | 47609321 | F | II | | IGR | island | IGR-island | chr22:476( | rs1454939 0;13 |
| cg0592415 | 0.10529 | 0.561304 | 3.201636 | 0.005793 | 0.224708 | -3.31746 | 0.613949 | 0.508659 | -0.10529 | 8 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1963310 | 0.109493 | 0.485039 | 3.547172 | 0.002831 | 0.224708 | -2.60826 | 0.539785 | 0.430292 | -0.10949 | 13 | 50028789 | R | II | SETDB2 | Body | opensea | Body-open: | | rs1853041 1 |
| cg2522382 | 0.109487 | 0.466476 | 3.736624 | 0.001911 | 0.224708 | -2.21611 | 0.521219 | 0.411732 | -0.10949 | 13 | 33593349 | F | II | KL | Body | shore | Body-shore | chr13:335! | rs1919689 1;4 |
| cg1093780 | 0.108684 | 0.379657 | 3.198415 | 0.005832 | 0.224708 | -3.32401 | 0.433999 | 0.325315 | -0.10868 | 4 | 26177098 | F | I | | IGR | opensea | IGR-opense | | rs6847292 12 |
| cg0018217 | 0.109484 | 0.572991 | 2.848197 | 0.011983 | 0.224708 | -4.02726 | 0.627733 | 0.518248 | -0.10948 | 9 | 21852933 | R | II | MTAP | Body | opensea | Body-open: | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0093262 | 0.109478 | 0.656527 | 3.859664 | 0.001482 | 0.224708 | -1.9609 | 0.711266 | 0.601788 | -0.10948 | 14 | 67975805 | F | II | TMEM229B | 5'UTR | opensea | 5'UTR-open | | rs1147882 | 0;1;17 |
| cg1018477 | 0.101514 | 0.476671 | 3.195606 | 0.005866 | 0.224708 | -3.32973 | 0.527428 | 0.425914 | -0.10151 | 17 | 62102410 | R | II | | IGR | opensea | IGR-opense | | rs5323188 | 35;33;26;10;8 |
| cg0519923 | 0.10865 | 0.361547 | 3.195065 | 0.005873 | 0.224708 | -3.33083 | 0.415872 | 0.307222 | -0.10865 | 12 | 43548942 | F | II | | IGR | opensea | IGR-opense | | rs5299120 | 23;34 |
| cg1458429 | 0.109465 | 0.357678 | 2.545272 | 0.022097 | 0.226019 | -4.61485 | 0.41241 | 0.302946 | -0.10946 | 11 | 1.22E+08 | R | II | MIR100HG | Body | opensea | Body-open: | | | |
| cg1145849 | 0.109459 | 0.600297 | 3.884582 | 0.001407 | 0.224708 | -1.90919 | 0.655027 | 0.545568 | -0.10946 | 5 | 1.68E+08 | F | II | SLIT3 | Body | opensea | Body-open: | | rs5539306 | 0;7;19;46 |
| cg0236772 | 0.109448 | 0.621812 | 4.29299 | 0.000608 | 0.224708 | -1.06308 | 0.676536 | 0.567088 | -0.10945 | 1 | 46378857 | F | II | MAST2 | Body | opensea | Body-open: | | rs5390530 | 2;49 |
| cg2185241 | 0.10944 | 0.545509 | 2.794669 | 0.013363 | 0.224708 | -4.13273 | 0.600229 | 0.49079 | -0.10944 | 2 | 2.04E+08 | F | II | ICA1L | Body | opensea | Body-open: | | rs5511272 | 1;30 |
| cg0616053 | 0.109413 | 0.725199 | 2.889854 | 0.011005 | 0.224708 | -3.94476 | 0.779906 | 0.670493 | -0.10941 | 1 | 2.45E+08 | R | II | ADSS | Body | opensea | Body-open: | | | |
| cg2266034 | 0.109411 | 0.514796 | 3.204309 | 0.005761 | 0.224708 | -3.31202 | 0.569501 | 0.46009 | -0.10941 | 20 | 48322124 | R | II | B4GALT5 | Body | opensea | Body-open: | | rs1509631 | 38;20;16;11;2;1 |
| cg0036087 | 0.109391 | 0.658759 | 4.024428 | 0.001055 | 0.224708 | -1.61906 | 0.713454 | 0.604063 | -0.10939 | 5 | 1.74E+08 | R | II | FLJ16171 | Body | opensea | Body-open: | | rs5659952 | 7;1 |
| cg1912796 | 0.109366 | 0.558099 | 2.886795 | 0.011074 | 0.224708 | -3.95083 | 0.612782 | 0.503416 | -0.10937 | 4 | 40827206 | R | II | APBB2 | Body | opensea | Body-open: | | rs5492178 | 30;19;2 |
| cg0715542 | 0.10569 | 0.492646 | 3.189978 | 0.005935 | 0.224708 | -3.34118 | 0.54549 | 0.439801 | -0.10569 | 1 | 12114402 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1231117 | 0.109332 | 0.547334 | 2.908905 | 0.010584 | 0.224708 | -3.90691 | 0.602 | 0.492668 | -0.10933 | 4 | 1.19E+08 | F | II | NDST3 | Body | opensea | Body-open: | | rs1384381 | 28 |
| cg1563888 | 0.109242 | 0.688999 | 4.721155 | 0.000256 | 0.224708 | -0.18437 | 0.743619 | 0.634378 | -0.10924 | 8 | 17212177 | F | II | MTMR7 | Body | opensea | Body-open: | | rs7594166 | 13;31;32;36;49 |
| cg1556652 | 0.109221 | 0.494079 | 3.320044 | 0.004534 | 0.224708 | -3.07567 | 0.548689 | 0.439468 | -0.10922 | 6 | 38068342 | R | II | ZFAND3 | Body | opensea | Body-open: | | rs3738140 | 3 |
| cg1316349 | 0.109216 | 0.639349 | 2.72687 | 0.015335 | 0.224819 | -4.26538 | 0.693957 | 0.584741 | -0.10922 | 1 | 2.16E+08 | R | II | KCTD3 | Body | opensea | Body-open: | | rs5289969 | 10;1 |
| cg1548622 | 0.10919 | 0.429803 | 3.914873 | 0.001322 | 0.224708 | -1.84634 | 0.484398 | 0.375208 | -0.10919 | 8 | 1.02E+08 | F | II | ANKRD46 | Body | opensea | Body-open: | | rs5345086 | 30 |
| cg0325222 | 0.106429 | 0.529166 | 3.186464 | 0.005978 | 0.224708 | -3.34832 | 0.582381 | 0.475952 | -0.10643 | 9 | 22214533 | R | II | | IGR | opensea | IGR-opense | | rs5750912 | 1 |
| cg0481141 | 0.10915 | 0.379342 | 2.765531 | 0.014179 | 0.224708 | -4.18987 | 0.433917 | 0.324767 | -0.10915 | 1 | 1.74E+08 | R | II | SNORD80 | TSS1500 | shelf | TSS1500-sh | chr1:17383 | rs5374956 | 24;7;2 |
| cg0632875 | 0.101422 | 0.580447 | 3.184737 | 0.005999 | 0.224708 | -3.35183 | 0.631158 | 0.529736 | -0.10142 | 7 | 1.57E+08 | R | II | | IGR | shore | IGR-shore | chr7:15737 | rs5724925 | 51;23;8;2 |
| cg1422072 | 0.10913 | 0.714492 | 4.029583 | 0.001043 | 0.224708 | -1.60837 | 0.769057 | 0.659927 | -0.10913 | 4 | 1.02E+08 | R | II | PPP3CA | Body | opensea | Body-open: | | | |
| cg0577212 | 0.109119 | 0.466823 | 3.021025 | 0.008409 | 0.224708 | -3.68278 | 0.521382 | 0.412263 | -0.10912 | 16 | 31539169 | R | II | AHSP | TSS200 | opensea | TSS200-ope | | rs7749354 | 15;2;1 |
| cg0321021 | 0.109096 | 0.58188 | 4.43695 | 0.000454 | 0.224708 | -0.76632 | 0.636428 | 0.527332 | -0.1091 | 5 | 1.19E+08 | R | I | TNFAIP8 | Body | shore | Body-shore | chr5:11869 | rs1134299 | 36 |
| cg1470355 | 0.107362 | 0.484541 | 3.183264 | 0.006018 | 0.224708 | -3.35483 | 0.538222 | 0.43086 | -0.10736 | 1 | 48670405 | F | II | | IGR | opensea | IGR-opense | | rs1390769 | 1;4;10;48;49 |
| cg1582209 | 0.106241 | 0.600589 | 3.183198 | 0.006018 | 0.224708 | -3.35496 | 0.65371 | 0.547469 | -0.10624 | 21 | 26561322 | R | II | | IGR | opensea | IGR-opense | | rs5343791 | 48;12 |
| cg2396735 | 0.10909 | 0.567579 | 3.378279 | 0.004018 | 0.224708 | -2.95622 | 0.622123 | 0.513034 | -0.10909 | 5 | 1.06E+08 | R | II | LOC10246 | Body | opensea | Body-open: | | rs1924286 | 36;14 |
| cg2339701 | 0.108801 | 0.469584 | 3.182542 | 0.006027 | 0.224708 | -3.35629 | 0.523984 | 0.415183 | -0.1088 | 10 | 10571132 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1720857 | 0.100609 | 0.64389 | 3.182433 | 0.006028 | 0.224708 | -3.35652 | 0.694194 | 0.593586 | -0.10061 | 9 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5649433 | 13;27 |
| cg1244350 | 0.102189 | 0.497056 | 3.182238 | 0.00603 | 0.224708 | -3.35691 | 0.54815 | 0.445961 | -0.10219 | 2 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5491095 | 9 |
| cg0052437 | 0.100566 | 0.305625 | 3.180781 | 0.006049 | 0.224708 | -3.35987 | 0.355908 | 0.255342 | -0.10057 | 10 | 3894968 | F | II | | IGR | opensea | IGR-opense | | rs1456447 | 0;1;24;39 |
| cg0027566 | 0.109076 | 0.499979 | 2.860994 | 0.011674 | 0.224708 | -4.00195 | 0.554516 | 0.445441 | -0.10908 | 20 | 48317973 | R | II | B4GALT5 | Body | opensea | Body-open: | | rs1414485 | 1 |
| cg0223925 | 0.140476 | 0.606008 | 3.179817 | 0.006061 | 0.224708 | -3.36183 | 0.676246 | 0.53577 | -0.14048 | 8 | 8241752 | F | II | | IGR | shore | IGR-shore | chr8:82435 | rs2976956 | 20 |
| cg1443827 | 0.109069 | 0.488732 | 2.973516 | 0.009271 | 0.224708 | -3.77803 | 0.543266 | 0.434198 | -0.10907 | 5 | 1.43E+08 | F | II | NR3C1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0236070 | 0.109063 | 0.455539 | 3.321866 | 0.004517 | 0.224708 | -3.07193 | 0.51007 | 0.401007 | -0.10906 | 5 | 1.45E+08 | F | II | SH3RF2 | 5'UTR | shore | 5'UTR-shor | chr5:14533 | rs5458217 | 0;4;8;19 |
| cg1652994 | 0.109024 | 0.682165 | 3.15286 | 0.006408 | 0.224708 | -3.41657 | 0.736677 | 0.627653 | -0.10902 | 10 | 98896466 | F | II | SLIT1 | Body | opensea | Body-open: | | rs1427190 | 0;45 |
| cg2149585 | 0.115706 | 0.394102 | 3.177606 | 0.006088 | 0.224708 | -3.36633 | 0.451956 | 0.336249 | -0.11571 | 1 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1886349 | 42;2;1 |
| cg1735582 | 0.109023 | 0.434783 | 3.042672 | 0.008043 | 0.224708 | -3.63925 | 0.489294 | 0.380271 | -0.10902 | 14 | 72516174 | R | II | RGS6 | 5'UTR | opensea | 5'UTR-open | | rs5482225 | 22;16;4;2 |
| cg2102814 | 0.109011 | 0.465191 | 2.338115 | 0.033277 | 0.235474 | -5.00123 | 0.519696 | 0.410685 | -0.10901 | 17 | 79581711 | F | II | NPLOC4 | Body | opensea | Body-open: | | rs5644910 | 42;43 |
| cg0972886 | 0.108993 | 0.429319 | 2.150841 | 0.047779 | 0.252347 | -5.33691 | 0.483815 | 0.374822 | -0.10899 | 15 | 85951572 | R | II | AKAP13 | 5'UTR | opensea | 5'UTR-open | | rs5523923 | 14 |
| cg2697586 | 0.10899 | 0.4799 | 2.955325 | 0.009624 | 0.224708 | -3.81439 | 0.534395 | 0.425404 | -0.10899 | 1 | 57590662 | F | II | DAB1 | Body | opensea | Body-open: | | rs5557882 | 1;26 |
| cg1720687 | 0.135327 | 0.647202 | 3.174804 | 0.006124 | 0.224708 | -3.37202 | 0.714866 | 0.579539 | -0.13533 | 8 | 74983376 | R | II | | IGR | opensea | IGR-opense | | rs1124376 | 51;40 |
| cg2586738 | 0.108959 | 0.515989 | 2.780653 | 0.01375 | 0.224708 | -4.16024 | 0.570469 | 0.46151 | -0.10896 | 8 | 27936225 | R | II | NUGGC | 5'UTR | opensea | 5'UTR-open | | rs5599172 | 6;2;1 |
| cg1349344 | 0.106993 | 0.610927 | 3.174018 | 0.006134 | 0.224708 | -3.37362 | 0.664424 | 0.557431 | -0.10699 | 3 | 5833716 | F | II | | IGR | opensea | IGR-opense | | rs5601762 | 0;1 |
| cg1773152 | 0.108956 | 0.625417 | 3.535715 | 0.002899 | 0.224708 | -2.63192 | 0.679895 | 0.570939 | -0.10896 | 3 | 27235572 | R | II | NEK10 | Body | opensea | Body-open: | | rs1385442 | 51;15;6 |
| cg0664565 | 0.108935 | 0.586181 | 2.941633 | 0.009898 | 0.224708 | -3.84172 | 0.640648 | 0.531714 | -0.10893 | 2 | 1.53E+08 | F | II | CACNB4 | Body | opensea | Body-open: | | rs1488132 | 0;1;30;36;43;51 |
| cg2189452 | 0.108929 | 0.607749 | 2.653969 | 0.017768 | 0.225076 | -4.40675 | 0.662214 | 0.553285 | -0.10893 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-open: | | rs5773163 | 40 |
| cg1714394 | 0.108925 | 0.492319 | 3.059563 | 0.007768 | 0.224708 | -3.60524 | 0.546782 | 0.437857 | -0.10893 | 12 | 1.17E+08 | R | II | FBXW8 | Body | opensea | Body-open: | | rs1458689 | 40;18;2 |
| cg0475741 | 0.108884 | 0.553352 | 3.116785 | 0.006903 | 0.224708 | -3.48967 | 0.607794 | 0.49891 | -0.10888 | 13 | 76259545 | F | II | LMO7 | Body | opensea | Body-open: | | rs7483109 | 21;30 |
| cg1053374 | 0.108876 | 0.675268 | 3.596307 | 0.002556 | 0.224708 | -2.5067 | 0.729706 | 0.62083 | -0.10888 | 10 | 1400014 | F | II | ADARB2 | Body | opensea | Body-open: | | rs1485166 | 22;49 |
| cg1542579 | 0.106879 | 0.481935 | 3.168303 | 0.006207 | 0.224708 | -3.38523 | 0.535375 | 0.428496 | -0.10688 | 21 | 43820702 | R | II | | IGR | opensea | IGR-opense | | rs5284330 | 49;32;1 |
| cg2263182 | 0.108847 | 0.458093 | 2.797029 | 0.013299 | 0.224708 | -4.12809 | 0.512517 | 0.40367 | -0.10885 | 6 | 1.44E+08 | R | II | ZC2HC1B | Body | opensea | Body-open: | | | |
| cg1788306 | 0.108825 | 0.645275 | 3.466991 | 0.003343 | 0.224708 | -2.7737 | 0.699688 | 0.590863 | -0.10883 | 15 | 57277634 | R | II | TCF12 | Body | opensea | Body-open: | | | |
| cg1159481 | 0.108801 | 0.512662 | 3.06261 | 0.007719 | 0.224708 | -3.59909 | 0.567063 | 0.458262 | -0.1088 | 11 | 1.15E+08 | F | II | CADM1 | Body | opensea | Body-open: | | rs3774602 | 2;14;20;21;23 |
| cg1795101 | 0.115165 | 0.448948 | 3.165989 | 0.006236 | 0.224708 | -3.38993 | 0.506531 | 0.391365 | -0.11517 | 11 | 59972522 | F | II | | IGR | opensea | IGR-opense | | rs1907343 | 29 |
| cg2329546 | 0.108799 | 0.513169 | 3.077003 | 0.007494 | 0.224708 | -3.57007 | 0.567569 | 0.458769 | -0.1088 | 7 | 87919037 | F | II | STEAP4 | 5'UTR | opensea | 5'UTR-open | | rs5337284 | 0;30 |
| cg2421127 | 0.108781 | 0.446708 | 3.987875 | 0.001137 | 0.224708 | -1.69488 | 0.501098 | 0.392317 | -0.10878 | 14 | 1.01E+08 | F | II | WDR25 | Body | opensea | Body-open: | | rs5416025 | 30 |
| cg0554047 | 0.112645 | 0.367677 | 3.16529 | 0.006245 | 0.224708 | -3.39135 | 0.424 | 0.311355 | -0.11265 | 3 | 1.97E+08 | R | II | | IGR | shore | IGR-shore | chr3:19715 | rs5438732 | 1 |
| cg0138533 | 0.108769 | 0.644898 | 2.155689 | 0.047339 | 0.251776 | -5.32841 | 0.699282 | 0.590513 | -0.10877 | 2 | 1.28E+08 | F | II | MYO7B | Body | shore | Body-shore | chr2:12838 | rs1142165 | 0;17 |
| cg0275513 | 0.108764 | 0.583784 | 2.689929 | 0.016525 | 0.224896 | -4.33719 | 0.638166 | 0.529402 | -0.10876 | 4 | 1.84E+08 | F | II | WWC2 | Body | opensea | Body-open: | | rs1045480 | 15;46 |
| cg0571620 | 0.122404 | 0.478145 | 3.164019 | 0.006262 | 0.224708 | -3.39393 | 0.539347 | 0.416944 | -0.1224 | 4 | 1.75E+08 | R | II | | IGR | opensea | IGR-opense | | rs5379179 | 50;48;8;2;1 |
| cg1554257 | 0.109143 | 0.460568 | 3.162214 | 0.006285 | 0.224708 | -3.39759 | 0.515139 | 0.405997 | -0.10914 | 6 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0826803 | 0.121065 | 0.419123 | 3.162014 | 0.006288 | 0.224708 | -3.39799 | 0.479656 | 0.358591 | -0.12107 | 1 | 2.3E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1643564 | 0.108721 | 0.395622 | 3.470432 | 0.003319 | 0.224708 | -2.76661 | 0.449982 | 0.341261 | -0.10872 | 6 | 1.28E+08 | F | II | THEMIS | 5'UTR | opensea | 5'UTR-open | | rs5667728 | 19 |
| cg2213009 | 0.108709 | 0.620735 | 3.342827 | 0.004325 | 0.224708 | -3.02897 | 0.675089 | 0.566381 | -0.10871 | 2 | 59098148 | F | II | LINC01122 | Body | opensea | Body-open: | | rs7553148 | 0;6;26 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0247252 | 0.108681 | 0.703505 | 2.868286 | 0.011501 | 0.224708 | -3.98752 | 0.757846 | 0.649165 | -0.10868 | 1 | 1E+08 | F | II | PALMD | Body | opensea | Body-opens | | rs1162021 | 47 |
| cg0187172 | 0.108663 | 0.43957 | 4.232715 | 0.000688 | 0.224708 | -1.18764 | 0.493901 | 0.385238 | -0.10866 | 12 | 32120103 | R | II | C12orf35 | 5'UTR | opensea | 5'UTR-open | | rs5630743 | 33;22;19;11 |
| cg1600159 | 0.109414 | 0.577304 | 3.157854 | 0.006342 | 0.224708 | -3.40644 | 0.632011 | 0.522597 | -0.10941 | 10 | 3800109 | R | II | | IGR | opensea | IGR-opense | | rs1895452 | 37;35;2;1 |
| cg1287001 | 0.102166 | 0.627653 | 3.157131 | 0.006352 | 0.224708 | -3.40791 | 0.678736 | 0.57657 | -0.10217 | 10 | 3847895 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2484473 | 0.105187 | 0.641623 | 3.156847 | 0.006355 | 0.224708 | -3.40848 | 0.694216 | 0.58903 | -0.10519 | 21 | 47075042 | F | II | | IGR | opensea | IGR-opense | | rs1918137 | 0;46 |
| cg0075719 | 0.108663 | 0.427339 | 2.7635 | 0.014237 | 0.224708 | -4.19385 | 0.481671 | 0.373007 | -0.10866 | 3 | 1.85E+08 | R | II | IGF2BP2 | Body | opensea | Body-opens | | rs1811918 | 1 |
| cg0355697 | 0.108648 | 0.550115 | 3.196077 | 0.00586 | 0.224708 | -3.32877 | 0.604439 | 0.495791 | -0.10865 | 13 | 24249366 | F | II | TNFRSF19 | 3'UTR | opensea | 3'UTR-open | | rs5426259 | 0 |
| cg0888230 | 0.104913 | 0.46032 | 3.15452 | 0.006386 | 0.224708 | -3.41321 | 0.512776 | 0.407863 | -0.10491 | 19 | 29489929 | R | II | | IGR | opensea | IGR-opense | | rs1404326 | 46;24;2 |
| cg2017532 | 0.108627 | 0.479531 | 2.770765 | 0.014029 | 0.224708 | -4.17963 | 0.533844 | 0.425217 | -0.10863 | 13 | 50858812 | F | II | DLEU1 | Body | opensea | Body-opens | | rs5378112 | 0 |
| cg0075782 | 0.108597 | 0.557229 | 2.509818 | 0.023715 | 0.227118 | -4.68197 | 0.611528 | 0.502931 | -0.1086 | 3 | 1.55E+08 | R | II | PLCH1 | Body | opensea | Body-opens | | rs5756424 | 33 |
| cg1040107 | 0.108572 | 0.436901 | 3.374242 | 0.004052 | 0.224708 | -2.96451 | 0.491187 | 0.382615 | -0.10857 | 1 | 66673501 | R | II | PDE4B | Body | opensea | Body-opens | | rs5399550 | 45;26;24;1 |
| cg2579131 | 0.108543 | 0.550671 | 2.911119 | 0.010537 | 0.224708 | -3.9025 | 0.604943 | 0.496399 | -0.10854 | 14 | 1E+08 | R | II | EML1 | Body | opensea | Body-opens | | rs1380450 | 2;1 |
| cg2440142 | 0.108527 | 0.626934 | 4.311811 | 0.000585 | 0.224708 | -1.02422 | 0.681197 | 0.57267 | -0.10853 | 5 | 77014952 | R | II | TBCA | Body | opensea | Body-opens | | rs5481307 | 1 |
| cg1812171 | 0.108504 | 0.492728 | 2.809669 | 0.012962 | 0.224708 | -4.10324 | 0.54698 | 0.438476 | -0.1085 | 2 | 17738759 | F | II | VSNL1 | 5'UTR | opensea | 5'UTR-open | | rs5559629 | 0;8;15;32 |
| cg0979825 | 0.108488 | 0.522226 | 2.923427 | 0.010274 | 0.224708 | -3.87801 | 0.57647 | 0.467982 | -0.10849 | 8 | 59763565 | R | II | TOX | Body | opensea | Body-opens | | rs5524859 | 30 |
| cg0612731 | 0.108463 | 0.483689 | 3.006494 | 0.008664 | 0.224708 | -3.71195 | 0.537921 | 0.429458 | -0.10846 | 11 | 9599460 | R | II | WEE1 | Body | shelf | Body-shelf | chr11:9594 | rs5500584 | 35;1 |
| cg0745533 | 0.108429 | 0.776295 | 3.052917 | 0.007875 | 0.224708 | -3.61863 | 0.830509 | 0.72208 | -0.10843 | 1 | 62219881 | R | II | INADL | 5'UTR | opensea | 5'UTR-open | | rs5532823 | 35;1 |
| cg2521453 | 0.108425 | 0.76686 | 4.521241 | 0.000383 | 0.224708 | -0.59312 | 0.821073 | 0.712648 | -0.10842 | 1 | 1.86E+08 | F | II | PDC | 5'UTR | opensea | 5'UTR-open | | | |
| cg2329127 | 0.108421 | 0.6084 | 3.14892 | 0.00646 | 0.224708 | -3.42456 | 0.662611 | 0.55419 | -0.10842 | 12 | 15866615 | F | II | EPS8 | 5'UTR | opensea | 5'UTR-open | | rs5346277 | 50 |
| cg2302587 | 0.108403 | 0.585164 | 3.436966 | 0.003558 | 0.224708 | -2.83554 | 0.639366 | 0.530963 | -0.1084 | 7 | 77487860 | F | II | PHTF2 | Body | opensea | Body-opens | | rs5363026 | 41;41 |
| cg2117895 | 0.108377 | 0.401394 | 2.414235 | 0.028659 | 0.231242 | -4.86094 | 0.455583 | 0.347206 | -0.10838 | 5 | 1.49E+08 | R | II | ABLIM3 | Body | opensea | Body-opens | | rs7953774 | 48;44 |
| cg0066987 | 0.108366 | 0.413636 | 4.013084 | 0.00108 | 0.224708 | -1.64259 | 0.467819 | 0.359453 | -0.10837 | 12 | 59195970 | F | II | LOC100506 | Body | opensea | Body-opens | | rs5675286 | 8 |
| cg2547879 | 0.108355 | 0.620851 | 3.177339 | 0.006092 | 0.224708 | -3.36687 | 0.675028 | 0.566674 | -0.10835 | 8 | 1.41E+08 | R | II | TRAPPC9 | Body | opensea | Body-opens | | rs5703298 | 34;30;10 |
| cg1237813 | 0.17006 | 0.372018 | 3.140933 | 0.006568 | 0.224708 | -3.44076 | 0.457048 | 0.286988 | -0.17006 | 3 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs1143720 | 48;13 |
| cg0062543 | 0.118346 | 0.52307 | 3.140498 | 0.006574 | 0.224708 | -3.44164 | 0.582243 | 0.463897 | -0.11835 | 11 | 34706961 | R | II | | IGR | opensea | IGR-opense | | rs5525057 | 48;42;1 |
| cg1857398 | 0.104983 | 0.561013 | 3.139978 | 0.006581 | 0.224708 | -3.4427 | 0.613505 | 0.508522 | -0.10498 | 2 | 85908284 | F | II | | IGR | opensea | IGR-opense | | rs1393303 | 0 |
| cg1424183 | 0.100299 | 0.567947 | 3.139702 | 0.006584 | 0.224708 | -3.44326 | 0.618097 | 0.517798 | -0.1003 | 7 | 48124921 | R | II | | IGR | shelf | IGR-shelf | chr7:4812 | rs5325277 | 1 |
| cg2069646 | 0.108158 | 0.534119 | 3.139274 | 0.00659 | 0.224708 | -3.44412 | 0.588198 | 0.48004 | -0.10816 | 16 | 54277492 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0536068 | 0.10434 | 0.416201 | 3.139217 | 0.006591 | 0.224708 | -3.44424 | 0.468371 | 0.364031 | -0.10434 | 14 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1857465 | 2 |
| cg2710004 | 0.106166 | 0.543427 | 3.138144 | 0.006606 | 0.224708 | -3.44641 | 0.59651 | 0.490344 | -0.10617 | 20 | 49311875 | F | II | | IGR | opensea | IGR-opense | | rs5286891 | 0;1;2;26;26;29 |
| cg0551627 | 0.103765 | 0.603881 | 3.138106 | 0.006606 | 0.224708 | -3.44649 | 0.655763 | 0.551998 | -0.10376 | 10 | 60237728 | R | II | | IGR | opensea | IGR-opense | | rs5423898 | 11 |
| cg0296844 | 0.108344 | 0.42784 | 2.837139 | 0.012256 | 0.224708 | -4.0491 | 0.482012 | 0.373668 | -0.10834 | 2 | 68972158 | F | II | ARHGAP25 | Body | opensea | Body-opens | | rs5400394 | 0;1 |
| cg0842826 | 0.108314 | 0.573128 | 4.241961 | 0.000675 | 0.224708 | -1.16853 | 0.627285 | 0.51897 | -0.10831 | 7 | 55238412 | F | II | EGFR | 3'UTR | opensea | 3'UTR-open | | rs5651051 | 6;44;47;49 |
| cg1305295 | 0.108233 | 0.381177 | 5.668156 | 4.07E-05 | 0.208563 | 1.699371 | 0.435293 | 0.32706 | -0.10823 | 1 | 37467416 | F | II | GRIK3 | Body | opensea | Body-opens | | rs5567807 | 50 |
| cg1284737 | 0.108226 | 0.458713 | 2.682815 | 0.016764 | 0.224901 | -4.35098 | 0.512826 | 0.4046 | -0.10823 | 19 | 13056058 | R | II | RAD23A | TSS1500 | shore | TSS1500-sh | chr19:1305 | | |
| cg2425654 | 0.114157 | 0.50757 | 3.133254 | 0.006673 | 0.224708 | -3.45632 | 0.564649 | 0.450492 | -0.11416 | 12 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs1122641 | 49;21;2 |
| cg1714101 | 0.100683 | 0.644961 | 3.132662 | 0.006681 | 0.224708 | -3.45752 | 0.695303 | 0.594619 | -0.10068 | 1 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | rs5660502 | 28;45 |
| cg1873597 | 0.108183 | 0.47872 | 3.276565 | 0.004961 | 0.224708 | -3.16463 | 0.532811 | 0.424628 | -0.10818 | 1 | 2.08E+08 | R | II | CD46 | Body | shelf | Body-shelf | chr1:2079 | rs1178757 | 26;1 |
| cg0560415 | 0.101077 | 0.381341 | 3.132088 | 0.006689 | 0.224708 | -3.45869 | 0.431879 | 0.330802 | -0.10108 | 2 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5407355 | 24;2;1 |
| cg0437525 | 0.108159 | 0.392243 | 3.082158 | 0.007414 | 0.224708 | -3.55966 | 0.446322 | 0.338164 | -0.10816 | 5 | 66241308 | F | II | MAST4 | Body | opensea | Body-opens | | rs1150686 | 0;23;42 |
| cg0623543 | 0.108156 | 0.450129 | 3.814984 | 0.001625 | 0.224708 | -2.05359 | 0.504207 | 0.396051 | -0.10816 | 16 | 30485966 | F | II | ITGAL | Body | shore | Body-shore | chr16:3048 | rs5437776 | 3;47 |
| cg1808751 | 0.108103 | 0.553738 | 2.87769 | 0.011282 | 0.224708 | -3.96888 | 0.60779 | 0.499687 | -0.1081 | 1 | 2.42E+08 | F | II | KMO | Body | opensea | Body-opens | | rs7709607 | 1;36 |
| cg0608900 | 0.11858 | 0.528499 | 3.130108 | 0.006716 | 0.224708 | -3.4627 | 0.587789 | 0.469209 | -0.11858 | 15 | 50427638 | F | II | | IGR | opensea | IGR-opense | | rs1749960 | 8;39 |
| cg0141639 | 0.108101 | 0.437614 | 3.184505 | 0.006002 | 0.224708 | -3.3523 | 0.491664 | 0.383564 | -0.1081 | 20 | 55806433 | R | II | BMP7 | Body | opensea | Body-opens | | rs5555885 | 36;14 |
| cg2119172 | 0.112951 | 0.585407 | 3.12896 | 0.006732 | 0.224708 | -3.46502 | 0.641882 | 0.528931 | -0.11295 | 20 | 46086203 | F | II | | IGR | opensea | IGR-opense | | rs1180112 | 1;50 |
| cg1232214 | 0.117223 | 0.645164 | 3.128949 | 0.006732 | 0.224708 | -3.46505 | 0.703775 | 0.586552 | -0.11722 | 3 | 29197502 | R | II | | IGR | opensea | IGR-opense | | rs4680717 | 37;2 |
| cg2358205 | 0.108085 | 0.645074 | 3.281007 | 0.004916 | 0.224708 | -3.15555 | 0.699117 | 0.591032 | -0.10808 | 3 | 3152201 | R | II | IL5RA | TSS200 | opensea | TSS200-ope | | rs1132542 | 28;17;12;9 |
| cg2694621 | 0.100561 | 0.720573 | 3.128278 | 0.006742 | 0.224708 | -3.4664 | 0.770853 | 0.670292 | -0.10056 | 2 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs1807187 | 44;34;1 |
| cg1754975 | 0.108083 | 0.669544 | 3.488257 | 0.003199 | 0.224708 | -2.72986 | 0.723585 | 0.615502 | -0.10808 | 14 | 33981965 | R | II | NPAS3 | Body | opensea | Body-opens | | rs8012701 | 37;1 |
| cg0847861 | 0.108051 | 0.546812 | 2.975537 | 0.009233 | 0.224708 | -3.77398 | 0.600838 | 0.492787 | -0.10805 | 10 | 48372128 | R | II | ZNF488 | 3'UTR | shore | 3'UTR-shor | chr10:483 | rs5355257 | 2 |
| cg1486616 | 0.10154 | 0.507477 | 3.127371 | 0.006754 | 0.224708 | -3.46824 | 0.558247 | 0.456707 | -0.10154 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1863095 | 48 |
| cg1124864 | 0.108046 | 0.546275 | 2.855712 | 0.0118 | 0.224708 | -4.0124 | 0.600298 | 0.492252 | -0.10805 | 12 | 50645711 | F | II | LIMA1 | 5'UTR | opensea | 5'UTR-open | | rs5773929 | 0 |
| cg0173693 | 0.108045 | 0.54808 | 3.391165 | 0.003912 | 0.224708 | -2.92974 | 0.602102 | 0.494057 | -0.10804 | 2 | 1.06E+08 | F | II | FHL2 | TSS200 | opensea | TSS200-ope | | rs1122585 | 4;12;13 |
| cg1815668 | 0.107558 | 0.388269 | 3.125623 | 0.006779 | 0.224708 | -3.47178 | 0.442048 | 0.33449 | -0.10756 | 6 | 53097064 | R | II | | IGR | opensea | IGR-opense | | rs1490449 | 16;4;1 |
| cg2733558 | 0.108045 | 0.506107 | 2.759143 | 0.014364 | 0.224708 | -4.20238 | 0.560129 | 0.452085 | -0.10804 | 5 | 95616198 | F | II | LOC101925 | Body | opensea | Body-opens | | | |
| cg1155498 | 0.107939 | 0.652956 | 3.292908 | 0.004796 | 0.224708 | -3.13121 | 0.706926 | 0.598987 | -0.10794 | 14 | 32937945 | R | II | AKAP6 | Body | opensea | Body-opens | | rs1163562 | 40;34;11 |
| cg0089229 | 0.119975 | 0.466058 | 3.121713 | 0.006834 | 0.224708 | -3.4797 | 0.526046 | 0.406071 | -0.11998 | 13 | 49323918 | F | II | | IGR | opensea | IGR-opense | | rs5729498 | 32 |
| cg0487384 | 0.100931 | 0.486906 | 3.120992 | 0.006844 | 0.224708 | -3.48116 | 0.537371 | 0.43644 | -0.10093 | 8 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5628726 | 0 |
| cg1085327 | 0.102967 | 0.622351 | 3.120462 | 0.006851 | 0.224708 | -3.48223 | 0.673834 | 0.570867 | -0.10297 | 8 | 86436099 | R | II | | IGR | opensea | IGR-opense | | rs1918059 | 29 |
| cg0130600 | 0.111287 | 0.600563 | 3.119874 | 0.006859 | 0.224708 | -3.48342 | 0.656206 | 0.544919 | -0.11129 | 2 | 24802612 | F | II | | IGR | opensea | IGR-opense | | rs5566489 | 0;17 |
| cg1744819 | 0.107936 | 0.399824 | 3.055448 | 0.007834 | 0.224708 | -3.61353 | 0.453793 | 0.345856 | -0.10794 | 3 | 1.87E+08 | R | II | ST6GAL1 | 5'UTR | opensea | 5'UTR-open | | rs1848526 | 29;25 |
| cg2474607 | 0.107897 | 0.742764 | 3.801976 | 0.001669 | 0.224708 | -2.08058 | 0.796713 | 0.688816 | -0.1079 | 10 | 1286380 | F | II | ADARB2 | Body | shore | Body-shore | chr10:128 | rs1886741 | 30;37;47 |
| cg0401550 | 0.107865 | 0.765704 | 2.617872 | 0.019107 | 0.225391 | -4.47623 | 0.819636 | 0.711771 | -0.10787 | 13 | 1.13E+08 | R | I | TUBGCP3 | Body | island | Body-islanc | chr13:113 | rs5531276 | 51;31;30;15;12 |
| cg0327856 | 0.107857 | 0.628998 | 3.363814 | 0.004141 | 0.224708 | -2.98592 | 0.682926 | 0.575069 | -0.10786 | 5 | 5166415 | F | II | ADAMTS16 | Body | opensea | Body-opens | | rs3462702 | 0;3 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0680570 | 0.107843 | 0.549267 | 3.679044 | 0.002153 | 0.224708 | -2.33543 | 0.603189 | 0.495346 | -0.10784 | 16 | 81160871 | F | II | PKD1L2 | Body | opensea | Body-opens | | rs3408037 11 |
| cg0389256 | 0.107831 | 0.673978 | 3.219853 | 0.005579 | 0.224708 | -3.28036 | 0.727894 | 0.620062 | -0.10783 | 1 | 1.45E+08 | R | II | PDE4DIP | Body | shore | Body-shore | chr1:14507 | |
| cg1393153 | 0.103957 | 0.710959 | 3.11365 | 0.006948 | 0.224708 | -3.49602 | 0.762938 | 0.658981 | -0.10396 | 9 | 19791354 | F | II | | IGR | shelf | IGR-shelf | chr9:19788 | |
| cg1258012 | 0.107728 | 0.583629 | 3.111895 | 0.006973 | 0.224708 | -3.49957 | 0.637492 | 0.529765 | -0.10773 | 4 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | rs5774945 1;35 |
| cg0429653 | 0.107816 | 0.402065 | 3.20342 | 0.005772 | 0.224708 | -3.31383 | 0.455973 | 0.348157 | -0.10782 | 14 | 95778707 | F | II | CLMN | Body | opensea | Body-opens | | rs1928476 0;1;7;26 |
| cg1102206 | 0.107783 | 0.512665 | 3.544507 | 0.002846 | 0.224708 | -2.61376 | 0.566556 | 0.458773 | -0.10778 | 15 | 83298969 | F | II | CPEB1 | Body | opensea | Body-opens | | |
| cg2406791 | 0.107783 | 0.547785 | 2.994637 | 0.008878 | 0.224708 | -3.73573 | 0.601676 | 0.493894 | -0.10778 | 6 | 16729610 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | |
| cg2038076 | 0.107719 | 0.583278 | 2.655825 | 0.017702 | 0.225076 | -4.40317 | 0.637138 | 0.529419 | -0.10772 | 7 | 1.3E+08 | F | II | MEST | TSS1500 | shore | TSS1500-sh | chr7:13011 | rs5505774 37 |
| cg0673878 | 0.107641 | 0.418108 | 3.227215 | 0.005495 | 0.224708 | -3.26536 | 0.471928 | 0.364287 | -0.10764 | 20 | 19265058 | R | II | LOC10013( | Body | opensea | Body-opens | | rs3692381 49;42 |
| cg0138037 | 0.107641 | 0.560474 | 2.876748 | 0.011304 | 0.224708 | -3.97075 | 0.614294 | 0.506653 | -0.10764 | 4 | 40765329 | F | II | NSUN7 | Body | opensea | Body-opens | | rs5355926 6;7 |
| cg1267218 | 0.124806 | 0.573661 | 3.108142 | 0.007028 | 0.224708 | -3.50716 | 0.636064 | 0.511258 | -0.12481 | 6 | 32427868 | R | II | | IGR | opensea | IGR-opense | | rs2873223 29 |
| cg2323177 | 0.11633 | 0.584695 | 3.107386 | 0.007039 | 0.224708 | -3.50869 | 0.642861 | 0.52653 | -0.11633 | 1 | 1.69E+08 | R | II | | IGR | opensea | IGR-opense | | rs5602669 2;1 |
| cg1956153 | 0.107611 | 0.487382 | 2.740271 | 0.014924 | 0.224708 | -4.23925 | 0.541187 | 0.433576 | -0.10761 | 5 | 1.31E+08 | F | II | RAPGEF6 | Body | opensea | Body-opens | | rs1922406 0;12;27 |
| cg2517992 | 0.107574 | 0.724168 | 3.238544 | 0.005367 | 0.224708 | -3.24226 | 0.777955 | 0.670382 | -0.10757 | 8 | 16959530 | R | II | MICU3 | Body | opensea | Body-opens | | rs5549638 51;9;5 |
| cg0634918 | 0.107566 | 0.676893 | 3.167667 | 0.006215 | 0.224708 | -3.38652 | 0.730676 | 0.62311 | -0.10757 | 1 | 1.78E+08 | R | II | RASAL2 | Body | opensea | Body-opens | | rs1853940 40;36;31;26;4;1 |
| cg0620828 | 0.141143 | 0.221139 | 3.106753 | 0.007048 | 0.224708 | -3.50997 | 0.291711 | 0.150568 | -0.14114 | 1 | 58858074 | R | I | | IGR | opensea | IGR-opense | | rs849493 17 |
| cg1961950 | 0.104987 | 0.429337 | 3.106402 | 0.007053 | 0.224708 | -3.51068 | 0.48183 | 0.376843 | -0.10499 | 11 | 85850481 | F | II | | IGR | opensea | IGR-opense | | rs1504211 10;30;36;43 |
| cg0932952 | 0.113834 | 0.555021 | 3.106296 | 0.007054 | 0.224708 | -3.51089 | 0.611939 | 0.498104 | -0.11383 | 1 | 1.82E+08 | R | II | | IGR | opensea | IGR-opense | | rs1481664 41;40;25 |
| cg1385683 | 0.107515 | 0.613043 | 3.037187 | 0.008134 | 0.224708 | -3.65029 | 0.666801 | 0.559285 | -0.10752 | 3 | 1.57E+08 | F | II | LINC00886 | Body | opensea | Body-opens | | rs5392272 1 |
| cg0537474 | 0.107435 | 0.660194 | 2.783379 | 0.013674 | 0.224708 | -4.1549 | 0.713911 | 0.606476 | -0.10743 | 10 | 13770043 | F | II | FRMD4A | Body | opensea | Body-opens | | rs6602676 22 |
| cg1681640 | 0.10743 | 0.584203 | 4.052277 | 0.000996 | 0.224708 | -1.56131 | 0.637918 | 0.530488 | -0.10743 | 9 | 1.38E+08 | R | II | FCN1 | TSS200 | opensea | TSS200-ope | | rs2890997 4;1 |
| cg1334271 | 0.107426 | 0.634261 | 3.168879 | 0.006199 | 0.224708 | -3.38406 | 0.687974 | 0.580548 | -0.10743 | 3 | 1.23E+08 | F | II | MYLK | Body | opensea | Body-opens | | rs1124707 3 |
| cg1802326 | 0.107426 | 0.537631 | 3.306174 | 0.004666 | 0.224708 | -3.10407 | 0.591344 | 0.483918 | -0.10743 | 11 | 84403466 | R | II | DLG2 | Body | opensea | Body-opens | | rs5309154 2 |
| cg0200593 | 0.10741 | 0.636986 | 2.596264 | 0.019954 | 0.225563 | -4.51764 | 0.690691 | 0.583281 | -0.10741 | 13 | 74137411 | F | II | LINC00392 | TSS1500 | opensea | TSS1500-op | | rs5739170 18 |
| cg2578870 | 0.100251 | 0.617866 | 3.104266 | 0.007084 | 0.224708 | -3.515 | 0.667992 | 0.567741 | -0.10025 | 17 | 40225722 | F | II | | IGR | shore | IGR-shore | chr17:402 | rs5584147 1 |
| cg2684911 | 0.107398 | 0.531022 | 3.222884 | 0.005544 | 0.224708 | -3.27419 | 0.584721 | 0.477323 | -0.1074 | 3 | 1.24E+08 | R | II | KALRN | 3'UTR | opensea | 3'UTR-open | | rs1906726 0;1;25 |
| cg2327783 | 0.107393 | 0.591475 | 2.30059 | 0.035804 | 0.237939 | -5.0696 | 0.645172 | 0.537779 | -0.10739 | 1 | 3704460 | F | II | LRRC47 | Body | shore | Body-shore | chr1:3703( | rs1428549 0;4;19;36;42;50 |
| cg1799699 | 0.111709 | 0.463318 | 3.10308 | 0.007101 | 0.224708 | -3.5174 | 0.519172 | 0.407464 | -0.11171 | 11 | 86651974 | F | II | | IGR | opensea | IGR-opense | | rs5448632 1 |
| cg2245283 | 0.172165 | 0.399315 | 3.102453 | 0.007111 | 0.224708 | -3.51866 | 0.485397 | 0.313233 | -0.17216 | 6 | 28664155 | F | I | | IGR | opensea | IGR-opense | | |
| cg2531385 | 0.107371 | 0.480897 | 3.415082 | 0.003723 | 0.224708 | -2.88057 | 0.534583 | 0.427211 | -0.10737 | 5 | 1.07E+08 | F | II | EFNA5 | Body | opensea | Body-opens | | rs7715798 1;37;40 |
| cg1343743 | 0.107338 | 0.552638 | 3.705147 | 0.00204 | 0.224708 | -2.28135 | 0.606307 | 0.498969 | -0.10734 | 3 | 66354186 | R | II | SLC25A26 | Body | opensea | Body-opens | | rs6224687 51;38;4 |
| cg2352116 | 0.124635 | 0.522843 | 3.100756 | 0.007135 | 0.224708 | -3.5221 | 0.58516 | 0.460525 | -0.12463 | 14 | 77287324 | F | II | | IGR | opensea | IGR-opense | | rs5457683 1;41 |
| cg1129186 | 0.110519 | 0.497881 | 3.099847 | 0.007149 | 0.224708 | -3.52393 | 0.55314 | 0.442621 | -0.11052 | 2 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | | rs7640536 31;28;11;1 |
| cg0600117 | 0.107336 | 0.728196 | 3.435698 | 0.003567 | 0.224708 | -2.83815 | 0.781864 | 0.674527 | -0.10734 | 22 | 29616276 | F | II | EMID1 | Body | opensea | Body-opens | | rs1465698 0;45 |
| cg0848016 | 0.107332 | 0.496533 | 2.454253 | 0.026481 | 0.229518 | -4.78638 | 0.550199 | 0.442868 | -0.10733 | 15 | 41036515 | F | II | RMDN3 | Body | opensea | Body-opens | | |
| cg0998867 | 0.103157 | 0.471961 | 3.098015 | 0.007176 | 0.224708 | -3.52763 | 0.523539 | 0.420382 | -0.10316 | 4 | 8351738 | F | II | | IGR | shelf | IGR-shelf | chr4:8347 | rs7795991 15;33 |
| cg0777779 | 0.107331 | 0.627625 | 3.394193 | 0.003888 | 0.224708 | -2.92352 | 0.68129 | 0.573959 | -0.10733 | 2 | 2.33E+08 | F | II | ALPPL2 | TSS1500 | shore | TSS1500-sh | chr2:2332 | rs5382976 15;41 |
| cg0959046 | 0.112226 | 0.482 | 3.096215 | 0.007203 | 0.224708 | -3.53127 | 0.538112 | 0.425887 | -0.11223 | 22 | 39601450 | F | II | | IGR | opensea | IGR-opense | | rs1920335 1;16;45 |
| cg2597035 | 0.107304 | 0.474951 | 3.187199 | 0.005969 | 0.224708 | -3.34683 | 0.528604 | 0.421299 | -0.1073 | 15 | 59514661 | F | II | MYO1E | Body | opensea | Body-opens | | rs5762771 35;46 |
| cg0250039 | 0.107262 | 0.522524 | 3.168297 | 0.006207 | 0.224708 | -3.38524 | 0.576155 | 0.468894 | -0.10726 | 6 | 1.39E+08 | F | II | PBOV1 | 1stExon | opensea | 1stExon-op | | rs7377468 0;28;46 |
| cg1343199 | 0.107166 | 0.678973 | 3.149583 | 0.006451 | 0.224708 | -3.42322 | 0.732556 | 0.62539 | -0.10717 | 4 | 76419913 | F | II | RCHY1 | 5'UTR | opensea | 5'UTR-open | | |
| cg0545402 | 0.107157 | 0.560703 | 2.642319 | 0.01819 | 0.225076 | -4.42921 | 0.614282 | 0.507125 | -0.10716 | 1 | 1.53E+08 | F | II | S100A12 | TSS1500 | opensea | TSS1500-op | | rs5333639 0;45;48 |
| cg2437633 | 0.107154 | 0.60126 | 3.092968 | 0.007251 | 0.224708 | -3.53783 | 0.654837 | 0.547683 | -0.10715 | 2 | 1.92E+08 | F | II | MYO1B | Body | opensea | Body-opens | | rs5363003 0;41 |
| cg1380764 | 0.10636 | 0.610419 | 3.090693 | 0.007285 | 0.224708 | -3.54243 | 0.663599 | 0.55724 | -0.10636 | 20 | 38785218 | R | II | | IGR | opensea | IGR-opense | | rs1844193 24 |
| cg1974034 | 0.106258 | 0.573684 | 3.08919 | 0.007308 | 0.224708 | -3.54546 | 0.626812 | 0.520555 | -0.10626 | 8 | 20693391 | R | II | | IGR | opensea | IGR-opense | | rs5566613 17;9 |
| cg2411102 | 0.10715 | 0.387356 | 3.809764 | 0.001643 | 0.224708 | -2.06442 | 0.440931 | 0.33378 | -0.10715 | 6 | 32819921 | R | II | TAP1 | Body | shore | Body-shore | chr6:3282( | rs5554933 12;2 |
| cg2651001 | 0.107143 | 0.575526 | 2.886143 | 0.011089 | 0.224708 | -3.95212 | 0.629097 | 0.521954 | -0.10714 | 3 | 1.87E+08 | R | II | EIF4A2 | Body | shelf | Body-shelf | chr3:1865( | rs5272957 50;43;14;1 |
| cg2452567 | 0.100042 | 0.646028 | 3.086714 | 0.007345 | 0.224708 | -3.55046 | 0.696049 | 0.596007 | -0.10004 | 6 | 50576282 | F | II | | IGR | opensea | IGR-opense | | rs1854122 0;11;39;40 |
| cg0113502 | 0.107138 | 0.44397 | 3.308345 | 0.004645 | 0.224708 | -3.09962 | 0.497539 | 0.390401 | -0.10714 | 5 | 7872175 | R | II | MTRR | Body | shelf | Body-shelf | chr5:7868 | rs7821590 48;45;27;1 |
| cg1936333 | 0.107097 | 0.49677 | 2.845933 | 0.012038 | 0.224708 | -4.03173 | 0.550319 | 0.443222 | -0.1071 | 8 | 77897727 | F | II | PEX2 | 5'UTR | opensea | 5'UTR-open | | |
| cg1336836 | 0.107086 | 0.701557 | 2.370285 | 0.031246 | 0.233736 | -4.94219 | 0.7551 | 0.648014 | -0.10709 | 5 | 1.25E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | |
| cg2548125 | 0.107084 | 0.493909 | 2.873381 | 0.011382 | 0.224708 | -3.97743 | 0.54745 | 0.440367 | -0.10708 | 7 | 1.42E+08 | F | II | TAS2R38 | 1stExon | opensea | 1stExon-op | | rs1411968 0;1;13;14 |
| cg1974727 | 0.107068 | 0.483746 | 2.816213 | 0.01279 | 0.224708 | -4.09036 | 0.53728 | 0.430212 | -0.10707 | 6 | 28553390 | R | II | SCAND3 | Body | shore | Body-shore | chr6:2855 | rs1865280 2 |
| cg1590626 | 0.107063 | 0.426691 | 2.767539 | 0.014121 | 0.224708 | -4.18594 | 0.480223 | 0.37316 | -0.10706 | 3 | 1.87E+08 | F | II | SNORA4 | TSS200 | shelf | TSS200-she | chr3:1865( | rs2002600 0;1;11;46 |
| cg0361394 | 0.11637 | 0.447278 | 3.078859 | 0.007465 | 0.224708 | -3.56632 | 0.505464 | 0.389093 | -0.11637 | 5 | 86416413 | F | II | | IGR | opensea | IGR-opense | | rs5349473 43 |
| cg0258409 | 0.107054 | 0.537859 | 2.777101 | 0.013849 | 0.224708 | -4.16721 | 0.591386 | 0.484332 | -0.10705 | 17 | 6461275 | F | II | PITPNM3 | TSS1500 | shore | TSS1500-sh | chr17:646( | rs1411379 5;8;37;44 |
| cg1569791 | 0.120971 | 0.797189 | 3.077406 | 0.007487 | 0.224708 | -3.56925 | 0.857674 | 0.736703 | -0.12097 | 16 | 86060428 | F | II | | IGR | opensea | IGR-opense | | rs1138638 0;1 |
| cg2047500 | 0.10702 | 0.591649 | 3.000638 | 0.008769 | 0.224708 | -3.7237 | 0.645159 | 0.538139 | -0.10702 | 7 | 1.23E+08 | R | II | WASL | Body | opensea | Body-opens | | |
| cg1671935 | 0.106997 | 0.484461 | 3.091268 | 0.007276 | 0.224708 | -3.54127 | 0.537959 | 0.430963 | -0.107 | 1 | 92218200 | F | II | TGFBR3 | Body | opensea | Body-opens | | rs1757348 45 |
| cg2315639 | 0.106994 | 0.528819 | 3.110516 | 0.006993 | 0.224708 | -3.50236 | 0.582316 | 0.475322 | -0.10699 | 3 | 1.7E+08 | F | II | SAMD7 | Body | opensea | Body-opens | | rs9870311 18;48 |
| cg0384913 | 0.110896 | 0.256196 | 3.074682 | 0.00753 | 0.224708 | -3.57475 | 0.311644 | 0.200748 | -0.1109 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg2362755 | 0.116917 | 0.474134 | 3.074659 | 0.00753 | 0.224708 | -3.5748 | 0.532592 | 0.415676 | -0.11692 | 2 | 2.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5383838 15 |
| cg1095753 | 0.114867 | 0.62839 | 3.074119 | 0.007538 | 0.224708 | -3.57589 | 0.685823 | 0.570956 | -0.11487 | 18 | 29147253 | F | II | | IGR | opensea | IGR-opense | | rs1481839 1;20 |
| cg0409488 | 0.106973 | 0.421465 | 3.666662 | 0.002209 | 0.224708 | -2.36108 | 0.474952 | 0.367978 | -0.10697 | 17 | 38023830 | F | II | ZPBP2 | TSS1500 | shore | TSS1500-sh | chr17:380 | rs5679148 25 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0554552 | 0.102049 | 0.585542 | 3.07032 | 0.007598 | 0.224708 | -3.58355 | 0.636566 | 0.534517 | -0.10205 | 1 | 93283109 | R | II | | IGR | opensea | IGR-opense | | rs5293888 | 2;1 |
| cg0993090 | 0.116159 | 0.610527 | 3.068985 | 0.007618 | 0.224708 | -3.58624 | 0.668607 | 0.552448 | -0.11616 | 6 | 1.59E+08 | R | II | | IGR | opensea | IGR-opense | | rs1155769 | 13;3 |
| cg1102966 | 0.107362 | 0.527649 | 3.068632 | 0.007624 | 0.224708 | -3.58695 | 0.58133 | 0.473968 | -0.10736 | 11 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs5676464 | 0;1;32 |
| cg0267144 | 0.102486 | 0.5449 | 3.068317 | 0.007629 | 0.224708 | -3.58759 | 0.596143 | 0.493657 | -0.10249 | 5 | 73614960 | F | II | | IGR | opensea | IGR-opense | | rs7765994 | 40;42;48 |
| cg2734056 | 0.106971 | 0.650578 | 3.984814 | 0.001144 | 0.224708 | -1.70123 | 0.704063 | 0.597092 | -0.10697 | 20 | 16452834 | R | II | KIF16B | Body | opensea | Body-open: | | rs1884030 | 16 |
| cg0602410 | 0.106956 | 0.471245 | 3.000591 | 0.00877 | 0.224708 | -3.72379 | 0.524723 | 0.417767 | -0.10696 | 1 | 1.54E+08 | R | II | SNAPIN | TSS1500 | shore | TSS1500-sh | chr1:15363 | | |
| cg2642996 | 0.106952 | 0.661158 | 2.932391 | 0.010087 | 0.224708 | -3.86015 | 0.714634 | 0.607682 | -0.10695 | 15 | 83867672 | F | II | HDGFRP3 | Body | opensea | Body-open: | | rs5557750 | 24 |
| cg0335865 | 0.106944 | 0.480351 | 3.002288 | 0.008739 | 0.224708 | -3.72039 | 0.533823 | 0.426879 | -0.10694 | 2 | 1.69E+08 | F | II | LOC10561( | Body | opensea | Body-open: | | rs1132007 | 18 |
| cg0999221 | 0.114784 | 0.429052 | 3.065703 | 0.00767 | 0.224708 | -3.59286 | 0.486445 | 0.37166 | -0.11478 | 11 | 32353565 | R | II | | IGR | shore | IGR-shore | chr11:3235 | | |
| cg1691705 | 0.101627 | 0.552427 | 3.065331 | 0.007676 | 0.224708 | -3.59361 | 0.603241 | 0.501614 | -0.10163 | 2 | 59690787 | R | II | | IGR | opensea | IGR-opense | | rs5651533 | 43;29 |
| cg1393180 | 0.105214 | 0.479102 | 3.065305 | 0.007676 | 0.224708 | -3.59366 | 0.531709 | 0.426495 | -0.10521 | 12 | 71983445 | F | II | | IGR | opensea | IGR-opense | | rs1180832 | 0 |
| cg0575476 | 0.10691 | 0.673845 | 3.575858 | 0.002667 | 0.224708 | -2.54898 | 0.727301 | 0.62039 | -0.10691 | 22 | 18307227 | R | II | MICAL3 | Body | opensea | Body-open: | | rs5314756 | 39 |
| cg0311391 | 0.106881 | 0.737299 | 3.581101 | 0.002638 | 0.224708 | -2.53814 | 0.790739 | 0.683858 | -0.10688 | 22 | 18402483 | F | II | MICAL3 | 5'UTR | opensea | 5'UTR-open | | rs5745514 | 0 |
| cg0631187 | 0.103961 | 0.67176 | 3.062883 | 0.007715 | 0.224708 | -3.59854 | 0.72374 | 0.619779 | -0.10396 | 12 | 93427724 | F | II | | IGR | opensea | IGR-opense | | rs1502121 | 12 |
| cg0249336 | 0.106876 | 0.386826 | 2.903962 | 0.010692 | 0.224708 | -3.91673 | 0.440263 | 0.333388 | -0.10688 | 19 | 36204278 | R | II | ZBTB32 | 5'UTR | shelf | 5'UTR-shelf | chr19:3626 | rs5393570 | 2 |
| cg0205215 | 0.106873 | 0.479682 | 2.82044 | 0.01268 | 0.224708 | -4.08203 | 0.533118 | 0.426246 | -0.10687 | 8 | 26211126 | F | II | PPP2R2A | Body | opensea | Body-open: | | | |
| cg0139778 | 0.132717 | 0.495072 | 3.061508 | 0.007737 | 0.224708 | -3.60132 | 0.56143 | 0.428713 | -0.13272 | 10 | 3894712 | R | II | | IGR | opensea | IGR-opense | | rs5388411 | 1 |
| cg1016737 | 0.157555 | 0.572041 | 3.061304 | 0.00774 | 0.224708 | -3.60173 | 0.650818 | 0.493263 | -0.15756 | 1 | 2.29E+08 | R | I | | IGR | island | IGR-island | chr1:22874 | rs5386267 | 26;7;6;1 |
| cg1363601 | 0.10019 | 0.495332 | 3.061115 | 0.007743 | 0.224708 | -3.60211 | 0.545427 | 0.445237 | -0.10019 | 9 | 84004731 | F | II | | IGR | opensea | IGR-opense | | rs1113919 | 31;36;46;50 |
| cg0674600 | 0.106871 | 0.794342 | 2.188565 | 0.044454 | 0.248276 | -5.27045 | 0.847777 | 0.740906 | -0.10687 | 8 | 1.31E+08 | R | II | ASAP1 | Body | opensea | Body-open: | | rs5671878 | 18;3;1 |
| cg0163006 | 0.106847 | 0.465425 | 2.946781 | 0.009794 | 0.224708 | -3.83145 | 0.518848 | 0.412002 | -0.10685 | 8 | 1.02E+08 | R | II | SNX31 | Body | opensea | Body-open: | | rs7929575 | 41;13;10 |
| cg0064031 | 0.106846 | 0.523285 | 3.052863 | 0.007876 | 0.224708 | -3.61873 | 0.576708 | 0.469862 | -0.10685 | 8 | 67835853 | R | II | SNORD87 | TSS1500 | shore | TSS1500-sh | chr8:6783 | | |
| cg2479654 | 0.106842 | 0.338459 | 3.723053 | 0.001966 | 0.224708 | -2.24424 | 0.39188 | 0.285038 | -0.10684 | 10 | 1.09E+08 | F | II | SORCS1 | Body | opensea | Body-open: | | rs1477672 | 36 |
| cg2563243 | 0.106828 | 0.783976 | 5.278587 | 8.55E-05 | 0.223139 | 0.936345 | 0.83739 | 0.730562 | -0.10683 | 11 | 18764080 | R | II | PTPN5 | Body | opensea | Body-open: | | rs2007139 | 38;20;2;1 |
| cg1775909 | 0.106826 | 0.532053 | 2.714992 | 0.015708 | 0.224896 | -4.28851 | 0.585466 | 0.47864 | -0.10683 | 6 | 56755566 | R | II | DST | Body | opensea | Body-open: | | rs7345970 | 32;21;1 |
| cg1290623 | 0.106817 | 0.745084 | 2.374178 | 0.031008 | 0.233467 | -4.93502 | 0.798493 | 0.691675 | -0.10682 | 10 | 50122576 | F | II | LRRC18 | TSS1500 | opensea | TSS1500-o | | rs5538847 | 15;20;33 |
| cg1342383 | 0.113817 | 0.456448 | 3.057468 | 0.007801 | 0.224708 | -3.60946 | 0.513356 | 0.399539 | -0.11382 | 10 | 4818881 | F | II | | IGR | opensea | IGR-opense | | rs1408021 | 31 |
| cg0535515 | 0.106795 | 0.707569 | 2.658443 | 0.017609 | 0.225076 | -4.39811 | 0.760967 | 0.654172 | -0.1068 | 1 | 2.07E+08 | R | II | C4BPB | Body | opensea | Body-open: | | rs1501273 | 49;1 |
| cg2109709 | 0.106795 | 0.501656 | 3.1784 | 0.006078 | 0.224708 | -3.36471 | 0.555053 | 0.448259 | -0.10679 | 5 | 1.19E+08 | R | II | TNFAIP8 | Body | shelf | Body-shelf | chr5:11869 | rs1896012 | 48;46;2 |
| cg2143413 | 0.162663 | 0.392687 | 3.05688 | 0.007811 | 0.224708 | -3.61064 | 0.474019 | 0.311356 | -0.16266 | 3 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs1143720 | 46;11 |
| cg0943944 | 0.10677 | 0.536463 | 3.221262 | 0.005563 | 0.224708 | -3.27749 | 0.589848 | 0.483077 | -0.10677 | 3 | 1.75E+08 | R | II | NAALADL2 | Body | opensea | Body-open: | | rs5398480 | 51 |
| cg0377090 | 0.106752 | 0.599828 | 3.19644 | 0.005856 | 0.224708 | -3.32803 | 0.653204 | 0.546452 | -0.10675 | 19 | 56443824 | R | II | NLRP13 | TSS200 | opensea | TSS200-ope | | rs2017260 | 34 |
| cg2400540 | 0.101396 | 0.59982 | 3.056121 | 0.007823 | 0.224708 | -3.61217 | 0.650518 | 0.549122 | -0.1014 | 7 | 23060529 | F | II | | IGR | opensea | IGR-opense | | rs1879437 | 1;17;49 |
| cg1367173 | 0.116976 | 0.309006 | 3.056035 | 0.007824 | 0.224708 | -3.61234 | 0.367494 | 0.250518 | -0.11698 | 17 | 18836108 | F | II | | IGR | opensea | IGR-opense | | rs1886823 | 14 |
| cg2305344 | 0.109242 | 0.493549 | 3.055784 | 0.007828 | 0.224708 | -3.61285 | 0.54817 | 0.438928 | -0.10924 | 14 | 78471899 | R | II | | IGR | opensea | IGR-opense | | rs1462769 | 40;28;27 |
| cg2068419 | 0.106739 | 0.468421 | 2.955578 | 0.009619 | 0.224708 | -3.81389 | 0.52179 | 0.415052 | -0.10674 | 5 | 1.42E+08 | F | II | FGF1 | 5'UTR | opensea | 5'UTR-open | | rs1880151 | 47;51 |
| cg0707176 | 0.106693 | 0.725594 | 3.048783 | 0.007942 | 0.224708 | -3.62695 | 0.77894 | 0.672247 | -0.10669 | 11 | 92441315 | F | II | FAT3 | Body | opensea | Body-open: | | rs5369830 | 1;33 |
| cg0161364 | 0.106691 | 0.505906 | 2.846592 | 0.012022 | 0.224708 | -4.03043 | 0.559251 | 0.45256 | -0.10669 | 10 | 28271425 | R | II | ARMC4 | TSS1500 | opensea | TSS1500-o | | rs5310922 | 51;23;1 |
| cg2111359 | 0.106671 | 0.530508 | 2.766897 | 0.014139 | 0.224708 | -4.1872 | 0.583843 | 0.477172 | -0.10667 | 14 | 31858067 | R | II | HEATR5A | 1stExon | opensea | 1stExon-op | | rs3887865 | 44;23;2 |
| cg0445364 | 0.10667 | 0.542103 | 2.501638 | 0.024105 | 0.227447 | -4.69741 | 0.595438 | 0.488768 | -0.10667 | 2 | 40579303 | F | II | SLC8A1 | Body | opensea | Body-open: | | rs1858235 | 13;17;21 |
| cg0922131 | 0.106656 | 0.684735 | 2.665794 | 0.01735 | 0.225046 | -4.38391 | 0.738063 | 0.631407 | -0.10666 | 6 | 1.17E+08 | R | II | TRAPPC3L | Body | opensea | Body-open: | | rs5706721 | 34;7 |
| cg1040863 | 0.106655 | 0.676223 | 3.321541 | 0.00452 | 0.224708 | -3.0726 | 0.72955 | 0.622895 | -0.10666 | 2 | 96869389 | F | II | STARD7 | Body | opensea | Body-open: | | rs5636720 | 3;9;27;37;38 |
| cg1179959 | 0.142737 | 0.459756 | 3.049964 | 0.007923 | 0.224708 | -3.62457 | 0.531124 | 0.388387 | -0.14274 | 12 | 68845869 | F | II | | IGR | opensea | IGR-opense | | rs1903222 | 0 |
| cg0675449 | 0.106627 | 0.473702 | 3.058368 | 0.007787 | 0.224708 | -3.60764 | 0.527015 | 0.420389 | -0.10663 | 10 | 52268375 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5400935 | 39;22 |
| cg0450792 | 0.106626 | 0.483688 | 2.785847 | 0.013605 | 0.224708 | -4.15005 | 0.537001 | 0.430375 | -0.10663 | 2 | 2.11E+08 | R | II | UNC80 | Body | opensea | Body-open: | | rs5480498 | 20;2 |
| cg0719208 | 0.102251 | 0.491654 | 3.047152 | 0.007969 | 0.224708 | -3.63023 | 0.542779 | 0.440528 | -0.10225 | 14 | 75981936 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2369118 | 0.106613 | 0.493056 | 3.436316 | 0.003562 | 0.224708 | -2.83688 | 0.546362 | 0.439749 | -0.10661 | 22 | 29305360 | R | II | ZNRF3 | Body | opensea | Body-open: | | rs5364290 | 1 |
| cg0679435 | 0.113351 | 0.631459 | 3.044386 | 0.008014 | 0.224708 | -3.6358 | 0.688134 | 0.574783 | -0.11335 | 1 | 17014799 | R | II | | IGR | shelf | IGR-shelf | chr1:17018 | rs5584377 | 2;1 |
| cg1796966 | 0.105882 | 0.586759 | 3.043916 | 0.008022 | 0.224708 | -3.63675 | 0.6397 | 0.533818 | -0.10588 | 1 | 2.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754031 | 26;7;6 |
| cg0274569 | 0.109559 | 0.581016 | 3.043656 | 0.008026 | 0.224708 | -3.63727 | 0.635796 | 0.526237 | -0.10956 | 9 | 93822926 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2217613 | 0.106108 | 0.563716 | 3.043384 | 0.008031 | 0.224708 | -3.63782 | 0.61677 | 0.510662 | -0.10611 | 10 | 33442301 | F | II | | IGR | opensea | IGR-opense | | rs1864286 | 23;39 |
| cg0938537 | 0.106612 | 0.55727 | 3.383132 | 0.003978 | 0.224708 | -2.94625 | 0.610576 | 0.503964 | -0.10661 | 6 | 1.43E+08 | R | II | LOC15391( | TSS1500 | opensea | TSS1500-o | | rs5433593 | 2 |
| cg1671060 | 0.106089 | 0.552969 | 3.042631 | 0.008043 | 0.224708 | -3.63933 | 0.606014 | 0.499925 | -0.10609 | 15 | 33424752 | R | II | | IGR | opensea | IGR-opense | | rs5397189 | 30 |
| cg0857159 | 0.102588 | 0.506568 | 3.041843 | 0.008056 | 0.224708 | -3.64092 | 0.557861 | 0.455274 | -0.10259 | 6 | 64225663 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0252498 | 0.106594 | 0.676022 | 3.066519 | 0.007657 | 0.224708 | -3.59122 | 0.729319 | 0.622725 | -0.10659 | 3 | 1.88E+08 | F | I | LPP | 5'UTR | opensea | 5'UTR-open | | rs5550028 | 0;20;37 |
| cg1088122 | 0.106556 | 0.441953 | 2.367832 | 0.031397 | 0.233867 | -4.9467 | 0.495231 | 0.388675 | -0.10656 | 2 | 9984929 | R | II | TAF1B | Body | shore | Body-shore | chr2:9983 | rs1856685 | 51;30;14 |
| cg0071382 | 0.106532 | 0.798168 | 2.980379 | 0.009142 | 0.224708 | -3.76429 | 0.851434 | 0.744902 | -0.10653 | 12 | 7633946 | R | II | CD163 | Body | opensea | Body-open: | | rs7557616 | 1 |
| cg1685118 | 0.103346 | 0.603054 | 3.041419 | 0.008063 | 0.224708 | -3.64177 | 0.654727 | 0.551381 | -0.10335 | 22 | 35415024 | R | II | | IGR | opensea | IGR-opense | | rs916243 | 31 |
| cg0248733 | 0.278444 | 0.413133 | 3.041418 | 0.008063 | 0.224708 | -3.64178 | 0.552355 | 0.27391 | -0.27844 | 1 | 1.47E+08 | F | II | | IGR | island | IGR-island | chr1:1465 | rs5877106 | 16 |
| cg0441955 | 0.106483 | 0.399634 | 2.708604 | 0.015913 | 0.224896 | -4.30093 | 0.452875 | 0.346392 | -0.10648 | 6 | 1.11E+08 | R | II | RPF2 | TSS1500 | shore | TSS1500-sh | chr6:1113( | rs3431735 | 11 |
| cg1671858 | 0.106416 | 0.563266 | 2.86441 | 0.011593 | 0.224708 | -3.99519 | 0.616474 | 0.510057 | -0.10642 | 12 | 1.33E+08 | R | II | ANKLE2 | Body | shore | Body-shore | chr12:133 | rs5777973 | 50;16 |
| cg0116279 | 0.106337 | 0.592858 | 3.081582 | 0.007423 | 0.224708 | -3.56083 | 0.646026 | 0.53969 | -0.10634 | 1 | 64293256 | R | II | ROR1 | Body | opensea | Body-open: | | rs5512446 | 27 |
| cg0205002 | 0.106313 | 0.565105 | 3.380614 | 0.003999 | 0.224708 | -2.95142 | 0.618262 | 0.511948 | -0.10631 | 7 | 43156037 | R | II | HECW1 | 5'UTR | shelf | 5'UTR-shelf | chr7:4315 | rs5330254 | 34 |
| cg1557429 | 0.108837 | 0.499261 | 3.038866 | 0.008106 | 0.224708 | -3.64691 | 0.55368 | 0.444842 | -0.10884 | 7 | 25590861 | F | II | | IGR | opensea | IGR-opense | | rs1778270 | 29;47 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2102646 | 0.10628 | 0.580677 | 3.537167 | 0.00289 | 0.224708 | -2.62893 | 0.633817 | 0.527537 | -0.10628 | 3 | 13539059 | F | II | HDAC11 | Body | opensea | Body-opens | | rs3683436 8 |
| cg1660282 | 0.101817 | 0.659384 | 3.037895 | 0.008122 | 0.224708 | -3.64886 | 0.710293 | 0.608475 | -0.10182 | 17 | 72081361 | F | II | | IGR | opensea | IGR-opense | | rs1142388 1;9;29;41;51 |
| cg0186130 | 0.106276 | 0.528354 | 2.959095 | 0.00955 | 0.224708 | -3.80686 | 0.581492 | 0.475216 | -0.10628 | 7 | 77827744 | R | II | MAGI2 | Body | opensea | Body-opens | | rs5735621 28;21;7 |
| cg1356445 | 0.106275 | 0.314215 | 4.056051 | 0.000988 | 0.224708 | -1.55349 | 0.367352 | 0.261077 | -0.10628 | 14 | 62004353 | R | II | PRKCH | Body | opensea | Body-opens | | rs5698333 1 |
| cg1066239 | 0.109079 | 0.573886 | 3.036234 | 0.00815 | 0.224708 | -3.6522 | 0.628425 | 0.519346 | -0.10908 | 1 | 24046776 | R | II | | IGR | opensea | IGR-opense | | rs1150834 14;2 |
| cg1593690 | 0.105047 | 0.581252 | 3.03604 | 0.008153 | 0.224708 | -3.6526 | 0.633776 | 0.528728 | -0.10505 | 17 | 30024653 | F | II | | IGR | opensea | IGR-opense | | rs1413264 31 |
| cg2321664 | 0.106253 | 0.643071 | 2.915805 | 0.010436 | 0.224708 | -3.89318 | 0.696197 | 0.589944 | -0.10625 | 7 | 1.42E+08 | R | II | MGAM | ExonBnd | opensea | ExonBnd-o | | |
| cg2301470 | 0.103771 | 0.488997 | 3.034915 | 0.008172 | 0.224708 | -3.65486 | 0.540882 | 0.437111 | -0.10377 | 5 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1545269 | 0.127842 | 0.605279 | 3.034511 | 0.008179 | 0.224708 | -3.65567 | 0.669201 | 0.541358 | -0.12784 | 3 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5704379 51;47;46;22;11 |
| cg0366507 | 0.106248 | 0.469924 | 3.79061 | 0.001709 | 0.224708 | -2.10416 | 0.523048 | 0.416799 | -0.10625 | 5 | 1.19E+08 | F | II | TNFAIP8 | Body | shore | Body-shore | chr5:11869 | rs5655353 26 |
| cg2440171 | 0.106225 | 0.520647 | 3.038052 | 0.00812 | 0.224708 | -3.64855 | 0.573759 | 0.467534 | -0.10622 | 9 | 71532723 | F | II | PIP5K1B | Body | opensea | Body-opens | | rs1398280 1;16;31 |
| cg2504587 | 0.104094 | 0.607681 | 3.031237 | 0.008234 | 0.224708 | -3.66225 | 0.659728 | 0.555634 | -0.10409 | 21 | 18188931 | F | II | | IGR | opensea | IGR-opense | | rs5672681 4;7;43;45 |
| cg1629503 | 0.106197 | 0.648407 | 2.54486 | 0.022115 | 0.226059 | -4.61563 | 0.701505 | 0.595308 | -0.1062 | 5 | 94784489 | F | II | FAM81B | Body | opensea | Body-opens | | rs5710572 12;50 |
| cg1049125 | 0.107895 | 0.718349 | 3.029903 | 0.008257 | 0.224708 | -3.66494 | 0.772296 | 0.664402 | -0.10789 | 11 | 45699694 | F | II | | IGR | opensea | IGR-opense | | rs1167588 0;38 |
| cg0185850 | 0.353196 | 0.353056 | 3.029349 | 0.008266 | 0.224708 | -3.66605 | 0.529654 | 0.176457 | -0.3532 | 17 | 68202566 | F | II | | IGR | opensea | IGR-opense | | rs1144290 1;20 |
| cg0840856 | 0.133348 | 0.52558 | 3.02885 | 0.008275 | 0.224708 | -3.66705 | 0.592255 | 0.458906 | -0.13335 | 5 | 67067213 | R | II | | IGR | opensea | IGR-opense | | rs5292816 45;2 |
| cg1418413 | 0.100007 | 0.476624 | 3.026491 | 0.008315 | 0.224708 | -3.6718 | 0.526628 | 0.426621 | -0.10001 | 1 | 34966511 | F | II | | IGR | opensea | IGR-opense | | rs5538281 0;14;27 |
| cg2614402 | 0.106182 | 0.521944 | 2.659701 | 0.017564 | 0.225076 | -4.39568 | 0.575035 | 0.468853 | -0.10618 | 3 | 69047209 | F | II | EOGT | Body | opensea | Body-opens | | rs1473270 1;30 |
| cg0202077 | 0.106164 | 0.525045 | 3.665079 | 0.002216 | 0.224708 | -2.36436 | 0.578127 | 0.471963 | -0.10616 | 5 | 1.39E+08 | R | II | UBE2D2 | 5'UTR | opensea | 5'UTR-open | | rs5492604 1 |
| cg2071294 | 0.106135 | 0.587911 | 2.922802 | 0.010288 | 0.224708 | -3.87925 | 0.640979 | 0.534843 | -0.10614 | 1 | 39888404 | R | II | MACF1 | ExonBnd | opensea | ExonBnd-o | | rs2008493 42;39;38 |
| cg1988188 | 0.101974 | 0.588361 | 3.024876 | 0.008343 | 0.224708 | -3.67504 | 0.639348 | 0.537374 | -0.10197 | 7 | 12362656 | F | II | | IGR | opensea | IGR-opense | | rs5761410 6;7;12;19;31 |
| cg1703169 | 0.10613 | 0.397367 | 3.001498 | 0.008754 | 0.224708 | -3.72197 | 0.450432 | 0.344302 | -0.10613 | 12 | 94602306 | F | II | PLXNC1 | Body | opensea | Body-opens | | rs1925419 0;1;10;27 |
| cg2640154 | 0.124016 | 0.541343 | 3.023609 | 0.008364 | 0.224708 | -3.67759 | 0.603351 | 0.479335 | -0.12402 | 6 | 91078974 | F | II | | IGR | opensea | IGR-opense | | rs5483666 42;47 |
| cg2119404 | 0.106129 | 0.47417 | 2.947929 | 0.009771 | 0.224708 | -3.82916 | 0.527234 | 0.421105 | -0.10613 | 3 | 11862088 | R | II | TAMM41 | Body | opensea | Body-opens | | |
| cg1768394 | 0.106093 | 0.491899 | 3.084777 | 0.007374 | 0.224708 | -3.55438 | 0.544946 | 0.438852 | -0.10609 | 15 | 65763347 | F | II | DPP8 | Body | opensea | Body-opens | | rs5557354 18;20;48 |
| cg1685386 | 0.106092 | 0.340734 | 3.087314 | 0.007336 | 0.224708 | -3.54925 | 0.39378 | 0.287688 | -0.10609 | 6 | 32823116 | R | II | PSMB9 | Body | shore | Body-shore | chr6:32820 | |
| cg0411210 | 0.106084 | 0.531166 | 2.666853 | 0.017313 | 0.225034 | -4.38187 | 0.584208 | 0.478124 | -0.10608 | 2 | 1.44E+08 | R | II | KYNU | Body | opensea | Body-opens | | |
| cg1253170 | 0.106078 | 0.56275 | 2.684061 | 0.016722 | 0.224901 | -4.34856 | 0.615789 | 0.509711 | -0.10608 | 5 | 33834545 | F | II | ADAMTS12 | Body | opensea | Body-opens | | rs1415835 0;1;3 |
| cg2073684 | 0.106053 | 0.4796 | 2.913207 | 0.010492 | 0.224708 | -3.89835 | 0.532626 | 0.426573 | -0.10605 | 2 | 73902031 | F | II | ALMS1P | ExonBnd | opensea | ExonBnd-o | | rs2010199 0;1 |
| cg1990510 | 0.106045 | 0.606333 | 3.177057 | 0.006095 | 0.224708 | -3.36744 | 0.659355 | 0.55331 | -0.10604 | 20 | 57892254 | F | II | EDN3 | Body | opensea | Body-opens | | rs5458164 0;9;28;46 |
| cg0335173 | 0.100295 | 0.463985 | 3.016607 | 0.008486 | 0.224708 | -3.69165 | 0.514133 | 0.413837 | -0.1003 | 18 | 21717196 | F | II | | IGR | shore | IGR-shore | chr18:217 | rs7949387 24 |
| cg2373297 | 0.106044 | 0.625823 | 5.420183 | 6.51E-05 | 0.219272 | 1.215768 | 0.678845 | 0.572801 | -0.10604 | 20 | 57414274 | F | II | GNASAS | Body | shore | Body-shore | chr20:574 | rs3761263 6;48 |
| cg0715242 | 0.106037 | 0.479866 | 3.570062 | 0.002699 | 0.224708 | -2.56096 | 0.532884 | 0.426848 | -0.10604 | 2 | 33713297 | R | II | RASGRP3 | 5'UTR | opensea | 5'UTR-open | | rs5339412 6;2;1 |
| cg0832111 | 0.106007 | 0.507053 | 2.766569 | 0.014149 | 0.224708 | -4.18784 | 0.560057 | 0.45405 | -0.10601 | 5 | 77701852 | F | II | SCAMP1 | Body | opensea | Body-opens | | rs1824511 0 |
| cg1178633 | 0.106001 | 0.515915 | 3.13518 | 0.006646 | 0.224708 | -3.45242 | 0.568915 | 0.462915 | -0.106 | 18 | 56809717 | F | II | SEC11C | Body | shelf | Body-shelf | chr18:568 | rs1260467 26;35 |
| cg1228090 | 0.106 | 0.602667 | 4.637374 | 0.000303 | 0.224708 | -0.3553 | 0.655667 | 0.549667 | -0.106 | 6 | 28501816 | R | II | GPX5 | Body | opensea | Body-opens | | rs1379079 49;40 |
| cg2656269 | 0.105997 | 0.476517 | 3.193958 | 0.005886 | 0.224708 | -3.33308 | 0.529515 | 0.423518 | -0.106 | 16 | 23850404 | F | II | PRKCB | Body | shelf | Body-shelf | chr16:238 | rs1930964 0 |
| cg0893862 | 0.105987 | 0.509122 | 3.347187 | 0.004286 | 0.224708 | -3.02003 | 0.562116 | 0.456128 | -0.10599 | 18 | 42832579 | R | II | SLC14A2 | 5'UTR | opensea | 5'UTR-open | | |
| cg2155418 | 0.105987 | 0.534937 | 2.839306 | 0.012202 | 0.224708 | -4.04482 | 0.58793 | 0.481943 | -0.10599 | 1 | 1.16E+08 | R | II | CASQ2 | Body | opensea | Body-opens | | |
| cg1736601 | 0.105943 | 0.586411 | 4.230241 | 0.000691 | 0.224708 | -1.19276 | 0.639382 | 0.533439 | -0.10594 | 10 | 1.25E+08 | F | II | IKZF5 | Body | opensea | Body-opens | | rs5416002 20;38 |
| cg1023666 | 0.105932 | 0.580872 | 3.104594 | 0.007079 | 0.224708 | -3.51433 | 0.633838 | 0.527907 | -0.10593 | 3 | 1.88E+08 | R | II | LPP | Body | opensea | Body-opens | | rs5615344 34;2 |
| cg2214428 | 0.106399 | 0.673411 | 3.008983 | 0.00862 | 0.224708 | -3.70696 | 0.72661 | 0.620211 | -0.1064 | 5 | 1.69E+08 | R | II | | IGR | opensea | IGR-opense | | rs1904611 38;32;6;1 |
| cg2070796 | 0.10592 | 0.508016 | 3.142118 | 0.006552 | 0.224708 | -3.43836 | 0.560975 | 0.455056 | -0.10592 | 12 | 1.31E+08 | R | II | ADGRD1 | Body | opensea | Body-opens | | rs2021903 6;4 |
| cg2179900 | 0.1059 | 0.686078 | 3.128677 | 0.006736 | 0.224708 | -3.4656 | 0.739028 | 0.633128 | -0.1059 | 1 | 65223175 | F | II | RAVER2 | Body | opensea | Body-opens | | |
| cg0073265 | 0.105874 | 0.474678 | 4.922221 | 0.000172 | 0.224708 | 0.223389 | 0.527615 | 0.421741 | -0.10587 | 2 | 1.01E+08 | R | II | NMS | Body | opensea | Body-opens | | rs1888129 51;1 |
| cg1370643 | 0.105858 | 0.69235 | 2.786832 | 0.013578 | 0.224708 | -4.14812 | 0.745279 | 0.639422 | -0.10586 | 9 | 17612104 | R | II | SH3GL2 | Body | opensea | Body-opens | | rs1430275 27;15 |
| cg0556714 | 0.108066 | 0.702659 | 3.007635 | 0.008644 | 0.224708 | -3.70966 | 0.756692 | 0.648626 | -0.10807 | 22 | 50980910 | F | II | | IGR | shore | IGR-shore | chr22:509 | rs1921307 0;7;15 |
| cg1269626 | 0.105854 | 0.507999 | 2.958067 | 0.00957 | 0.224708 | -3.80891 | 0.560926 | 0.455072 | -0.10585 | 14 | 67446489 | R | II | GPHN | Body | opensea | Body-opens | | rs5423226 32;1 |
| cg0163323 | 0.105848 | 0.504298 | 3.493862 | 0.003162 | 0.224708 | -2.7183 | 0.557222 | 0.451374 | -0.10585 | 2 | 2.17E+08 | R | II | XRCC5 | Body | opensea | Body-opens | | rs5779289 12 |
| cg0657207 | 0.105811 | 0.693368 | 2.459808 | 0.026191 | 0.229328 | -4.77598 | 0.746274 | 0.640463 | -0.10581 | 12 | 32487307 | R | II | BICD1 | Body | opensea | Body-opens | | |
| cg1769413 | 0.116439 | 0.44639 | 3.00665 | 0.008661 | 0.224708 | -3.71164 | 0.50461 | 0.388171 | -0.11644 | 4 | 14858290 | F | I | | IGR | opensea | IGR-opense | | rs3679657 36;41;49;51 |
| cg0585460 | 0.105796 | 0.593139 | 2.854291 | 0.011835 | 0.224708 | -4.01521 | 0.646037 | 0.540241 | -0.1058 | 2 | 40351367 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs5483373 23;15;5;4;2;1 |
| cg0648577 | 0.105781 | 0.549637 | 2.731464 | 0.015193 | 0.224792 | -4.25643 | 0.602527 | 0.496746 | -0.10578 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-opens | | rs1408609 16;15;10;9 |
| cg1099000 | 0.105557 | 0.433242 | 3.00601 | 0.008673 | 0.224708 | -3.71292 | 0.48602 | 0.380464 | -0.10556 | 17 | 65243288 | F | II | | IGR | shore | IGR-shore | chr17:652 | |
| cg1615890 | 0.126464 | 0.536507 | 3.005661 | 0.008679 | 0.224708 | -3.71362 | 0.599739 | 0.473275 | -0.12646 | 7 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs1416447 24;2 |
| cg1258676 | 0.105742 | 0.69026 | 2.913365 | 0.010488 | 0.224708 | -3.89804 | 0.743131 | 0.637389 | -0.10574 | 15 | 60868447 | R | II | RORA-AS1 | Body | opensea | Body-opens | | rs1385276 36;1 |
| cg1958505 | 0.110222 | 0.500648 | 3.003663 | 0.008715 | 0.224708 | -3.71763 | 0.555759 | 0.445537 | -0.11022 | 7 | 85103687 | R | II | | IGR | opensea | IGR-opense | | rs2091086 18;1 |
| cg2083920 | 0.105737 | 0.630866 | 3.532976 | 0.002915 | 0.224708 | -2.63758 | 0.683735 | 0.577998 | -0.10574 | 2 | 86007629 | R | II | ATOH8 | Body | opensea | Body-opens | | rs1382318 43;25;9;1 |
| cg0539294 | 0.107458 | 0.558293 | 3.002678 | 0.008732 | 0.224708 | -3.71961 | 0.612022 | 0.504564 | -0.10746 | 13 | 77091333 | R | II | | IGR | opensea | IGR-opense | | rs1905198 46;44;38;2 |
| cg1713862 | 0.105734 | 0.696094 | 3.738612 | 0.001903 | 0.224708 | -2.21198 | 0.748962 | 0.643227 | -0.10573 | 7 | 22184820 | F | II | RAPGEF5 | ExonBnd | opensea | ExonBnd-o | | rs3691574 15;46 |
| cg0082960 | 0.102329 | 0.60815 | 3.002487 | 0.008736 | 0.224708 | -3.71999 | 0.659314 | 0.556986 | -0.10233 | 16 | 84678923 | F | II | | IGR | shelf | IGR-shelf | chr16:846 | rs5322773 9;15;26 |
| cg2414540 | 0.105714 | 0.528506 | 2.891663 | 0.010965 | 0.224708 | -3.94117 | 0.581363 | 0.475649 | -0.10571 | 1 | 1.59E+08 | R | II | AIM2 | TSS1500 | opensea | TSS1500-o | | rs5510582 24;17;8;1 |
| cg2158004 | 0.10571 | 0.420378 | 3.127742 | 0.006749 | 0.224708 | -3.46749 | 0.473233 | 0.367523 | -0.10571 | 17 | 17929070 | F | II | ATPAF2 | Body | opensea | Body-opens | | rs1134836 36 |
| cg0298994 | 0.105702 | 0.626216 | 6.260368 | 1.37E-05 | 0.161665 | 2.822742 | 0.679067 | 0.573365 | -0.1057 | 16 | 31539234 | F | II | AHSP | 5'UTR | opensea | 5'UTR-open | | rs5426024 2;5 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2266603 | 0.105682 | 0.528617 | 2.810855 | 0.01293 | 0.224708 | -4.10091 | 0.581458 | 0.475776 | -0.10568 | 1 | 1.5E+08 | F | II | VPS45 | Body | opensea | Body-opens | | rs1419694 0;27 |
| cg0458915 | 0.107929 | 0.565908 | 3.000579 | 0.00877 | 0.224708 | -3.72382 | 0.619873 | 0.511944 | -0.10793 | 6 | 1.48E+08 | F | II | | IGR | opensea | IGR-opens | | rs5291172 12;48 |
| cg2299401 | 0.105678 | 0.605155 | 3.279625 | 0.00493 | 0.224708 | -3.15838 | 0.657994 | 0.552317 | -0.10568 | 11 | 10044327 | F | II | SBF2 | Body | opensea | Body-opens | | rs5703060 0;1 |
| cg1274612 | 0.105672 | 0.417771 | 2.864278 | 0.011596 | 0.224708 | -3.99545 | 0.470608 | 0.364935 | -0.10567 | 7 | 1.29E+08 | R | II | SMO | Body | opensea | Body-opens | | rs1157402 1 |
| cg2017199 | 0.101293 | 0.510134 | 2.997217 | 0.008831 | 0.224708 | -3.73056 | 0.560781 | 0.459488 | -0.10129 | 8 | 67343066 | R | II | | IGR | shore | IGR-shore | chr8:6734 | rs3524340 27;22 |
| cg0753579 | 0.105663 | 0.50993 | 2.771304 | 0.014013 | 0.224708 | -4.17857 | 0.562762 | 0.457099 | -0.10566 | 3 | 1.15E+08 | R | II | ZBTB20 | Body | opensea | Body-opens | | rs1060854 3 |
| cg1181266 | 0.105658 | 0.673156 | 2.194086 | 0.043986 | 0.24764 | -5.26067 | 0.725985 | 0.620327 | -0.10566 | 1 | 62607877 | R | II | INADL | Body | opensea | Body-opens | | rs7938521 39;29;20;8;1 |
| cg1073478 | 0.108507 | 0.481175 | 2.994172 | 0.008886 | 0.224708 | -3.73666 | 0.535428 | 0.426921 | -0.10851 | 8 | 19833012 | F | II | | IGR | opensea | IGR-opense | | rs5616270 0;14;49 |
| cg1623627 | 0.105654 | 0.438692 | 3.106795 | 0.007047 | 0.224708 | -3.50988 | 0.49152 | 0.385865 | -0.10565 | 6 | 87891939 | F | II | ZNF292 | Body | opensea | Body-opens | | rs5755990 10;21;22 |
| cg2434887 | 0.104154 | 0.380667 | 2.992591 | 0.008915 | 0.224708 | -3.73983 | 0.432745 | 0.32859 | -0.10415 | 6 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs1485131 0;1 |
| cg1457513 | 0.105652 | 0.559444 | 3.552325 | 0.0028 | 0.224708 | -2.59762 | 0.61227 | 0.506618 | -0.10565 | 22 | 31933466 | R | II | SFI1 | Body | opensea | Body-opens | | rs5365868 18 |
| cg1335547 | 0.105601 | 0.482394 | 3.107323 | 0.007039 | 0.224708 | -3.50882 | 0.535195 | 0.429594 | -0.1056 | 6 | 17431988 | R | II | CAP2 | Body | opensea | Body-opens | | rs1884508 34;2 |
| cg2349849 | 0.100758 | 0.572292 | 2.990599 | 0.008952 | 0.224708 | -3.74382 | 0.62267 | 0.521913 | -0.10076 | 7 | 90095672 | F | II | | IGR | opensea | IGR-opense | | |
| cg1913837 | 0.116503 | 0.449038 | 2.990236 | 0.008958 | 0.224708 | -3.74455 | 0.50729 | 0.390787 | -0.1165 | 2 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs5435285 7 |
| cg0117780 | 0.1056 | 0.475679 | 3.080408 | 0.007441 | 0.224708 | -3.5632 | 0.528479 | 0.422878 | -0.1056 | 17 | 39042031 | F | II | KRT20 | TSS1500 | opensea | TSS1500-o | | rs1397193 32;41 |
| cg2160397 | 0.105573 | 0.427513 | 4.529099 | 0.000377 | 0.224708 | -0.577 | 0.480299 | 0.374727 | -0.10557 | 1 | 71534275 | F | II | MIR186 | TSS1500 | opensea | TSS1500-o | | rs5699794 28;32;34 |
| cg0864427 | 0.101385 | 0.484359 | 2.987438 | 0.00901 | 0.224708 | -3.75016 | 0.535051 | 0.433666 | -0.10139 | 2 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5466826 30;25;1 |
| cg0929206 | 0.105783 | 0.632071 | 2.987176 | 0.009015 | 0.224708 | -3.75068 | 0.684963 | 0.57918 | -0.10578 | 4 | 77801348 | F | II | | IGR | opensea | IGR-opense | | rs1860110 0 |
| cg0047894 | 0.126139 | 0.580745 | 2.987049 | 0.009017 | 0.224708 | -3.75093 | 0.643815 | 0.517676 | -0.12614 | 2 | 75854312 | R | II | | IGR | opensea | IGR-opense | | rs5605754 8 |
| cg1488599 | 0.105528 | 0.417535 | 2.915526 | 0.010442 | 0.224708 | -3.89374 | 0.4703 | 0.364771 | -0.10553 | 17 | 59828209 | F | II | BRIP1 | Body | opensea | Body-opens | | |
| cg2092004 | 0.111158 | 0.613107 | 2.986327 | 0.009031 | 0.224708 | -3.75238 | 0.668685 | 0.557528 | -0.11116 | 2 | 41822300 | F | II | | IGR | opensea | IGR-opense | | rs5449718 2;33;39;40 |
| cg1768146 | 0.101279 | 0.693929 | 2.984769 | 0.00906 | 0.224708 | -3.7555 | 0.744568 | 0.643289 | -0.10128 | 4 | 10131207 | R | II | | IGR | opensea | IGR-opense | | rs6228660 48;44;43;40;16;8 |
| cg2456342 | 0.108605 | 0.600407 | 2.984064 | 0.009073 | 0.224708 | -3.75691 | 0.654709 | 0.546104 | -0.1086 | 6 | 1.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs5541432 1 |
| cg2068996 | 0.105522 | 0.464838 | 2.409716 | 0.028915 | 0.231543 | -4.86932 | 0.517599 | 0.412077 | -0.10552 | 1 | 28390766 | R | II | EYA3 | Body | opensea | Body-opens | | rs1430206 36;1 |
| cg1701692 | 0.107611 | 0.676166 | 2.982305 | 0.009106 | 0.224708 | -3.76044 | 0.729971 | 0.622361 | -0.10761 | 5 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | | rs5467619 5;1 |
| cg1471321 | 0.103289 | 0.585916 | 2.981929 | 0.009113 | 0.224708 | -3.76119 | 0.63756 | 0.534271 | -0.10329 | 1 | 33924313 | R | II | | IGR | opensea | IGR-opense | | rs5772192 10;2 |
| cg0413794 | 0.10552 | 0.525075 | 2.709743 | 0.015876 | 0.224896 | -4.29872 | 0.577835 | 0.472316 | -0.10552 | 4 | 1.64E+08 | R | II | NAF1 | Body | shore | Body-shore | chr4:1640 | rs5424135 46;36 |
| cg0196633 | 0.105518 | 0.497771 | 2.96626 | 0.009411 | 0.224708 | -3.79254 | 0.55053 | 0.445012 | -0.10552 | 2 | 1.28E+08 | F | II | MYO7B | Body | shelf | Body-shelf | chr2:1283 | rs5305738 0;3;25 |
| cg1042498 | 0.111096 | 0.621255 | 2.980493 | 0.00914 | 0.224708 | -3.76406 | 0.676804 | 0.565707 | -0.1111 | 1 | 29872399 | R | II | | IGR | opensea | IGR-opense | | rs5611094 26;2;1 |
| cg2169421 | 0.105518 | 0.588673 | 3.547801 | 0.002827 | 0.224708 | -2.60696 | 0.641432 | 0.535914 | -0.10552 | 8 | 48565455 | F | II | SPIDR | Body | opensea | Body-opens | | rs5326918 6;8 |
| cg2157979 | 0.10546 | 0.650252 | 3.275919 | 0.004968 | 0.224708 | -3.16595 | 0.702981 | 0.597522 | -0.10546 | 8 | 18577100 | R | II | PSD3 | Body | opensea | Body-opens | | rs7768848 39;2 |
| cg1249390 | 0.105416 | 0.735551 | 3.211571 | 0.005676 | 0.224708 | -3.29723 | 0.788259 | 0.682843 | -0.10542 | 22 | 18342351 | F | II | MICAL3 | Body | opensea | Body-opens | | rs5606308 32 |
| cg2520695 | 0.100779 | 0.55183 | 2.979348 | 0.009161 | 0.224708 | -3.76636 | 0.60222 | 0.501441 | -0.10078 | 21 | 40219706 | R | II | | IGR | opensea | IGR-opense | | rs8012854 1 |
| cg0676391 | 0.103894 | 0.402413 | 2.979151 | 0.009165 | 0.224708 | -3.76675 | 0.45436 | 0.350466 | -0.10389 | 16 | 74260395 | F | II | | IGR | opensea | IGR-opense | | rs5609067 4 |
| cg0408314 | 0.105399 | 0.482061 | 3.111628 | 0.006977 | 0.224708 | -3.50011 | 0.53476 | 0.429362 | -0.1054 | 17 | 64028625 | R | II | CEP112 | Body | opensea | Body-opens | | rs5435131 42;2 |
| cg0416316 | 0.105364 | 0.425208 | 2.650183 | 0.017904 | 0.225076 | -4.41405 | 0.47789 | 0.372526 | -0.10536 | 21 | 26768888 | F | II | LINC00158 | Body | opensea | Body-opens | | rs5444963 1;13 |
| cg2338199 | 0.120865 | 0.50223 | 2.97714 | 0.009203 | 0.224708 | -3.77077 | 0.562663 | 0.441797 | -0.12087 | 1 | 88867081 | R | II | | IGR | opensea | IGR-opense | | rs5368460 22 |
| cg2228165 | 0.105364 | 0.642729 | 3.755608 | 0.001837 | 0.224708 | -2.17674 | 0.695411 | 0.590048 | -0.10536 | 17 | 62197507 | F | II | ERN1 | Body | opensea | Body-opens | | rs1513344 0;34 |
| cg1707316 | 0.109611 | 0.498748 | 2.976722 | 0.009211 | 0.224708 | -3.77161 | 0.553553 | 0.443942 | -0.10961 | 3 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5601347 29;37 |
| cg0912267 | 0.102675 | 0.472261 | 2.976292 | 0.009219 | 0.224708 | -3.77247 | 0.523599 | 0.420923 | -0.10268 | 2 | 46897833 | F | II | | IGR | opensea | IGR-opense | | rs1883472 9;24;37;38 |
| cg2719373 | 0.105352 | 0.501151 | 3.052781 | 0.007877 | 0.224708 | -3.6189 | 0.553827 | 0.448475 | -0.10535 | 7 | 90562815 | F | II | CDK14 | Body | opensea | Body-opens | | rs5416637 1;39 |
| cg1804540 | 0.105332 | 0.73324 | 2.536463 | 0.022489 | 0.226384 | -4.63156 | 0.785906 | 0.680574 | -0.10533 | 10 | 11564762 | R | II | USP6NL | Body | opensea | Body-opens | | rs2005087 32 |
| cg2462877 | 0.101652 | 0.454051 | 2.974274 | 0.009257 | 0.224708 | -3.77651 | 0.504877 | 0.403225 | -0.10165 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1448584 11;20;25;35 |
| cg1585747 | 0.105309 | 0.556178 | 3.108848 | 0.007017 | 0.224708 | -3.50573 | 0.608833 | 0.503523 | -0.10531 | 7 | 1.05E+08 | R | II | SRPK2 | Body | shelf | Body-shelf | chr7:1049 | rs5709144 26;25;24 |
| cg2099411 | 0.105278 | 0.470403 | 3.500884 | 0.003116 | 0.224708 | -2.70382 | 0.523043 | 0.417764 | -0.10528 | 1 | 2.1E+08 | R | II | CAMK1G | Body | opensea | Body-opens | | rs1824074 23;1 |
| cg2354861 | 0.105278 | 0.555165 | 3.116525 | 0.006907 | 0.224708 | -3.4902 | 0.607804 | 0.502526 | -0.10528 | 7 | 1.48E+08 | R | II | CNTNAP2 | Body | opensea | Body-opens | | rs5618143 30 |
| cg0092963 | 0.109262 | 0.533492 | 2.971958 | 0.009301 | 0.224708 | -3.78114 | 0.588123 | 0.478861 | -0.10926 | 1 | 1379667 | R | II | | IGR | opensea | IGR-opense | | rs1386918 37 |
| cg0908662 | 0.101287 | 0.650106 | 2.970439 | 0.00933 | 0.224708 | -3.78418 | 0.700749 | 0.599462 | -0.10129 | 18 | 29070510 | F | II | | IGR | opensea | IGR-opense | | |
| cg0884853 | 0.105261 | 0.732188 | 3.839544 | 0.001544 | 0.224708 | -2.00264 | 0.784818 | 0.679558 | -0.10526 | 8 | 1.03E+08 | F | II | NCALD | 5'UTR | opensea | 5'UTR-open | | rs1887738 1;35 |
| cg0888459 | 0.105256 | 0.565534 | 4.347484 | 0.000544 | 0.224708 | -0.95062 | 0.618162 | 0.512906 | -0.10526 | 11 | 62037191 | F | II | SCGB2A2 | TSS1500 | opensea | TSS1500-o | | rs5618837 0;1;30;36 |
| cg0246939 | 0.105236 | 0.598212 | 2.938265 | 0.009967 | 0.224708 | -3.84844 | 0.65083 | 0.545594 | -0.10524 | 8 | 412261 | R | II | FBXO25 | Body | opensea | Body-opens | | rs5674489 31 |
| cg1678976 | 0.105226 | 0.39333 | 3.46156 | 0.003381 | 0.224708 | -2.78489 | 0.445943 | 0.340717 | -0.10523 | 14 | 89066213 | F | II | ZC3H14 | Body | opensea | Body-opens | | rs7145665 48 |
| cg0572875 | 0.121095 | 0.443281 | 2.965398 | 0.009427 | 0.224708 | -3.79426 | 0.503828 | 0.382733 | -0.1211 | 14 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs5773501 45 |
| cg2447548 | 0.105223 | 0.578215 | 3.585298 | 0.002615 | 0.224708 | -2.52946 | 0.630826 | 0.525603 | -0.10522 | 8 | 1625395 | R | II | DLGAP2 | Body | opensea | Body-opens | | rs7629852 47;46;30 |
| cg0955115 | 0.104386 | 0.562739 | 2.963229 | 0.009469 | 0.224708 | -3.7986 | 0.614932 | 0.510546 | -0.10439 | 1 | 2.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5762574 0;10;41 |
| cg0032739 | 0.105196 | 0.424157 | 3.713906 | 0.002003 | 0.224708 | -2.2632 | 0.476755 | 0.371559 | -0.1052 | 16 | 48642773 | R | II | MIR5095 | Body | shore | Body-shore | chr16:486 | rs5733662 50;36 |
| cg0111221 | 0.104587 | 0.571637 | 2.960741 | 0.009518 | 0.224708 | -3.80357 | 0.62393 | 0.519343 | -0.10459 | 14 | 89285377 | R | II | | IGR | opensea | IGR-opense | | rs5735944 20 |
| cg2684088 | 0.105176 | 0.531871 | 3.315078 | 0.004581 | 0.224708 | -3.08584 | 0.58446 | 0.479283 | -0.10518 | 18 | 3412693 | R | II | TGIF1 | TSS200 | opensea | TSS200-ope | | rs5608698 38 |
| cg0791446 | 0.105137 | 0.572367 | 3.973613 | 0.001171 | 0.224708 | -1.72446 | 0.624935 | 0.519798 | -0.10514 | 1 | 1.59E+08 | F | II | PYHIN1 | Body | opensea | Body-opens | | rs1424249 0;18 |
| cg1597620 | 0.105136 | 0.521589 | 3.268984 | 0.00504 | 0.224708 | -3.18012 | 0.574157 | 0.469021 | -0.10514 | 13 | 94806595 | R | II | GPC6-AS1 | Body | opensea | Body-opens | | rs5757770 1 |
| cg2234168 | 0.105123 | 0.629579 | 2.6864 | 0.016643 | 0.224899 | -4.34403 | 0.68214 | 0.577017 | -0.10512 | 15 | 61342360 | R | II | RORA | Body | opensea | Body-opens | | |
| cg0779957 | 0.105119 | 0.542497 | 2.82924 | 0.012455 | 0.224708 | -4.06469 | 0.595057 | 0.489938 | -0.10512 | 5 | 70309843 | R | II | NAIP | Body | opensea | Body-opens | | rs5691943 4 |
| cg0612174 | 0.105084 | 0.663771 | 2.836455 | 0.012273 | 0.224708 | -4.05045 | 0.716313 | 0.611229 | -0.10508 | 10 | 34511567 | F | II | PARD3 | Body | opensea | Body-opens | | rs7456207 42;51 |
| cg1175227 | 0.105081 | 0.696271 | 3.234049 | 0.005418 | 0.224708 | -3.25143 | 0.748811 | 0.64373 | -0.10508 | 2 | 85921036 | F | II | GNLY | TSS1500 | opensea | TSS1500-o | | rs5736511 0;36;48 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0157197 | 0.101467 | 0.644137 | 2.956166 | 0.009607 | 0.224708 | -3.81271 | 0.69487 | 0.593403 | -0.10147 | 7 | 84122752 | R | II | | IGR | opensea | IGR-opense | | rs1862025 | 49;2 |
| cg0121434 | 0.110841 | 0.819453 | 2.955656 | 0.009618 | 0.224708 | -3.81373 | 0.874874 | 0.764033 | -0.11084 | 17 | 406501 | F | II | | IGR | island | IGR-island | chr17:406 | rs2011125 | 47 |
| cg0253679 | 0.105074 | 0.517524 | 2.670359 | 0.017191 | 0.224959 | -4.37509 | 0.570061 | 0.464987 | -0.10507 | 5 | 1.68E+08 | R | II | TENM2 | Body | opensea | Body-open: | | rs5635933 | 17;1 |
| cg0335825 | 0.105062 | 0.52142 | 2.838319 | 0.012227 | 0.224708 | -4.04677 | 0.573951 | 0.468889 | -0.10506 | 2 | 1.83E+08 | R | II | PPP1R1C | Body | opensea | Body-open: | | rs1146932 | 28;2 |
| cg2582767 | 0.109905 | 0.52764 | 2.955248 | 0.009626 | 0.224708 | -3.81455 | 0.582592 | 0.472687 | -0.10991 | 17 | 15255513 | F | II | | IGR | opensea | IGR-opense | | rs5677320 | 37;41 |
| cg0202594 | 0.103159 | 0.519611 | 2.954933 | 0.009632 | 0.224708 | -3.81518 | 0.571191 | 0.468032 | -0.10316 | 4 | 80998921 | F | II | | IGR | opensea | IGR-opense | | rs5325634 | 11;22;48 |
| cg0893093 | 0.100832 | 0.612565 | 2.953999 | 0.00965 | 0.224708 | -3.81704 | 0.662981 | 0.562149 | -0.10083 | 10 | 64755207 | F | II | | IGR | opensea | IGR-opense | | rs1446983 | 16;40 |
| cg0240627 | 0.107856 | 0.602564 | 2.953418 | 0.009662 | 0.224708 | -3.8182 | 0.656492 | 0.548636 | -0.10786 | 12 | 52849755 | R | II | | IGR | opensea | IGR-opense | | rs5376864 | 39;1 |
| cg2497619 | 0.104151 | 0.449226 | 2.952551 | 0.009679 | 0.224708 | -3.81993 | 0.501301 | 0.39715 | -0.10415 | 4 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs5511034 | 2;1 |
| cg1426491 | 0.10042 | 0.322759 | 2.951628 | 0.009697 | 0.224708 | -3.82177 | 0.372969 | 0.272549 | -0.10042 | 3 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs5418538 | 1;11 |
| cg2597534 | 0.101735 | 0.663941 | 2.950149 | 0.009727 | 0.224708 | -3.82473 | 0.714809 | 0.613074 | -0.10173 | 2 | 2.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs1174893 | 5 |
| cg1689043 | 0.105044 | 0.454927 | 3.031277 | 0.008234 | 0.224708 | -3.66217 | 0.507449 | 0.402405 | -0.10504 | 5 | 1.49E+08 | R | II | AFAP1L1 | Body | opensea | Body-open: | | rs1444141 | 17;2 |
| cg0460133 | 0.10504 | 0.521658 | 2.843921 | 0.012088 | 0.224708 | -4.03571 | 0.574178 | 0.469137 | -0.10504 | 12 | 26209446 | R | II | RASSF8 | Body | opensea | Body-open: | | rs5428438 | 2;1 |
| cg1955303 | 0.104101 | 0.548944 | 2.949266 | 0.009744 | 0.224708 | -3.82649 | 0.600995 | 0.496893 | -0.1041 | 4 | 26196680 | F | II | | IGR | opensea | IGR-opense | | rs5390600 | 0;1;10;48 |
| cg2299056 | 0.104995 | 0.511634 | 3.552647 | 0.002799 | 0.224708 | -2.59695 | 0.564132 | 0.459137 | -0.10499 | 9 | 1.2E+08 | R | II | ASTN2 | Body | opensea | Body-open: | | rs1868995 | 1 |
| cg1360235 | 0.104968 | 0.644451 | 2.469924 | 0.025671 | 0.228885 | -4.75703 | 0.696935 | 0.591967 | -0.10497 | 3 | 14885560 | F | II | FGD5 | Body | opensea | Body-open: | | rs5469159 | 33 |
| cg0558231 | 0.104937 | 0.514115 | 3.344116 | 0.004313 | 0.224708 | -3.02633 | 0.566583 | 0.461646 | -0.10494 | 4 | 5760808 | F | II | EVC | Body | opensea | Body-open: | | rs5682419 | 0;31 |
| cg0678533 | 0.104937 | 0.611831 | 3.543731 | 0.002851 | 0.224708 | -2.61537 | 0.664299 | 0.559362 | -0.10494 | 5 | 1.6E+08 | R | II | CCNJL | Body | opensea | Body-open: | | rs5763863 | 2;1 |
| cg2429475 | 0.105103 | 0.541692 | 2.946044 | 0.009809 | 0.224708 | -3.83292 | 0.594243 | 0.48914 | -0.1051 | 12 | 46028329 | F | II | | IGR | opensea | IGR-opense | | rs3744955 | 1;19 |
| cg2036166 | 0.104925 | 0.583917 | 3.350127 | 0.00426 | 0.224708 | -3.014 | 0.636379 | 0.531454 | -0.10492 | 12 | 1.19E+08 | F | II | TAOK3 | Body | opensea | Body-open: | | rs5393535 | 7;13 |
| cg2461998 | 0.101498 | 0.564541 | 2.945451 | 0.009821 | 0.224708 | -3.8341 | 0.61529 | 0.513792 | -0.1015 | 4 | 28094243 | F | II | | IGR | opensea | IGR-opense | | rs5493168 | 0;21 |
| cg0475943 | 0.10157 | 0.402987 | 2.944058 | 0.009849 | 0.224708 | -3.83688 | 0.453772 | 0.352202 | -0.10157 | 8 | 50242329 | F | II | | IGR | opensea | IGR-opense | | rs1843899 | 0;27 |
| cg1389533 | 0.104913 | 0.622336 | 3.287855 | 0.004846 | 0.224708 | -3.14155 | 0.674793 | 0.56988 | -0.10491 | 9 | 6418884 | R | II | UHRF2 | Body | opensea | Body-open: | | rs1868079 | 47 |
| cg1963364 | 0.104871 | 0.451153 | 2.422013 | 0.028223 | 0.230986 | -4.84649 | 0.503589 | 0.398717 | -0.10487 | 15 | 76428015 | R | II | C15orf27 | Body | opensea | Body-open: | | rs885388;r | 23;14;1 |
| cg2166463 | 0.10344 | 0.52181 | 2.942625 | 0.009878 | 0.224708 | -3.83974 | 0.573531 | 0.47009 | -0.10344 | 3 | 70432664 | R | I | | IGR | opensea | IGR-opense | | rs1820123 | 13;3 |
| cg1201432 | 0.124056 | 0.463258 | 2.942548 | 0.00988 | 0.224708 | -3.8399 | 0.525286 | 0.40123 | -0.12406 | 11 | 69226530 | F | II | | IGR | opensea | IGR-opense | | rs5276513 | 13;20 |
| cg0372532 | 0.104815 | 0.414377 | 2.831337 | 0.012402 | 0.224708 | -4.06055 | 0.466784 | 0.36197 | -0.10481 | 20 | 50015815 | F | II | NFATC2 | Body | opensea | Body-open: | | rs7545307 | 0;11;49 |
| cg1513737 | 0.104813 | 0.521853 | 3.45139 | 0.003453 | 0.224708 | -2.80584 | 0.57426 | 0.469446 | -0.10481 | 12 | 23729510 | F | II | SOX5 | Body | opensea | Body-open: | | rs1860090 | 0;1 |
| cg0508452 | 0.109722 | 0.506583 | 2.941783 | 0.009895 | 0.224708 | -3.84142 | 0.561444 | 0.451722 | -0.10972 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5546598 | 1 |
| cg0625075 | 0.1048 | 0.5797 | 3.065226 | 0.007678 | 0.224708 | -3.59382 | 0.6321 | 0.5273 | -0.1048 | 15 | 49329117 | R | II | SECISBP2L | Body | opensea | Body-open: | | rs5559597 | 46 |
| cg1989796 | 0.104111 | 0.564077 | 2.941629 | 0.009898 | 0.224708 | -3.84173 | 0.616132 | 0.512022 | -0.10411 | 20 | 56416164 | F | II | | IGR | opensea | IGR-opense | | rs7329123 | 1;15 |
| cg0189306 | 0.110864 | 0.552041 | 2.941049 | 0.00991 | 0.224708 | -3.84289 | 0.607473 | 0.496609 | -0.11086 | 7 | 90254267 | F | II | | IGR | opensea | IGR-opense | | rs5766203 | 19 |
| cg2044078 | 0.12285 | 0.610956 | 2.940571 | 0.00992 | 0.224708 | -3.84384 | 0.672381 | 0.549531 | -0.12285 | 6 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5453437 | 7;42 |
| cg0493642 | 0.10088 | 0.42449 | 2.940348 | 0.009924 | 0.224708 | -3.84428 | 0.47493 | 0.37405 | -0.10088 | 3 | 1.46E+08 | R | II | | IGR | opensea | IGR-opense | | rs1685787 | 27;26;8 |
| cg1091651 | 0.104764 | 0.633764 | 3.537216 | 0.00289 | 0.224708 | -2.62883 | 0.686146 | 0.581382 | -0.10476 | 10 | 1246336 | R | II | ADARB2 | Body | opensea | Body-open: | | rs1722156 | 24 |
| cg0086992 | 0.104757 | 0.480655 | 2.240579 | 0.04022 | 0.242939 | -5.17782 | 0.533034 | 0.428277 | -0.10476 | 1 | 67051101 | R | II | SGIP1 | Body | opensea | Body-open: | | | |
| cg0653055 | 0.104752 | 0.530699 | 2.763724 | 0.014231 | 0.224708 | -4.19341 | 0.583075 | 0.478323 | -0.10475 | 15 | 54304778 | F | II | UNC13C | TSS1500 | opensea | TSS1500-o | | rs1861455 | 0 |
| cg2112560 | 0.104701 | 0.42228 | 3.173263 | 0.006143 | 0.224708 | -3.37515 | 0.47463 | 0.369929 | -0.1047 | 6 | 1.11E+08 | F | II | SLC16A10 | Body | opensea | Body-open: | | | |
| cg1919746 | 0.11061 | 0.508017 | 2.936011 | 0.010013 | 0.224708 | -3.85293 | 0.563322 | 0.452712 | -0.11061 | 1 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs1175151 | 11 |
| cg1597187 | 0.102659 | 0.418083 | 2.93595 | 0.010014 | 0.224708 | -3.85306 | 0.469412 | 0.366753 | -0.10266 | 2 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs1380049 | 20;2;1 |
| cg0755306 | 0.113101 | 0.540834 | 2.935468 | 0.010024 | 0.224708 | -3.85402 | 0.597385 | 0.484284 | -0.1131 | 18 | 54118660 | F | II | | IGR | opensea | IGR-opense | | rs5741838 | 29;47 |
| cg1316063 | 0.151107 | 0.552668 | 2.934865 | 0.010036 | 0.224708 | -3.85522 | 0.628222 | 0.477115 | -0.15111 | 1 | 1.61E+08 | F | II | | IGR | opensea | IGR-opense | | rs1883734 | 1;5;5;10 |
| cg1051615 | 0.110544 | 0.571935 | 2.933966 | 0.010055 | 0.224708 | -3.85701 | 0.627207 | 0.516663 | -0.11054 | 4 | 45624041 | F | II | | IGR | opensea | IGR-opense | | rs2865487 | 0;8;35 |
| cg0431586 | 0.106199 | 0.396014 | 2.933246 | 0.01007 | 0.224708 | -3.85845 | 0.449114 | 0.342915 | -0.1062 | 13 | 47103926 | F | II | | IGR | opensea | IGR-opense | | rs5452154 | 43 |
| cg2588287 | 0.10468 | 0.71337 | 3.348746 | 0.004272 | 0.224708 | -3.01683 | 0.76571 | 0.66103 | -0.10468 | 22 | 17701547 | R | II | CECR1 | TSS1500 | opensea | TSS1500-o | | rs1896588 | 45;19 |
| cg0854272 | 0.105642 | 0.502215 | 2.931748 | 0.010101 | 0.224708 | -3.86143 | 0.555036 | 0.449394 | -0.10564 | 8 | 75010420 | R | II | | IGR | opensea | IGR-opense | | rs8024860 | 8 |
| cg0492857 | 0.130016 | 0.371825 | 2.931246 | 0.010111 | 0.224708 | -3.86243 | 0.436833 | 0.306816 | -0.13002 | 12 | 63696410 | F | II | | IGR | opensea | IGR-opense | | rs5634446 | 10;16;28;44 |
| cg0004059 | 0.10467 | 0.548504 | 3.446305 | 0.003489 | 0.224708 | -2.81632 | 0.60084 | 0.496169 | -0.10467 | 5 | 1.45E+08 | R | II | SH3RF2 | 5'UTR | shore | 5'UTR-shor | chr5:1453 | rs5458217 | 28;24;20;9 |
| cg1043453 | 0.103015 | 0.568825 | 2.929078 | 0.010156 | 0.224708 | -3.86675 | 0.620333 | 0.517318 | -0.10301 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs5329185 | 29 |
| cg2389809 | 0.102406 | 0.635704 | 2.927991 | 0.010179 | 0.224708 | -3.86892 | 0.686907 | 0.584501 | -0.10241 | 6 | 1.67E+08 | R | II | | IGR | opensea | IGR-opense | | rs5578234 | 2 |
| cg2476166 | 0.103332 | 0.485649 | 2.927235 | 0.010195 | 0.224708 | -3.87042 | 0.537315 | 0.433983 | -0.10333 | 2 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2070828 | 0.116673 | 0.567502 | 2.927143 | 0.010196 | 0.224708 | -3.87061 | 0.625839 | 0.509166 | -0.11667 | 5 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs1147652 | 1 |
| cg0525937 | 0.104665 | 0.52678 | 2.889497 | 0.011013 | 0.224708 | -3.94547 | 0.579113 | 0.474448 | -0.10467 | 13 | 60308743 | R | II | DIAPH3 | Body | opensea | Body-open: | | rs1180984 | 49;28;5;2 |
| cg2175155 | 0.106475 | 0.452941 | 2.924034 | 0.010262 | 0.224708 | -3.8768 | 0.506178 | 0.399704 | -0.10647 | 21 | 32451135 | F | II | | IGR | opensea | IGR-opense | | rs5522770 | 1;24;26;39 |
| cg1126754 | 0.10466 | 0.644107 | 3.363927 | 0.00414 | 0.224708 | -2.98568 | 0.696437 | 0.591777 | -0.10466 | 7 | 27167828 | F | II | HOXA3 | TSS1500 | shore | TSS1500-sh | chr7:2716 | rs1859162 | 27 |
| cg2206326 | 0.104653 | 0.56354 | 3.218093 | 0.005599 | 0.224708 | -3.28395 | 0.615867 | 0.511214 | -0.10465 | 2 | 44958986 | R | II | CAMKMT | Body | opensea | Body-open: | | rs1437746 | 14 |
| cg1386103 | 0.104631 | 0.498357 | 2.77752 | 0.013838 | 0.224708 | -4.16639 | 0.550673 | 0.446041 | -0.10463 | 11 | 5385322 | R | II | OR51B5 | Body | opensea | Body-open: | | rs1846079 | 49;32 |
| cg0584896 | 0.104617 | 0.581484 | 3.558856 | 0.002763 | 0.224708 | -2.58412 | 0.633792 | 0.529176 | -0.10462 | 2 | 1.74E+08 | F | II | MLK7-AS1 | Body | opensea | Body-open: | | rs1397590 | 0;1;14;15;18;37 |
| cg1356201 | 0.100878 | 0.625172 | 2.922327 | 0.010298 | 0.224708 | -3.8802 | 0.675611 | 0.574733 | -0.10088 | 22 | 22754456 | R | II | | IGR | opensea | IGR-opense | | rs1442580 | 2 |
| cg0762003 | 0.109278 | 0.470154 | 2.922208 | 0.0103 | 0.224708 | -3.88044 | 0.524793 | 0.415515 | -0.10928 | 13 | 39771708 | R | II | | IGR | opensea | IGR-opense | | rs5583166 | 24 |
| cg0875051 | 0.107321 | 0.52271 | 2.921477 | 0.010315 | 0.224708 | -3.88189 | 0.576371 | 0.46905 | -0.10732 | 5 | 32537617 | R | II | | IGR | opensea | IGR-opense | | rs1909435 | 29;27;13 |
| cg1314519 | 0.104599 | 0.419395 | 2.732545 | 0.01516 | 0.224783 | -4.25432 | 0.471694 | 0.367095 | -0.1046 | 7 | 1.06E+08 | F | II | NAMPT | TSS1500 | shore | TSS1500-sh | chr7:1059 | rs6133008 | 48 |
| cg1511091 | 0.101768 | 0.68086 | 2.918404 | 0.010381 | 0.224708 | -3.88801 | 0.731744 | 0.629976 | -0.10177 | 7 | 7959339 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2522615 | 0.104593 | 0.468249 | 3.571726 | 0.00269 | 0.224708 | -2.55752 | 0.520545 | 0.415952 | -0.10459 | 10 | 89554130 | R | II | ATAD1 | Body | opensea | Body-open: | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1164545 | 0.104583 | 0.709723 | 2.957616 | 0.009579 | 0.224708 | -3.80981 | 0.762014 | 0.657432 | -0.10458 | 3 | 52864694 | F | II | ITIH4 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2488821 | 0.104564 | 0.542036 | 3.098164 | 0.007174 | 0.224708 | -3.52733 | 0.594318 | 0.489754 | -0.10456 | 11 | 1.29E+08 | F | II | ARHGAP32 | Body | opensea | Body-open: | | rs1136691 | 43 |
| cg1868018 | 0.104541 | 0.633585 | 3.311993 | 0.00461 | 0.224708 | -3.09215 | 0.685855 | 0.581314 | -0.10454 | 14 | 35629311 | R | II | KIAA0391 | Body | opensea | Body-open: | | rs1907458 | 10 |
| cg1680729 | 0.106489 | 0.494631 | 2.915417 | 0.010444 | 0.224708 | -3.89395 | 0.547875 | 0.441386 | -0.10649 | 16 | 14375926 | F | II | | IGR | shelf | IGR-shelf | chr16:143 | rs1850731 | 0;3 |
| cg2652176 | 0.101195 | 0.606618 | 2.915082 | 0.010451 | 0.224708 | -3.89462 | 0.657215 | 0.55602 | -0.10119 | 11 | 59295398 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1176439 | 0.104509 | 0.575926 | 3.233833 | 0.00542 | 0.224708 | -3.25187 | 0.62818 | 0.523671 | -0.10451 | 21 | 47864791 | F | II | PCNT | Body | opensea | Body-open: | | rs1512361 | 0;4;22;25;32;47 |
| cg0698629 | 0.104502 | 0.523312 | 3.137202 | 0.006618 | 0.224708 | -3.44832 | 0.575563 | 0.471061 | -0.1045 | 8 | 1.31E+08 | R | II | CCDC26 | Body | opensea | Body-open: | | rs1881361 | 46 |
| cg0086820 | 0.10448 | 0.480046 | 2.783021 | 0.013684 | 0.224708 | -4.1556 | 0.532286 | 0.427806 | -0.10448 | 6 | 1.5E+08 | F | II | TAB2 | Body | shore | Body-shore | chr6:1496 | rs1445708 | 34;51 |
| cg0340756 | 0.110816 | 0.580637 | 2.91295 | 0.010497 | 0.224708 | -3.89886 | 0.636045 | 0.525228 | -0.11082 | 8 | 1682921 | R | II | | IGR | opensea | IGR-opense | | rs5464896 | 50;47;37;35 |
| cg1172772 | 0.102426 | 0.525448 | 2.912663 | 0.010503 | 0.224708 | -3.89943 | 0.576661 | 0.474235 | -0.10243 | 18 | 42742510 | R | II | | IGR | opensea | IGR-opense | | rs1465537 | 13;2;1 |
| cg1216261 | 0.104444 | 0.509078 | 2.821523 | 0.012652 | 0.224708 | -4.0799 | 0.5613 | 0.456856 | -0.10444 | 6 | 18147472 | F | II | TPMT | Body | opensea | Body-open: | | | |
| cg0655523 | 0.104438 | 0.804834 | 2.807143 | 0.013028 | 0.224708 | -4.10821 | 0.857053 | 0.752615 | -0.10444 | 4 | 1.07E+08 | R | II | ARHGEF38 | Body | opensea | Body-open: | | rs5446146 | 19 |
| cg0405506 | 0.104415 | 0.54307 | 3.268364 | 0.005046 | 0.224708 | -3.18139 | 0.595277 | 0.490863 | -0.10441 | 3 | 25382277 | F | II | RARB | TSS200 | opensea | TSS200-ope | | rs1459922 | 25 |
| cg2006035 | 0.104399 | 0.453716 | 2.737781 | 0.015 | 0.224756 | -4.24411 | 0.505915 | 0.401517 | -0.1044 | 8 | 1.07E+08 | F | II | ZFPM2-AS1 | Body | opensea | Body-open: | | rs1896580 | 4;26;26 |
| cg0956311 | 0.113831 | 0.435879 | 2.908535 | 0.010592 | 0.224708 | -3.90764 | 0.492794 | 0.378963 | -0.11383 | 14 | 1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1897442 | 0;2 |
| cg0280455 | 0.10439 | 0.838554 | 3.682326 | 0.002139 | 0.224708 | -2.32863 | 0.890749 | 0.786358 | -0.10439 | 11 | 7022088 | R | II | ZNF214 | Body | opensea | Body-open: | | rs5684049 | 43;32;19;2;1 |
| cg1343487 | 0.103067 | 0.555457 | 2.907122 | 0.010623 | 0.224708 | -3.91045 | 0.606991 | 0.503924 | -0.10307 | 1 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs1152743 | 22;38 |
| cg2242101 | 0.104666 | 0.713253 | 2.906922 | 0.010628 | 0.224708 | -3.91085 | 0.765586 | 0.66092 | -0.10467 | 1 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs1379003 | 44 |
| cg1983404 | 0.104373 | 0.549472 | 3.00646 | 0.008665 | 0.224708 | -3.71202 | 0.601658 | 0.497286 | -0.10437 | 3 | 1.6E+08 | R | II | SCHIP1 | Body | opensea | Body-open: | | rs5479757 | 49;46;36;19;1 |
| cg2434215 | 0.10437 | 0.538467 | 2.797638 | 0.013283 | 0.224708 | -4.1269 | 0.590652 | 0.486282 | -0.10437 | 8 | 1.25E+08 | F | II | FER1L6 | 5'UTR | opensea | 5'UTR-open | | rs1446023 | 0;3;18 |
| cg0130318 | 0.104365 | 0.793843 | 2.957136 | 0.009588 | 0.224708 | -3.81077 | 0.846026 | 0.741661 | -0.10436 | 16 | 8714793 | F | II | C16orf68 | TSS1500 | shore | TSS1500-sh | chr16:871 | rs1496868 | 0;27;34;42;45 |
| cg1115030 | 0.107764 | 0.410842 | 2.903988 | 0.010692 | 0.224708 | -3.91668 | 0.464724 | 0.35696 | -0.10776 | 1 | 1.98E+08 | F | II | | IGR | opensea | IGR-opense | | rs5311340 | 0 |
| cg0130256 | 0.104334 | 0.571677 | 3.309031 | 0.004638 | 0.224708 | -3.09822 | 0.623844 | 0.51951 | -0.10433 | 12 | 1.31E+08 | F | II | RIMBP2 | 5'UTR | opensea | 5'UTR-open | | rs5314280 | 0;10;16;40 |
| cg0424368 | 0.102086 | 0.635584 | 2.903601 | 0.0107 | 0.224708 | -3.91745 | 0.686627 | 0.584541 | -0.10209 | 6 | 86395706 | F | II | | IGR | opensea | IGR-opense | | rs5544356 | 0;1;7;25;39 |
| cg2736599 | 0.100076 | 0.510086 | 2.901386 | 0.010749 | 0.224708 | -3.92186 | 0.560124 | 0.460048 | -0.10008 | 5 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1692030 | 0.109947 | 0.583215 | 2.901212 | 0.010752 | 0.224708 | -3.9222 | 0.638189 | 0.528242 | -0.10995 | 4 | 74548513 | R | II | | IGR | opensea | IGR-opense | | rs5495018 | 51;41;41;37;2;1 |
| cg1648806 | 0.105536 | 0.545612 | 2.900671 | 0.010764 | 0.224708 | -3.92328 | 0.59838 | 0.492844 | -0.10554 | 1 | 2.05E+08 | R | II | | IGR | shore | IGR-shore | chr1:2046 | rs5549247 | 32;27 |
| cg0474987 | 0.10433 | 0.571388 | 2.722668 | 0.015466 | 0.224896 | -4.27357 | 0.623553 | 0.519223 | -0.10433 | 8 | 71039880 | R | II | NCOA2 | Body | opensea | Body-open: | | rs1146388 | 16;1 |
| cg0547735 | 0.104284 | 0.47836 | 3.076647 | 0.007499 | 0.224708 | -3.57079 | 0.530503 | 0.426218 | -0.10428 | 3 | 1.32E+08 | R | II | CPNE4 | Body | opensea | Body-open: | | | |
| cg2751207 | 0.111081 | 0.30635 | 2.898031 | 0.010823 | 0.224708 | -3.92852 | 0.36189 | 0.25081 | -0.11108 | 4 | 1.13E+08 | R | II | | IGR | shelf | IGR-shelf | chr4:1132 | rs4834256 | 2 |
| cg0276782 | 0.100862 | 0.545123 | 2.898018 | 0.010823 | 0.224708 | -3.92855 | 0.595554 | 0.494692 | -0.10086 | 4 | 90022810 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1165921 | 0.100656 | 0.345415 | 2.897464 | 0.010835 | 0.224708 | -3.92965 | 0.395743 | 0.295086 | -0.10066 | 16 | 71642351 | F | II | | IGR | opensea | IGR-opense | | rs5538458 | 11;14;30;33 |
| cg1035690 | 0.113664 | 0.719802 | 2.897421 | 0.010836 | 0.224708 | -3.92973 | 0.776634 | 0.66297 | -0.11366 | 22 | 49881777 | F | II | | IGR | shore | IGR-shore | chr22:498 | rs5550509 | 33;44 |
| cg1043256 | 0.104253 | 0.561213 | 2.595884 | 0.019969 | 0.225563 | -4.51837 | 0.61334 | 0.509087 | -0.10425 | 17 | 46709858 | F | II | MIR196A1 | Body | shore | Body-shore | chr17:467 | rs1864495 | 1;17;41 |
| cg1331954 | 0.104251 | 0.413929 | 3.024809 | 0.008344 | 0.224708 | -3.67517 | 0.466054 | 0.361803 | -0.10425 | 2 | 71580473 | F | II | ZNF638 | Body | opensea | Body-open: | | rs5751349 | 1 |
| cg2756978 | 0.105127 | 0.510021 | 2.893332 | 0.010927 | 0.224708 | -3.93785 | 0.562584 | 0.457458 | -0.10513 | 6 | 27078427 | R | II | | IGR | opensea | IGR-opense | | rs1394768 | 18 |
| cg1844236 | 0.104244 | 0.36258 | 2.829345 | 0.012452 | 0.224708 | -4.06448 | 0.414702 | 0.310458 | -0.10424 | 7 | 44677772 | F | II | OGDH | Body | opensea | Body-open: | | rs3699458 | 0;1;7 |
| cg0032942 | 0.106683 | 0.497618 | 2.891869 | 0.01096 | 0.224708 | -3.94076 | 0.550959 | 0.444276 | -0.10668 | 3 | 38193513 | F | II | | IGR | opensea | IGR-opense | | rs5611060 | 18 |
| cg2602945 | 0.104204 | 0.489343 | 3.126917 | 0.00676 | 0.224708 | -3.46916 | 0.541445 | 0.437241 | -0.1042 | 7 | 47818048 | F | II | PKD1L1 | Body | opensea | Body-open: | | rs1436480 | 0;1;49;51 |
| cg2709656 | 0.104168 | 0.567451 | 3.023454 | 0.008367 | 0.224708 | -3.6779 | 0.619535 | 0.515367 | -0.10417 | 1 | 33419301 | R | II | RNF19B | Body | opensea | Body-open: | | rs5327542 | 2;1 |
| cg0934587 | 0.102596 | 0.643147 | 2.891502 | 0.010968 | 0.224708 | -3.94149 | 0.694445 | 0.591849 | -0.1026 | 1 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1448540 | 0.102903 | 0.468425 | 2.891338 | 0.010972 | 0.224708 | -3.94181 | 0.519877 | 0.416974 | -0.1029 | 2 | 45063342 | R | II | | IGR | opensea | IGR-opense | | rs1137184 | 51;50;34;16;2 |
| cg1054341 | 0.101422 | 0.52283 | 2.891324 | 0.010972 | 0.224708 | -3.94184 | 0.573541 | 0.472119 | -0.10142 | 3 | 37489393 | R | II | | IGR | opensea | IGR-opense | | rs7628974 | 50;45;2 |
| cg1399762 | 0.104154 | 0.589228 | 3.299025 | 0.004736 | 0.224708 | -3.1187 | 0.641305 | 0.537151 | -0.10415 | 15 | 51641258 | F | II | GLDN | Body | opensea | Body-open: | | rs1417915 | 1;23;25 |
| cg2607907 | 0.104165 | 0.503096 | 2.890993 | 0.01098 | 0.224708 | -3.9425 | 0.555179 | 0.451014 | -0.10416 | 18 | 41361082 | F | II | | IGR | opensea | IGR-opense | | rs5333896 | 22;51 |
| cg2027564 | 0.112852 | 0.418118 | 2.890952 | 0.01098 | 0.224708 | -3.94258 | 0.474544 | 0.361692 | -0.11285 | 10 | 10911683 | R | II | | IGR | opensea | IGR-opense | | rs1382590 | 2 |
| cg0933585 | 0.105385 | 0.486857 | 2.890238 | 0.010997 | 0.224708 | -3.944 | 0.53955 | 0.434164 | -0.10539 | 3 | 5307317 | R | II | | IGR | opensea | IGR-opense | | rs5388905 | 1 |
| cg2611327 | 0.104141 | 0.524958 | 3.105665 | 0.007064 | 0.224708 | -3.51217 | 0.577028 | 0.472887 | -0.10414 | 1 | 54484669 | R | II | LDLRAD1 | TSS1500 | opensea | TSS1500-op | | rs2000641 | 51;49;2;1 |
| cg2386661 | 0.104126 | 0.779724 | 2.411213 | 0.02883 | 0.231424 | -4.86655 | 0.831787 | 0.727661 | -0.10413 | 7 | 1.31E+08 | R | II | MKLN1 | Body | opensea | Body-open: | | rs5612420 | 14;1 |
| cg1752446 | 0.104124 | 0.443636 | 3.007859 | 0.00864 | 0.224708 | -3.70921 | 0.495698 | 0.391575 | -0.10412 | 3 | 46411369 | R | II | CCR5 | TSS1500 | opensea | TSS1500-op | | rs4138484 | 2;1 |
| cg0120460 | 0.103163 | 0.443288 | 2.88954 | 0.011012 | 0.224708 | -3.94538 | 0.49487 | 0.391707 | -0.10316 | 16 | 80619852 | R | II | | IGR | opensea | IGR-opense | | rs5339601 | 27;21;14 |
| cg1922722 | 0.104121 | 0.495187 | 3.347806 | 0.00428 | 0.224708 | -3.01876 | 0.547247 | 0.443126 | -0.10412 | 1 | 67660601 | F | II | IL23R | Body | opensea | Body-open: | | rs5383818 | 0 |
| cg1386880 | 0.11017 | 0.660564 | 2.8891 | 0.011022 | 0.224708 | -3.94625 | 0.71565 | 0.605479 | -0.11017 | 9 | 87917961 | F | II | | IGR | opensea | IGR-opense | | rs5392606 | 0;6;15;30 |
| cg1192373 | 0.104078 | 0.473722 | 2.956599 | 0.009599 | 0.224708 | -3.81185 | 0.52576 | 0.421683 | -0.10408 | 3 | 1.94E+08 | F | II | LSG1 | Body | opensea | Body-open: | | rs5558417 | 36;37 |
| cg2648973 | 0.110589 | 0.598311 | 2.888353 | 0.011039 | 0.224708 | -3.94774 | 0.653606 | 0.543016 | -0.11059 | 10 | 3930603 | R | II | | IGR | opensea | IGR-opense | | rs5466613 | 45;34;28 |
| cg0082630 | 0.104076 | 0.470456 | 2.906792 | 0.01063 | 0.224708 | -3.91111 | 0.522494 | 0.418418 | -0.10408 | 18 | 12998806 | R | II | CEP192 | 5'UTR | opensea | 5'UTR-open | | rs5427516 | 47;46;20;1 |
| cg1126746 | 0.114653 | 0.598341 | 2.886869 | 0.011073 | 0.224708 | -3.95068 | 0.655668 | 0.541015 | -0.11465 | 7 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0767569 | 0.104072 | 0.617051 | 3.413108 | 0.003738 | 0.224708 | -2.88463 | 0.669087 | 0.565015 | -0.10407 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs5704730 | 49;6 |
| cg1753908 | 0.104054 | 0.496468 | 2.834044 | 0.012334 | 0.224708 | -4.05521 | 0.548495 | 0.444442 | -0.10405 | 1 | 42265746 | F | II | HIVEP3 | 5'UTR | opensea | 5'UTR-open | | rs1450071 | 32;42 |
| cg0981006 | 0.107749 | 0.662555 | 2.88633 | 0.011085 | 0.224708 | -3.95175 | 0.716429 | 0.608681 | -0.10775 | 20 | 57357380 | F | II | | IGR | opensea | IGR-opense | | rs7482697 | 0;15 |
| cg0808706 | 0.104017 | 0.574019 | 2.619115 | 0.019059 | 0.225391 | -4.47384 | 0.626027 | 0.52201 | -0.10402 | 16 | 87795808 | F | II | KLHDC4 | Body | shelf | Body-shelf | chr16:877 | rs1865701 | 1;27;33;41;43 |
| cg1624718 | 0.104009 | 0.492314 | 3.203931 | 0.005766 | 0.224708 | -3.31279 | 0.544318 | 0.440309 | -0.10401 | 17 | 63822421 | R | II | CCDC46 | Body | opensea | Body-open: | | rs1999385 | 45;39;29;1 |
| cg2709776 | 0.10845 | 0.515849 | 2.885106 | 0.011113 | 0.224708 | -3.95418 | 0.570074 | 0.461624 | -0.10845 | 14 | 21923087 | R | II | | IGR | shore | IGR-shore | chr14:219 | rs7912057 | 9 |
| cg2066343 | 0.104006 | 0.465348 | 2.805019 | 0.013085 | 0.224708 | -4.11239 | 0.51735 | 0.413345 | -0.10401 | 12 | 5696809 | F | II | ANO2 | Body | opensea | Body-open: | | rs5295548 | 40;48 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0189178 | 0.101744 | 0.674645 | 2.881171 | 0.011202 | 0.224708 | -3.96198 | 0.725517 | 0.623773 | -0.10174 | 3 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5278634 27;1 |
| cg0279774 | 0.114524 | 0.62591 | 2.880362 | 0.011221 | 0.224708 | -3.96359 | 0.683172 | 0.568648 | -0.11452 | 4 | 96811007 | F | II | | IGR | opensea | IGR-opense | | rs1118303 0;15 |
| cg1332191 | 0.103973 | 0.569706 | 3.521644 | 0.002984 | 0.224708 | -2.66098 | 0.621692 | 0.517719 | -0.10397 | 16 | 80779008 | F | II | CDYL2 | Body | opensea | Body-open: | | rs5374096 36 |
| cg2546931 | 0.103967 | 0.611448 | 3.335234 | 0.004393 | 0.224708 | -3.04454 | 0.663432 | 0.559465 | -0.10397 | 1 | 48704831 | R | II | SLC5A9 | Body | opensea | Body-open: | | rs7906706 40;24 |
| cg2018704 | 0.108814 | 0.513274 | 2.878597 | 0.011261 | 0.224708 | -3.96709 | 0.567681 | 0.458867 | -0.10881 | 3 | 28982939 | R | II | | IGR | opensea | IGR-opense | | |
| cg0994242 | 0.103947 | 0.652042 | 3.422761 | 0.003664 | 0.224708 | -2.86478 | 0.704015 | 0.600068 | -0.10395 | 17 | 74913419 | F | II | MGAT5B | Body | opensea | Body-open: | | rs1171965 0;28 |
| cg2363851 | 0.10394 | 0.511016 | 2.844685 | 0.012069 | 0.224708 | -4.0342 | 0.562986 | 0.459046 | -0.10394 | 6 | 39080067 | F | II | C6orf64 | Body | shelf | Body-shelf | chr6:3908 | rs1415820 15;32;49 |
| cg2740564 | 0.103936 | 0.461262 | 2.487482 | 0.024792 | 0.228087 | -4.72406 | 0.51323 | 0.409294 | -0.10394 | 5 | 42547112 | F | II | GHR | TSS1500 | opensea | TSS1500-o | | |
| cg0624809 | 0.103925 | 0.479613 | 2.657312 | 0.017649 | 0.225076 | -4.4003 | 0.531575 | 0.42765 | -0.10392 | 18 | 6004245 | F | II | L3MBTL4 | Body | opensea | Body-open: | | rs5430257 0 |
| cg0570946 | 0.103904 | 0.608765 | 3.030751 | 0.008242 | 0.224708 | -3.66323 | 0.660717 | 0.556813 | -0.1039 | 18 | 21794764 | F | II | OSBPL1A | Body | opensea | Body-open: | | rs1424704 1;15 |
| cg0258278 | 0.103865 | 0.558847 | 2.600573 | 0.019782 | 0.225467 | -4.50939 | 0.61078 | 0.506915 | -0.10387 | 9 | 78291792 | F | II | MIR548H3 | Body | opensea | Body-open: | | rs5726178 0;13;51 |
| cg0324883 | 0.103842 | 0.564828 | 3.519353 | 0.002999 | 0.224708 | -2.66571 | 0.616749 | 0.512907 | -0.10384 | 12 | 55864950 | F | II | OR6C70 | TSS1500 | opensea | TSS1500-o | | rs5517369 0;25 |
| cg0862801 | 0.100101 | 0.595479 | 2.874961 | 0.011345 | 0.224708 | -3.97429 | 0.645529 | 0.545428 | -0.1001 | 5 | 1.76E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0079539 | 0.103351 | 0.585824 | 2.874785 | 0.011349 | 0.224708 | -3.97464 | 0.6375 | 0.534149 | -0.10335 | 14 | 87113901 | F | II | | IGR | opensea | IGR-opense | | rs5332678 8 |
| cg1865775 | 0.103839 | 0.52056 | 2.414201 | 0.028661 | 0.231242 | -4.861 | 0.572479 | 0.46864 | -0.10384 | 17 | 9834056 | F | II | GAS7 | Body | opensea | Body-open: | | rs5534885 1;7;42;51 |
| cg1441216 | 0.10383 | 0.613989 | 2.755157 | 0.01448 | 0.224708 | -4.21017 | 0.665904 | 0.562074 | -0.10383 | 4 | 81957210 | R | II | BMP3 | Body | opensea | Body-open: | | rs1003156 26;1 |
| cg2224770 | 0.103805 | 0.637792 | 2.871218 | 0.011432 | 0.224708 | -3.98171 | 0.689694 | 0.585889 | -0.10381 | 13 | 39953175 | F | II | LHFP | Body | opensea | Body-open: | | rs1492705 3;20;26;39;47 |
| cg0379385 | 0.109531 | 0.522767 | 2.873607 | 0.011377 | 0.224708 | -3.97698 | 0.577533 | 0.468002 | -0.10953 | 13 | 76867659 | F | II | | IGR | opensea | IGR-opense | | rs5769345 5;8;37 |
| cg2259067 | 0.103805 | 0.620375 | 3.718629 | 0.001984 | 0.224708 | -2.25341 | 0.672277 | 0.568473 | -0.1038 | 5 | 1.45E+08 | F | II | SH3RF2 | Body | opensea | Body-open: | | rs5577051 0;5;18 |
| cg0087016 | 0.103799 | 0.407433 | 3.712577 | 0.002009 | 0.224708 | -2.26595 | 0.459332 | 0.355533 | -0.1038 | 12 | 12584171 | F | II | LOH12CR1 | Body | opensea | Body-open: | | rs1923269 0;20;31 |
| cg2539346 | 0.103799 | 0.660462 | 2.655878 | 0.0177 | 0.225076 | -4.40307 | 0.712361 | 0.608562 | -0.1038 | 12 | 1.04E+08 | R | II | C12orf42 | Body | opensea | Body-open: | | rs5731392 45;1 |
| cg2276405 | 0.104574 | 0.630509 | 2.872062 | 0.011413 | 0.224708 | -3.98004 | 0.682796 | 0.578222 | -0.10457 | 16 | 56684029 | R | II | | IGR | opensea | IGR-opense | | rs7197489 38;14;2 |
| cg2345122 | 0.103795 | 0.53801 | 2.580156 | 0.020608 | 0.225654 | -4.54843 | 0.589908 | 0.486113 | -0.10379 | 8 | 1.3E+08 | R | II | LINC00824 | Body | opensea | Body-open: | | rs5311545 1 |
| cg0565908 | 0.117185 | 0.538609 | 2.870872 | 0.011441 | 0.224708 | -3.9824 | 0.597201 | 0.480016 | -0.11719 | 7 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5780346 1;28 |
| cg2151217 | 0.100914 | 0.470258 | 2.870387 | 0.011452 | 0.224708 | -3.98336 | 0.520715 | 0.419801 | -0.10091 | 2 | 85971548 | F | II | | IGR | opensea | IGR-opense | | rs1885887 1 |
| cg0880370 | 0.103781 | 0.556213 | 2.638584 | 0.018327 | 0.225076 | -4.43641 | 0.608104 | 0.504323 | -0.10378 | 16 | 57273293 | F | II | RSPRY1 | 3'UTR | opensea | 3'UTR-open | | rs1417706 2;41 |
| cg2181199 | 0.102337 | 0.621159 | 2.869583 | 0.011471 | 0.224708 | -3.98495 | 0.672328 | 0.569991 | -0.10234 | 4 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | rs5466790 45;1 |
| cg0456508 | 0.111721 | 0.453645 | 2.868716 | 0.011491 | 0.224708 | -3.98667 | 0.509505 | 0.397784 | -0.11172 | 18 | 19184921 | F | II | | IGR | shelf | IGR-shelf | chr18:191 | |
| cg1809126 | 0.103776 | 0.608263 | 2.844175 | 0.012081 | 0.224708 | -4.03521 | 0.660151 | 0.556375 | -0.10378 | 17 | 63822838 | R | II | CCDC46 | TSS200 | opensea | TSS200-ope | | rs5713764 14;12;10;9;2;1 |
| cg0942073 | 0.101347 | 0.614652 | 2.867982 | 0.011508 | 0.224708 | -3.98812 | 0.665325 | 0.563978 | -0.10135 | 7 | 25705835 | R | II | | IGR | opensea | IGR-opense | | rs1899908 36;7;1 |
| cg2632726 | 0.103758 | 0.634122 | 2.894034 | 0.010911 | 0.224708 | -3.93646 | 0.686001 | 0.582243 | -0.10376 | 15 | 48710196 | F | II | FBN1 | Body | opensea | Body-open: | | rs1430775 0;3;14;16 |
| cg1744648 | 0.105876 | 0.467342 | 2.865343 | 0.01157 | 0.224708 | -3.99335 | 0.52028 | 0.414404 | -0.10588 | 6 | 6772111 | F | II | | IGR | opensea | IGR-opense | | |
| cg0012261 | 0.127734 | 0.764187 | 2.865302 | 0.011571 | 0.224708 | -3.99343 | 0.828054 | 0.700321 | -0.12773 | 7 | 1562658 | R | II | | IGR | opensea | IGR-opense | | rs5553967 41;29;14;12 |
| cg1626680 | 0.106964 | 0.483338 | 2.865037 | 0.011578 | 0.224708 | -3.99395 | 0.53682 | 0.429856 | -0.10696 | 20 | 30943371 | R | II | | IGR | shelf | IGR-shelf | chr20:309 | |
| cg0148241 | 0.106417 | 0.521001 | 2.864785 | 0.011584 | 0.224708 | -3.99445 | 0.57421 | 0.467793 | -0.10642 | 1 | 2.26E+08 | F | II | | IGR | opensea | IGR-opense | | rs5579066 7;27 |
| cg2523248 | 0.103758 | 0.638935 | 3.626207 | 0.002403 | 0.224708 | -2.44484 | 0.690813 | 0.587056 | -0.10376 | 21 | 41754473 | R | II | DSCAM-AS1 | TSS1500 | opensea | TSS1500-o | | rs6222380 14;11;2 |
| cg1137518 | 0.103742 | 0.444956 | 2.837107 | 0.012257 | 0.224708 | -4.04916 | 0.496827 | 0.393085 | -0.10374 | 1 | 2.37E+08 | R | II | RYR2 | Body | opensea | Body-open: | | rs1463152 51;1 |
| cg0539749 | 0.10374 | 0.624565 | 3.394985 | 0.003881 | 0.224708 | -2.92189 | 0.676435 | 0.572695 | -0.10374 | 13 | 33105476 | R | II | N4BP2L2 | Body | opensea | Body-open: | | rs1497398 31;18;13;8 |
| cg0487683 | 0.115368 | 0.535625 | 2.863343 | 0.011618 | 0.224708 | -3.99731 | 0.593309 | 0.477941 | -0.11537 | 5 | 33273644 | F | II | | IGR | opensea | IGR-opense | | rs2331189 11;24;33;47 |
| cg2104930 | 0.116958 | 0.497978 | 2.861621 | 0.011659 | 0.224708 | -4.00071 | 0.556457 | 0.439499 | -0.11696 | 17 | 53702388 | F | II | | IGR | opensea | IGR-opense | | rs5651161 0;30 |
| cg0425989 | 0.116318 | 0.541624 | 2.861539 | 0.011661 | 0.224708 | -4.00087 | 0.599783 | 0.483465 | -0.11632 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1095647 12;2;1 |
| cg2515918 | 0.103735 | 0.537225 | 3.185557 | 0.005989 | 0.224708 | -3.35016 | 0.589092 | 0.485357 | -0.10373 | 2 | 2.31E+08 | R | II | TRIP12 | Body | opensea | Body-open: | | |
| cg1487909 | 0.103716 | 0.548784 | 2.506772 | 0.02386 | 0.227295 | -4.68772 | 0.600642 | 0.496926 | -0.10372 | 1 | 1.85E+08 | F | II | FAM129A | Body | opensea | Body-open: | | rs5294297 1;4;11;24;44 |
| cg0451843 | 0.103707 | 0.542734 | 2.886639 | 0.011078 | 0.224708 | -3.95114 | 0.594587 | 0.49088 | -0.10371 | 7 | 55981411 | F | II | ZNF713 | Body | opensea | Body-open: | | rs5499886 27 |
| cg0043240 | 0.106182 | 0.511776 | 2.86049 | 0.011686 | 0.224708 | -4.00295 | 0.564867 | 0.458685 | -0.10618 | 5 | 1.81E+08 | F | II | | IGR | opensea | IGR-opense | | rs1808494 37 |
| cg1236700 | 0.107979 | 0.411758 | 2.860423 | 0.011687 | 0.224708 | -4.00308 | 0.465748 | 0.357768 | -0.10798 | 18 | 55673626 | F | II | | IGR | opensea | IGR-opense | | rs1821329 21 |
| cg1597360 | 0.105682 | 0.497086 | 2.859871 | 0.0117 | 0.224708 | -4.00418 | 0.549927 | 0.444245 | -0.10568 | 5 | 96159726 | F | II | | IGR | opensea | IGR-opense | | rs5397084 0;48 |
| cg2708356 | 0.103685 | 0.519 | 2.878254 | 0.011269 | 0.224708 | -3.96777 | 0.570842 | 0.467158 | -0.10368 | 18 | 34522301 | F | II | KIAA1328 | Body | opensea | Body-open: | | rs5519001 42 |
| cg1866188 | 0.108964 | 0.548141 | 2.858437 | 0.011735 | 0.224708 | -4.00701 | 0.602623 | 0.493659 | -0.10896 | 4 | 833876 | R | II | | IGR | opensea | IGR-opense | | rs5406829 24;1 |
| cg1890455 | 0.103681 | 0.62812 | 2.805239 | 0.013079 | 0.224708 | -4.11196 | 0.679961 | 0.57628 | -0.10368 | 10 | 93624759 | F | II | TNKS2 | 3'UTR | opensea | 3'UTR-open | | rs5768482 11 |
| cg1113246 | 0.103672 | 0.57846 | 2.987014 | 0.009018 | 0.224708 | -3.75101 | 0.630296 | 0.526624 | -0.10367 | 8 | 1.42E+08 | R | II | PTP4A3 | 5'UTR | shelf | 5'UTR-shelf | chr8:1424 | rs1832582 44;26 |
| cg0702868 | 0.103653 | 0.608658 | 3.058486 | 0.007785 | 0.224708 | -3.60741 | 0.660485 | 0.556832 | -0.10365 | 6 | 1.14E+08 | F | II | LOC10192 | Body | opensea | Body-open: | | rs1427248 26;47 |
| cg0573078 | 0.106454 | 0.601277 | 2.853887 | 0.011844 | 0.224708 | -4.01601 | 0.654504 | 0.54805 | -0.10645 | 7 | 17193341 | R | II | | IGR | opensea | IGR-opense | | rs1382460 5;2 |
| cg0436921 | 0.100196 | 0.575168 | 2.85373 | 0.011848 | 0.224708 | -4.01632 | 0.625266 | 0.52507 | -0.1002 | 5 | 1.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs5686674 22;20 |
| cg1322835 | 0.103626 | 0.519019 | 3.450407 | 0.00346 | 0.224708 | -2.80787 | 0.570832 | 0.467206 | -0.10363 | 20 | 53223230 | F | II | DOK5 | Body | opensea | Body-open: | | rs5711444 0;1;17;22;36 |
| cg1257266 | 0.103564 | 0.643001 | 3.006683 | 0.008661 | 0.224708 | -3.71157 | 0.694783 | 0.591219 | -0.10356 | 2 | 72788795 | R | II | EXOC6B | Body | opensea | Body-open: | | rs5449612 1 |
| cg2453800 | 0.103563 | 0.581647 | 2.990654 | 0.008951 | 0.224708 | -3.74371 | 0.633429 | 0.529866 | -0.10356 | 1 | 17558947 | R | II | PADI1 | Body | opensea | Body-open: | | rs5626957 39;30;29;2 |
| cg0250191 | 0.103553 | 0.578837 | 2.80556 | 0.01307 | 0.224708 | -4.11132 | 0.630613 | 0.52706 | -0.10355 | 2 | 1.09E+08 | R | II | LIMS1 | Body | opensea | Body-open: | | rs5487182 38;1 |
| cg1173578 | 0.143851 | 0.600649 | 2.849298 | 0.011956 | 0.224708 | -4.02509 | 0.672574 | 0.528723 | -0.14385 | 3 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5321871 26 |
| cg1653280 | 0.101959 | 0.530867 | 2.8492 | 0.011958 | 0.224708 | -4.02528 | 0.581847 | 0.479887 | -0.10196 | 1 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | | rs5756363 34;10 |
| cg0858731 | 0.105158 | 0.550071 | 2.848246 | 0.011981 | 0.224708 | -4.02716 | 0.60265 | 0.497492 | -0.10516 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5328739 49;5 |
| cg2108022 | 0.103549 | 0.570944 | 3.343791 | 0.004316 | 0.224708 | -3.02699 | 0.622719 | 0.51917 | -0.10355 | 11 | 95933005 | R | II | MAML2 | Body | opensea | Body-open: | | rs1898167 20 |
| cg0396225 | 0.103513 | 0.519621 | 2.793462 | 0.013396 | 0.224708 | -4.1351 | 0.571377 | 0.467864 | -0.10351 | 13 | 96211557 | R | II | CLDN10 | Body | opensea | Body-open: | | rs5545256 24 |
| cg1583814 | 0.114602 | 0.437617 | 2.847345 | 0.012003 | 0.224708 | -4.02894 | 0.494918 | 0.380316 | -0.1146 | 10 | 28700847 | R | II | | IGR | opensea | IGR-opense | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1551234 | 0.103501 | 0.614967 | 2.819626 | 0.012701 | 0.224708 | -4.08364 | 0.666717 | 0.563217 | -0.1035 | 8 | 1.31E+08 | R | II | CCDC26 | Body | opensea | Body-opens | | rs1895508 | 21 |
| cg0434972 | 0.103499 | 0.640926 | 3.414409 | 0.003728 | 0.224708 | -2.88196 | 0.692675 | 0.589176 | -0.1035 | 19 | 51457389 | F | II | KLK5 | TSS1500 | opensea | TSS1500-op | | rs5390481 | 1;23;32;33 |
| cg0176771 | 0.119783 | 0.467435 | 2.844859 | 0.012065 | 0.224708 | -4.03386 | 0.527327 | 0.407544 | -0.11978 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2496545 | 0.103488 | 0.545314 | 3.414281 | 0.003729 | 0.224708 | -2.88222 | 0.597058 | 0.49357 | -0.10349 | 2 | 7578495 | F | II | LOC10050( | Body | opensea | Body-opens | | rs5498317 | 46 |
| cg0715399 | 0.103487 | 0.48607 | 2.970332 | 0.009332 | 0.224708 | -3.7844 | 0.537813 | 0.434326 | -0.10349 | 5 | 1.72E+08 | R | II | SH3PXD2B | Body | opensea | Body-opens | | rs5689607 | 38;25;8 |
| cg1568569 | 0.103484 | 0.549348 | 3.143968 | 0.006527 | 0.224708 | -3.43461 | 0.60109 | 0.497606 | -0.10348 | 17 | 18247645 | R | II | SHMT1 | Body | opensea | Body-opens | | rs1872239 | 33;15;1 |
| cg1573538 | 0.103471 | 0.673581 | 3.062927 | 0.007714 | 0.224708 | -3.59846 | 0.725316 | 0.621845 | -0.10347 | 8 | 1.25E+08 | R | II | FER1L6 | Body | opensea | Body-opens | | rs5575712 | 44;27;2 |
| cg1299544 | 0.10346 | 0.654593 | 3.242233 | 0.005327 | 0.224708 | -3.23474 | 0.706323 | 0.602863 | -0.10346 | 6 | 1.23E+08 | R | II | PKIB | Body | opensea | Body-opens | | rs1837973 | 51;45;23 |
| cg1791696 | 0.114559 | 0.350646 | 2.843236 | 0.012105 | 0.224708 | -4.03706 | 0.407925 | 0.293366 | -0.11456 | 15 | 79447300 | F | II | | IGR | opensea | IGR-opense | | rs5404727 | 33;49 |
| cg0793717 | 0.11355 | 0.476 | 2.843018 | 0.01211 | 0.224708 | -4.03749 | 0.532775 | 0.419225 | -0.11355 | 1 | 2.19E+08 | R | II | | IGR | opensea | IGR-opense | | rs5416872 | 1 |
| cg0295698 | 0.103452 | 0.681531 | 3.076321 | 0.007504 | 0.224708 | -3.57144 | 0.733257 | 0.629805 | -0.10345 | 1 | 74929125 | F | II | TNNI3K | ExonBnd | opensea | ExonBnd-op | | rs1458406 | 1;6;7;21;26;41;45 |
| cg0751281 | 0.103444 | 0.49481 | 3.563024 | 0.002739 | 0.224708 | -2.57551 | 0.546532 | 0.443088 | -0.10344 | 19 | 11203661 | R | II | LDLR | Body | shore | Body-shore | chr19:112( | rs5511773 | 41;28;2;1 |
| cg0577586 | 0.1121 | 0.380524 | 2.841746 | 0.012141 | 0.224708 | -4.04 | 0.436574 | 0.324474 | -0.1121 | 10 | 31026101 | F | II | | IGR | opensea | IGR-opense | | rs1889843 | 0;1;29;49 |
| cg0210114 | 0.105745 | 0.790043 | 2.841089 | 0.012158 | 0.224708 | -4.0413 | 0.842916 | 0.737171 | -0.10574 | 2 | 1.75E+08 | R | II | | IGR | opensea | IGR-opense | | rs1449245 | 1 |
| cg2713019 | 0.10343 | 0.566225 | 2.775736 | 0.013888 | 0.224708 | -4.16988 | 0.61794 | 0.51451 | -0.10343 | 8 | 29028955 | F | II | KIF13B | Body | opensea | Body-opens | | rs1827352 | 22;36 |
| cg2589471 | 0.103394 | 0.677557 | 2.983936 | 0.009075 | 0.224708 | -3.75717 | 0.729254 | 0.625859 | -0.10339 | 4 | 75133599 | F | II | MTHFD2L | Body | opensea | Body-opens | | rs1685081 | 0 |
| cg1329982 | 0.103388 | 0.418389 | 3.686778 | 0.002119 | 0.224708 | -2.31941 | 0.470083 | 0.366695 | -0.10339 | 1 | 92414737 | R | II | BRDT | TSS200 | island | TSS200-isla | chr1:92414 | | |
| cg0033265 | 0.103356 | 0.580684 | 3.173111 | 0.006145 | 0.224708 | -3.37546 | 0.632362 | 0.529006 | -0.10336 | 16 | 78132184 | F | II | WWOX | TSS1500 | shore | TSS1500-sh | chr16:781: | rs1466084 | 20 |
| cg1553199 | 0.103353 | 0.64481 | 2.818285 | 0.012736 | 0.224708 | -4.08628 | 0.696486 | 0.593134 | -0.10335 | 12 | 94602562 | R | II | PLXNC1 | Body | opensea | Body-opens | | rs5280029 | 22;15;13 |
| cg1369789 | 0.103003 | 0.516054 | 2.837824 | 0.012239 | 0.224708 | -4.04775 | 0.567555 | 0.464552 | -0.103 | 17 | 73312128 | F | II | | IGR | opensea | IGR-opense | | rs1141066 | 44 |
| cg0986915 | 0.103346 | 0.628332 | 2.876061 | 0.01132 | 0.224708 | -3.97212 | 0.680005 | 0.576659 | -0.10335 | 8 | 6405472 | R | II | ANGPT2 | Body | opensea | Body-opens | | rs7607168 | 51;49;2 |
| cg1071857 | 0.103339 | 0.682648 | 3.380553 | 0.003999 | 0.224708 | -2.95155 | 0.734318 | 0.630978 | -0.10334 | 2 | 74859870 | R | II | M1AP | Body | opensea | Body-opens | | rs7805888 | 44;1 |
| cg0758107 | 0.107328 | 0.531572 | 2.83703 | 0.012259 | 0.224708 | -4.04932 | 0.585236 | 0.477908 | -0.10733 | 6 | 40291048 | F | II | | IGR | opensea | IGR-opense | | rs6032991 | 0;26 |
| cg1946334 | 0.117488 | 0.725803 | 2.836708 | 0.012267 | 0.224708 | -4.04995 | 0.784547 | 0.667059 | -0.11749 | 13 | 27316791 | F | II | | IGR | opensea | IGR-opense | | rs2182879 | 9 |
| cg0158418 | 0.10332 | 0.529596 | 2.708977 | 0.015901 | 0.224896 | -4.30021 | 0.581256 | 0.477936 | -0.10332 | 18 | 24136594 | F | II | KCTD1 | Body | opensea | Body-opens | | rs2006677 | 23;36;48 |
| cg0423459 | 0.106103 | 0.5354 | 2.835781 | 0.01229 | 0.224708 | -4.05178 | 0.588452 | 0.482349 | -0.1061 | 5 | 3851581 | R | II | | IGR | shelf | IGR-shelf | chr5:3854! | rs5374055 | 6 |
| cg1082900 | 0.103304 | 0.552091 | 3.484916 | 0.003221 | 0.224708 | -2.73675 | 0.603743 | 0.500439 | -0.1033 | 14 | 60179825 | F | II | RTN1 | Body | opensea | Body-opens | | rs5530072 | 29 |
| cg2753192 | 0.104264 | 0.432715 | 2.834674 | 0.012318 | 0.224708 | -4.05397 | 0.484847 | 0.380583 | -0.10426 | 13 | 98598462 | R | II | | IGR | opensea | IGR-opense | | rs5741080 | 1 |
| cg0877181 | 0.103286 | 0.632593 | 3.191916 | 0.005911 | 0.224708 | -3.33723 | 0.684236 | 0.58095 | -0.10329 | 14 | 37740094 | R | II | MIPOL1 | Body | opensea | Body-opens | | rs1830127 | 2 |
| cg0815317 | 0.103282 | 0.550313 | 2.754003 | 0.014514 | 0.224708 | -4.21243 | 0.601954 | 0.498672 | -0.10328 | 11 | 1.27E+08 | F | II | KIRREL3 | Body | opensea | Body-opens | | rs5649188 | 0;30;45;51 |
| cg0426365 | 0.106958 | 0.476174 | 2.833133 | 0.012357 | 0.224708 | -4.05701 | 0.529653 | 0.422695 | -0.10696 | 19 | 30521287 | R | II | | IGR | opensea | IGR-opense | | rs7805828 | 44 |
| cg0742232 | 0.10327 | 0.579206 | 2.874603 | 0.011354 | 0.224708 | -3.975 | 0.630841 | 0.527571 | -0.10327 | 1 | 1.87E+08 | F | II | PTGS2 | 3'UTR | opensea | 3'UTR-open | | rs1848452 | 0;1 |
| cg0543255 | 0.103216 | 0.499494 | 2.872424 | 0.011404 | 0.224708 | -3.97932 | 0.551102 | 0.447886 | -0.10322 | 17 | 62632136 | R | II | SMURF2 | Body | opensea | Body-opens | | rs5554456 | 29;7;2 |
| cg0590491 | 0.101059 | 0.671321 | 2.832581 | 0.01237 | 0.224708 | -4.0581 | 0.72185 | 0.620791 | -0.10106 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs5567461 | 2 |
| cg1179840 | 0.103213 | 0.565817 | 2.980039 | 0.009148 | 0.224708 | -3.76497 | 0.617423 | 0.51421 | -0.10321 | 21 | 40145361 | R | II | NCRNA001 | Body | opensea | Body-opens | | rs5352195 | 15 |
| cg2199854 | 0.103202 | 0.700067 | 2.99421 | 0.008886 | 0.224708 | -3.73659 | 0.751668 | 0.648466 | -0.1032 | 10 | 33605101 | F | II | NRP1 | Body | opensea | Body-opens | | rs1128471 | 1 |
| cg0625205 | 0.103195 | 0.592694 | 3.515951 | 0.00302 | 0.224708 | -2.67273 | 0.644292 | 0.541097 | -0.10319 | 11 | 68923361 | F | I | LOC33869( | Body | shore | Body-shore | chr11:689: | rs5729407 | 26;28;31;43 |
| cg2130847 | 0.10792 | 0.39439 | 2.831198 | 0.012405 | 0.224708 | -4.06082 | 0.448349 | 0.34043 | -0.10792 | 1 | 12911678 | R | II | | IGR | opensea | IGR-opense | | rs1143835 | 45;44;35;26;2;1 |
| cg2564555 | 0.103185 | 0.462917 | 2.90042 | 0.01077 | 0.224708 | -3.92377 | 0.51451 | 0.411324 | -0.10319 | 6 | 17470599 | F | II | CAP2 | Body | opensea | Body-opens | | rs5680000 | 5;38 |
| cg2578389 | 0.103185 | 0.426442 | 3.142158 | 0.006551 | 0.224708 | -3.43828 | 0.478035 | 0.37485 | -0.10319 | 10 | 85898649 | F | II | GHITM | TSS1500 | shore | TSS1500-sh | chr10:858! | rs1452945 | 30 |
| cg1222168 | 0.103178 | 0.548994 | 2.908146 | 0.010601 | 0.224708 | -3.90842 | 0.600584 | 0.497405 | -0.10318 | 2 | 98827983 | R | II | VWA3B | Body | opensea | Body-opens | | | |
| cg2358697 | 0.100337 | 0.490646 | 2.828915 | 0.012463 | 0.224708 | -4.06533 | 0.540814 | 0.440478 | -0.10034 | 2 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs1853358 | 1;12 |
| cg1529259 | 0.100551 | 0.392266 | 2.828613 | 0.012471 | 0.224708 | -4.06592 | 0.442541 | 0.34199 | -0.10055 | 2 | 36374912 | F | II | | IGR | opensea | IGR-opense | | rs5597701 | 1 |
| cg1366330 | 0.103172 | 0.5934 | 3.170498 | 0.006179 | 0.224708 | -3.38077 | 0.644986 | 0.541814 | -0.10317 | 5 | 35046992 | F | II | AGXT2 | Body | opensea | Body-opens | | rs5414041 | 38 |
| cg1720284 | 0.101042 | 0.580903 | 2.825995 | 0.012538 | 0.224708 | -4.07108 | 0.631424 | 0.530382 | -0.10104 | 13 | 43294719 | F | II | | IGR | opensea | IGR-opense | | rs1501921 | 19 |
| cg0859073 | 0.10317 | 0.614548 | 2.819434 | 0.012706 | 0.224708 | -4.08401 | 0.666133 | 0.562963 | -0.10317 | 4 | 77624601 | F | II | SHROOM3 | Body | opensea | Body-opens | | | |
| cg2166208 | 0.10317 | 0.527374 | 2.753881 | 0.014518 | 0.224708 | -4.21267 | 0.578959 | 0.475789 | -0.10317 | 10 | 228801 | R | II | ZMYND11 | Body | opensea | Body-opens | | rs5660542 | 19 |
| cg1854628 | 0.103161 | 0.575646 | 3.696273 | 0.002078 | 0.224708 | -2.29974 | 0.627227 | 0.524065 | -0.10316 | 2 | 2.34E+08 | R | II | NGEF | Body | opensea | Body-opens | | rs1878709 | 14 |
| cg1277418 | 0.107856 | 0.411866 | 2.823618 | 0.012598 | 0.224708 | -4.07577 | 0.465794 | 0.357938 | -0.10786 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | rs1124379 | 44;47 |
| cg1721053 | 0.10315 | 0.573718 | 2.784456 | 0.013644 | 0.224708 | -4.15278 | 0.625293 | 0.522143 | -0.10315 | 3 | 1.83E+08 | F | II | MCF2L2 | Body | opensea | Body-opens | | rs5675522 | 43 |
| cg2497191 | 0.103141 | 0.660368 | 3.224899 | 0.005521 | 0.224708 | -3.27008 | 0.711939 | 0.608797 | -0.10314 | 15 | 66404837 | F | II | MEGF11 | Body | opensea | Body-opens | | rs5580055 | 4;24 |
| cg0714200 | 0.15496 | 0.603591 | 2.821183 | 0.012661 | 0.224708 | -4.08057 | 0.681071 | 0.52611 | -0.15496 | 17 | 6656315 | F | II | | IGR | opensea | IGR-opense | | rs1503499 | 9 |
| cg0979330 | 0.103097 | 0.516904 | 2.702692 | 0.016104 | 0.224896 | -4.31242 | 0.568453 | 0.465355 | -0.1031 | 1 | 2.13E+08 | R | II | ATF3 | 5'UTR | opensea | 5'UTR-open | | rs1435368 | 19;2 |
| cg0884791 | 0.103093 | 0.46416 | 2.729987 | 0.015239 | 0.224792 | -4.25931 | 0.515707 | 0.412613 | -0.10309 | 1 | 25105247 | F | II | CLIC4 | Body | opensea | Body-opens | | rs7553761 | 9;10;24;29 |
| cg0377503 | 0.103089 | 0.424812 | 2.578522 | 0.020676 | 0.225654 | -4.55155 | 0.476357 | 0.373268 | -0.10309 | 2 | 88874141 | R | II | LOC10192( | Body | opensea | Body-opens | | rs5445031 | 50;28;1 |
| cg0507971 | 0.103059 | 0.842346 | 2.423373 | 0.028147 | 0.23092 | -4.84396 | 0.893875 | 0.790816 | -0.10306 | 7 | 1.32E+08 | F | II | PLXNA4 | Body | opensea | Body-opens | | rs1164385 | 0;38;44 |
| cg0613664 | 0.102963 | 0.540869 | 2.576402 | 0.020764 | 0.225654 | -4.5556 | 0.59235 | 0.489387 | -0.10296 | 7 | 1.49E+08 | F | II | ZNF282 | Body | opensea | Body-opens | | | |
| cg2478713 | 0.109145 | 0.602037 | 2.818836 | 0.012722 | 0.224708 | -4.08519 | 0.65661 | 0.547465 | -0.10914 | 5 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1900330 | 0.102962 | 0.411336 | 2.91807 | 0.010388 | 0.224708 | -3.88867 | 0.462817 | 0.359855 | -0.10296 | 11 | 1.15E+08 | R | II | CADM1 | Body | opensea | Body-opens | | rs7357214 | 21;19;1 |
| cg0140004 | 0.102932 | 0.49524 | 3.177876 | 0.006085 | 0.224708 | -3.36578 | 0.546706 | 0.443774 | -0.10293 | 15 | 61091220 | R | II | RORA | Body | opensea | Body-opens | | | |
| cg0388999 | 0.102896 | 0.537731 | 3.013115 | 0.008547 | 0.224708 | -3.69866 | 0.589179 | 0.486284 | -0.1029 | 1 | 1.58E+08 | F | II | FCRL4 | Body | opensea | Body-opens | | rs5325413 | 0;2;16;24;34 |
| cg0212232 | 0.241536 | 0.470285 | 2.81657 | 0.012781 | 0.224708 | -4.08965 | 0.591053 | 0.349517 | -0.24154 | 13 | 50194322 | F | II | | IGR | opensea | IGR-opense | | rs1419685 | 21;31 |
| cg0229028 | 0.102881 | 0.606743 | 2.663166 | 0.017442 | 0.225076 | -4.38899 | 0.658183 | 0.555302 | -0.10288 | 7 | 26479853 | R | II | LOC44120( | Body | opensea | Body-opens | | rs5646655 | 8 |
| cg0938403 | 0.111907 | 0.585976 | 2.814847 | 0.012826 | 0.224708 | -4.09305 | 0.641929 | 0.530022 | -0.11191 | 8 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2636558 | 0.102871 | 0.638947 | 3.062071 | 0.007728 | 0.224708 | -3.60018 | 0.690382 | 0.587512 | -0.10287 | 1 | 1.72E+08 | R | II | DNM3 | Body | opensea | Body-opens | | rs5575786 51;49 |
| cg0534932 | 0.100059 | 0.654956 | 2.813509 | 0.012861 | 0.224708 | -4.09568 | 0.704986 | 0.604926 | -0.10006 | 9 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1898441 45;1 |
| cg0745409 | 0.102863 | 0.495641 | 3.442531 | 0.003517 | 0.224708 | -2.82409 | 0.547073 | 0.44421 | -0.10286 | 13 | 52435964 | F | II | CCDC70 | TSS200 | opensea | TSS200-ope | | |
| cg2662097 | 0.101348 | 0.513267 | 2.810507 | 0.012939 | 0.224708 | -4.10159 | 0.563941 | 0.462593 | -0.10135 | 4 | 1.52E+08 | F | II | | IGR | opensea | IGR-opense | | rs5577611 1;14;50 |
| cg1721729 | 0.102858 | 0.392607 | 2.570135 | 0.021026 | 0.225654 | -4.56755 | 0.444036 | 0.341178 | -0.10286 | 1 | 1.59E+08 | F | II | AIM2 | TSS1500 | opensea | TSS1500-o | | rs1162896 1;8;42 |
| cg2429828 | 0.102853 | 0.526582 | 3.359125 | 0.004181 | 0.224708 | -2.99554 | 0.578009 | 0.475155 | -0.10285 | 6 | 1.25E+08 | F | II | RNF217 | 5'UTR | opensea | 5'UTR-open | | |
| cg1346400 | 0.102849 | 0.64541 | 3.119798 | 0.006861 | 0.224708 | -3.48357 | 0.696835 | 0.593985 | -0.10285 | 17 | 38976709 | F | II | TMEM99 | 5'UTR | opensea | 5'UTR-open | | rs5535599 1;7;15;20;38;45 |
| cg0181928 | 0.100841 | 0.627016 | 2.807193 | 0.013027 | 0.224708 | -4.10811 | 0.677436 | 0.576595 | -0.10084 | 12 | 46006284 | R | II | | IGR | opensea | IGR-opense | | |
| cg0300461 | 0.102848 | 0.50801 | 2.751816 | 0.014579 | 0.224708 | -4.2167 | 0.559434 | 0.456586 | -0.10285 | 2 | 2.32E+08 | R | II | ARMC9 | Body | opensea | Body-opens | | rs1855918 47;1 |
| cg1354054 | 0.104315 | 0.540543 | 2.807138 | 0.013029 | 0.224708 | -4.10822 | 0.592701 | 0.488385 | -0.10432 | 19 | 16424005 | R | II | | IGR | opensea | IGR-opense | | rs1440038 48;28 |
| cg1887592 | 0.102835 | 0.700473 | 3.165524 | 0.006242 | 0.224708 | -3.39087 | 0.751891 | 0.649056 | -0.10284 | 5 | 1.16E+08 | R | II | SEMA6A | 5'UTR | opensea | 5'UTR-open | | rs5441291 5;2 |
| cg0324583 | 0.210239 | 0.400706 | 2.806917 | 0.013034 | 0.224708 | -4.10865 | 0.505825 | 0.295586 | -0.21024 | 17 | 6656617 | F | II | | IGR | opensea | IGR-opense | | rs1871828 0;16;19 |
| cg1355136 | 0.100246 | 0.598094 | 2.80673 | 0.013039 | 0.224708 | -4.10902 | 0.648217 | 0.547971 | -0.10025 | 5 | 57370189 | R | II | | IGR | opensea | IGR-opense | | rs5446055 40 |
| cg2691213 | 0.100684 | 0.49667 | 2.806417 | 0.013048 | 0.224708 | -4.10964 | 0.547012 | 0.446328 | -0.10068 | 7 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg0637296 | 0.103472 | 0.58639 | 2.806282 | 0.013051 | 0.224708 | -4.1099 | 0.638126 | 0.534653 | -0.10347 | 1 | 43351860 | R | II | | IGR | shore | IGR-shore | chr1:4335 | rs1922801 1 |
| cg0106202 | 0.102834 | 0.390739 | 3.814759 | 0.001626 | 0.224708 | -2.05406 | 0.442157 | 0.339322 | -0.10283 | 1 | 1.62E+08 | R | II | SH2D1B | TSS1500 | opensea | TSS1500-o | | |
| cg0045101 | 0.102821 | 0.464829 | 3.176102 | 0.006107 | 0.224708 | -3.36938 | 0.516239 | 0.413418 | -0.10282 | 18 | 6315761 | R | II | L3MBTL4 | 5'UTR | opensea | 5'UTR-open | | rs1670131 19 |
| cg2065417 | 0.10281 | 0.442587 | 4.786922 | 0.000225 | 0.224708 | -0.0506 | 0.493992 | 0.391182 | -0.10281 | 3 | 1.57E+08 | R | II | CCNL1 | Body | opensea | Body-opens | | rs1133126 24;1 |
| cg0985234 | 0.102801 | 0.555301 | 2.807043 | 0.013031 | 0.224708 | -4.10841 | 0.606701 | 0.5039 | -0.1028 | 6 | 1.12E+08 | R | II | REV3L | Body | opensea | Body-opens | | rs1860621 1 |
| cg2330542 | 0.106958 | 0.445279 | 2.803274 | 0.013131 | 0.224708 | -4.11582 | 0.498758 | 0.3918 | -0.10696 | 11 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5731021 51;32;31;2 |
| cg0359373 | 0.102792 | 0.516807 | 3.446321 | 0.003489 | 0.224708 | -2.81628 | 0.568203 | 0.465411 | -0.10279 | 2 | 2.02E+08 | R | II | AOX2P | Body | opensea | Body-opens | | rs7398839 36;22;13;1 |
| cg0583581 | 0.10573 | 0.581246 | 2.801598 | 0.013176 | 0.224708 | -4.11912 | 0.634111 | 0.528382 | -0.10573 | 1 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs5612743 35;9;6 |
| cg2070750 | 0.101374 | 0.595856 | 2.799274 | 0.013239 | 0.224708 | -4.12368 | 0.646543 | 0.545169 | -0.10137 | 2 | 38663934 | F | II | | IGR | opensea | IGR-opense | | rs925256 27 |
| cg2034726 | 0.102789 | 0.717348 | 2.166127 | 0.046405 | 0.250615 | -5.31006 | 0.768743 | 0.665953 | -0.10279 | 17 | 3808157 | F | II | P2RX1 | ExonBnd | opensea | ExonBnd-o | | rs5571870 0;1;22;25 |
| cg2476898 | 0.102773 | 0.668879 | 3.021522 | 0.0084 | 0.224708 | -3.68178 | 0.720265 | 0.617492 | -0.10277 | 6 | 1.25E+08 | F | II | NKAIN2 | TSS1500 | opensea | TSS1500-o | | rs5735528 27;48 |
| cg1390845 | 0.114759 | 0.562184 | 2.797464 | 0.013288 | 0.224708 | -4.12724 | 0.619563 | 0.504804 | -0.11476 | 13 | 73909590 | R | II | | IGR | opensea | IGR-opense | | rs5331352 49;46;45;2 |
| cg0875272 | 0.102762 | 0.620141 | 2.831897 | 0.012388 | 0.224708 | -4.05944 | 0.671522 | 0.56876 | -0.10276 | 21 | 36254259 | R | II | RUNX1 | Body | opensea | Body-opens | | rs1848865 2;1 |
| cg0653900 | 0.102748 | 0.468761 | 2.917172 | 0.010407 | 0.224708 | -3.89046 | 0.520135 | 0.417387 | -0.10275 | 2 | 2.08E+08 | F | II | CPO | Body | opensea | Body-opens | | rs1150623 0;29 |
| cg0130319 | 0.102735 | 0.434877 | 3.14393 | 0.006527 | 0.224708 | -3.43468 | 0.486245 | 0.38351 | -0.10274 | 7 | 1.29E+08 | R | II | AHCYL2 | Body | opensea | Body-opens | | |
| cg1218908 | 0.103285 | 0.501664 | 2.794501 | 0.013368 | 0.224708 | -4.13306 | 0.553306 | 0.450022 | -0.10328 | 4 | 1.85E+08 | F | II | | IGR | opensea | IGR-opense | | rs1905910 0 |
| cg0023317 | 0.107975 | 0.700539 | 2.793959 | 0.013383 | 0.224708 | -4.13413 | 0.754527 | 0.646552 | -0.10798 | 2 | 31499671 | R | II | | IGR | opensea | IGR-opense | | rs1827928 15;1 |
| cg1336400 | 0.102734 | 0.6138 | 2.653695 | 0.017778 | 0.225076 | -4.40728 | 0.665167 | 0.562433 | -0.10273 | 1 | 1.79E+08 | F | II | RALGPS2 | Body | opensea | Body-opens | | rs5690147 18;39 |
| cg0704579 | 0.102726 | 0.756215 | 3.051458 | 0.007899 | 0.224708 | -3.62156 | 0.807578 | 0.704851 | -0.10273 | 6 | 1.17E+08 | F | II | DSE | 5'UTR | opensea | 5'UTR-open | | rs1170718 16 |
| cg1180086 | 0.102722 | 0.611541 | 2.816764 | 0.012776 | 0.224708 | -4.08927 | 0.662902 | 0.56018 | -0.10272 | 10 | 64981888 | R | II | JMJD1C | Body | opensea | Body-opens | | rs5571536 4 |
| cg0741889 | 0.102708 | 0.447591 | 3.743916 | 0.001882 | 0.224708 | -2.20099 | 0.498946 | 0.396237 | -0.10271 | 6 | 52150456 | R | II | MCM3 | TSS1500 | shore | TSS1500-sh | chr6:5214 | rs5337167 42;32 |
| cg0582052 | 0.101293 | 0.623833 | 2.791596 | 0.013447 | 0.224708 | -4.13877 | 0.67448 | 0.573187 | -0.10129 | 10 | 82132926 | R | II | | IGR | opensea | IGR-opense | | rs5884460 30 |
| cg1683663 | 0.102705 | 0.341238 | 2.888792 | 0.011029 | 0.224708 | -3.94686 | 0.39259 | 0.289886 | -0.1027 | 17 | 57905956 | F | II | VMP1 | Body | opensea | Body-opens | | rs5463910 19 |
| cg1060029 | 0.100157 | 0.444436 | 2.788069 | 0.013544 | 0.224708 | -4.14569 | 0.494514 | 0.394357 | -0.10016 | 20 | 1789945 | F | II | | IGR | opensea | IGR-opense | | rs5665149 38 |
| cg0857742 | 0.102697 | 0.53892 | 2.780794 | 0.013746 | 0.224708 | -4.15997 | 0.590268 | 0.487571 | -0.1027 | 6 | 31876831 | F | II | C2 | 5'UTR | opensea | 5'UTR-open | | rs1909883 28 |
| cg0080369 | 0.102673 | 0.418339 | 2.702712 | 0.016103 | 0.224896 | -4.31238 | 0.469675 | 0.367002 | -0.10267 | 3 | 46411474 | R | II | CCR5 | TSS200 | opensea | TSS200-ope | | rs5509919 44 |
| cg2288665 | 0.102644 | 0.470282 | 3.114582 | 0.006935 | 0.224708 | -3.49413 | 0.521604 | 0.41896 | -0.10264 | 6 | 498807 | R | II | EXOC2 | Body | opensea | Body-opens | | rs5451429 1 |
| cg1439379 | 0.10263 | 0.630426 | 2.786209 | 0.013595 | 0.224708 | -4.14934 | 0.681741 | 0.579111 | -0.10263 | 15 | 45379815 | F | II | | IGR | opensea | IGR-opense | | rs1466085 40 |
| cg2649853 | 0.102638 | 0.525444 | 2.943633 | 0.009858 | 0.224708 | -3.83773 | 0.576763 | 0.474124 | -0.10264 | 2 | 1.98E+08 | R | II | HSPD1 | Body | shore | Body-shore | chr2:1983 | rs1381707 28;27;14 |
| cg1232119 | 0.102638 | 0.768334 | 3.247444 | 0.00527 | 0.224708 | -3.2241 | 0.819653 | 0.717015 | -0.10264 | 13 | 78550384 | F | II | EDNRB | TSS1500 | opensea | TSS1500-o | | rs1866987 0;30 |
| cg2236001 | 0.109365 | 0.383403 | 2.785434 | 0.013617 | 0.224708 | -4.15086 | 0.438085 | 0.32872 | -0.10937 | 2 | 1.05E+08 | R | II | | IGR | shore | IGR-shore | chr2:1052 | |
| cg1713618 | 0.103821 | 0.541768 | 2.785365 | 0.013619 | 0.224708 | -4.151 | 0.593678 | 0.489858 | -0.10382 | 5 | 6030096 | R | II | | IGR | opensea | IGR-opense | | rs1880286 30;2 |
| cg0436148 | 0.102637 | 0.530707 | 3.059916 | 0.007762 | 0.224708 | -3.60452 | 0.582026 | 0.479389 | -0.10264 | 8 | 1.28E+08 | F | II | CASC8 | Body | opensea | Body-opens | | rs5284540 46 |
| cg2180802 | 0.102629 | 0.428929 | 2.807529 | 0.013018 | 0.224708 | -4.10745 | 0.480244 | 0.377615 | -0.10263 | 18 | 11871622 | F | II | GNAL | Body | opensea | Body-opens | | rs5325637 0 |
| cg1346538 | 0.102622 | 0.542247 | 2.348752 | 0.032592 | 0.234761 | -4.98175 | 0.593558 | 0.490936 | -0.10262 | 1 | 47282666 | F | II | CYP4B1 | Body | opensea | Body-opens | | rs1817041 0;1;18;37 |
| cg1108893 | 0.102606 | 0.517092 | 3.105478 | 0.007066 | 0.224708 | -3.51255 | 0.568394 | 0.465789 | -0.10261 | 7 | 78629839 | F | II | MAGI2 | Body | opensea | Body-opens | | rs1117729 31 |
| cg2097580 | 0.102577 | 0.613854 | 3.297398 | 0.004752 | 0.224708 | -3.12203 | 0.665143 | 0.562565 | -0.10258 | 1 | 76254925 | R | II | RABGGTB | Body | opensea | Body-opens | | rs5334552 43 |
| cg1269676 | 0.102559 | 0.411563 | 2.691316 | 0.016479 | 0.224896 | -4.3345 | 0.462842 | 0.360283 | -0.10256 | 18 | 60848167 | F | II | BCL2 | Body | opensea | Body-opens | | rs5664592 4;17;28 |
| cg1947099 | 0.102538 | 0.689007 | 3.45052 | 0.003459 | 0.224708 | -2.80763 | 0.740276 | 0.637738 | -0.10254 | 2 | 1.8E+08 | R | II | SESTD1 | 5'UTR | opensea | 5'UTR-open | | rs5366778 28 |
| cg0524182 | 0.102532 | 0.547869 | 2.743233 | 0.014835 | 0.224708 | -4.23347 | 0.599135 | 0.496603 | -0.10253 | 4 | 85648511 | R | II | WDFY3 | Body | opensea | Body-opens | | rs5579855 48;36 |
| cg2619848 | 0.103969 | 0.576795 | 2.781334 | 0.013731 | 0.224708 | -4.15891 | 0.62878 | 0.524811 | -0.10397 | 13 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs5367734 1 |
| cg1339990 | 0.102528 | 0.579326 | 3.006697 | 0.00866 | 0.224708 | -3.71154 | 0.630591 | 0.528062 | -0.10253 | 15 | 50352288 | F | II | ATP8B4 | Body | opensea | Body-opens | | rs5693275 28 |
| cg2631598 | 0.102522 | 0.668922 | 5.074662 | 0.000127 | 0.223139 | 0.52999 | 0.720183 | 0.617661 | -0.10252 | 1 | 65363870 | F | II | JAK1 | 5'UTR | opensea | 5'UTR-open | | rs1400224 36 |
| cg1179621 | 0.102512 | 0.562006 | 2.980447 | 0.00914 | 0.224708 | -3.76416 | 0.613262 | 0.51075 | -0.10251 | 3 | 1.95E+08 | F | II | C3orf21 | Body | opensea | Body-opens | | rs1479254 37 |
| cg0965721 | 0.100406 | 0.577653 | 2.780244 | 0.013761 | 0.224708 | -4.16105 | 0.627856 | 0.52745 | -0.10041 | 5 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs5437879 41 |
| cg0220948 | 0.1011 | 0.580505 | 2.779342 | 0.013786 | 0.224708 | -4.16281 | 0.631055 | 0.529955 | -0.1011 | 4 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs4541559 34;39;44 |
| cg0882674 | 0.102508 | 0.545663 | 2.778881 | 0.013799 | 0.224708 | -4.16372 | 0.596917 | 0.494409 | -0.10251 | 8 | 1.05E+08 | R | II | DPYS | 3'UTR | opensea | 3'UTR-open | | rs5701781 22 |
| cg1353759 | 0.116911 | 0.577037 | 2.778588 | 0.013808 | 0.224708 | -4.16429 | 0.635493 | 0.518582 | -0.11691 | 12 | 26451968 | R | II | | IGR | opensea | IGR-opense | | rs5385523 48;1 |
| cg1073305 | 0.102485 | 0.529107 | 3.105296 | 0.007069 | 0.224708 | -3.51292 | 0.580349 | 0.477865 | -0.10248 | 6 | 34778879 | F | II | UHRF1BP1 | Body | opensea | Body-opens | | rs5311480 0 |
| cg0322499 | 0.117941 | 0.433452 | 2.777652 | 0.013834 | 0.224708 | -4.16613 | 0.492422 | 0.374481 | -0.11794 | 1 | 51750976 | F | II | | IGR | opensea | IGR-opense | | rs5510240 11;47 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0652033 | 0.102475 | 0.590279 | 2.972043 | 0.009299 | 0.224708 | -3.78097 | 0.641517 | 0.539042 | -0.10248 | 10 | 93171002 | F | II | LOC100188 | Body | shore | Body-shore | chr10:931( | rs1119443 0 |
| cg2008421 | 0.10246 | 0.697335 | 2.724476 | 0.01541 | 0.224896 | -4.27005 | 0.748565 | 0.646105 | -0.10246 | 17 | 36997449 | R | II | C17orf98 | 1stExon | island | 1stExon-isl | chr17:369 | rs6175091 9 |
| cg1803815 | 0.114841 | 0.516556 | 2.776521 | 0.013866 | 0.224708 | -4.16835 | 0.573977 | 0.459136 | -0.11484 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1396880 | 0.102449 | 0.643696 | 2.93682 | 0.009996 | 0.224708 | -3.85132 | 0.694921 | 0.592471 | -0.10245 | 5 | 58081039 | R | II | RAB3C | Body | opensea | Body-open | | rs446155 11 |
| cg0616023 | 0.102448 | 0.520961 | 4.060057 | 0.00098 | 0.224708 | -1.54518 | 0.572185 | 0.469736 | -0.10245 | 9 | 1.35E+08 | F | II | RAPGEF1 | Body | opensea | Body-open | | rs1168735 1;23;44 |
| cg0918599 | 0.102447 | 0.56353 | 3.539287 | 0.002877 | 0.224708 | -2.62455 | 0.614754 | 0.512307 | -0.10245 | 12 | 22090231 | R | II | ABCC9 | TSS1500 | shelf | TSS1500-sh | chr12:220 | rs7509213 30;17 |
| cg0247627 | 0.100884 | 0.602639 | 2.773827 | 0.013942 | 0.224708 | -4.17363 | 0.653081 | 0.552197 | -0.10088 | 1 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1842924 50 |
| cg1065205 | 0.102395 | 0.546753 | 2.997217 | 0.008831 | 0.224708 | -3.73056 | 0.59795 | 0.495555 | -0.10239 | 13 | 43649126 | R | II | DNAJC15 | Body | opensea | Body-open | | rs1430925 36;35;28;11 |
| cg1191258 | 0.102374 | 0.557842 | 2.6952 | 0.01635 | 0.224896 | -4.32696 | 0.609029 | 0.506655 | -0.10237 | 1 | 2.03E+08 | F | II | MGAT4EP | Body | opensea | Body-open | | rs1092048 13;18;35;42 |
| cg0159468 | 0.102366 | 0.575773 | 3.125539 | 0.00678 | 0.224708 | -3.47195 | 0.626956 | 0.52459 | -0.10237 | 16 | 3115053 | R | II | IL32 | TSS1500 | opensea | TSS1500-o | | rs1882202 46;2 |
| cg0982766 | 0.102365 | 0.577468 | 2.814136 | 0.012844 | 0.224708 | -4.09445 | 0.628651 | 0.526285 | -0.10237 | 3 | 1.12E+08 | R | II | SLC35A5 | 5'UTR | shore | 5'UTR-shor | chr3:1122 | rs5474139 46;27;11;9 |
| cg0260019 | 0.113429 | 0.528821 | 2.769036 | 0.014078 | 0.224708 | -4.18301 | 0.585536 | 0.472107 | -0.11343 | 8 | 1.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs1861060 16;2 |
| cg0013473 | 0.101499 | 0.612933 | 2.768946 | 0.014081 | 0.224708 | -4.18319 | 0.663682 | 0.562183 | -0.1015 | 1 | 1.2E+08 | R | II | | IGR | opensea | IGR-opense | | rs5876723 37 |
| cg2437971 | 0.100234 | 0.579574 | 2.768842 | 0.014084 | 0.224708 | -4.18339 | 0.629691 | 0.529457 | -0.10023 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5541648 1;8;9;10;45 |
| cg1212624 | 0.102358 | 0.614706 | 3.100915 | 0.007133 | 0.224708 | -3.52177 | 0.665885 | 0.563527 | -0.10236 | 14 | 59742285 | F | II | DAAM1 | Body | opensea | Body-open | | rs5550038 1;19;44 |
| cg0783036 | 0.101532 | 0.503019 | 2.767966 | 0.014109 | 0.224708 | -4.18511 | 0.553786 | 0.452253 | -0.10153 | 3 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs5384325 21;2 |
| cg2365209 | 0.102356 | 0.535251 | 3.670099 | 0.002194 | 0.224708 | -2.35396 | 0.586429 | 0.484073 | -0.10236 | 11 | 75347560 | R | II | MAP6 | Body | opensea | Body-open | | |
| cg0268500 | 0.102326 | 0.70401 | 2.759628 | 0.01435 | 0.224708 | -4.20143 | 0.755173 | 0.652847 | -0.10233 | 3 | 31903434 | R | II | OSBPL10 | Body | opensea | Body-open | | rs5659464 49;29 |
| cg1034232 | 0.102308 | 0.468978 | 2.905889 | 0.01065 | 0.224708 | -3.9129 | 0.520132 | 0.417824 | -0.10231 | 14 | 52171238 | F | II | FRMD6 | Body | opensea | Body-open | | rs5523043 0;1;28;45;50 |
| cg0037648 | 0.102299 | 0.736344 | 3.329186 | 0.004449 | 0.224708 | -3.05694 | 0.787493 | 0.685194 | -0.1023 | 21 | 46892832 | F | II | COL18A1 | Body | shore | Body-shore | chr21:468 | rs5715049 3;40 |
| cg0936726 | 0.102296 | 0.582098 | 2.832879 | 0.012363 | 0.224708 | -4.05751 | 0.633247 | 0.53095 | -0.1023 | 6 | 6643814 | F | II | LY86 | Body | opensea | Body-open | | rs1903988 41 |
| cg2349032 | 0.101824 | 0.657556 | 2.766574 | 0.014149 | 0.224708 | -4.18783 | 0.708469 | 0.606644 | -0.10182 | 5 | 57014231 | F | II | | IGR | opensea | IGR-opense | | |
| cg0290254 | 0.102296 | 0.533489 | 3.250043 | 0.005241 | 0.224708 | -3.2188 | 0.584637 | 0.482341 | -0.1023 | 16 | 50136493 | R | II | HEATR3 | Body | opensea | Body-open | | rs5563205 46;1 |
| cg2625074 | 0.106165 | 0.538597 | 2.766421 | 0.014153 | 0.224708 | -4.18813 | 0.591679 | 0.485514 | -0.10617 | 6 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs7476909 1 |
| cg0467990 | 0.102279 | 0.289431 | 3.551547 | 0.002805 | 0.224708 | -2.59922 | 0.340571 | 0.238292 | -0.10228 | 22 | 19752869 | F | II | TBX1 | Body | shore | Body-shore | chr22:197 | rs5315765 21;28;30 |
| cg0425806 | 0.101424 | 0.526265 | 2.765756 | 0.014172 | 0.224708 | -4.18943 | 0.576977 | 0.475553 | -0.10142 | 4 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1656617 | 0.102252 | 0.426932 | 3.561982 | 0.002745 | 0.224708 | -2.57766 | 0.478058 | 0.375806 | -0.10225 | 1 | 86315952 | R | II | COL24A1 | Body | opensea | Body-open | | rs5557481 50;14;1 |
| cg1410981 | 0.102252 | 0.53066 | 3.119635 | 0.006863 | 0.224708 | -3.48391 | 0.581786 | 0.479534 | -0.10225 | 3 | 69963596 | F | II | MITF | Body | opensea | Body-open | | rs5379503 0 |
| cg0737893 | 0.102247 | 0.546483 | 4.249281 | 0.000665 | 0.224708 | -1.15339 | 0.597606 | 0.495359 | -0.10225 | 3 | 1.12E+08 | F | II | TAGLN3 | Body | opensea | Body-open | | rs7323207 43 |
| cg1382844 | 0.10224 | 0.719994 | 3.630011 | 0.002384 | 0.224708 | -2.43696 | 0.771114 | 0.668874 | -0.10224 | 12 | 10459972 | R | II | KLRD1 | TSS1500 | opensea | TSS1500-o | | rs5530452 50;35 |
| cg2461313 | 0.113469 | 0.467052 | 2.763257 | 0.014244 | 0.224708 | -4.19433 | 0.523786 | 0.410318 | -0.11347 | 8 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0870181 | 0.10015 | 0.643926 | 2.762062 | 0.014279 | 0.224708 | -4.19666 | 0.694001 | 0.593851 | -0.10015 | 8 | 95278142 | R | II | | IGR | shelf | IGR-shelf | chr8:9527 | rs1457100 32 |
| cg2694796 | 0.10223 | 0.623363 | 2.78614 | 0.013597 | 0.224708 | -4.14948 | 0.674478 | 0.572247 | -0.10223 | 17 | 54334619 | F | II | ANKFN1 | Body | opensea | Body-open | | rs1927016 0;8;50 |
| cg0576650 | 0.102227 | 0.638471 | 3.059142 | 0.007774 | 0.224708 | -3.60609 | 0.689585 | 0.587358 | -0.10223 | 2 | 2.08E+08 | F | II | DYTN | Body | opensea | Body-open | | rs5351007 1;39 |
| cg1960210 | 0.108771 | 0.60847 | 2.760841 | 0.014314 | 0.224708 | -4.19905 | 0.662855 | 0.554084 | -0.10877 | 4 | 90800500 | F | II | | IGR | opensea | IGR-opense | | rs1893177 27 |
| cg2690455 | 0.102226 | 0.632835 | 2.891035 | 0.010979 | 0.224708 | -3.94241 | 0.683948 | 0.581722 | -0.10223 | 2 | 10587170 | F | II | ODC1 | 5'UTR | shore | 5'UTR-shor | chr2:1058 | |
| cg1455272 | 0.102222 | 0.621505 | 2.967688 | 0.009383 | 0.224708 | -3.78968 | 0.672616 | 0.570394 | -0.10222 | 3 | 1.51E+08 | R | II | IGSF10 | TSS200 | opensea | TSS200-ope | | rs5651631 3 |
| cg0007052 | 0.102189 | 0.531526 | 2.747123 | 0.014718 | 0.224708 | -4.22587 | 0.582621 | 0.480432 | -0.10219 | 13 | 43986655 | R | II | ENOX1 | Body | opensea | Body-open | | rs5556257 44;1 |
| cg2089185 | 0.10218 | 0.631948 | 3.187798 | 0.005962 | 0.224708 | -3.34561 | 0.683037 | 0.580858 | -0.10218 | 10 | 1.19E+08 | R | II | SHTN1 | Body | opensea | Body-open | | rs5321389 47;15;2 |
| cg1642618 | 0.106555 | 0.523841 | 2.759114 | 0.014365 | 0.224708 | -4.20243 | 0.577119 | 0.470564 | -0.10656 | 4 | 1.79E+08 | F | II | | IGR | opensea | IGR-opense | | rs5545237 1;48 |
| cg1917777 | 0.104131 | 0.556596 | 2.758675 | 0.014377 | 0.224708 | -4.20329 | 0.608661 | 0.504531 | -0.10413 | 4 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs1137738 1 |
| cg1155650 | 0.102178 | 0.484784 | 3.57335 | 0.002681 | 0.224708 | -2.55416 | 0.535873 | 0.433695 | -0.10218 | 2 | 2.06E+08 | R | II | PARD3B | Body | opensea | Body-open | | rs1494896 2 |
| cg1188980 | 0.102163 | 0.508693 | 2.8743 | 0.011361 | 0.224708 | -3.9756 | 0.559775 | 0.457612 | -0.10216 | 15 | 86253551 | F | II | AKAP13 | Body | opensea | Body-open | | rs5277685 1 |
| cg1244092 | 0.102156 | 0.818708 | 3.353689 | 0.004228 | 0.224708 | -3.00669 | 0.869786 | 0.76763 | -0.10216 | 7 | 1.58E+08 | R | II | PTPRN2 | Body | opensea | Body-open | | rs2860248 28;12 |
| cg0514799 | 0.102148 | 0.503964 | 3.184272 | 0.006005 | 0.224708 | -3.35278 | 0.555038 | 0.45289 | -0.10215 | 5 | 72982878 | F | II | ARHGEF28 | Body | opensea | Body-open | | rs1925181 40 |
| cg0489321 | 0.102139 | 0.624488 | 3.041518 | 0.008062 | 0.224708 | -3.64157 | 0.675558 | 0.573419 | -0.10214 | 9 | 14310315 | R | II | NFIB | Body | shelf | Body-shelf | chr9:1431 | |
| cg1623098 | 0.10213 | 0.374773 | 4.710967 | 0.000261 | 0.224708 | -0.20513 | 0.425838 | 0.323708 | -0.10213 | 14 | 52336657 | F | II | GNG2 | 5'UTR | opensea | 5'UTR-open | | rs1431103 0;25;26;47 |
| cg0267283 | 0.102106 | 0.513691 | 2.492018 | 0.02457 | 0.227903 | -4.71553 | 0.564744 | 0.462638 | -0.10211 | 8 | 6286451 | R | II | MCPH1 | Body | opensea | Body-open | | rs7935276 36;22;20;16 |
| cg0738930 | 0.104964 | 0.504509 | 2.748275 | 0.014684 | 0.224708 | -4.22362 | 0.556991 | 0.452027 | -0.10496 | 2 | 2.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs3702063 8;36;41 |
| cg1199382 | 0.102105 | 0.347191 | 2.834446 | 0.012323 | 0.224708 | -4.05442 | 0.398244 | 0.296139 | -0.1021 | 4 | 38525620 | F | II | LINC01258 | TSS1500 | opensea | TSS1500-o | | rs1387812 1 |
| cg1229911 | 0.101971 | 0.591914 | 2.743876 | 0.014816 | 0.224708 | -4.23221 | 0.6429 | 0.540929 | -0.10197 | 3 | 72282244 | R | II | | IGR | opensea | IGR-opense | | rs3595045 34;7;4;2 |
| cg0645747 | 0.1021 | 0.41407 | 2.603521 | 0.019665 | 0.225391 | -4.50375 | 0.46512 | 0.363021 | -0.1021 | 4 | 1.52E+08 | F | II | SH3D19 | TSS1500 | opensea | TSS1500-o | | rs1929553 37 |
| cg0757275 | 0.100487 | 0.533115 | 2.743212 | 0.014836 | 0.224708 | -4.23351 | 0.583359 | 0.482872 | -0.10049 | 2 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs5331996 1 |
| cg1757391 | 0.102097 | 0.702674 | 2.766975 | 0.014137 | 0.224708 | -4.18705 | 0.753723 | 0.651626 | -0.1021 | 3 | 1.43E+08 | F | II | SLC9A9 | Body | opensea | Body-open | | rs1430244 0;12 |
| cg1821131 | 0.102063 | 0.487078 | 3.310677 | 0.004623 | 0.224708 | -3.09485 | 0.538109 | 0.436046 | -0.10206 | 8 | 98437059 | F | II | LOC10192 | Body | opensea | Body-open | | rs3685368 0;21;27;36;37 |
| cg0329148 | 0.102047 | 0.48884 | 3.862552 | 0.001473 | 0.224708 | -1.9549 | 0.539864 | 0.437817 | -0.10205 | 11 | 5879372 | F | II | OR52E8 | TSS1500 | opensea | TSS1500-o | | rs5592706 24 |
| cg1883586 | 0.102046 | 0.449273 | 2.833083 | 0.012358 | 0.224708 | -4.05711 | 0.500296 | 0.39825 | -0.10205 | 14 | 52020726 | F | II | FRMD6 | 5'UTR | opensea | 5'UTR-open | | rs1126210 2;30;32;37 |
| cg0757520 | 0.102037 | 0.461855 | 2.850693 | 0.011922 | 0.224708 | -4.02233 | 0.512874 | 0.410836 | -0.10204 | 16 | 75046592 | R | II | ZNRF1 | Body | opensea | Body-open | | rs5499192 12;11;2;1 |
| cg0624651 | 0.104291 | 0.440162 | 2.738193 | 0.014987 | 0.224747 | -4.24331 | 0.492308 | 0.388017 | -0.10429 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5723783 48;42;39 |
| cg0149367 | 0.102021 | 0.554089 | 3.561128 | 0.00275 | 0.224708 | -2.57943 | 0.605099 | 0.503078 | -0.10202 | 6 | 32784825 | R | II | HLA-DOB | TSS200 | opensea | TSS200-ope | | rs2071469 44 |
| cg1838544 | 0.102021 | 0.419411 | 2.884916 | 0.011117 | 0.224708 | -3.95456 | 0.470422 | 0.368401 | -0.10202 | 10 | 1.06E+08 | R | II | GSTO2 | TSS1500 | shore | TSS1500-sh | chr10:106 | rs5625682 24;15;13 |
| cg0773984 | 0.102019 | 0.600512 | 3.9929 | 0.001125 | 0.224708 | -1.68446 | 0.651522 | 0.549503 | -0.10202 | 6 | 1.6E+08 | R | II | FNDC1 | Body | shelf | Body-shelf | chr6:1596 | rs5304354 29 |
| cg1063154 | 0.103447 | 0.5887 | 2.735869 | 0.015058 | 0.22478 | -4.24784 | 0.640424 | 0.536977 | -0.10345 | 4 | 1.15E+08 | F | II | | IGR | shelf | IGR-shelf | chr4:1149 | rs5359994 42 |
| cg2085848 | 0.101007 | 0.49575 | 2.73272 | 0.015154 | 0.224783 | -4.25398 | 0.546254 | 0.445247 | -0.10101 | 15 | 52369365 | F | II | | IGR | opensea | IGR-opense | | rs5521638 1 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1805371 | 0.102017 | 0.585485 | 3.31225 | 0.004608 | 0.224708 | -3.09163 | 0.636493 | 0.534476 | -0.10202 | 13 | 99049874 | F | II | FARP1 | Body | opensea | Body-opens | | rs7652923 1;30;33;40 |
| cg1174325 | 0.102006 | 0.504097 | 2.832005 | 0.012385 | 0.224708 | -4.05923 | 0.5551 | 0.453094 | -0.10201 | 4 | 14784843 | F | II | LINC00504 | Body | opensea | Body-opens | | rs5578152 0;40;50 |
| cg2600268 | 0.126224 | 0.555721 | 2.731164 | 0.015202 | 0.224792 | -4.25701 | 0.618833 | 0.492609 | -0.12622 | 9 | 85835742 | F | II | | IGR | opensea | IGR-opense | | |
| cg0287964 | 0.102005 | 0.623916 | 2.541005 | 0.022286 | 0.226234 | -4.62295 | 0.674919 | 0.572914 | -0.10201 | 2 | 2.34E+08 | F | II | KCNJ13 | 5'UTR | opensea | 5'UTR-open | | |
| cg1112934 | 0.101998 | 0.543753 | 3.36622 | 0.00412 | 0.224708 | -2.98098 | 0.594752 | 0.492754 | -0.102 | 11 | 19870761 | F | II | NAV2 | Body | opensea | Body-opens | | |
| cg0067295 | 0.101991 | 0.566047 | 2.799096 | 0.013244 | 0.224708 | -4.12403 | 0.617043 | 0.515052 | -0.10199 | 4 | 1.7E+08 | F | II | SH3RF1 | Body | opensea | Body-opens | | rs1920605 0;36;43;49 |
| cg2570516 | 0.137084 | 0.336149 | 2.727905 | 0.015303 | 0.224807 | -4.26337 | 0.404691 | 0.267608 | -0.13708 | 8 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5585244 1;28;39 |
| cg2619642 | 0.101989 | 0.527341 | 3.383552 | 0.003975 | 0.224708 | -2.94539 | 0.578335 | 0.476346 | -0.10199 | 14 | 58615960 | R | II | C14orf37 | 5'UTR | shelf | 5'UTR-shelf | chr14:586 | rs5683508 2 |
| cg2292642 | 0.101946 | 0.556925 | 3.525761 | 0.002959 | 0.224708 | -2.65248 | 0.607898 | 0.505952 | -0.10195 | 12 | 70721074 | F | II | CNOT2 | Body | opensea | Body-opens | | rs5307862 18;37 |
| cg2348559 | 0.100166 | 0.619795 | 2.726254 | 0.015354 | 0.224856 | -4.26658 | 0.669878 | 0.569712 | -0.10017 | 7 | 25601773 | F | II | | IGR | opensea | IGR-opense | | rs3718350 1;39 |
| cg0207907 | 0.107473 | 0.479255 | 2.726145 | 0.015358 | 0.224856 | -4.2668 | 0.532992 | 0.425518 | -0.10747 | 1 | 2.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs5520171 9;8 |
| cg2259389 | 0.100597 | 0.572545 | 2.725578 | 0.015375 | 0.224886 | -4.2679 | 0.622843 | 0.522246 | -0.1006 | 20 | 1781910 | F | II | | IGR | shore | IGR-shore | chr20:178 | rs5504520 0;2;34;35;48 |
| cg0540883 | 0.101946 | 0.563435 | 3.011715 | 0.008572 | 0.224708 | -3.70147 | 0.614408 | 0.512462 | -0.10195 | 5 | 1.77E+08 | F | II | LMAN2 | Body | shelf | Body-shelf | chr5:1767 | rs7545838 47 |
| cg1568382 | 0.111912 | 0.540932 | 2.723386 | 0.015444 | 0.224896 | -4.27217 | 0.596888 | 0.484976 | -0.11191 | 6 | 37111556 | R | II | | IGR | opensea | IGR-opense | | rs1137070 1 |
| cg1395975 | 0.10193 | 0.629389 | 2.64197 | 0.018203 | 0.225076 | -4.42988 | 0.680354 | 0.578424 | -0.10193 | 2 | 2.07E+08 | F | II | ADAM23 | Body | opensea | Body-opens | | rs1112685 31 |
| cg1357148 | 0.101929 | 0.496443 | 2.942122 | 0.009888 | 0.224708 | -3.84075 | 0.547407 | 0.445478 | -0.10193 | 12 | 1.11E+08 | F | II | ATP2A2 | Body | opensea | Body-opens | | |
| cg0567437 | 0.101915 | 0.399035 | 3.165864 | 0.006238 | 0.224708 | -3.39018 | 0.449992 | 0.348077 | -0.10191 | 20 | 43275684 | R | II | ADA | Body | opensea | Body-opens | | |
| cg2472795 | 0.101912 | 0.468385 | 2.454141 | 0.026487 | 0.229519 | -4.78659 | 0.519341 | 0.417429 | -0.10191 | 1 | 2.08E+08 | F | II | CR2 | Body | opensea | Body-opens | | rs5761839 0;11;28 |
| cg1440314 | 0.137382 | 0.609265 | 2.721119 | 0.015515 | 0.224896 | -4.27658 | 0.677956 | 0.540574 | -0.13738 | 10 | 70974027 | R | II | | IGR | opensea | IGR-opense | | |
| cg1433946 | 0.108644 | 0.357227 | 2.720818 | 0.015524 | 0.224896 | -4.27717 | 0.411549 | 0.302905 | -0.10864 | 13 | 27927490 | R | II | | IGR | opensea | IGR-opense | | rs5274154 24 |
| cg0815404 | 0.101909 | 0.479322 | 2.947332 | 0.009783 | 0.224708 | -3.83035 | 0.530277 | 0.428367 | -0.10191 | 7 | 1.05E+08 | F | II | ATXN7L1 | Body | opensea | Body-opens | | rs5725654 41 |
| cg0909719 | 0.101903 | 0.419205 | 2.864295 | 0.011595 | 0.224708 | -3.99542 | 0.470156 | 0.368253 | -0.1019 | 22 | 26145960 | R | II | MYO18B | 5'UTR | opensea | 5'UTR-open | | rs5439446 2 |
| cg1373868 | 0.108464 | 0.51707 | 2.71945 | 0.015567 | 0.224896 | -4.27983 | 0.571302 | 0.462838 | -0.10846 | 3 | 1.86E+08 | R | II | | IGR | opensea | IGR-opense | | rs1918843 20;17 |
| cg0514181 | 0.101894 | 0.585054 | 2.712506 | 0.015788 | 0.224896 | -4.29335 | 0.636001 | 0.534107 | -0.10189 | 1 | 2.48E+08 | F | II | OR13G1 | TSS1500 | opensea | TSS1500-o | | rs1809210 22 |
| cg1022538 | 0.10189 | 0.436013 | 3.151411 | 0.006427 | 0.224708 | -3.41951 | 0.486958 | 0.385068 | -0.10189 | 6 | 1.09E+08 | F | II | ARMC2 | 5'UTR | opensea | 5'UTR-open | | rs5521452 2;4 |
| cg0423410 | 0.106291 | 0.463892 | 2.716367 | 0.015665 | 0.224896 | -4.28583 | 0.517037 | 0.410747 | -0.10629 | 10 | 6051242 | R | II | | IGR | opensea | IGR-opense | | rs4129467 32;19;2 |
| cg1426030 | 0.10188 | 0.638852 | 3.615205 | 0.002458 | 0.224708 | -2.4676 | 0.689792 | 0.587912 | -0.10188 | 18 | 61256157 | F | II | SERPINB13 | Body | opensea | Body-opens | | rs1435459 0;47 |
| cg1479259 | 0.108932 | 0.569176 | 2.714838 | 0.015713 | 0.224896 | -4.28881 | 0.623642 | 0.51471 | -0.10893 | 22 | 50980925 | F | II | | IGR | shore | IGR-shore | chr22:509 | rs1390045 0 |
| cg0166327 | 0.103239 | 0.457621 | 2.714641 | 0.015719 | 0.224896 | -4.28919 | 0.50924 | 0.406001 | -0.10324 | 1 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs5517594 1 |
| cg0411438 | 0.108469 | 0.596248 | 2.713321 | 0.015761 | 0.224896 | -4.29176 | 0.650483 | 0.542014 | -0.10847 | 1 | 2.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs5284557 1;41 |
| cg0142010 | 0.101879 | 0.508366 | 2.741773 | 0.014879 | 0.224708 | -4.23632 | 0.559306 | 0.457427 | -0.10188 | 5 | 94237541 | R | II | MCTP1 | Body | opensea | Body-opens | | rs1440062 13;2 |
| cg1850882 | 0.101872 | 0.463866 | 2.557385 | 0.021569 | 0.225744 | -4.59183 | 0.514802 | 0.41293 | -0.10187 | 4 | 76440715 | F | II | RCHY1 | TSS1500 | shore | TSS1500-sh | chr4:7643 | rs1434152 13;19 |
| cg1467966 | 0.124336 | 0.692003 | 2.712173 | 0.015798 | 0.224896 | -4.29399 | 0.754171 | 0.629835 | -0.12434 | 8 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5491057 0;1 |
| cg1536705 | 0.101867 | 0.483836 | 2.960572 | 0.009521 | 0.224708 | -3.80391 | 0.53477 | 0.432903 | -0.10187 | 7 | 92271711 | R | II | CDK6 | Body | opensea | Body-opens | | rs5616818 33;26 |
| cg2678396 | 0.109103 | 0.480988 | 2.710715 | 0.015845 | 0.224896 | -4.29683 | 0.535539 | 0.426436 | -0.1091 | 6 | 1.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs5438982 37;8;3 |
| cg0012623 | 0.117702 | 0.23888 | 2.71067 | 0.015846 | 0.224896 | -4.29691 | 0.297731 | 0.18003 | -0.1177 | 1 | 58857835 | F | II | | IGR | opensea | IGR-opense | | rs1901122 5;14;21 |
| cg2305192 | 0.101866 | 0.519675 | 4.188085 | 0.000754 | 0.224708 | -1.27997 | 0.570608 | 0.468742 | -0.10187 | 3 | 1.05E+08 | F | II | CBLB | Body | opensea | Body-opens | | rs5554347 25;39 |
| cg0508032 | 0.101845 | 0.50864 | 3.171533 | 0.006165 | 0.224708 | -3.37866 | 0.559562 | 0.457717 | -0.10184 | 14 | 64330822 | F | II | SYNE2 | 5'UTR | opensea | 5'UTR-open | | |
| cg0148083 | 0.101834 | 0.469616 | 2.664925 | 0.01738 | 0.225076 | -4.38559 | 0.520533 | 0.418699 | -0.10183 | 3 | 1.14E+08 | F | II | ZBTB20 | Body | opensea | Body-opens | | |
| cg2453311 | 0.119487 | 0.590548 | 2.70872 | 0.015909 | 0.224896 | -4.30071 | 0.650292 | 0.530805 | -0.11949 | 2 | 54622005 | F | II | | IGR | opensea | IGR-opense | | |
| cg1379684 | 0.101827 | 0.55703 | 2.964051 | 0.009453 | 0.224708 | -3.79695 | 0.607944 | 0.506117 | -0.10183 | 15 | 76303634 | F | II | NRG4 | 5'UTR | opensea | 5'UTR-open | | rs5412571 31 |
| cg0369301 | 0.101771 | 0.565415 | 2.706123 | 0.015993 | 0.224896 | -4.30575 | 0.6163 | 0.514529 | -0.10177 | 10 | 95715050 | F | II | | IGR | opensea | IGR-opense | | rs3727602 1 |
| cg1303504 | 0.101144 | 0.540395 | 2.705183 | 0.016023 | 0.224896 | -4.30758 | 0.590967 | 0.489823 | -0.10114 | 1 | 2.21E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg2555739 | 0.101811 | 0.566637 | 3.473331 | 0.003299 | 0.224708 | -2.76064 | 0.617542 | 0.515731 | -0.10181 | 10 | 62296386 | R | II | ANK3 | Body | opensea | Body-opens | | rs5646519 48;15 |
| cg0842356 | 0.101782 | 0.454546 | 2.691136 | 0.016485 | 0.224896 | -4.33485 | 0.505437 | 0.403655 | -0.10178 | 9 | 20355400 | F | II | MLLT3 | Body | opensea | Body-opens | | rs5312661 25;48 |
| cg1355908 | 0.106109 | 0.545154 | 2.703658 | 0.016073 | 0.224896 | -4.31054 | 0.598208 | 0.492099 | -0.10611 | 15 | 94441198 | F | II | | IGR | opensea | IGR-opense | | rs5305341 0 |
| cg1541008 | 0.101776 | 0.572693 | 3.665646 | 0.002214 | 0.224708 | -2.36318 | 0.623582 | 0.521805 | -0.10178 | 10 | 1.19E+08 | R | II | PDZD8 | Body | opensea | Body-opens | | rs1480882 2;1 |
| cg2074091 | 0.101763 | 0.391087 | 2.847944 | 0.011989 | 0.224708 | -4.02776 | 0.441969 | 0.340205 | -0.10176 | 3 | 1.25E+08 | F | II | SLC12A8 | Body | opensea | Body-opens | | rs1870849 1;4;16;45 |
| cg2563038 | 0.101733 | 0.502887 | 4.366379 | 0.000524 | 0.224708 | -0.91166 | 0.553754 | 0.452021 | -0.10173 | 1 | 1.57E+08 | R | II | SH2D2A | Body | shore | Body-shore | chr1:1567 | rs1415450 39;6 |
| cg2481404 | 0.100746 | 0.50742 | 2.701787 | 0.016133 | 0.224896 | -4.31418 | 0.557793 | 0.457047 | -0.10075 | 1 | 44550872 | F | II | | IGR | opensea | IGR-opense | | rs1399423 0;46 |
| cg1566614 | 0.106017 | 0.463769 | 2.700951 | 0.016161 | 0.224896 | -4.3158 | 0.516778 | 0.410761 | -0.10602 | 3 | 1.3E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1300 | rs5399514 21 |
| cg1649647 | 0.101725 | 0.571059 | 3.156511 | 0.00636 | 0.224708 | -3.40917 | 0.621921 | 0.520197 | -0.10172 | 2 | 1.15E+08 | F | II | LOC10106 | Body | opensea | Body-opens | | rs5752980 1 |
| cg1919237 | 0.101685 | 0.696807 | 3.868838 | 0.001454 | 0.224708 | -1.94186 | 0.747649 | 0.645964 | -0.10169 | 11 | 62209356 | F | II | AHNAK | Body | shelf | Body-shelf | chr11:622 | |
| cg0443616 | 0.10173 | 0.711843 | 2.697795 | 0.016264 | 0.224896 | -4.32193 | 0.762708 | 0.660979 | -0.10173 | 9 | 33220728 | F | II | | IGR | opensea | IGR-opense | | rs1162150 0;15 |
| cg0426768 | 0.100728 | 0.576797 | 2.697147 | 0.016286 | 0.224896 | -4.32319 | 0.627161 | 0.526433 | -0.10073 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs1866413 0;24 |
| cg2057825 | 0.100279 | 0.56379 | 2.695843 | 0.016329 | 0.224896 | -4.32572 | 0.61393 | 0.51365 | -0.10028 | 10 | 97732488 | F | II | | IGR | opensea | IGR-opense | | rs5757202 34 |
| cg1136171 | 0.10901 | 0.622472 | 2.695325 | 0.016346 | 0.224896 | -4.32672 | 0.676977 | 0.567967 | -0.10901 | 13 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1454540 47;1 |
| cg0693517 | 0.101669 | 0.585915 | 4.14462 | 0.000824 | 0.224708 | -1.36995 | 0.63675 | 0.535081 | -0.10167 | 2 | 1.15E+08 | R | II | ACTR3 | 5'UTR | opensea | 5'UTR-open | | rs5475406 39;35;1 |
| cg2070167 | 0.10166 | 0.413899 | 3.298872 | 0.004737 | 0.224708 | -3.11901 | 0.464729 | 0.363069 | -0.10166 | 2 | 64782942 | F | II | AFTPH | Body | opensea | Body-opens | | rs5682482 9;20 |
| cg2525943 | 0.100159 | 0.529429 | 2.694838 | 0.016362 | 0.224896 | -4.32767 | 0.579508 | 0.47935 | -0.10016 | 11 | 23100280 | R | II | | IGR | opensea | IGR-opense | | rs1168649 18;8;2 |
| cg0554349 | 0.106148 | 0.595987 | 2.693585 | 0.016403 | 0.224896 | -4.3301 | 0.649061 | 0.542913 | -0.10615 | 2 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1801001 | 0.101658 | 0.716109 | 3.709507 | 0.002021 | 0.224708 | -2.27231 | 0.766938 | 0.665279 | -0.10166 | 15 | 98507208 | F | II | ARRDC4 | Body | shelf | Body-shelf | chr15:985 | rs5536029 3;31;40 |
| cg0457031 | 0.10164 | 0.68559 | 2.54215 | 0.022235 | 0.226195 | -4.62077 | 0.73641 | 0.634769 | -0.10164 | 6 | 24776902 | R | II | GMNN | 5'UTR | shore | 5'UTR-shor | chr6:2477 | |
| cg0212342 | 0.101631 | 0.415589 | 2.407768 | 0.029026 | 0.231628 | -4.87294 | 0.466404 | 0.364773 | -0.10163 | 8 | 74433128 | R | II | STAU2 | Body | opensea | Body-opens | | rs5459806 1 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1348046 | 0.101622 | 0.519767 | 2.634059 | 0.018495 | 0.225084 | -4.44512 | 0.570577 | 0.468956 | -0.10162 | 4 | 16795757 | F | II | LDB2 | Body | opensea | Body-opens | | rs5746426 0;5;11 |
| cg0742707 | 0.110728 | 0.488767 | 2.688173 | 0.016584 | 0.224896 | -4.34059 | 0.544131 | 0.433403 | -0.11073 | 3 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs5750090 10 |
| cg2408217 | 0.101608 | 0.557643 | 2.949932 | 0.009731 | 0.224708 | -3.82516 | 0.608447 | 0.506839 | -0.10161 | 3 | 1.87E+08 | F | II | SNORA63 | TSS1500 | shore | TSS1500-sh | chr3:1865( | rs5352836 1;2 |
| cg1489925 | 0.117379 | 0.527968 | 2.685959 | 0.016658 | 0.224899 | -4.34488 | 0.586658 | 0.469278 | -0.11738 | 2 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs5771367 31;26;25;1 |
| cg1393150 | 0.101604 | 0.592071 | 3.039641 | 0.008093 | 0.224708 | -3.64535 | 0.642873 | 0.541269 | -0.1016 | 2 | 1.7E+08 | F | II | ABCB11 | ExonBnd | opensea | ExonBnd-o | | rs1815336 0 |
| cg1168837 | 0.101601 | 0.709341 | 2.923318 | 0.010277 | 0.224708 | -3.87823 | 0.760141 | 0.65854 | -0.1016 | 1 | 49238689 | F | II | BEND5 | Body | shelf | Body-shelf | chr1:4924: | rs1509334 1;7;10;16;18;19;27 |
| cg0792043 | 0.106179 | 0.445764 | 2.681718 | 0.016801 | 0.224901 | -4.3531 | 0.498853 | 0.392675 | -0.10618 | 11 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | | rs5307623 1;26;47 |
| cg1536882 | 0.101601 | 0.517642 | 2.479954 | 0.025166 | 0.228429 | -4.73821 | 0.568443 | 0.466842 | -0.1016 | 10 | 31293955 | F | II | ZNF438 | Body | opensea | Body-opens | | rs1424217 45 |
| cg0682353 | 0.165794 | 0.551751 | 2.680314 | 0.016849 | 0.224901 | -4.35582 | 0.634648 | 0.468853 | -0.16579 | 4 | 38719348 | F | II | | IGR | opensea | IGR-opense | | rs1136911 0 |
| cg1217668 | 0.101479 | 0.60139 | 2.679944 | 0.016861 | 0.224901 | -4.35654 | 0.652129 | 0.55065 | -0.10148 | 20 | 23018803 | R | II | | IGR | shore | IGR-shore | chr20:230: | rs5463990 48 |
| cg2151562 | 0.107048 | 0.530188 | 2.679917 | 0.016862 | 0.224901 | -4.35659 | 0.583712 | 0.476664 | -0.10705 | 3 | 1.52E+08 | F | II | | IGR | opensea | IGR-opense | | rs7665697 34;42 |
| cg0801726 | 0.101581 | 0.454104 | 2.411485 | 0.028815 | 0.231424 | -4.86604 | 0.504894 | 0.403313 | -0.10158 | 17 | 28500882 | F | II | NSRP1 | Body | opensea | Body-opens | | rs5602489 7 |
| cg2733492 | 0.105101 | 0.720894 | 2.67891 | 0.016897 | 0.224901 | -4.35854 | 0.773445 | 0.668344 | -0.1051 | 9 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5570898 0;4;10 |
| cg0151664 | 0.105613 | 0.545918 | 2.678896 | 0.016897 | 0.224901 | -4.35857 | 0.598724 | 0.493112 | -0.10561 | 1 | 28471495 | F | II | | IGR | opensea | IGR-opense | | |
| cg0060207 | 0.106763 | 0.65061 | 2.678805 | 0.0169 | 0.224901 | -4.35874 | 0.703992 | 0.597229 | -0.10676 | 5 | 33245479 | F | II | | IGR | opensea | IGR-opense | | rs5540954 0;1 |
| cg1685850 | 0.101579 | 0.636048 | 3.269302 | 0.005036 | 0.224708 | -3.17947 | 0.686838 | 0.585259 | -0.10158 | 11 | 88347154 | F | II | GRM5 | Body | opensea | Body-opens | | rs5370141 0;15;23;44 |
| cg0571473 | 0.102778 | 0.451572 | 2.677644 | 0.01694 | 0.224901 | -4.36099 | 0.502961 | 0.400183 | -0.10278 | 1 | 32409096 | F | II | | IGR | shore | IGR-shore | chr1:3241( | rs5467830 1 |
| cg0349512 | 0.104192 | 0.666703 | 2.674768 | 0.017038 | 0.224901 | -4.36656 | 0.718799 | 0.614607 | -0.10419 | 9 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | | rs5771753 0;1;14;19;25 |
| cg1676068 | 0.103669 | 0.647837 | 2.672104 | 0.01713 | 0.224959 | -4.37171 | 0.699672 | 0.596003 | -0.10367 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg2494672 | 0.101556 | 0.552171 | 2.834743 | 0.012316 | 0.224708 | -4.05383 | 0.602949 | 0.501393 | -0.10156 | 18 | 32398024 | R | II | DTNA | Body | opensea | Body-opens | | rs1493362 50;15 |
| cg2406231 | 0.101494 | 0.584089 | 2.977698 | 0.009192 | 0.224708 | -3.76966 | 0.634836 | 0.533342 | -0.10149 | 4 | 41610944 | R | II | LIMCH1 | Body | opensea | Body-opens | | |
| cg1077992 | 0.101489 | 0.523366 | 2.721805 | 0.015493 | 0.224896 | -4.27525 | 0.574111 | 0.472622 | -0.10149 | 3 | 1.67E+08 | R | II | WDR49 | Body | opensea | Body-opens | | |
| cg1602503 | 0.106351 | 0.642524 | 2.669213 | 0.01723 | 0.225005 | -4.3773 | 0.6957 | 0.589349 | -0.10635 | 1 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5453057 10;9 |
| cg1182858 | 0.101463 | 0.718259 | 3.597736 | 0.002549 | 0.224708 | -2.50374 | 0.76899 | 0.667528 | -0.10146 | 1 | 2E+08 | R | II | NR5A2 | 5'UTR | opensea | 5'UTR-open | | rs1419838 2 |
| cg1924378 | 0.101457 | 0.636797 | 3.232384 | 0.005436 | 0.224708 | -3.25482 | 0.687525 | 0.586068 | -0.10146 | 3 | 23567565 | F | II | UBE2E2 | Body | opensea | Body-opens | | rs5602612 1;20 |
| cg2675391 | 0.101449 | 0.51185 | 3.27604 | 0.004967 | 0.224708 | -3.1657 | 0.562574 | 0.461126 | -0.10145 | 14 | 24540526 | R | II | CPNE6 | TSS200 | opensea | TSS200-ope | | |
| cg1705982 | 0.101441 | 0.522537 | 2.904882 | 0.010672 | 0.224708 | -3.91491 | 0.573257 | 0.471816 | -0.10144 | 15 | 39933961 | R | II | FSIP1 | Body | opensea | Body-opens | | rs2898686 50 |
| cg2513493 | 0.103884 | 0.364528 | 2.663357 | 0.017435 | 0.225076 | -4.38862 | 0.41647 | 0.312585 | -0.10388 | 3 | 1.59E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1656616 | 0.10144 | 0.632661 | 2.795992 | 0.013327 | 0.224708 | -4.13013 | 0.683381 | 0.581941 | -0.10144 | 4 | 1.54E+08 | R | II | FHDC1 | Body | shelf | Body-shelf | chr4:1538! | rs5719589 8 |
| cg0361979 | 0.149856 | 0.530012 | 2.661832 | 0.017489 | 0.225076 | -4.39157 | 0.604941 | 0.455084 | -0.14986 | 2 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs4616477 24;1 |
| cg2692858 | 0.102465 | 0.599816 | 2.661645 | 0.017495 | 0.225076 | -4.39193 | 0.651048 | 0.548583 | -0.10246 | 7 | 25591490 | F | II | | IGR | opensea | IGR-opense | | |
| cg1543818 | 0.101435 | 0.398588 | 3.145375 | 0.006508 | 0.224708 | -3.43176 | 0.449306 | 0.347871 | -0.10143 | 3 | 1.24E+08 | F | II | KALRN | Body | opensea | Body-opens | | |
| cg0475802 | 0.102205 | 0.48671 | 2.659819 | 0.01756 | 0.225076 | -4.39546 | 0.537812 | 0.435607 | -0.10221 | 2 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5318671 49;24;2 |
| cg1570487 | 0.101432 | 0.484208 | 2.820186 | 0.012687 | 0.224708 | -4.08253 | 0.534924 | 0.433492 | -0.10143 | 2 | 1.03E+08 | R | II | SLC9A2 | Body | shelf | Body-shelf | chr2:1032: | rs1833148 16;1 |
| cg0224285 | 0.101411 | 0.569011 | 2.736243 | 0.015047 | 0.22478 | -4.24711 | 0.619716 | 0.518305 | -0.10141 | 10 | 13768464 | F | II | FRMD4A | Body | opensea | Body-opens | | |
| cg0546244 | 0.102601 | 0.453091 | 2.657968 | 0.017626 | 0.225076 | -4.39903 | 0.504391 | 0.40179 | -0.1026 | 16 | 77574072 | F | II | | IGR | opensea | IGR-opense | | rs1919234 7 |
| cg0161491 | 0.101404 | 0.605997 | 3.223353 | 0.005539 | 0.224708 | -3.27323 | 0.656699 | 0.555296 | -0.1014 | 1 | 2.02E+08 | R | II | LGR6 | Body | opensea | Body-opens | | |
| cg2652874 | 0.10138 | 0.505886 | 3.041764 | 0.008058 | 0.224708 | -3.64108 | 0.556576 | 0.455196 | -0.10138 | 10 | 75240045 | R | II | PPP3CB | 5'UTR | opensea | 5'UTR-open | | rs5349954 44;38 |
| cg1713688 | 0.101361 | 0.509264 | 3.315913 | 0.004573 | 0.224708 | -3.08413 | 0.559944 | 0.458583 | -0.10136 | 9 | 682998 | F | II | KANK1 | Body | opensea | Body-opens | | rs1850826 23;26 |
| cg2698671 | 0.101353 | 0.543463 | 2.782044 | 0.013711 | 0.224708 | -4.15752 | 0.59414 | 0.492786 | -0.10135 | 3 | 1.22E+08 | R | II | ILDR1 | Body | opensea | Body-opens | | rs5571512 2 |
| cg2217504 | 0.101346 | 0.438235 | 2.456604 | 0.026358 | 0.229509 | -4.78198 | 0.488908 | 0.387562 | -0.10135 | 7 | 37779764 | R | II | GPR141 | TSS1500 | opensea | TSS1500-o | | rs5422985 42;14;12;2 |
| cg0374820 | 0.101345 | 0.55205 | 3.174338 | 0.00613 | 0.224708 | -3.37297 | 0.602722 | 0.501377 | -0.10134 | 1 | 35811540 | R | II | ZMYM4 | Body | opensea | Body-opens | | rs1115049 25;17;13 |
| cg2747935 | 0.102095 | 0.553268 | 2.652567 | 0.017818 | 0.225076 | -4.40946 | 0.604315 | 0.50222 | -0.1021 | 8 | 19969536 | F | II | | IGR | opensea | IGR-opense | | rs5762644 5 |
| cg2179041 | 0.114367 | 0.470794 | 2.652474 | 0.017822 | 0.225076 | -4.40963 | 0.527978 | 0.413611 | -0.11437 | 5 | 12862067 | F | II | | IGR | opensea | IGR-opense | | rs1412505 1 |
| cg1270932 | 0.105861 | 0.593396 | 2.652113 | 0.017835 | 0.225076 | -4.41033 | 0.646327 | 0.540466 | -0.10586 | 13 | 49465897 | R | II | | IGR | opensea | IGR-opense | | rs3469983 51;27;1 |
| cg2436679 | 0.101536 | 0.513052 | 2.650693 | 0.017886 | 0.225076 | -4.41307 | 0.563819 | 0.462284 | -0.10154 | 17 | 55884705 | F | II | | IGR | opensea | IGR-opense | | rs5328610 10;40;49 |
| cg1316645 | 0.101324 | 0.706533 | 2.708997 | 0.0159 | 0.224896 | -4.30017 | 0.757195 | 0.655871 | -0.10132 | 20 | 46369046 | F | II | SULF2 | Body | opensea | Body-opens | | rs5300245 1;49 |
| cg2125094 | 0.101313 | 0.530661 | 2.7284 | 0.015288 | 0.224795 | -4.2624 | 0.581318 | 0.480005 | -0.10131 | 3 | 24181646 | F | II | THRB | Body | opensea | Body-opens | | rs5681678 26 |
| cg1065588 | 0.10131 | 0.46287 | 3.426813 | 0.003633 | 0.224708 | -2.85644 | 0.513525 | 0.412215 | -0.10131 | 20 | 5824213 | F | II | C20orf196 | Body | opensea | Body-opens | | |
| cg0340877 | 0.1013 | 0.542636 | 3.060617 | 0.007751 | 0.224708 | -3.60311 | 0.593286 | 0.491986 | -0.1013 | 2 | 1.44E+08 | R | II | ARHGAP15 | Body | opensea | Body-opens | | rs5766398 15;13 |
| cg0145984 | 0.101298 | 0.351753 | 2.408003 | 0.029013 | 0.231604 | -4.8725 | 0.402402 | 0.301104 | -0.1013 | 3 | 69255721 | R | II | FRMD4B | Body | opensea | Body-opens | | rs5495465 51;26;17 |
| cg1838765 | 0.101291 | 0.783297 | 4.322107 | 0.000573 | 0.224708 | -1.00297 | 0.833943 | 0.732651 | -0.10129 | 10 | 1276341 | F | II | ADARB2 | Body | opensea | Body-opens | | rs1137448 11 |
| cg2093723 | 0.100736 | 0.668101 | 2.644352 | 0.018116 | 0.225076 | -4.42529 | 0.718469 | 0.617733 | -0.10074 | 20 | 725968 | F | II | | IGR | opensea | IGR-opense | | rs5404883 1;6;13;23;30 |
| cg1452657 | 0.101289 | 0.653315 | 2.722935 | 0.015458 | 0.224896 | -4.27305 | 0.703959 | 0.60267 | -0.10129 | 7 | 1.39E+08 | F | II | HIPK2 | Body | opensea | Body-opens | | rs5480981 27 |
| cg1551248 | 0.101289 | 0.679345 | 3.210671 | 0.005686 | 0.224708 | -3.29906 | 0.72999 | 0.628701 | -0.10129 | 2 | 1.11E+08 | R | II | NPHP1 | Body | opensea | Body-opens | | rs5320925 2;1 |
| cg1899876 | 0.101269 | 0.454939 | 2.670522 | 0.017185 | 0.224959 | -4.37477 | 0.505573 | 0.404304 | -0.10127 | 7 | 75224305 | R | II | HIP1 | Body | opensea | Body-opens | | rs3742669 35;1 |
| cg1141199 | 0.102921 | 0.487701 | 2.640009 | 0.018275 | 0.225076 | -4.43366 | 0.539162 | 0.43624 | -0.10292 | 10 | 90878257 | F | II | | IGR | opensea | IGR-opense | | rs5370986 46 |
| cg0794972 | 0.110255 | 0.407671 | 2.638758 | 0.018321 | 0.225076 | -4.43607 | 0.462798 | 0.352544 | -0.11025 | 17 | 32576670 | F | II | | IGR | opensea | IGR-opense | | rs5612776 41 |
| cg0722090 | 0.101269 | 0.57596 | 2.636536 | 0.018403 | 0.225076 | -4.44035 | 0.626595 | 0.525326 | -0.10127 | 3 | 46973284 | F | II | CCDC12 | Body | opensea | Body-opens | | rs5392739 21;36 |
| cg1571468 | 0.101258 | 0.64568 | 3.231111 | 0.005451 | 0.224708 | -3.25742 | 0.696309 | 0.595051 | -0.10126 | 17 | 39217766 | R | II | LOC73075 | TSS1500 | opensea | TSS1500-o | | |
| cg2053821 | 0.101673 | 0.589968 | 2.638236 | 0.01834 | 0.225076 | -4.43708 | 0.640804 | 0.539132 | -0.10167 | 4 | 58027287 | R | II | | IGR | shelf | IGR-shelf | chr4:5802! | rs1493992 47;46;35;2 |
| cg1223222 | 0.101243 | 0.57502 | 2.386694 | 0.030255 | 0.232825 | -4.91193 | 0.625641 | 0.524398 | -0.10124 | 13 | 98825268 | F | II | FARP1 | 5'UTR | shelf | 5'UTR-shelf | chr13:988: | rs7410869 0;1;2;51 |
| cg2451142 | 0.109159 | 0.499962 | 2.634139 | 0.018492 | 0.225084 | -4.44496 | 0.554541 | 0.445382 | -0.10916 | 7 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs5753398 12 |
| cg0034079 | 0.101243 | 0.582325 | 2.82597 | 0.012538 | 0.224708 | -4.07113 | 0.632947 | 0.531704 | -0.10124 | 2 | 2.16E+08 | F | II | LINC00607 | Body | opensea | Body-opens | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0806734 | 0.101231 | 0.513597 | 2.467223 | 0.025809 | 0.228941 | -4.76209 | 0.564212 | 0.462981 | -0.10123 | 12 | 1.02E+08 | F | II | GNPTAB | Body | opensea | Body-opens | | rs3755020 | 0 |
| cg1323720 | 0.113269 | 0.481125 | 2.633273 | 0.018524 | 0.225084 | -4.44663 | 0.53776 | 0.424491 | -0.11327 | 13 | 98192250 | F | II | | IGR | opensea | IGR-opense | | rs5746394 | 1 |
| cg0112073 | 0.110685 | 0.460548 | 2.633086 | 0.018531 | 0.225084 | -4.44699 | 0.515891 | 0.405206 | -0.11068 | 19 | 19080651 | R | II | | IGR | opensea | IGR-opense | | rs1464859 | 41;27 |
| cg1458016 | 0.101075 | 0.586943 | 2.632665 | 0.018547 | 0.225084 | -4.4478 | 0.63748 | 0.536405 | -0.10108 | 12 | 26286940 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1772759 | 0.101252 | 0.439248 | 2.630914 | 0.018612 | 0.225119 | -4.45117 | 0.489874 | 0.388622 | -0.10125 | 5 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0849143 | 0.101231 | 0.522569 | 2.739985 | 0.014933 | 0.224708 | -4.23981 | 0.573184 | 0.471953 | -0.10123 | 1 | 78442533 | R | II | FUBP1 | Body | shore | Body-shore | chr1:7844 | | |
| cg0589080 | 0.100081 | 0.360134 | 2.630396 | 0.018632 | 0.225119 | -4.45216 | 0.410174 | 0.310093 | -0.10008 | 2 | 20716912 | R | II | | IGR | opensea | IGR-opense | | rs5380727 | 21;6;4 |
| cg0877964 | 0.29278 | 0.563747 | 2.627868 | 0.018727 | 0.225209 | -4.45702 | 0.710137 | 0.417357 | -0.29278 | 13 | 50194554 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2592281 | 0.101224 | 0.584984 | 2.823776 | 0.012594 | 0.224708 | -4.07546 | 0.635596 | 0.534373 | -0.10122 | 7 | 1.3E+08 | F | II | TMEM209 | Body | opensea | Body-opens | | rs1496216 | 10 |
| cg0572974 | 0.115254 | 0.648773 | 2.626982 | 0.01876 | 0.225209 | -4.45873 | 0.7064 | 0.591146 | -0.11525 | 22 | 49937644 | R | II | | IGR | shelf | IGR-shelf | chr22:499 | | |
| cg0976898 | 0.159952 | 0.721465 | 2.62681 | 0.018766 | 0.225231 | -4.45906 | 0.801441 | 0.641488 | -0.15995 | 4 | 1.84E+08 | R | II | | IGR | opensea | IGR-opense | | rs1892364 | 22 |
| cg2132162 | 0.100299 | 0.504496 | 2.626299 | 0.018786 | 0.225286 | -4.46004 | 0.554645 | 0.454346 | -0.1003 | 15 | 68325193 | F | II | | IGR | opensea | IGR-opense | | rs5573970 | 1;31;33 |
| cg2110886 | 0.101218 | 0.665705 | 3.368052 | 0.004104 | 0.224708 | -2.97722 | 0.716313 | 0.615096 | -0.10122 | 7 | 28852950 | F | II | CREB5 | Body | opensea | Body-opens | | rs1892503 | 0;39 |
| cg0216827 | 0.266366 | 0.550099 | 2.620749 | 0.018996 | 0.225391 | -4.4707 | 0.683282 | 0.416916 | -0.26637 | 8 | 50110978 | F | II | | IGR | opensea | IGR-opense | | rs5757957 | 0;1 |
| cg0067293 | 0.101195 | 0.643677 | 3.656236 | 0.002257 | 0.224708 | -2.38267 | 0.694275 | 0.59308 | -0.1012 | 8 | 1.31E+08 | F | II | CCDC26 | Body | opensea | Body-opens | | rs5291254 | 22;39 |
| cg2420790 | 0.101192 | 0.812313 | 2.231246 | 0.040951 | 0.243912 | -5.19453 | 0.862909 | 0.761717 | -0.10119 | 11 | 74205489 | F | II | LIPT2 | TSS1500 | shore | TSS1500-sh | chr11:742( | rs1783201 | 8;9;27 |
| cg1505818 | 0.101188 | 0.476612 | 2.677683 | 0.016939 | 0.224901 | -4.36091 | 0.527207 | 0.426018 | -0.10119 | 2 | 60715593 | F | II | BCL11A | Body | opensea | Body-opens | | rs5776203 | 4 |
| cg1231914 | 0.168948 | 0.677827 | 2.616941 | 0.019142 | 0.225391 | -4.47801 | 0.762301 | 0.593353 | -0.16895 | 10 | 1.35E+08 | F | II | | IGR | shelf | IGR-shelf | chr10:134 | rs1453979 | 30 |
| cg1022614 | 0.102205 | 0.433836 | 2.6166 | 0.019156 | 0.225391 | -4.47867 | 0.484939 | 0.382734 | -0.10221 | 12 | 76036209 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0022658 | 0.103506 | 0.506939 | 2.613428 | 0.019278 | 0.225391 | -4.48476 | 0.558692 | 0.455186 | -0.10351 | 5 | 89000691 | F | II | | IGR | opensea | IGR-opense | | rs5614567 | 1 |
| cg1263259 | 0.101177 | 0.613758 | 4.70377 | 0.000265 | 0.224708 | -0.2198 | 0.664347 | 0.56317 | -0.10118 | 2 | 88899965 | R | II | EIF2AK3 | Body | opensea | Body-opens | | | |
| cg1154815 | 0.10116 | 0.585349 | 3.441918 | 0.003521 | 0.224708 | -2.82535 | 0.635929 | 0.534769 | -0.10116 | 2 | 2.02E+08 | R | II | AOX2P | Body | opensea | Body-opens | | rs1492170 | 50;13;4;1 |
| cg0323036 | 0.109724 | 0.527889 | 2.607784 | 0.019498 | 0.225391 | -4.49558 | 0.582751 | 0.473027 | -0.10972 | 18 | 55681687 | R | II | | IGR | opensea | IGR-opense | | rs1848742 | 45;41;35 |
| cg0241035 | 0.10113 | 0.737743 | 2.743105 | 0.014839 | 0.224708 | -4.23372 | 0.788308 | 0.687178 | -0.10113 | 9 | 5438883 | R | II | PLGRKT | TSS1500 | shore | TSS1500-sh | chr9:5437 | rs702277;r | 33;30;28;19;4 |
| cg0669018 | 0.101121 | 0.685581 | 2.937666 | 0.009979 | 0.224708 | -3.84963 | 0.736142 | 0.63502 | -0.10112 | 18 | 77960781 | F | II | PARD6G | Body | opensea | Body-opens | | rs1130568 | 27 |
| cg0871230 | 0.157009 | 0.644967 | 2.604685 | 0.019619 | 0.225391 | -4.50152 | 0.723471 | 0.566462 | -0.15701 | 20 | 42417112 | R | II | | IGR | opensea | IGR-opense | | rs5416046 | 44;6 |
| cg2592925 | 0.101095 | 0.512154 | 2.791818 | 0.013441 | 0.224708 | -4.13833 | 0.562702 | 0.461606 | -0.1011 | 4 | 36211731 | F | II | ARAP2 | Body | opensea | Body-opens | | rs3679273 | 0;1;36 |
| cg1913932 | 0.101925 | 0.539212 | 2.601536 | 0.019744 | 0.225445 | -4.50755 | 0.590175 | 0.48825 | -0.10193 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1672955 | 0.10107 | 0.522926 | 2.805676 | 0.013067 | 0.224708 | -4.11109 | 0.573461 | 0.47239 | -0.10107 | 1 | 2.07E+08 | R | II | FCAMR | 5'UTR | opensea | 5'UTR-open | | rs1510587 | 31;21;2 |
| cg0567350 | 0.101529 | 0.555746 | 2.600909 | 0.019769 | 0.225463 | -4.50875 | 0.606511 | 0.504982 | -0.10153 | 14 | 97176849 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0767689 | 0.101063 | 0.501786 | 2.756433 | 0.014443 | 0.224708 | -4.20768 | 0.552318 | 0.451255 | -0.10106 | 19 | 5213590 | R | II | PTPRS | Body | shore | Body-shore | chr19:521 | rs5538257 | 43 |
| cg0129419 | 0.101023 | 0.456659 | 3.692509 | 0.002094 | 0.224708 | -2.30754 | 0.50717 | 0.406147 | -0.10102 | 1 | 71368022 | F | II | PTGER3 | 3'UTR | opensea | 3'UTR-open | | rs1161229 | 45 |
| cg1518416 | 0.101019 | 0.517374 | 2.591344 | 0.020151 | 0.225654 | -4.52706 | 0.567884 | 0.466865 | -0.10102 | 18 | 13019478 | R | II | CEP192 | Body | opensea | Body-opens | | rs1865096 | 47 |
| cg1388508 | 0.101017 | 0.525779 | 3.393584 | 0.003893 | 0.224708 | -2.92477 | 0.576288 | 0.475271 | -0.10102 | 22 | 42823184 | F | II | NFAM1 | Body | opensea | Body-opens | | | |
| cg0816676 | 0.10101 | 0.483445 | 4.050361 | 0.001 | 0.224708 | -1.56529 | 0.53395 | 0.432939 | -0.10101 | 1 | 1.53E+08 | R | II | LCE2A | 5'UTR | opensea | 5'UTR-open | | | |
| cg0808431 | 0.10107 | 0.689662 | 2.593252 | 0.020074 | 0.225603 | -4.52341 | 0.740197 | 0.639128 | -0.10107 | 8 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5338644 | 48;11;4 |
| cg1282317 | 0.101003 | 0.602835 | 3.250995 | 0.005231 | 0.224708 | -3.21686 | 0.653337 | 0.552334 | -0.101 | 16 | 78930322 | R | II | WWOX | Body | opensea | Body-opens | | rs5395586 | 37;32;26;17 |
| cg0721548 | 0.109002 | 0.513857 | 2.59166 | 0.020139 | 0.225654 | -4.52645 | 0.568358 | 0.459356 | -0.109 | 1 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5735933 | 26;14 |
| cg2191352 | 0.101001 | 0.609697 | 4.691867 | 0.000272 | 0.224708 | -0.24406 | 0.660198 | 0.559197 | -0.101 | 1 | 1.85E+08 | R | II | IVNS1ABP | 5'UTR | shelf | 5'UTR-shelf | chr1:1852 | rs1808368 | 2;1 |
| cg1930925 | 0.141452 | 0.362842 | 2.582546 | 0.02051 | 0.225654 | -4.54387 | 0.433568 | 0.292116 | -0.14145 | 2 | 9795717 | R | II | | IGR | opensea | IGR-opense | | rs1451042 | 40;38;32;31;8 |
| cg2157010 | 0.101708 | 0.476279 | 2.580793 | 0.020582 | 0.225654 | -4.54722 | 0.527133 | 0.425425 | -0.10171 | 1 | 1.79E+08 | F | II | | IGR | opensea | IGR-opense | | rs1407135 | 0;2;18 |
| cg0780769 | 0.100993 | 0.462343 | 3.675699 | 0.002168 | 0.224708 | -2.34236 | 0.51284 | 0.411846 | -0.10099 | 9 | 75406192 | R | II | TMC1 | Body | opensea | Body-opens | | rs5571643 | 3 |
| cg1735187 | 0.100985 | 0.431984 | 3.592304 | 0.002578 | 0.224708 | -2.51498 | 0.482477 | 0.381491 | -0.10099 | 1 | 2.05E+08 | F | II | TMCC2 | Body | opensea | Body-opens | | rs5688866 | 49 |
| cg1036203 | 0.100984 | 0.482799 | 4.291243 | 0.00061 | 0.224708 | -1.06669 | 0.533291 | 0.432307 | -0.10098 | 10 | 1.17E+08 | R | II | FAM160B1 | Body | opensea | Body-opens | | | |
| cg1079838 | 0.100973 | 0.485105 | 3.007733 | 0.008642 | 0.224708 | -3.70947 | 0.535592 | 0.434619 | -0.10097 | 17 | 10325221 | R | II | MYH8 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0328892 | 0.107613 | 0.680045 | 2.577696 | 0.02071 | 0.225654 | -4.55313 | 0.733851 | 0.626239 | -0.10761 | 2 | 1.19E+08 | R | II | | IGR | shore | IGR-shore | chr2:1186 | rs7519341 | 40;5 |
| cg1199606 | 0.100971 | 0.693424 | 3.203828 | 0.005767 | 0.224708 | -3.313 | 0.743909 | 0.642938 | -0.10097 | 9 | 93635561 | R | II | SYK | Body | opensea | Body-opens | | rs3749133 | 1 |
| cg1940605 | 0.100954 | 0.707149 | 3.040216 | 0.008083 | 0.224708 | -3.64419 | 0.757626 | 0.656672 | -0.10095 | 6 | 42204675 | R | II | TRERF1 | Body | opensea | Body-opens | | rs9462785 | 31;2;1 |
| cg0519850 | 0.100953 | 0.424307 | 3.177119 | 0.006095 | 0.224708 | -3.36732 | 0.474784 | 0.373831 | -0.10095 | 5 | 1.39E+08 | R | II | SPATA24 | Body | opensea | Body-opens | | rs7891733 | 37;25;1 |
| cg0562520 | 0.103701 | 0.674699 | 2.572632 | 0.020921 | 0.225654 | -4.56279 | 0.72655 | 0.622849 | -0.1037 | 6 | 80191740 | R | II | | IGR | opensea | IGR-opense | | rs1499801 | 31;19;4;1;1 |
| cg1202896 | 0.108199 | 0.432136 | 2.570231 | 0.021022 | 0.225654 | -4.56737 | 0.486236 | 0.378036 | -0.1082 | 11 | 34393189 | R | II | | IGR | opensea | IGR-opense | | rs3977761 | 42;1 |
| cg1359041 | 0.100946 | 0.498401 | 2.761328 | 0.0143 | 0.224708 | -4.1981 | 0.548874 | 0.447928 | -0.10095 | 20 | 43209782 | R | II | PKIG | TSS1500 | opensea | TSS1500-o | | rs5624246 | 40;1 |
| cg2485386 | 0.207165 | 0.592556 | 2.568854 | 0.02108 | 0.225654 | -4.56999 | 0.696138 | 0.488973 | -0.20716 | 1 | 1.47E+08 | F | II | | IGR | shore | IGR-shore | chr1:1465 | rs5625739 | 18;36 |
| cg1007086 | 0.13694 | 0.702785 | 2.568366 | 0.0211 | 0.225654 | -4.57092 | 0.771255 | 0.634314 | -0.13694 | 15 | 57664490 | R | II | | IGR | shelf | IGR-shelf | chr15:576 | rs5737334 | 51;2;1 |
| cg1560868 | 0.100931 | 0.715742 | 3.683611 | 0.002133 | 0.224708 | -2.32597 | 0.766207 | 0.665277 | -0.10093 | 1 | 2.04E+08 | R | II | SNRPE | TSS1500 | shore | TSS1500-sh | chr1:2038 | rs5483193 | 45;25 |
| cg2534275 | 0.107942 | 0.548983 | 2.567382 | 0.021142 | 0.225654 | -4.57279 | 0.602954 | 0.495012 | -0.10794 | 16 | 11473669 | F | II | | IGR | opensea | IGR-opense | | rs5380570 | 0;13;15;38;39 |
| cg0098006 | 0.117024 | 0.399824 | 2.564925 | 0.021246 | 0.225654 | -4.57747 | 0.458336 | 0.341312 | -0.11702 | 1 | 14849511 | F | II | | IGR | opensea | IGR-opense | | rs1152782 | 0;39;48 |
| cg1607080 | 0.100717 | 0.64759 | 2.562008 | 0.02137 | 0.225654 | -4.58303 | 0.697949 | 0.597232 | -0.10072 | 17 | 40196866 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1334023 | 0.100226 | 0.594892 | 2.56125 | 0.021403 | 0.225654 | -4.58447 | 0.645005 | 0.544779 | -0.10023 | 8 | 81549775 | R | II | | IGR | opensea | IGR-opense | | rs5395290 | 2 |
| cg1107944 | 0.100904 | 0.513582 | 3.15798 | 0.00634 | 0.224708 | -3.40618 | 0.564034 | 0.46313 | -0.1009 | 8 | 1.31E+08 | F | II | ASAP1 | 5'UTR | opensea | 5'UTR-open | | rs5293081 | 15;30;37;40 |
| cg2152077 | 0.100059 | 0.730212 | 2.560697 | 0.021427 | 0.225654 | -4.58552 | 0.780242 | 0.680183 | -0.10006 | 12 | 58736428 | R | II | | IGR | opensea | IGR-opense | | rs1398809 | 40;35;1 |
| cg0445819 | 0.100901 | 0.582994 | 2.759273 | 0.01436 | 0.224708 | -4.20212 | 0.633444 | 0.532543 | -0.1009 | 1 | 2.2E+08 | R | II | RAB3GAP2 | Body | opensea | Body-opens | | rs1399811 | 12 |
| cg1897604 | 0.105701 | 0.488389 | 2.557553 | 0.021562 | 0.225744 | -4.59151 | 0.54124 | 0.435538 | -0.1057 | 13 | 24520049 | F | I | | IGR | opensea | IGR-opense | | rs5713123 | 6;22;48 |
| cg0457686 | 0.100885 | 0.583275 | 2.89315 | 0.010931 | 0.224708 | -3.93821 | 0.633717 | 0.532832 | -0.10088 | 2 | 1.45E+08 | R | II | GTDC1 | 5'UTR | opensea | 5'UTR-open | | rs5588044 | 18;4;2;1 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0154910 | 0.126359 | 0.741533 | 2.556397 | 0.021612 | 0.225763 | -4.59371 | 0.804713 | 0.678354 | -0.12636 | 5 | 10788719 | R | II | | IGR | opensea | IGR-opense | | rs1142217 1 | |
| cg0787921 | 0.100884 | 0.593696 | 3.008836 | 0.008622 | 0.224708 | -3.70725 | 0.644138 | 0.543254 | -0.10088 | 14 | 63749933 | F | II | RHOJ | ExonBnd | opensea | ExonBnd-o | | rs5396262 16;21;22 | |
| cg2731813 | 0.101982 | 0.829595 | 2.555576 | 0.021647 | 0.225763 | -4.59527 | 0.880586 | 0.778604 | -0.10198 | 4 | 1.87E+08 | F | II | | IGR | opensea | IGR-opense | | rs2603733 40;41 | |
| cg1816074 | 0.100879 | 0.647887 | 3.003215 | 0.008723 | 0.224708 | -3.71853 | 0.698327 | 0.597447 | -0.10088 | 3 | 1.51E+08 | F | II | MED12L | Body | opensea | Body-open | | rs3718257 1;20;23;49 | |
| cg2714150 | 0.101959 | 0.393138 | 2.553497 | 0.021737 | 0.225763 | -4.59922 | 0.444117 | 0.342159 | -0.10196 | 10 | 5886111 | R | II | | IGR | shelf | IGR-shelf | chr10:588 | | |
| cg1807107 | 0.100877 | 0.51104 | 2.980788 | 0.009134 | 0.224708 | -3.76347 | 0.561479 | 0.460602 | -0.10088 | 16 | 78930307 | R | II | WWOX | Body | opensea | Body-open | | rs5293225 45;44;37;22;17;11;2 | |
| cg0787438 | 0.103698 | 0.557075 | 2.547794 | 0.021986 | 0.225908 | -4.61006 | 0.608924 | 0.505227 | -0.1037 | 5 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5399479 17 | |
| cg1973876 | 0.100864 | 0.636595 | 2.60676 | 0.019538 | 0.225391 | -4.49754 | 0.687027 | 0.586163 | -0.10086 | 21 | 47268725 | R | II | PCBP3 | TSS1500 | opensea | TSS1500-o | | | |
| cg0342850 | 0.100023 | 0.613429 | 2.54595 | 0.022067 | 0.226008 | -4.61356 | 0.663441 | 0.563418 | -0.10002 | 1 | 2.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs1819431 0;19 | |
| cg1749759 | 0.100858 | 0.524466 | 2.620212 | 0.019017 | 0.225391 | -4.47173 | 0.574895 | 0.474038 | -0.10086 | 3 | 1.55E+08 | F | II | LOC10050 | TSS200 | opensea | TSS200-ope | | rs5758219 0 | |
| cg2582278 | 0.110859 | 0.802376 | 2.545142 | 0.022103 | 0.226027 | -4.61509 | 0.857806 | 0.746947 | -0.11086 | 12 | 1.33E+08 | R | II | | IGR | island | IGR-island | chr12:133 | rs5499242 8;1 | |
| cg1081194 | 0.100848 | 0.601766 | 3.686173 | 0.002122 | 0.224708 | -2.32067 | 0.65219 | 0.551342 | -0.10085 | 1 | 1.57E+08 | R | II | SH2D2A | Body | shore | Body-shore | chr1:1567 | rs3773306 50;2 | |
| cg0332694 | 0.100825 | 0.619125 | 2.978876 | 0.00917 | 0.224708 | -3.7673 | 0.669538 | 0.568712 | -0.10083 | 9 | 1E+08 | F | II | LOC28635 | TSS1500 | opensea | TSS1500-o | | rs5340745 1;5;45 | |
| cg0242385 | 0.104406 | 0.402841 | 2.541044 | 0.022284 | 0.226234 | -4.62287 | 0.455044 | 0.350637 | -0.10441 | 10 | 33795998 | F | II | | IGR | opensea | IGR-opense | | rs1921992 0;42 | |
| cg2134803 | 0.100822 | 0.578623 | 2.536372 | 0.022493 | 0.226384 | -4.63173 | 0.629034 | 0.528212 | -0.10082 | 5 | 1.29E+08 | F | II | ADAMTS19 | Body | opensea | Body-open | | rs1494714 0;21 | |
| cg0753166 | 0.100813 | 0.263162 | 3.797623 | 0.001684 | 0.224708 | -2.08961 | 0.313569 | 0.212755 | -0.10081 | 8 | 47751494 | R | II | BEYLA | TSS1500 | opensea | TSS1500-o | | rs1451385 48;32;12;2 | |
| cg1131128 | 0.100802 | 0.677059 | 3.434103 | 0.003579 | 0.224708 | -2.84144 | 0.72746 | 0.626658 | -0.1008 | 12 | 63088234 | F | II | PPM1H | Body | opensea | Body-open | | rs5726652 0 | |
| cg1409115 | 0.100783 | 0.546666 | 2.865751 | 0.011561 | 0.224708 | -3.99254 | 0.597058 | 0.496275 | -0.10078 | 4 | 79358764 | F | II | FRAS1 | Body | opensea | Body-open | | rs5445028 33;44 | |
| cg0815381 | 0.100766 | 0.402795 | 2.899864 | 0.010782 | 0.224708 | -3.92488 | 0.453178 | 0.352413 | -0.10077 | 20 | 50021369 | F | II | NFATC2 | Body | opensea | Body-open | | rs1932450 8;10;13;28;36 | |
| cg1735734 | 0.104518 | 0.414499 | 2.532149 | 0.022683 | 0.226517 | -4.63974 | 0.466758 | 0.362239 | -0.10452 | 2 | 58603854 | F | II | | IGR | opensea | IGR-opense | | rs5549182 0;1;29 | |
| cg1862896 | 0.106621 | 0.512684 | 2.53161 | 0.022708 | 0.226534 | -4.64076 | 0.565994 | 0.459373 | -0.10662 | 12 | 43719927 | R | II | | IGR | opensea | IGR-opense | | rs1482674 51 | |
| cg0537329 | 0.102231 | 0.569564 | 2.526826 | 0.022926 | 0.226596 | -4.64982 | 0.62068 | 0.518449 | -0.10223 | 1 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | rs7585728 0;14;18 | |
| cg2452639 | 0.100742 | 0.733124 | 2.592204 | 0.020117 | 0.225654 | -4.52541 | 0.783495 | 0.682753 | -0.10074 | 15 | 63128725 | F | II | TLN2 | Body | opensea | Body-open | | rs1140471 0;11;13;17;40;47 | |
| cg1326640 | 0.141269 | 0.424867 | 2.523664 | 0.02307 | 0.226614 | -4.6558 | 0.495502 | 0.354233 | -0.14127 | 3 | 89627094 | R | II | | IGR | opensea | IGR-opense | | rs5682984 51;27;1 | |
| cg1015870 | 0.118171 | 0.541726 | 2.520509 | 0.023216 | 0.226759 | -4.66177 | 0.600811 | 0.48264 | -0.11817 | 5 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5320644 1;44 | |
| cg0872787 | 0.10072 | 0.516197 | 2.961507 | 0.009503 | 0.224708 | -3.80204 | 0.566557 | 0.465837 | -0.10072 | 17 | 6427324 | R | II | PITPNM3 | Body | opensea | Body-open | | rs5352479 47;29 | |
| cg2126206 | 0.100708 | 0.4772 | 3.956694 | 0.001213 | 0.224708 | -1.75957 | 0.527554 | 0.426846 | -0.10071 | 20 | 1130995 | F | II | PSMF1 | Body | opensea | Body-open | | rs1381294 1;34 | |
| cg0663547 | 0.114183 | 0.661967 | 2.510468 | 0.023685 | 0.22709 | -4.68075 | 0.719059 | 0.604875 | -0.11418 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs1147127 0;1;20 | |
| cg0248820 | 0.100701 | 0.468865 | 2.458901 | 0.026238 | 0.229342 | -4.77768 | 0.519216 | 0.418515 | -0.1007 | 7 | 1.32E+08 | F | II | PLXNA4 | Body | opensea | Body-open | | rs7530553 0;19;38 | |
| cg0365105 | 0.222807 | 0.670048 | 2.509038 | 0.023752 | 0.22717 | -4.68345 | 0.781451 | 0.558644 | -0.22281 | 13 | 50194643 | F | II | | IGR | opensea | IGR-opense | | rs5587308 44 | |
| cg0068711 | 0.100538 | 0.543734 | 2.508787 | 0.023764 | 0.22719 | -4.68392 | 0.594002 | 0.493465 | -0.10054 | 15 | 76129654 | F | II | | IGR | opensea | IGR-opense | | rs1458165 1;3;23;24 | |
| cg2568239 | 0.100677 | 0.689035 | 3.947965 | 0.001235 | 0.224708 | -1.77768 | 0.739374 | 0.638697 | -0.10068 | 15 | 25137649 | R | II | SNRPN | 5'UTR | opensea | 5'UTR-open | | rs1155111 14;1 | |
| cg0238931 | 0.100946 | 0.489343 | 2.507312 | 0.023834 | 0.227252 | -4.6867 | 0.539816 | 0.43887 | -0.10095 | 12 | 76577488 | F | II | | IGR | opensea | IGR-opense | | rs3697068 1 | |
| cg0850513 | 0.100664 | 0.572454 | 3.201002 | 0.005801 | 0.224708 | -3.31875 | 0.622786 | 0.522122 | -0.10066 | 1 | 2.05E+08 | F | II | LEMD1 | 1stExon | opensea | 1stExon-op | | | |
| cg0005560 | 0.124068 | 0.606674 | 2.503511 | 0.024015 | 0.227384 | -4.69387 | 0.668708 | 0.54464 | -0.12407 | 1 | 48508839 | R | II | | IGR | opensea | IGR-opense | | rs5578441 33 | |
| cg1559208 | 0.100662 | 0.511728 | 2.8856 | 0.011101 | 0.224708 | -3.9532 | 0.562059 | 0.461397 | -0.10066 | 16 | 49683803 | R | II | ZNF423 | Body | opensea | Body-open | | rs7593493 37;25 | |
| cg0118993 | 0.100661 | 0.615387 | 2.579198 | 0.020648 | 0.225654 | -4.55026 | 0.665717 | 0.565056 | -0.10066 | 13 | 43385958 | R | II | LINC01050 | ExonBnd | opensea | ExonBnd-o | | rs1919289 45;24;1 | |
| cg0136493 | 0.101963 | 0.471665 | 2.501241 | 0.024124 | 0.227447 | -4.69815 | 0.522647 | 0.420684 | -0.10196 | 16 | 73185687 | R | II | | IGR | opensea | IGR-opense | | rs5382053 39;35;1 | |
| cg2593923 | 0.100657 | 0.463549 | 3.164288 | 0.006258 | 0.224708 | -3.39338 | 0.513877 | 0.41322 | -0.10066 | 18 | 6967140 | R | II | LAMA1 | Body | opensea | Body-open | | | |
| cg0807655 | 0.100651 | 0.596584 | 2.822924 | 0.012616 | 0.224708 | -4.07714 | 0.64691 | 0.546258 | -0.10065 | 3 | 1.75E+08 | F | II | NAALADL2- | Body | opensea | Body-open | | rs5411959 0 | |
| cg0802317 | 0.130529 | 0.661275 | 2.495213 | 0.024414 | 0.227653 | -4.70951 | 0.726539 | 0.59601 | -0.13053 | 19 | 32217882 | R | II | | IGR | opensea | IGR-opense | | rs5532685 49;33;17 | |
| cg1590897 | 0.106833 | 0.606748 | 2.493396 | 0.024503 | 0.227809 | -4.71293 | 0.660165 | 0.553332 | -0.10683 | 1 | 2.1E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:2099 | rs1831958 50 | |
| cg2464725 | 0.10064 | 0.578538 | 3.443314 | 0.003511 | 0.224708 | -2.82247 | 0.628858 | 0.528218 | -0.10064 | 7 | 94997769 | F | II | PON3 | Body | opensea | Body-open | | rs5822130 48 | |
| cg1212603 | 0.100639 | 0.604473 | 2.472264 | 0.025552 | 0.228755 | -4.75264 | 0.654793 | 0.554154 | -0.10064 | 20 | 33658033 | F | II | TRPC4AP | Body | opensea | Body-open | | rs1841684 14;31 | |
| cg0395267 | 0.108226 | 0.510107 | 2.487554 | 0.024789 | 0.228087 | -4.72393 | 0.56422 | 0.455994 | -0.10823 | 21 | 45126620 | F | II | | IGR | opensea | IGR-opense | | rs5581136 0;9;31;32 | |
| cg0284191 | 0.100633 | 0.445936 | 2.568292 | 0.021104 | 0.225654 | -4.57106 | 0.496253 | 0.39562 | -0.10063 | 6 | 1.53E+08 | R | II | SYNE1 | 5'UTR | shore | 5'UTR-shor | chr6:1529 | rs5615733 22;19;2;1 | |
| cg2250277 | 0.100626 | 0.585449 | 2.778513 | 0.01381 | 0.224708 | -4.16444 | 0.635762 | 0.535136 | -0.10063 | 14 | 24540516 | R | II | CPNE6 | TSS200 | opensea | TSS200-ope | | | |
| cg0641939 | 0.100611 | 0.618873 | 2.593865 | 0.02005 | 0.225572 | -4.52223 | 0.669179 | 0.568568 | -0.10061 | 11 | 59952352 | F | II | MS4A6A | TSS1500 | opensea | TSS1500-o | | rs1835661 1;15;16;25;35;38 | |
| cg1609800 | 0.100604 | 0.72708 | 2.726723 | 0.01534 | 0.224831 | -4.26567 | 0.777382 | 0.676778 | -0.1006 | 9 | 5425397 | R | II | PLGRKT | Body | opensea | Body-open | | rs1496049 47;39;29;17;14;1 | |
| cg0022217 | 0.100598 | 0.50402 | 2.861524 | 0.011661 | 0.224708 | -4.00091 | 0.554319 | 0.453721 | -0.1006 | 7 | 55584235 | R | II | VOPP1 | Body | opensea | Body-open | | rs1884362 26 | |
| cg0894579 | 0.101324 | 0.51828 | 2.477848 | 0.025271 | 0.228521 | -4.74216 | 0.568942 | 0.467618 | -0.10132 | 13 | 27571183 | R | II | | IGR | opensea | IGR-opense | | rs5447545 2 | |
| cg0126496 | 0.100595 | 0.486771 | 2.60764 | 0.019503 | 0.225391 | -4.49586 | 0.537069 | 0.436474 | -0.10059 | 11 | 1.24E+08 | F | II | OR10G4 | TSS1500 | opensea | TSS1500-o | | rs1410213 1;20;26;31;38 | |
| cg2068792 | 0.102028 | 0.47973 | 2.476113 | 0.025358 | 0.228595 | -4.74542 | 0.530744 | 0.428715 | -0.10203 | 8 | 88950581 | R | II | | IGR | opensea | IGR-opense | | rs5694518 1 | |
| cg2124141 | 0.115261 | 0.532895 | 2.474533 | 0.025438 | 0.228719 | -4.74839 | 0.590526 | 0.475265 | -0.11526 | 2 | 43267816 | F | II | | IGR | opensea | IGR-opense | | rs5308796 9;20;42 | |
| cg2215286 | 0.101039 | 0.564608 | 2.473782 | 0.025476 | 0.228719 | -4.7498 | 0.615128 | 0.514089 | -0.10104 | 22 | 24596179 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1776812 | 0.100592 | 0.54866 | 2.519242 | 0.023275 | 0.226774 | -4.66417 | 0.598956 | 0.498364 | -0.10059 | 6 | 56663406 | R | II | DST | Body | opensea | Body-open | | rs1923125 36;30;14;1 | |
| cg1084156 | 0.121482 | 0.234001 | 2.472464 | 0.025542 | 0.228755 | -4.75227 | 0.294742 | 0.17326 | -0.12148 | 9 | 83280018 | R | II | | IGR | opensea | IGR-opense | | rs1137906 48;42;2;1 | |
| cg1110058 | 0.100586 | 0.617867 | 3.056744 | 0.007813 | 0.224708 | -3.61092 | 0.66816 | 0.567575 | -0.10059 | 6 | 75910011 | R | II | COL12A1 | Body | shore | Body-shore | chr6:7591 | rs601846;r 50;42;15;2 | |
| cg0982740 | 0.101301 | 0.455575 | 2.472073 | 0.025562 | 0.228778 | -4.753 | 0.506225 | 0.404924 | -0.1013 | 3 | 1.95E+08 | F | II | | IGR | opensea | IGR-opense | | rs7788498 17;48 | |
| cg0232395 | 0.100582 | 0.538828 | 3.115809 | 0.006917 | 0.224708 | -3.49165 | 0.589119 | 0.488537 | -0.10058 | 8 | 1.31E+08 | R | II | FAM49B | 5'UTR | opensea | 5'UTR-open | | rs7455088 2;1 | |
| cg1973177 | 0.100567 | 0.498155 | 3.014498 | 0.008523 | 0.224708 | -3.69589 | 0.548438 | 0.447871 | -0.10057 | 11 | 43942574 | R | II | ALKBH3-AS | TSS200 | opensea | TSS200-ope | | rs3497181 45 | |
| cg2701014 | 0.138697 | 0.3374 | 2.464886 | 0.025929 | 0.229113 | -4.76647 | 0.406749 | 0.268052 | -0.1387 | 22 | 43259569 | F | II | | IGR | opensea | IGR-opense | | rs1164783 12;27;46 | |
| cg0355382 | 0.100778 | 0.579405 | 2.463733 | 0.025988 | 0.229144 | -4.76864 | 0.629794 | 0.529016 | -0.10078 | 3 | 1.74E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1740 | rs7964296 0 | |
| cg2229688 | 0.100565 | 0.423614 | 2.646922 | 0.018022 | 0.225076 | -4.42034 | 0.473897 | 0.373332 | -0.10057 | 3 | 1.21E+08 | R | II | ARGFX | 5'UTR | opensea | 5'UTR-open | | rs5382121 49;47;22;1 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0122137 | 0.100555 | 0.443518 | 2.48271 | 0.025028 | 0.228322 | -4.73303 | 0.493795 | 0.39324 | -0.10056 | 17 | 1263732 | F | II | YWHAE | Body | opensea | Body-opens | | rs7863643 27 |
| cg1030706 | 0.10052 | 0.507334 | 3.164898 | 0.00625 | 0.224708 | -3.39214 | 0.557594 | 0.457074 | -0.10052 | 10 | 64144210 | R | II | ZNF365 | Body | opensea | Body-opens | | rs7075904 30;2 |
| cg2729446 | 0.100512 | 0.558112 | 2.767295 | 0.014128 | 0.224708 | -4.18642 | 0.608368 | 0.507856 | -0.10051 | 3 | 29738423 | R | II | RBMS3 | Body | opensea | Body-opens | | |
| cg2268619 | 0.110159 | 0.715943 | 2.456184 | 0.02638 | 0.229509 | -4.78276 | 0.771023 | 0.660863 | -0.11016 | 18 | 68088916 | R | II | | IGR | opensea | IGR-opense | | rs1852640 1 |
| cg1268735 | 0.10051 | 0.572498 | 2.704108 | 0.016058 | 0.224896 | -4.30967 | 0.622753 | 0.522243 | -0.10051 | 3 | 6937063 | R | II | GRM7-AS2 | TSS1500 | opensea | TSS1500-op | | rs5580675 21 |
| cg0874315 | 0.100493 | 0.694856 | 2.929575 | 0.010146 | 0.224708 | -3.86576 | 0.745102 | 0.644609 | -0.10049 | 22 | 36346442 | F | II | RBFOX2 | Body | opensea | Body-opens | | |
| cg0555504 | 0.100439 | 0.626038 | 2.453743 | 0.026507 | 0.229527 | -4.78733 | 0.676257 | 0.575819 | -0.10044 | 1 | 68000532 | R | II | | IGR | opensea | IGR-opense | | rs1379622 46;24;2 |
| cg0369878 | 0.100491 | 0.306194 | 4.689555 | 0.000273 | 0.224708 | -0.24878 | 0.35644 | 0.255949 | -0.10049 | 1 | 35135423 | F | II | MIR552 | TSS200 | opensea | TSS200-ope | | rs5670512 0;14;23 |
| cg1919298 | 0.174679 | 0.601854 | 2.452023 | 0.026598 | 0.229569 | -4.79055 | 0.689194 | 0.514514 | -0.17468 | 15 | 57664704 | R | II | | IGR | shelf | IGR-shelf | chr15:5766 | rs5378901 40;2 |
| cg1705267 | 0.1509 | 0.64989 | 2.450891 | 0.026657 | 0.229647 | -4.79266 | 0.725339 | 0.57444 | -0.1509 | 2 | 3827356 | R | II | | IGR | opensea | IGR-opense | | rs5371643 2 |
| cg0859559 | 0.100215 | 0.470116 | 2.447192 | 0.026853 | 0.229795 | -4.79957 | 0.520223 | 0.420008 | -0.10021 | 7 | 16780162 | F | II | | IGR | opensea | IGR-opense | | rs1861773 0;45 |
| cg2673695 | 0.100479 | 0.653403 | 2.678967 | 0.016895 | 0.224901 | -4.35843 | 0.703642 | 0.603164 | -0.10048 | 11 | 34645679 | R | II | EHF | 5'UTR | opensea | 5'UTR-open | | rs1729217 45;32;14 |
| cg2010709 | 0.130699 | 0.898343 | 2.442943 | 0.02708 | 0.22984 | -4.8075 | 0.963692 | 0.832994 | -0.1307 | 1 | 1.73E+08 | F | II | | IGR | opensea | IGR-opense | | rs7973936 0 |
| cg2009824 | 0.100473 | 0.522463 | 4.066552 | 0.000967 | 0.224708 | -1.53172 | 0.5727 | 0.472227 | -0.10047 | 13 | 74702420 | R | II | KLF12 | 5'UTR | opensea | 5'UTR-open | | rs5403055 1 |
| cg0282965 | 0.106069 | 0.617275 | 2.439107 | 0.027286 | 0.229999 | -4.81466 | 0.670309 | 0.56424 | -0.10607 | 1 | 2.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs1158685 1 |
| cg2358011 | 0.101195 | 0.48149 | 2.437373 | 0.02738 | 0.230067 | -4.81789 | 0.532088 | 0.430893 | -0.1012 | 12 | 68511699 | F | II | | IGR | opensea | IGR-opense | | rs1460827 0 |
| cg0713665 | 0.117984 | 0.559276 | 2.434067 | 0.027559 | 0.230189 | -4.82405 | 0.618269 | 0.500284 | -0.11798 | 15 | 39627235 | F | II | | IGR | opensea | IGR-opense | | rs1135652 0;1 |
| cg2191751 | 0.104571 | 0.473008 | 2.43342 | 0.027594 | 0.230264 | -4.82526 | 0.525294 | 0.420723 | -0.10457 | 11 | 85887699 | F | II | | IGR | opensea | IGR-opense | | |
| cg1432062 | 0.100461 | 0.567602 | 4.422523 | 0.000467 | 0.224708 | -0.79601 | 0.617833 | 0.517372 | -0.10046 | 19 | 54384186 | F | II | PRKCG | TSS1500 | shore | TSS1500-sh | chr19:5438 | |
| cg1905227 | 0.10046 | 0.770988 | 4.260666 | 0.00065 | 0.224708 | -1.12986 | 0.821218 | 0.720758 | -0.10046 | 2 | 3704530 | R | I | ALLC | TSS1500 | opensea | TSS1500-op | | rs1468647 31;1 |
| cg0468108 | 0.100456 | 0.530952 | 2.861233 | 0.011668 | 0.224708 | -4.00148 | 0.58118 | 0.480724 | -0.10046 | 18 | 52918079 | F | II | TCF4 | Body | opensea | Body-opens | | rs5684479 0 |
| cg0749443 | 0.100447 | 0.446218 | 4.002101 | 0.001104 | 0.224708 | -1.66537 | 0.496441 | 0.395995 | -0.10045 | 10 | 52287340 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5715778 0 |
| cg1334094 | 0.100429 | 0.411567 | 3.448948 | 0.00347 | 0.224708 | -2.81087 | 0.461781 | 0.361352 | -0.10043 | 12 | 40229749 | F | II | SLC2A13 | Body | opensea | Body-opens | | rs5408403 4 |
| cg1325220 | 0.100428 | 0.622388 | 3.156188 | 0.006364 | 0.224708 | -3.40982 | 0.672602 | 0.572174 | -0.10043 | 8 | 16970768 | R | II | EFHA2 | Body | opensea | Body-opens | | rs5663466 33;7 |
| cg1981380 | 0.100417 | 0.714054 | 2.703319 | 0.016084 | 0.224896 | -4.3112 | 0.764263 | 0.663846 | -0.10042 | 2 | 2.19E+08 | F | II | DIRC3 | Body | opensea | Body-opens | | rs1869073 0;8 |
| cg2282782 | 0.100367 | 0.513163 | 3.243625 | 0.005311 | 0.224708 | -3.2319 | 0.563346 | 0.462979 | -0.10037 | 2 | 1.98E+08 | F | II | HSPE1 | Body | shelf | Body-shelf | chr2:19838 | rs5560777 0;15;18;25 |
| cg0385095 | 0.100365 | 0.531174 | 2.853341 | 0.011858 | 0.224708 | -4.01709 | 0.581357 | 0.480991 | -0.10037 | 20 | 16713359 | F | II | SNRPB2 | Body | shelf | Body-shelf | chr20:167 | rs5377098 29;47 |
| cg1557362 | 0.100353 | 0.5768 | 2.720373 | 0.015538 | 0.224896 | -4.27804 | 0.626977 | 0.526624 | -0.10035 | 8 | 57871479 | F | II | IMPAD1 | 3'UTR | opensea | 3'UTR-open | | rs1132231 1;28 |
| cg1549354 | 0.100343 | 0.705918 | 3.547206 | 0.00283 | 0.224708 | -2.60819 | 0.756089 | 0.655746 | -0.10034 | 4 | 1.85E+08 | R | II | LOC10272 | Body | opensea | Body-opens | | rs5431581 42;15;1 |
| cg0111875 | 0.100331 | 0.681314 | 3.221276 | 0.005563 | 0.224708 | -3.27746 | 0.73148 | 0.631149 | -0.10033 | 3 | 31771462 | F | II | OSBPL10 | Body | opensea | Body-opens | | rs1414950 16 |
| cg1248612 | 0.100351 | 0.485235 | 2.407314 | 0.029052 | 0.231638 | -4.87378 | 0.53541 | 0.435059 | -0.10035 | 8 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs7957746 1 |
| cg0530787 | 0.114737 | 0.847473 | 2.40416 | 0.029233 | 0.231766 | -4.87962 | 0.904842 | 0.790104 | -0.11474 | 1 | 6059070 | F | I | | IGR | opensea | IGR-opense | | rs1830352 51 |
| cg1359723 | 0.100323 | 0.696019 | 3.220081 | 0.005577 | 0.224708 | -3.2799 | 0.74618 | 0.645858 | -0.10032 | 12 | 10458222 | F | II | KLRD1 | 5'UTR | opensea | 5'UTR-open | | rs5387291 0 |
| cg0730179 | 0.100314 | 0.391 | 2.712896 | 0.015775 | 0.224896 | -4.29259 | 0.441157 | 0.340843 | -0.10031 | 3 | 1.68E+08 | F | II | LINC01330 | Body | opensea | Body-opens | | rs1491570 0;1;51 |
| cg0822459 | 0.108862 | 0.557247 | 2.394265 | 0.029808 | 0.23241 | -4.89794 | 0.611678 | 0.502816 | -0.10886 | 16 | 27074124 | R | II | | IGR | opensea | IGR-opense | | rs5380550 39;34;31;29;27;18;14 |
| cg1709684 | 0.116461 | 0.666587 | 2.392857 | 0.029891 | 0.232466 | -4.90054 | 0.724817 | 0.608356 | -0.11646 | 17 | 41487428 | F | II | | IGR | opensea | IGR-opense | | rs1425243 1;11;23;29;46 |
| cg1725378 | 0.100311 | 0.646783 | 2.741535 | 0.014886 | 0.224708 | -4.23678 | 0.696938 | 0.596628 | -0.10031 | 8 | 67587258 | F | II | C8orf44 | TSS1500 | opensea | TSS1500-op | | rs5315788 0;1;3;9 |
| cg1354600 | 0.10031 | 0.561478 | 2.839951 | 0.012186 | 0.224708 | -4.04355 | 0.611633 | 0.511324 | -0.10031 | 1 | 1.93E+08 | F | II | LINC01031 | Body | opensea | Body-opens | | |
| cg2152610 | 0.1003 | 0.496658 | 2.83814 | 0.012231 | 0.224708 | -4.04712 | 0.546808 | 0.446508 | -0.1003 | 15 | 32392647 | R | II | CHRNA7 | Body | opensea | Body-opens | | |
| cg1606165 | 0.100294 | 0.504426 | 2.761825 | 0.014286 | 0.224708 | -4.19713 | 0.554573 | 0.454279 | -0.10029 | 11 | 1.15E+08 | R | II | CADM1 | Body | opensea | Body-opens | | rs7357213 51;34;11;1 |
| cg0861205 | 0.100104 | 0.558995 | 2.379156 | 0.030707 | 0.233304 | -4.92584 | 0.609047 | 0.508944 | -0.1001 | 7 | 35595790 | R | II | | IGR | opensea | IGR-opense | | rs5523128 45;16;11;5 |
| cg0138587 | 0.101894 | 0.496215 | 2.377341 | 0.030816 | 0.233364 | -4.92919 | 0.547162 | 0.445268 | -0.10189 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs7378434 8 |
| cg0329333 | 0.100286 | 0.609027 | 3.160588 | 0.006306 | 0.224708 | -3.40089 | 0.65917 | 0.558884 | -0.10029 | 2 | 42941234 | R | II | MTA3 | Body | opensea | Body-opens | | rs1153952 46;33;31;23 |
| cg1293355 | 0.111585 | 0.724231 | 2.372851 | 0.031089 | 0.233614 | -4.93746 | 0.780023 | 0.668438 | -0.11158 | 8 | 24052851 | R | II | | IGR | opensea | IGR-opense | | rs5430231 44;1 |
| cg1229485 | 0.100285 | 0.688546 | 2.525165 | 0.023002 | 0.226614 | -4.65296 | 0.738689 | 0.638404 | -0.10028 | 15 | 60818560 | F | II | RORA-AS1 | Body | opensea | Body-opens | | |
| cg1793680 | 0.100274 | 0.57259 | 3.004096 | 0.008707 | 0.224708 | -3.71676 | 0.622727 | 0.522453 | -0.10027 | 14 | 52334855 | F | II | GNG2 | 5'UTR | opensea | 5'UTR-open | | rs5736511 1;5 |
| cg2204645 | 0.100273 | 0.534722 | 2.973986 | 0.009262 | 0.224708 | -3.77709 | 0.584858 | 0.484585 | -0.10027 | 10 | 99052786 | R | II | ARHGAP19 | TSS1500 | shore | TSS1500-sh | chr10:9905 | rs1401327 20;19;18;13 |
| cg1825242 | 0.10027 | 0.621848 | 3.081057 | 0.007431 | 0.224708 | -3.56189 | 0.671983 | 0.571713 | -0.10027 | 3 | 13862475 | F | II | WNT7A | Body | shore | Body-shore | chr3:1386( | rs5539726 0;20;43;49 |
| cg0606759 | 0.100249 | 0.613652 | 2.975862 | 0.009227 | 0.224708 | -3.77333 | 0.663776 | 0.563527 | -0.10025 | 4 | 1.77E+08 | R | II | GPM6A | 5'UTR | shelf | 5'UTR-shelf | chr4:1769 | rs5297090 2 |
| cg0510677 | 0.100229 | 0.529808 | 2.712072 | 0.015801 | 0.224896 | -4.29419 | 0.579922 | 0.479693 | -0.10023 | 8 | 97598420 | R | II | SDC2 | Body | opensea | Body-opens | | rs3721959 2 |
| cg1680170 | 0.100225 | 0.426023 | 2.699002 | 0.016225 | 0.224896 | -4.31958 | 0.476135 | 0.37591 | -0.10022 | 5 | 64110063 | R | II | CWC27 | Body | opensea | Body-opens | | rs1483034 23 |
| cg1094096 | 0.127666 | 0.496816 | 2.345718 | 0.032786 | 0.234969 | -4.98731 | 0.560649 | 0.432983 | -0.12767 | 6 | 80176276 | F | II | | IGR | opensea | IGR-opense | | rs1833317 1;13;29 |
| cg2670203 | 0.211012 | 0.614177 | 2.34424 | 0.032881 | 0.235116 | -4.99001 | 0.719683 | 0.508671 | -0.21101 | 16 | 66170991 | R | II | | IGR | opensea | IGR-opense | | rs1168228 49;41;2;1 |
| cg1441368 | 0.133433 | 0.864206 | 2.339916 | 0.033161 | 0.23536 | -4.99793 | 0.930923 | 0.79749 | -0.13343 | 7 | 2539342 | F | II | | IGR | opensea | IGR-opense | | rs5426617 1;3;14;28;29;47 |
| cg1250394 | 0.101174 | 0.383853 | 2.339033 | 0.033218 | 0.2354 | -4.99954 | 0.43444 | 0.333266 | -0.10117 | 9 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1252039 33;44 |
| cg1156488 | 0.100224 | 0.429094 | 2.786811 | 0.013579 | 0.224708 | -4.14816 | 0.479207 | 0.378982 | -0.10022 | 9 | 71040282 | R | II | PGM5 | Body | opensea | Body-opens | | |
| cg1638940 | 0.109119 | 0.642178 | 2.333288 | 0.033593 | 0.23574 | -5.01005 | 0.696737 | 0.587618 | -0.10912 | 1 | 2.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs5387943 1 |
| cg0887603 | 0.109494 | 0.630283 | 2.328215 | 0.033927 | 0.236137 | -5.01932 | 0.68503 | 0.575536 | -0.10949 | 1 | 14342668 | F | II | | IGR | opensea | IGR-opense | | rs1922173 0;10;27;36;50 |
| cg1416913 | 0.107227 | 0.429487 | 2.326166 | 0.034063 | 0.236365 | -5.02306 | 0.483101 | 0.375873 | -0.10723 | 6 | 14749088 | R | II | | IGR | opensea | IGR-opense | | rs7745856 21;2 |
| cg0931449 | 0.100224 | 0.49088 | 3.483312 | 0.003232 | 0.224708 | -2.74006 | 0.540992 | 0.440768 | -0.10022 | 7 | 90454617 | F | II | CDK14 | Body | opensea | Body-opens | | rs5328641 0;28 |
| cg1964310 | 0.113755 | 0.542036 | 2.319841 | 0.034486 | 0.236742 | -5.03459 | 0.598914 | 0.485158 | -0.11376 | 6 | 1.61E+08 | R | II | | IGR | opensea | IGR-opense | | rs5481757 7;1 |
| cg2371951 | 0.132174 | 0.44079 | 2.316364 | 0.034721 | 0.236957 | -5.04092 | 0.506877 | 0.374703 | -0.13217 | 2 | 1.03E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:1028( | rs5478316 48;29;17;13;2;1 |
| cg2257639 | 0.100218 | 0.579687 | 2.876038 | 0.01132 | 0.224708 | -3.97216 | 0.629796 | 0.529578 | -0.10022 | 13 | 24042599 | F | II | LINC00327 | TSS1500 | shore | TSS1500-sh | chr13:240 | |
| cg1339147 | 0.100848 | 0.593496 | 2.311477 | 0.035053 | 0.237251 | -5.04982 | 0.64392 | 0.543072 | -0.10085 | 4 | 1.84E+08 | R | II | | IGR | opensea | IGR-opense | | rs2309866 42;35;7;1 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1945934 | 0.100212 | 0.56016 | 3.641873 | 0.002326 | 0.224708 | -2.41241 | 0.610267 | 0.510054 | -0.10021 | 12 | 2513226 | R | II | CACNA1C | Body | opensea | Body-open: | | rs1880294 2 |
| cg1515424 | 0.123426 | 0.266488 | 2.302841 | 0.035647 | 0.237795 | -5.06551 | 0.328201 | 0.204775 | -0.12343 | 17 | 6656507 | F | II | | IGR | opensea | IGR-opense | | rs7213948 8;9;33 |
| cg2018127 | 0.100197 | 0.602333 | 3.186513 | 0.005977 | 0.224708 | -3.34822 | 0.652432 | 0.552235 | -0.1002 | 7 | 20147323 | F | II | LOC101927 | Body | opensea | Body-open: | | rs5633761 14;18 |
| cg2680832 | 0.115146 | 0.70119 | 2.295053 | 0.036192 | 0.23844 | -5.07965 | 0.758763 | 0.643617 | -0.11515 | 14 | 70321034 | R | II | | IGR | shelf | IGR-shelf | chr14:703: | rs5607009 47;15;1 |
| cg2343324 | 0.10018 | 0.485186 | 2.880145 | 0.011226 | 0.224708 | -3.96402 | 0.535276 | 0.435096 | -0.10018 | 2 | 2.17E+08 | R | II | XRCC5 | Body | shelf | Body-shelf | chr2:2169 | rs5617097 37;35 |
| cg1621849 | 0.102653 | 0.517023 | 2.291105 | 0.03647 | 0.238731 | -5.0868 | 0.568349 | 0.465697 | -0.10265 | 11 | 34426751 | F | II | | IGR | opensea | IGR-opense | | rs1484368 1;12;26;28;35;46;51 |
| cg0263872 | 0.100179 | 0.498309 | 2.936172 | 0.01001 | 0.224708 | -3.85261 | 0.548398 | 0.44822 | -0.10018 | 10 | 52154700 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs715675 49 |
| cg1238085 | 0.100175 | 0.695401 | 2.681063 | 0.016823 | 0.224901 | -4.35437 | 0.745488 | 0.645313 | -0.10018 | 17 | 45907760 | F | II | LRRC46 | TSS1500 | shore | TSS1500-sh | chr17:459( | |
| cg1861800 | 0.100463 | 0.656826 | 2.283579 | 0.037007 | 0.239397 | -5.10042 | 0.707058 | 0.606595 | -0.10046 | 5 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs1851255 38 |
| cg0713690 | 0.105108 | 0.4978 | 2.276081 | 0.03755 | 0.23989 | -5.11397 | 0.550354 | 0.445246 | -0.10511 | 11 | 71278894 | F | II | | IGR | opensea | IGR-opense | | rs5454114 12;21 |
| cg0409211 | 0.106104 | 0.691665 | 2.272002 | 0.037848 | 0.240198 | -5.12133 | 0.744716 | 0.638613 | -0.1061 | 11 | 58728533 | F | II | | IGR | shelf | IGR-shelf | chr11:587: | rs1510819 0;8 |
| cg0141840 | 0.100171 | 0.67513 | 3.60687 | 0.002501 | 0.224708 | -2.48485 | 0.725216 | 0.625045 | -0.10017 | 2 | 1.79E+08 | R | II | PDE11A | Body | opensea | Body-open: | | rs1436984 37;35;17;1 |
| cg1905532 | 0.100154 | 0.445159 | 2.94564 | 0.009817 | 0.224708 | -3.83373 | 0.495236 | 0.395082 | -0.10015 | 17 | 39341434 | F | II | KRTAP4-1 | TSS1500 | opensea | TSS1500-o | | rs1244931 39 |
| cg1525482 | 0.102947 | 0.676724 | 2.247566 | 0.039681 | 0.242277 | -5.1653 | 0.728197 | 0.62525 | -0.10295 | 7 | 564137 | R | II | | IGR | shore | IGR-shore | chr7:5566: | rs9801466 43;40;39;1 |
| cg1457281 | 0.100149 | 0.573677 | 2.792662 | 0.013418 | 0.224708 | -4.13667 | 0.623751 | 0.523602 | -0.10015 | 12 | 23713608 | R | II | SOX5 | Body | opensea | Body-open: | | rs1151929 33;32;18;6 |
| cg1894678 | 0.131888 | 0.710736 | 2.23815 | 0.04041 | 0.243205 | -5.18218 | 0.77668 | 0.644792 | -0.13189 | 12 | 1.33E+08 | F | II | | IGR | shore | IGR-shore | chr12:133( | rs5487764 1;36;37;40 |
| cg1081722 | 0.141147 | 0.871942 | 2.233489 | 0.040775 | 0.243666 | -5.19052 | 0.942515 | 0.801368 | -0.14115 | 8 | 1.45E+08 | F | II | | IGR | shore | IGR-shore | chr8:1449( | rs1454361 0;8;12;26;38 |
| cg1382045 | 0.100144 | 0.739846 | 2.716413 | 0.015663 | 0.224896 | -4.28574 | 0.789918 | 0.689774 | -0.10014 | 22 | 49970140 | F | II | C22orf34 | Body | opensea | Body-open: | | rs1412495 51 |
| cg0216388 | 0.107246 | 0.454836 | 2.226593 | 0.04132 | 0.244388 | -5.20284 | 0.50846 | 0.401213 | -0.10725 | 6 | 27729346 | R | I | | IGR | opensea | IGR-opense | | rs5435538 45;28;16 |
| cg1206492 | 0.100133 | 0.752165 | 3.621753 | 0.002425 | 0.224708 | -2.45405 | 0.802232 | 0.702099 | -0.10013 | 10 | 82115447 | F | II | DYDC2 | TSS1500 | shore | TSS1500-sh | chr10:821: | |
| cg1750760 | 0.102164 | 0.601518 | 2.215662 | 0.042199 | 0.245371 | -5.22234 | 0.6526 | 0.550436 | -0.10216 | 1 | 68113012 | F | II | | IGR | opensea | IGR-opense | | rs1157257 0;5;13;15;38;46 |
| cg0838162 | 0.108409 | 0.431924 | 2.214625 | 0.042284 | 0.245513 | -5.22418 | 0.486128 | 0.377719 | -0.10841 | 13 | 24062873 | R | II | | IGR | opensea | IGR-opense | | rs7344900 41;40;21 |
| cg0004479 | 0.108813 | 0.323207 | 2.19708 | 0.043734 | 0.247331 | -5.25536 | 0.377613 | 0.2688 | -0.10881 | 1 | 1.47E+08 | R | I | | IGR | island | IGR-island | chr1:1465: | rs1833455 37;15;1 |
| cg0676195 | 0.100107 | 0.643671 | 3.032117 | 0.008219 | 0.224708 | -3.66048 | 0.693725 | 0.593618 | -0.10011 | 2 | 47453931 | R | II | LOC101927 | Body | opensea | Body-open: | | rs5328998 20;1 |
| cg2653322 | 0.100141 | 0.537706 | 2.193544 | 0.044032 | 0.247667 | -5.26163 | 0.587776 | 0.487635 | -0.10014 | 3 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs4336093 17 |
| cg0633262 | 0.100102 | 0.683925 | 2.574738 | 0.020833 | 0.225654 | -4.55877 | 0.733976 | 0.633874 | -0.1001 | 4 | 40518663 | F | II | RBM47 | TSS1500 | opensea | TSS1500-o | | rs1129080 6;44 |
| cg1629641 | 0.100084 | 0.44907 | 2.782294 | 0.013704 | 0.224708 | -4.15702 | 0.499113 | 0.399028 | -0.10008 | 8 | 1.26E+08 | F | II | NSMCE2 | Body | opensea | Body-open: | | rs7973453 0;1;22;29 |
| cg0425559 | 0.112392 | 0.69877 | 2.189304 | 0.044391 | 0.248182 | -5.26914 | 0.754966 | 0.642574 | -0.11239 | 15 | 27926475 | R | II | | IGR | opensea | IGR-opense | | rs5671078 24;2 |
| cg1152502 | 0.100072 | 0.496825 | 3.137242 | 0.006618 | 0.224708 | -3.44824 | 0.54686 | 0.446789 | -0.10007 | 20 | 17674233 | F | II | BANF2 | TSS200 | opensea | TSS200-ope | | rs5750991 0;28;41 |
| cg0403438 | 0.109044 | 0.620493 | 2.185727 | 0.044696 | 0.248582 | -5.27547 | 0.675015 | 0.565971 | -0.10904 | 2 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs5602524 3;14;30;48 |
| cg0963481 | 0.100071 | 0.589097 | 2.977094 | 0.009204 | 0.224708 | -3.77087 | 0.639133 | 0.539061 | -0.10007 | 10 | 1.29E+08 | R | II | DOCK1 | Body | opensea | Body-open: | | rs5451282 41;22;1 |
| cg2489881 | 0.136633 | 0.287213 | 2.179561 | 0.045227 | 0.249201 | -5.28637 | 0.355529 | 0.218896 | -0.13663 | 10 | 98504248 | R | II | | IGR | opensea | IGR-opense | | rs5389246 29;17;9 |
| cg2286841 | 0.100068 | 0.496286 | 3.057258 | 0.007805 | 0.224708 | -3.60988 | 0.54632 | 0.446253 | -0.10007 | 4 | 15987764 | F | II | PROM1 | Body | opensea | Body-open: | | rs7688123 43 |
| cg2304713 | 0.102121 | 0.451251 | 2.169832 | 0.046077 | 0.250246 | -5.30353 | 0.502312 | 0.40019 | -0.10212 | 3 | 24089778 | R | II | | IGR | opensea | IGR-opense | | rs1497249 34;29;18 |
| cg2340240 | 0.100062 | 0.538171 | 3.64024 | 0.002334 | 0.224708 | -2.41579 | 0.588202 | 0.48814 | -0.10006 | 15 | 86651355 | R | II | LINC01584 | Body | opensea | Body-open: | | rs5322039 41;16 |
| cg2715759 | 0.116566 | 0.757208 | 2.163309 | 0.046655 | 0.251007 | -5.31502 | 0.815491 | 0.698925 | -0.11657 | 10 | 70974085 | F | II | | IGR | opensea | IGR-opense | | rs1460820 0;1;25 |
| cg1800797 | 0.100058 | 0.464132 | 2.870275 | 0.011455 | 0.224708 | -3.98358 | 0.514161 | 0.414103 | -0.10006 | 19 | 38918129 | F | II | RASGRP4 | TSS1500 | opensea | TSS1500-o | | rs1401830 0;6;26;28;34 |
| cg0118875 | 0.100054 | 0.53237 | 2.807647 | 0.013015 | 0.224708 | -4.10722 | 0.582397 | 0.482343 | -0.10005 | 20 | 47897068 | R | II | C20orf199 | Body | shore | Body-shore | chr20:478! | |
| cg0586476 | 0.100049 | 0.713181 | 2.782561 | 0.013696 | 0.224708 | -4.1565 | 0.763206 | 0.663156 | -0.10005 | 19 | 49994115 | F | II | RPL13A | Body | shelf | Body-shelf | chr19:499! | rs1495076 0;1;23 |
| cg2340567 | 0.100016 | 0.5266 | 3.08155 | 0.007424 | 0.224708 | -3.56089 | 0.576608 | 0.476592 | -0.10002 | 20 | 14690830 | F | II | MACROD2 | Body | opensea | Body-open: | | rs5441572 18;22;34 |
| cg1984494 | 0.100016 | 0.667005 | 3.285311 | 0.004872 | 0.224708 | -3.14675 | 0.717013 | 0.616997 | -0.10002 | 2 | 2.01E+08 | R | II | TYW5 | Body | opensea | Body-open: | | |
| cg0681348 | 0.100002 | 0.619946 | 2.769134 | 0.014075 | 0.224708 | -4.18282 | 0.669947 | 0.569945 | -0.1 | 20 | 20499757 | R | II | RALGAPA2 | Body | opensea | Body-open: | | rs5620859 46;7;1 |

SUPPLEMENTAL TABLE 2 - MALE HYPER

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | Normal_m | LBP_m_AV | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2609465 | -0.27021 | 0.76799 | -7.80197 | 1.04E-06 | 0.219728 | 5.531949 | 0.632885 | 0.903096 | 0.27021 | 2 | 1802045 | F | II | MYT1L | Body | island | Body-islanc | chr2:1801( | | |
| cg2186235 | -0.24367 | 0.70329 | -7.42036 | 1.92E-06 | 0.236012 | 4.896731 | 0.581455 | 0.825126 | 0.243671 | 2 | 1801628 | R | II | MYT1L | Body | island | Body-islanc | chr2:1801( | | |
| cg2455064 | -0.22595 | 0.324118 | -6.00285 | 2.24E-05 | 0.500061 | 2.364543 | 0.211144 | 0.437093 | 0.225949 | 17 | 30846204 | R | I | MYO1D | Body | island | Body-islanc | chr17:308( | rs3734564 | 30 |
| cg1182153 | -0.24933 | 0.655578 | -4.16524 | 0.0008 | 0.840963 | -1.28616 | 0.530912 | 0.780243 | 0.249331 | 12 | 1.32E+08 | R | II | ADGRD1 | Body | shelf | Body-shelf | chr12:1315 | rs5314475 | 30;15;2;1 |
| cg2618467 | -0.20318 | 0.683798 | -4.14433 | 0.000835 | 0.840963 | -1.3293 | 0.582209 | 0.785387 | 0.203177 | 12 | 1.32E+08 | R | II | ADGRD1 | Body | shelf | Body-shelf | chr12:1315 | rs1439058 | 40;39 |
| cg2577241 | -0.21462 | 0.632122 | -4.05707 | 0.000998 | 0.840963 | -1.50948 | 0.524811 | 0.739433 | 0.214622 | 12 | 1.32E+08 | R | II | GPR133 | Body | shelf | Body-shelf | chr12:1315 | rs5406165 | 51;25;24;9;4 |
| cg0808954 | -0.2551 | 0.415005 | -3.96754 | 0.001199 | 0.840963 | -1.69451 | 0.287453 | 0.542558 | 0.255105 | 4 | 1607111 | R | II | | IGR | opensea | IGR-opense | | rs1901245 | 20 |
| cg1356292 | -0.21294 | 0.612125 | -3.91707 | 0.00133 | 0.840963 | -1.79884 | 0.505652 | 0.718597 | 0.212944 | 10 | 7294271 | R | II | SFMBT2 | Body | opensea | Body-opens | | | |
| cg2720775 | -0.27236 | 0.376835 | -3.81065 | 0.001656 | 0.840963 | -2.01889 | 0.240653 | 0.513018 | 0.272365 | 4 | 1607291 | R | I | | IGR | opensea | IGR-opense | | rs5720609 | 39;38;37 |
| cg1632279 | -0.21741 | 0.544374 | -3.03254 | 0.008259 | 0.840963 | -3.61123 | 0.435671 | 0.653077 | 0.217406 | 1 | 1.2E+08 | F | II | ZNF697 | 3'UTR | island | 3'UTR-islan | chr1:1201( | rs2000748 | 0;1 |
| cg0289131 | -0.24202 | 0.615523 | -2.9715 | 0.00936 | 0.840963 | -3.73334 | 0.494513 | 0.736533 | 0.24202 | 5 | 1.8E+08 | F | II | GFPT2 | Body | island | Body-islanc | chr5:1797( | rs1142280 | 11 |
| cg2067340 | -0.22808 | 0.628862 | -2.94568 | 0.009868 | 0.840963 | -3.7848 | 0.514821 | 0.742903 | 0.228082 | 10 | 31040939 | R | II | | IGR | opensea | IGR-opense | | rs5273292 | 42;1 |
| cg1681468 | -0.32424 | 0.420125 | -2.88217 | 0.011235 | 0.840963 | -3.91087 | 0.258007 | 0.582243 | 0.324236 | 8 | 91681699 | F | II | | IGR | opensea | IGR-opense | | rs5893130 | 1;1 |
| cg2670892 | -0.28184 | 0.522801 | -2.80607 | 0.013117 | 0.840963 | -4.06082 | 0.381881 | 0.663721 | 0.28184 | 10 | 13826317 | R | II | FRMD4A | Body | opensea | Body-opens | | rs5739272 | 2;1 |
| cg2546085 | -0.21144 | 0.374568 | -2.74317 | 0.014901 | 0.840963 | -4.18382 | 0.26885 | 0.480286 | 0.211436 | 1 | 28764551 | R | II | PHACTR4 | TSS200 | opensea | TSS200-ope | | rs3571614 | 1 |
| cg1553264 | -0.21135 | 0.471942 | -2.70473 | 0.016105 | 0.840963 | -4.25852 | 0.366266 | 0.577617 | 0.211351 | 12 | 1.3E+08 | R | I | | IGR | opensea | IGR-opense | | rs5299542 | 40;37;21;1 |
| cg1903477 | -0.20396 | 0.549801 | -2.69362 | 0.01647 | 0.840963 | -4.28004 | 0.447822 | 0.651779 | 0.203957 | 8 | 8641253 | R | II | | IGR | opensea | IGR-opense | | rs5659688 | 51;47;28;11;1 |
| cg2596039 | -0.21215 | 0.312479 | -2.24203 | 0.040208 | 0.840963 | -5.12365 | 0.206404 | 0.418554 | 0.21215 | 8 | 9106559 | F | II | | IGR | opensea | IGR-opense | | rs1115425 | 10;24 |

SUPPLEMENTAL TABLE 2 - MALE HYPO

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | Normal_m | LBP_m_AV | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1271720 | 0.332595 | 0.285098 | 7.073406 | 3.42E-06 | 0.279231 | 4.302223 | 0.451396 | 0.118801 | -0.33259 | 4 | 124342 | R | II | ZNF718 | Body | island | Body-islanc | chr4:1243 | rs5559851 | 26;21;14;7 |
| cg2114994 | 0.343547 | 0.295445 | 7.054797 | 3.53E-06 | 0.279231 | 4.269873 | 0.467219 | 0.123672 | -0.34355 | 4 | 124344 | R | II | ZNF718 | TSS200 | island | TSS200-isla | chr4:1243 | rs5559851 | 28;23;16;9 |
| cg2032049 | 0.239867 | 0.211547 | 7.012273 | 3.79E-06 | 0.279231 | 4.195777 | 0.331481 | 0.091614 | -0.23987 | 4 | 124232 | F | II | ZNF718 | Body | shore | Body-shore | chr4:1243 | rs5337524 | 3;27;47;50;51 |
| cg1019730 | 0.27688 | 0.226587 | 6.777837 | 5.66E-06 | 0.347198 | 3.782847 | 0.365027 | 0.088147 | -0.27688 | 4 | 125112 | F | I | ZNF718 | Body | shore | Body-shore | chr4:1243 | rs5590448 | 6;10;13;49 |
| cg2283172 | 0.292878 | 0.251436 | 6.636711 | 7.22E-06 | 0.358226 | 3.530648 | 0.397875 | 0.104997 | -0.29288 | 4 | 124315 | R | II | ZNF718 | TSS200 | shore | TSS200-sho | chr4:1243 | rs5767596 | 38;35;34 |
| cg0538828 | 0.310437 | 0.31724 | 6.402704 | 1.09E-05 | 0.382016 | 3.106474 | 0.472458 | 0.162021 | -0.31044 | 4 | 125504 | R | II | ZNF718 | Body | shore | Body-shore | chr4:1243 | rs1892554 | 46;27;16 |
| cg1981940 | 0.246623 | 0.221757 | 6.35584 | 1.18E-05 | 0.382016 | 3.02063 | 0.345068 | 0.098445 | -0.24662 | 4 | 124285 | F | II | ZNF718 | TSS200 | shore | TSS200-sho | chr4:1243 | rs5559851 | 33;38;45 |
| cg2539349 | 0.154538 | 0.625501 | 5.780848 | 3.37E-05 | 0.507197 | 1.943455 | 0.70277 | 0.548232 | -0.15454 | 17 | 17109936 | F | II | PLD6 | TSS1500 | island | TSS1500-isl | chr17:171( | rs5396205 | 6;10 |
| cg2473915 | 0.123278 | 0.589749 | 5.667263 | 4.17E-05 | 0.58678 | 1.725562 | 0.651388 | 0.52811 | -0.12328 | 14 | 87427652 | F | II | | IGR | opensea | IGR-opense | | rs1508268 | 1;29;34 |
| cg2029629 | 0.144062 | 0.731636 | 5.187328 | 0.000104 | 0.774794 | 0.787479 | 0.803667 | 0.659605 | -0.14406 | 2 | 2.1E+08 | R | II | | IGR | island | IGR-island | chr2:2100 | rs7679877 | 46 |
| cg0049622 | 0.144381 | 0.593219 | 5.12881 | 0.000117 | 0.788345 | 0.671286 | 0.665409 | 0.521028 | -0.14438 | 4 | 1.87E+08 | R | II | F11-AS1 | Body | shore | Body-shore | chr4:1873 | rs5308650 | 6 |
| cg0903593 | 0.218864 | 0.63687 | 5.077276 | 0.000129 | 0.796248 | 0.568654 | 0.746302 | 0.527438 | -0.21886 | 12 | 1.29E+08 | R | II | SLC15A4 | Body | shore | Body-shore | chr12:129 | rs5426064 | 18;14 |
| cg2539766 | 0.21181 | 0.259722 | 4.77125 | 0.000236 | 0.817445 | -0.04632 | 0.365627 | 0.153817 | -0.21181 | 4 | 124622 | F | II | ZNF718 | Body | island | Body-islanc | chr4:1243 | rs1160090 | 16;51 |
| cg1315086 | 0.115167 | 0.262788 | 4.723083 | 0.000259 | 0.835809 | -0.1439 | 0.320371 | 0.205205 | -0.11517 | 14 | 22951163 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0225000 | 0.140158 | 0.677079 | 4.720069 | 0.000261 | 0.835809 | -0.15002 | 0.747157 | 0.607 | -0.14016 | 6 | 84224986 | F | II | PRSS35 | 5'UTR | opensea | 5'UTR-open | | rs579599 | 13 |
| cg1375337 | 0.100113 | 0.731204 | 4.705956 | 0.000268 | 0.835809 | -0.17865 | 0.78126 | 0.681147 | -0.10011 | 3 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | | rs5646004 | 23;16 |
| cg0143735 | 0.125831 | 0.334092 | 4.558954 | 0.00036 | 0.840963 | -0.47786 | 0.397007 | 0.271176 | -0.12583 | 2 | 1782402 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1977837 | 0.129645 | 0.867089 | 4.524222 | 0.000386 | 0.840963 | -0.54879 | 0.931911 | 0.802267 | -0.12964 | 12 | 297831 | F | I | | IGR | shore | IGR-shore | chr12:298 | | |
| cg0048115 | 0.128529 | 0.727171 | 4.470645 | 0.00043 | 0.840963 | -0.65837 | 0.791435 | 0.662906 | -0.12853 | 12 | 96353086 | F | II | AMDHD1 | Body | shelf | Body-shelf | chr12:963 | rs7977244 | 18;20;30 |
| cg2306382 | 0.143324 | 0.396898 | 4.433081 | 0.000464 | 0.840963 | -0.73531 | 0.468559 | 0.325236 | -0.14332 | 12 | 298151 | R | II | | IGR | shore | IGR-shore | chr12:298 | | |
| cg1364986 | 0.121186 | 0.711386 | 4.414821 | 0.000481 | 0.840963 | -0.77275 | 0.771979 | 0.650793 | -0.12119 | 9 | 1.01E+08 | R | II | GABBR2 | Body | opensea | Body-opens | | rs7714936 | 50;30;2 |
| cg0081746 | 0.473372 | 0.56446 | 4.408031 | 0.000488 | 0.840963 | -0.78667 | 0.801146 | 0.327774 | -0.47337 | 10 | 1.12E+08 | R | II | XPNPEP1 | Body | opensea | Body-opens | | rs5695761 | 33;20 |
| cg1652477 | 0.167897 | 0.458568 | 4.389306 | 0.000507 | 0.840963 | -0.82509 | 0.542516 | 0.374619 | -0.1679 | 7 | 52568754 | F | II | | IGR | opensea | IGR-opense | | rs5317215 | 24;41;44 |
| cg1893909 | 0.102524 | 0.223649 | 4.371812 | 0.000525 | 0.840963 | -0.86099 | 0.274911 | 0.172387 | -0.10252 | 16 | 62673412 | R | II | | IGR | opensea | IGR-opense | | rs5703895 | 10 |
| cg1909337 | 0.119658 | 0.614511 | 4.344966 | 0.000555 | 0.840963 | -0.91613 | 0.67434 | 0.554682 | -0.11966 | 17 | 17110180 | F | I | PLD6 | TSS1500 | island | TSS1500-isl | chr17:171( | rs5547423 | 29;33;36 |
| cg1241203 | 0.108506 | 0.271043 | 4.246089 | 0.000678 | 0.840963 | -1.11953 | 0.325296 | 0.21679 | -0.10851 | 1 | 1.91E+08 | R | II | LOC44070 | TSS200 | opensea | TSS200-ope | | rs5311813 | 45 |
| cg2391484 | 0.153824 | 0.401077 | 4.22683 | 0.000705 | 0.840963 | -1.1592 | 0.477989 | 0.324165 | -0.15382 | 1 | 9327170 | F | II | H6PD | 3'UTR | shelf | 3'UTR-shelf | chr1:9324 | rs5465987 | 0;7;10;31 |
| cg0669362 | 0.161203 | 0.279084 | 4.20649 | 0.000735 | 0.840963 | -1.20112 | 0.359685 | 0.198482 | -0.1612 | 6 | 1.49E+08 | F | II | UST | Body | opensea | Body-opens | | rs1403307 | 12;28 |
| cg2628017 | 0.128387 | 0.593832 | 4.204618 | 0.000738 | 0.840963 | -1.20498 | 0.658026 | 0.529639 | -0.12839 | 10 | 1.34E+08 | F | II | | IGR | opensea | IGR-opense | | rs1932695 | 7;14;19;33;36;49;50 |
| cg0199598 | 0.167211 | 0.749133 | 4.188573 | 0.000762 | 0.840963 | -1.23805 | 0.832738 | 0.665527 | -0.16721 | 6 | 1.47E+08 | R | II | STXBP5-AS1 | Body | opensea | Body-opens | | rs1529013 | 19 |
| cg0580792 | 0.102939 | 0.601847 | 4.158834 | 0.00081 | 0.840963 | -1.29939 | 0.653316 | 0.550377 | -0.10294 | 9 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5490284 | 1;21;31;49 |
| cg2572720 | 0.103856 | 0.746069 | 4.153478 | 0.000819 | 0.840963 | -1.31044 | 0.797998 | 0.694141 | -0.10386 | 19 | 45055395 | F | II | CEACAM22 | Body | opensea | Body-opens | | rs5274406 | 1;3 |
| cg2536233 | 0.106208 | 0.150398 | 4.1405 | 0.000841 | 0.840963 | -1.33721 | 0.203501 | 0.097294 | -0.10621 | 2 | 85811413 | R | II | VAMP5 | TSS200 | island | TSS200-isla | chr2:8581 | rs6753051 | 24 |
| cg1018438 | 0.109528 | 0.274517 | 4.118568 | 0.00088 | 0.840963 | -1.38248 | 0.329281 | 0.219754 | -0.10953 | 4 | 78289079 | R | II | | IGR | opensea | IGR-opense | | rs5434449 | 49;29;28;8;1 |
| cg2084829 | 0.135945 | 0.254663 | 4.106264 | 0.000902 | 0.840963 | -1.40788 | 0.322636 | 0.186691 | -0.13594 | 7 | 1E+08 | R | I | ZAN | Body | opensea | Body-opens | | rs1819105 | 47;10 |
| cg2158551 | 0.14117 | 0.202835 | 4.00471 | 0.001111 | 0.840963 | -1.61767 | 0.27342 | 0.132249 | -0.14117 | 11 | 1.22E+08 | R | II | LOC39995 | Body | opensea | Body-opens | | | |
| cg1166346 | 0.109971 | 0.557035 | 4.001601 | 0.001118 | 0.840963 | -1.62409 | 0.612021 | 0.50205 | -0.10997 | 2 | 1.37E+08 | R | II | | IGR | opensea | IGR-opense | | rs7261703 | 31;17;2 |
| cg0827417 | 0.106213 | 0.788715 | 3.967505 | 0.001199 | 0.840963 | -1.69457 | 0.841822 | 0.735609 | -0.10621 | 4 | 1625012 | F | II | | IGR | shore | IGR-shore | chr4:1625 | rs1125353 | 0;8;23;24;45;49 |
| cg1703715 | 0.104107 | 0.507604 | 3.886514 | 0.001416 | 0.840963 | -1.86204 | 0.559658 | 0.455551 | -0.10411 | 10 | 81106469 | R | II | PPIF | TSS1500 | shore | TSS1500-sh | chr10:811( | | |
| cg2115000 | 0.113483 | 0.607918 | 3.878268 | 0.001441 | 0.840963 | -1.87909 | 0.66466 | 0.551177 | -0.11348 | 16 | 88323811 | F | II | | IGR | opensea | IGR-opense | | rs5865777 | 18;26;31;32;35 |
| cg1321789 | 0.239663 | 0.47741 | 3.840053 | 0.001559 | 0.840963 | -1.95811 | 0.597242 | 0.357579 | -0.23966 | 3 | 1.84E+08 | R | II | | IGR | opensea | IGR-opense | | rs2582093 | 39 |
| cg2457885 | 0.129466 | 0.451089 | 3.837315 | 0.001568 | 0.840963 | -1.96377 | 0.515822 | 0.386356 | -0.12947 | 17 | 17110207 | F | I | PLD6 | TSS1500 | island | TSS1500-isl | chr17:171( | rs5547423 | 2;6;9;44;46;48 |
| cg1478991 | 0.150892 | 0.721575 | 3.813025 | 0.001648 | 0.840963 | -2.01399 | 0.797021 | 0.646129 | -0.15089 | 21 | 47582049 | R | II | C21orf56 | Body | island | Body-islanc | chr21:475 | | |
| cg1845404 | 0.148693 | 0.749753 | 3.810035 | 0.001658 | 0.840963 | -2.02018 | 0.8241 | 0.675406 | -0.14869 | 7 | 3644951 | F | II | SDK1 | Body | opensea | Body-opens | | rs5653575 | 0;1;31;37;46 |
| cg0747531 | 0.127871 | 0.632901 | 3.731666 | 0.001949 | 0.840963 | -2.18216 | 0.696837 | 0.568966 | -0.12787 | 5 | 54717280 | R | II | SKIV2L2 | Body | opensea | Body-opens | | rs3716455 | 44 |
| cg1307736 | 0.247132 | 0.445576 | 3.708512 | 0.002045 | 0.840963 | -2.22999 | 0.569142 | 0.32201 | -0.24713 | 18 | 34908626 | F | II | BRUNOL4 | Body | opensea | Body-opens | | rs1838668 | 1;25 |
| cg1307637 | 0.118976 | 0.562896 | 3.703475 | 0.002066 | 0.840963 | -2.2404 | 0.622384 | 0.503408 | -0.11898 | 8 | 1.03E+08 | F | II | NCALD | 5'UTR | opensea | 5'UTR-open | | rs6999047 | 12 |
| cg2701473 | 0.108669 | 0.405599 | 3.683016 | 0.002156 | 0.840963 | -2.28265 | 0.459934 | 0.351264 | -0.10867 | 10 | 19777735 | F | II | MALRD1 | Body | opensea | Body-opens | | rs1505908 | 49 |
| cg2196492 | 0.102927 | 0.58357 | 3.668202 | 0.002223 | 0.840963 | -2.31324 | 0.635034 | 0.532106 | -0.10293 | 5 | 1.54E+08 | R | II | | IGR | island | IGR-island | chr5:1538 | rs5877028 | 20 |
| cg2525096 | 0.101097 | 0.261832 | 3.664638 | 0.002239 | 0.840963 | -2.3206 | 0.312381 | 0.211283 | -0.1011 | 6 | 11318770 | R | II | NEDD9 | 5'UTR | opensea | 5'UTR-open | | rs5715238 | 45;43;18;7 |
| cg1060816 | 0.127794 | 0.538328 | 3.647264 | 0.002321 | 0.840963 | -2.35646 | 0.602225 | 0.47443 | -0.12779 | 9 | 37964630 | F | II | SHB | Body | opensea | Body-opens | | rs5581372 | 15;49 |
| cg1564805 | 0.182244 | 0.523018 | 3.646272 | 0.002326 | 0.840963 | -2.3585 | 0.61414 | 0.431896 | -0.18224 | 21 | 23123750 | F | II | LINC01425 | Body | opensea | Body-opens | | rs1108887 | 26;51 |
| cg0918322 | 0.177314 | 0.738638 | 3.645501 | 0.002329 | 0.840963 | -2.36009 | 0.827295 | 0.649981 | -0.17731 | 3 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5455244 | 5;17 |
| cg1012052 | 0.190978 | 0.422757 | 3.64203 | 0.002346 | 0.840963 | -2.36726 | 0.518246 | 0.327268 | -0.19098 | 3 | 69891885 | F | II | MITF | Body | opensea | Body-opens | | rs5382921 | 0;16;17;36;39;40;42 |
| cg2617200 | 0.122872 | 0.181208 | 3.627493 | 0.002418 | 0.840963 | -2.39725 | 0.242644 | 0.119772 | -0.12287 | 8 | 22941858 | R | I | LOC25489 | TSS200 | opensea | TSS200-ope | | rs7834950 | 42;27 |
| cg1229655 | 0.150448 | 0.671178 | 3.606029 | 0.002527 | 0.840963 | -2.44152 | 0.746402 | 0.595954 | -0.15045 | 6 | 32728862 | R | II | HLA-DQB2 | Body | shore | Body-shore | chr6:3272 | rs5515555 | 49 |
| cg2293380 | 0.324371 | 0.408813 | 3.56697 | 0.00274 | 0.840963 | -2.52204 | 0.570998 | 0.246628 | -0.32437 | 6 | 32605704 | R | II | HLA-DQA1 | Body | opensea | Body-opens | | rs9272465 | 51;17;10;7;1 |
| cg2191854 | 0.153695 | 0.558219 | 3.544347 | 0.002871 | 0.840963 | -2.56864 | 0.635067 | 0.481372 | -0.15369 | 8 | 1.46E+08 | F | II | ZNF251 | Body | shore | Body-shore | chr8:1459 | rs5557051 | 4 |
| cg0300418 | 0.102526 | 0.729573 | 3.535771 | 0.002923 | 0.840963 | -2.58629 | 0.780836 | 0.67831 | -0.10253 | 21 | 40341619 | R | II | | IGR | opensea | IGR-opense | | rs2836791 | 19 |
| cg1023980 | 0.105325 | 0.839072 | 3.519515 | 0.003023 | 0.840963 | -2.61975 | 0.891735 | 0.78641 | -0.10533 | 12 | 48498370 | R | II | PFKM | TSS1500 | shore | TSS1500-sh | chr12:484 | rs1116840 | 45;14 |
| cg1775057 | 0.108177 | 0.631079 | 3.502709 | 0.00313 | 0.840963 | -2.65433 | 0.685167 | 0.57699 | -0.10818 | 10 | 2544120 | F | II | | IGR | island | IGR-island | chr10:254 | rs1127751 | 2;18;37 |
| cg0037821 | 0.151631 | 0.443622 | 3.498858 | 0.003155 | 0.840963 | -2.66225 | 0.519437 | 0.367806 | -0.15163 | 8 | 1237075 | F | II | | IGR | opensea | IGR-opense | | rs1121788 | 0;7;39;41;43;48 |
| cg2136723 | 0.120333 | 0.408446 | 3.473634 | 0.003324 | 0.840963 | -2.7141 | 0.468613 | 0.34828 | -0.12033 | 15 | 75166300 | F | II | SCAMP2 | TSS1500 | shore | TSS1500-sh | chr15:751( | rs1291125 | 35;49 |
| cg2701014 | 0.195453 | 0.268618 | 3.470816 | 0.003343 | 0.840963 | -2.7199 | 0.366345 | 0.170892 | -0.19545 | 22 | 43259569 | F | II | | IGR | opensea | IGR-opense | | rs1164783 | 12;27;46 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg256515( | 0.102655 | 0.171959 | 3.468591 | 0.003359 | 0.840963 | -2.72447 | 0.223286 | 0.120631 | -0.10266 | 2 | 85812023 | F | II | VAMP5 | Body | shore | Body-shore | chr2:8581: | rs3683016 | 0;37;51 |
| cg1675033 | 0.145811 | 0.463874 | 3.391263 | 0.003941 | 0.840963 | -2.88313 | 0.53678 | 0.390969 | -0.14581 | 6 | 1.31E+08 | F | II | SAMD3 | Body | opensea | Body-opens | | rs1807621 | 0;44 |
| cg0330717 | 0.132953 | 0.700238 | 3.387441 | 0.003972 | 0.840963 | -2.89096 | 0.766715 | 0.633762 | -0.13295 | 3 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs6583331 | 23;34;40;41;50 |
| cg134738( | 0.154481 | 0.375618 | 3.385487 | 0.003989 | 0.840963 | -2.89497 | 0.452859 | 0.298378 | -0.15448 | 10 | 1.03E+08 | F | II | | IGR | shelf | IGR-shelf | chr10:103( | | |
| cg1561808 | 0.321262 | 0.439402 | 3.376597 | 0.004063 | 0.840963 | -2.91317 | 0.600033 | 0.278771 | -0.32126 | 14 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5543963 | 51;36;14;12;8;7;2;1 |
| cg0520081 | 0.192507 | 0.672328 | 3.368321 | 0.004133 | 0.840963 | -2.93012 | 0.768581 | 0.576074 | -0.19251 | 21 | 47581042 | F | II | | IGR | island | IGR-island | chr21:475! | rs7566080 | 32;38 |
| cg0002892 | 0.108676 | 0.601494 | 3.358465 | 0.004218 | 0.840963 | -2.95029 | 0.655832 | 0.547156 | -0.10868 | 12 | 52908478 | F | II | KRT5 | 3'UTR | opensea | 3'UTR-open | | rs5660322 | 45 |
| cg0529124 | 0.109279 | 0.78192 | 3.352685 | 0.004268 | 0.840963 | -2.96211 | 0.836559 | 0.72728 | -0.10928 | 2 | 1.43E+08 | R | II | LRP1B | Body | opensea | Body-opens | | rs1158884 | 12;1 |
| cg0229116 | 0.15443 | 0.404082 | 3.317159 | 0.004594 | 0.840963 | -3.03473 | 0.481297 | 0.326867 | -0.15443 | 14 | 59296302 | R | II | | IGR | opensea | IGR-opense | | rs1160490 | 13;12 |
| cg1919640 | 0.139783 | 0.339812 | 3.304609 | 0.004714 | 0.840963 | -3.06035 | 0.409704 | 0.269921 | -0.13978 | 6 | 1.11E+08 | R | I | DDO | Body | island | Body-islanc | chr6:1107: | | |
| cg2391191 | 0.124449 | 0.649417 | 3.288283 | 0.004876 | 0.840963 | -3.09366 | 0.711641 | 0.587192 | -0.12445 | 2 | 68095136 | R | I | | IGR | opensea | IGR-opense | | rs1910370 | 41;2 |
| cg0906292 | 0.22752 | 0.320499 | 3.283981 | 0.00492 | 0.840963 | -3.10243 | 0.434259 | 0.206739 | -0.22752 | 5 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs5299444 | 0;6;27;39 |
| cg2614828 | 0.133532 | 0.237331 | 3.276282 | 0.004999 | 0.840963 | -3.11812 | 0.304097 | 0.170565 | -0.13353 | 8 | 22941854 | R | II | LOC25489( | TSS200 | opensea | TSS200-ope | | rs7834950 | 38;23 |
| cg1722158 | 0.107033 | 0.538006 | 3.270822 | 0.005055 | 0.840963 | -3.12925 | 0.591523 | 0.48449 | -0.10703 | 15 | 56033606 | F | II | PRTG | Body | shore | Body-shore | chr15:560: | | |
| cg0057258 | 0.100931 | 0.210324 | 3.270426 | 0.005059 | 0.840963 | -3.13006 | 0.260789 | 0.159858 | -0.10093 | 17 | 17109740 | F | II | PLD6 | TSS200 | shore | TSS200-sho | chr17:171( | rs3721957 | 2;28;38;40 |
| cg2762002 | 0.111978 | 0.405048 | 3.24583 | 0.005323 | 0.840963 | -3.18014 | 0.461037 | 0.349059 | -0.11198 | 14 | 22924469 | R | II | | IGR | opensea | IGR-opense | | rs1387916 | 46;40;20 |
| cg0403438 | 0.127857 | 0.53802 | 3.244933 | 0.005333 | 0.840963 | -3.18196 | 0.601949 | 0.474092 | -0.12786 | 2 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs5602524 | 3;14;30;48 |
| cg1707392 | 0.124044 | 0.473519 | 3.225073 | 0.005556 | 0.840963 | -3.22235 | 0.535541 | 0.411498 | -0.12404 | 10 | 81106651 | F | II | PPIF | TSS1500 | shore | TSS1500-sh | chr10:811( | rs1693709 | 42 |
| cg1312627 | 0.120511 | 0.703253 | 3.21172 | 0.005711 | 0.840963 | -3.24948 | 0.763508 | 0.642997 | -0.12051 | 21 | 47581558 | F | I | C21orf56 | Body | island | Body-islanc | chr21:475! | rs1485430 | 17;19 |
| cg0571654 | 0.141141 | 0.760715 | 3.205604 | 0.005784 | 0.840963 | -3.2619 | 0.831286 | 0.690144 | -0.14114 | 17 | 41728055 | F | II | MEOX1 | Body | opensea | Body-opens | | | |
| cg2645467 | 0.137574 | 0.624412 | 3.19832 | 0.005871 | 0.840963 | -3.27668 | 0.693199 | 0.555625 | -0.13757 | 9 | 37011472 | F | II | PAX5 | Body | opensea | Body-opens | | rs944066;r | 7;13;29 |
| cg1511378 | 0.126475 | 0.587472 | 3.188964 | 0.005986 | 0.840963 | -3.29566 | 0.65071 | 0.524234 | -0.12648 | 6 | 53821396 | F | II | LOC10192: | Body | opensea | Body-opens | | rs5369808 | 0;19 |
| cg2355282 | 0.109044 | 0.811643 | 3.174807 | 0.006163 | 0.840963 | -3.32436 | 0.866165 | 0.757121 | -0.10904 | 17 | 64272071 | R | II | | IGR | opensea | IGR-opense | | rs1504503 | 46;27;2;1 |
| cg1175497 | 0.11682 | 0.335215 | 3.16635 | 0.006271 | 0.840963 | -3.34149 | 0.393625 | 0.276805 | -0.11682 | 14 | 22927264 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1366647 | 0.112269 | 0.826394 | 3.165967 | 0.006276 | 0.840963 | -3.34227 | 0.882528 | 0.770259 | -0.11227 | 1 | 44249486 | F | II | ST3GAL3 | Body | opensea | Body-opens | | rs1846966 | 0;8;19;38 |
| cg0122841 | 0.117385 | 0.715162 | 3.163525 | 0.006308 | 0.840963 | -3.34721 | 0.773855 | 0.656469 | -0.11739 | 5 | 493893 | R | II | SLC9A3 | Body | shore | Body-shore | chr5:4948( | rs5740309 | 47;15;6;5 |
| cg1314462 | 0.102299 | 0.74885 | 3.152962 | 0.006447 | 0.840963 | -3.36859 | 0.799999 | 0.6977 | -0.1023 | 3 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs1413352 | 0;33;36;37;38;39 |
| cg1511144 | 0.106494 | 0.231299 | 3.146972 | 0.006527 | 0.840963 | -3.38071 | 0.284546 | 0.178052 | -0.10649 | 8 | 22941856 | R | II | LOC25489( | TSS200 | opensea | TSS200-ope | | rs7834950 | 40;25 |
| cg2735389 | 0.121647 | 0.410328 | 3.141953 | 0.006595 | 0.840963 | -3.39086 | 0.471152 | 0.349505 | -0.12165 | 3 | 1.95E+08 | F | I | MUC4 | Body | island | Body-islanc | chr3:1954( | rs1995527 | 8;27 |
| cg1634042 | 0.114148 | 0.525219 | 3.131557 | 0.006738 | 0.840963 | -3.41188 | 0.582293 | 0.468145 | -0.11415 | 17 | 17110120 | F | I | PLD6 | TSS1500 | island | TSS1500-isl | chr17:171( | rs5363954 | 9 |
| cg0577338 | 0.10408 | 0.348565 | 3.123447 | 0.006851 | 0.840963 | -3.42826 | 0.400605 | 0.296525 | -0.10408 | 14 | 22946935 | R | II | | IGR | opensea | IGR-opense | | rs1830613 | 27 |
| cg0847733 | 0.277487 | 0.511367 | 3.122248 | 0.006868 | 0.840963 | -3.43068 | 0.65011 | 0.372624 | -0.27749 | 1 | 1.54E+08 | R | II | S100A14 | TSS1500 | opensea | TSS1500-o | | rs5701249 | 11;8 |
| cg1468012 | 0.115939 | 0.392731 | 3.102376 | 0.007155 | 0.840963 | -3.47078 | 0.4507 | 0.334761 | -0.11594 | 7 | 47185016 | R | II | | IGR | opensea | IGR-opense | | rs5459018 | 3;2 |
| cg0511037 | 0.107247 | 0.467228 | 3.089083 | 0.007353 | 0.840963 | -3.49757 | 0.520851 | 0.413604 | -0.10725 | 18 | 19862697 | R | II | | IGR | opensea | IGR-opense | | rs5432047 | 33;19;2 |
| cg2396307 | 0.100945 | 0.34605 | 3.06185 | 0.007776 | 0.840963 | -3.55237 | 0.396523 | 0.295578 | -0.10095 | 6 | 2901712 | F | II | SERPINB9 | 5'UTR | shore | 5'UTR-shor | chr6:2903: | rs1467323 | 0;1;19 |
| cg1506377 | 0.123266 | 0.379599 | 3.055322 | 0.007881 | 0.840963 | -3.56549 | 0.441232 | 0.317966 | -0.12327 | 10 | 86093621 | R | II | CCSER2 | 5'UTR | opensea | 5'UTR-open | | rs1814435 | 2 |
| cg2028281 | 0.105572 | 0.353638 | 3.047319 | 0.008012 | 0.840963 | -3.58157 | 0.406424 | 0.300852 | -0.10557 | 1 | 43423072 | F | II | SLC2A1 | Body | shore | Body-shore | chr1:4342: | rs5520179 | 5 |
| cg2043385 | 0.116772 | 0.501203 | 3.041753 | 0.008104 | 0.840963 | -3.59274 | 0.559589 | 0.442818 | -0.11677 | 1 | 2.48E+08 | R | II | OR2L13 | 5'UTR | shore | 5'UTR-shor | chr1:2481( | rs5471019 | 25;22 |
| cg192147( | 0.20076 | 0.189285 | 3.036072 | 0.008199 | 0.840963 | -3.60414 | 0.289665 | 0.088905 | -0.20076 | 7 | 3157722 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2539410 | 0.122454 | 0.878018 | 3.034263 | 0.00823 | 0.840963 | -3.60777 | 0.939245 | 0.816791 | -0.12245 | 19 | 45563250 | R | II | SFRS16 | Body | shelf | Body-shelf | chr19:455( | rs1123949 | 10;6 |
| cg1061631 | 0.133983 | 0.304023 | 3.015111 | 0.00856 | 0.840963 | -3.64616 | 0.371014 | 0.237031 | -0.13398 | 10 | 15468812 | R | II | | IGR | opensea | IGR-opense | | rs1507265 | 12 |
| cg1599169 | 0.100591 | 0.368408 | 3.006481 | 0.008713 | 0.840963 | -3.66344 | 0.418703 | 0.318112 | -0.10059 | 5 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5540272 | 33;27;14;2;1 |
| cg1537788 | 0.142063 | 0.452519 | 2.998429 | 0.008858 | 0.840963 | -3.67955 | 0.52355 | 0.381487 | -0.14206 | 21 | 42440661 | R | II | | IGR | opensea | IGR-opense | | rs1172538 | 31 |
| cg1478790 | 0.100552 | 0.724674 | 2.993074 | 0.008955 | 0.840963 | -3.69026 | 0.77495 | 0.674398 | -0.10055 | 22 | 43387669 | F | II | PACSIN2 | 5'UTR | opensea | 5'UTR-open | | rs5404029 | 0;26;42;44 |
| cg0730093 | 0.109626 | 0.731446 | 2.98105 | 0.009179 | 0.840963 | -3.71428 | 0.786259 | 0.676633 | -0.10963 | 9 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1905715 | 32;2;1 |
| cg1612970 | 0.110832 | 0.674268 | 2.969029 | 0.009408 | 0.840963 | -3.73828 | 0.729685 | 0.618852 | -0.11083 | 1 | 2.47E+08 | F | II | | IGR | opensea | IGR-opense | | rs3689746 | 28;35;46 |
| cg2536926 | 0.108705 | 0.705396 | 2.967085 | 0.009445 | 0.840963 | -3.74216 | 0.759748 | 0.651043 | -0.1087 | 1 | 46649132 | R | II | TSPAN1 | Body | opensea | Body-opens | | rs5497439 | 20 |
| cg1232119 | 0.120082 | 0.746903 | 2.950304 | 0.009775 | 0.840963 | -3.7756 | 0.806944 | 0.686862 | -0.12008 | 13 | 78550384 | F | II | EDNRB | TSS1500 | opensea | TSS1500-o | | rs1866987 | 0;30 |
| cg1888776 | 0.116854 | 0.350542 | 2.931126 | 0.010166 | 0.840963 | -3.81376 | 0.408969 | 0.292115 | -0.11685 | 14 | 22945181 | F | II | | IGR | opensea | IGR-opense | | rs7161733 | 11;31 |
| cg0225494 | 0.112972 | 0.455988 | 2.921449 | 0.010369 | 0.840963 | -3.83299 | 0.512474 | 0.399502 | -0.11297 | 21 | 40361754 | F | II | | IGR | opensea | IGR-opense | | rs5682595 | 1;8;13;18;38 |
| cg1388347 | 0.101993 | 0.695734 | 2.90502 | 0.010723 | 0.840963 | -3.8656 | 0.746731 | 0.644738 | -0.10199 | 9 | 574312 | F | II | KANK1 | 5'UTR | opensea | 5'UTR-open | | rs5369874 | 20;44 |
| cg0454820 | 0.111201 | 0.237843 | 2.871867 | 0.011474 | 0.840963 | -3.93124 | 0.293444 | 0.182243 | -0.1112 | 12 | 9162872 | R | II | KLRG1 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0146060 | 0.141596 | 0.638833 | 2.869365 | 0.011532 | 0.840963 | -3.93618 | 0.709631 | 0.568034 | -0.1416 | 7 | 1.03E+08 | R | II | LRRC17 | 3'UTR | opensea | 3'UTR-open | | rs1324249 | 19 |
| cg1711904 | 0.122175 | 0.589527 | 2.860047 | 0.011753 | 0.840963 | -3.95458 | 0.650615 | 0.52844 | -0.12218 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5748890 | 0;25 |
| cg1802006 | 0.137974 | 0.390448 | 2.859846 | 0.011758 | 0.840963 | -3.95498 | 0.459435 | 0.321461 | -0.13797 | 13 | 1.15E+08 | F | I | RASA3 | Body | opensea | Body-opens | | rs5388431 | 0;1;18;36 |
| cg1199842 | 0.100956 | 0.768288 | 2.859633 | 0.011763 | 0.840963 | -3.9554 | 0.818766 | 0.71781 | -0.10096 | 9 | 72198906 | R | II | APBA1 | 5'UTR | opensea | 5'UTR-open | | rs1896161 | 27;9 |
| cg1848975 | 0.169287 | 0.596051 | 2.851967 | 0.011948 | 0.840963 | -3.97053 | 0.680695 | 0.511408 | -0.16929 | 3 | 1.84E+08 | R | II | MAP6D1 | 3'UTR | opensea | 3'UTR-open | | rs1417264 | 43 |
| cg0596822 | 0.145226 | 0.663768 | 2.847791 | 0.01205 | 0.840963 | -3.97876 | 0.73638 | 0.591155 | -0.14523 | 11 | 5770442 | F | II | | IGR | opensea | IGR-opense | | rs5278813 | 25;26;27 |
| cg0427295 | 0.172277 | 0.413323 | 2.842537 | 0.01218 | 0.840963 | -3.98912 | 0.499462 | 0.327185 | -0.17228 | 11 | 63719761 | R | II | NAA40 | Body | opensea | Body-opens | | rs1435758 | 49;47;42;2;1 |
| cg2196230 | 0.102151 | 0.317235 | 2.840866 | 0.012221 | 0.840963 | -3.99241 | 0.368311 | 0.26616 | -0.10215 | 17 | 33760819 | R | II | SLFN12 | TSS1500 | opensea | TSS1500-o | | rs1151271 | 5 |
| cg0047227 | 0.198009 | 0.532897 | 2.809214 | 0.013034 | 0.840963 | -4.05466 | 0.631902 | 0.433893 | -0.19801 | 11 | 2327755 | R | I | TSPAN32 | Body | opensea | Body-opens | | rs2237858 | 51;50;34;30;26;3;2 |
| cg0653661 | 0.160682 | 0.425107 | 2.809087 | 0.013037 | 0.840963 | -4.05491 | 0.505448 | 0.344766 | -0.16068 | 5 | 1.35E+08 | F | I | MIR886 | TSS200 | island | TSS200-isla | chr5:1354: | rs5773028 | 7;13 |
| cg1496664 | 0.126594 | 0.614754 | 2.785578 | 0.013674 | 0.840963 | -4.101 | 0.678051 | 0.551456 | -0.12659 | 8 | 1.26E+08 | F | II | MTSS1 | Body | opensea | Body-opens | | rs1009051 | 17 |
| cg0869157 | 0.10034 | 0.470092 | 2.779073 | 0.013856 | 0.840963 | -4.11373 | 0.520262 | 0.419922 | -0.10034 | 5 | 14668489 | R | II | FAM105B | Body | shelf | Body-shelf | chr5:1466( | rs1491340 | 50;49 |
| cg1162271 | 0.102464 | 0.303819 | 2.776472 | 0.013929 | 0.840963 | -4.11882 | 0.355052 | 0.252587 | -0.10246 | 17 | 56655260 | R | II | TEX14 | Body | opensea | Body-opens | | rs1886965 | 41;31;1 |
| cg031269( | 0.106664 | 0.476533 | 2.757427 | 0.014477 | 0.840963 | -4.15603 | 0.529865 | 0.423201 | -0.10666 | 9 | 1.4E+08 | R | II | | IGR | opensea | IGR-opense | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0060035 | 0.108535 | 0.29451 | 2.740448 | 0.014984 | 0.840963 | -4.18913 | 0.348778 | 0.240242 | -0.10854 | 14 | 22942833 | R | II | | IGR | opensea | IGR-opense | | rs5775700 | 42;37;34;17 |
| cg2000414 | 0.123652 | 0.530981 | 2.729858 | 0.015308 | 0.840963 | -4.20974 | 0.592807 | 0.469155 | -0.12365 | 2 | 65718931 | F | II | | IGR | opensea | IGR-opense | | rs1852897 | 21;22;45 |
| cg1956640 | 0.124378 | 0.28353 | 2.728436 | 0.015352 | 0.840963 | -4.2125 | 0.345719 | 0.221341 | -0.12438 | 17 | 33759965 | F | II | SLFN12 | TSS1500 | opensea | TSS1500-op | | | |
| cg1707886 | 0.111729 | 0.582854 | 2.726364 | 0.015416 | 0.840963 | -4.21653 | 0.638718 | 0.52699 | -0.11173 | 2 | 1.26E+08 | R | II | CNTNAP5 | Body | opensea | Body-opens | | rs7924920 | 11;2 |
| cg2181305 | 0.110818 | 0.658136 | 2.725242 | 0.015451 | 0.840963 | -4.21871 | 0.713545 | 0.602727 | -0.11082 | 19 | 56060880 | R | II | | IGR | shore | IGR-shore | chr19:5606 | | |
| cg2354990 | 0.10776 | 0.476464 | 2.724039 | 0.015489 | 0.840963 | -4.22105 | 0.530344 | 0.422584 | -0.10776 | 7 | 5184155 | F | I | | IGR | island | IGR-island | chr7:5183 | rs1812386 | 4;42 |
| cg2349032 | 0.104059 | 0.662117 | 2.722558 | 0.015536 | 0.840963 | -4.22393 | 0.714147 | 0.610088 | -0.10406 | 5 | 57014231 | F | II | | IGR | opensea | IGR-opense | | | |
| cg071585C | 0.1941 | 0.429744 | 2.720227 | 0.015609 | 0.840963 | -4.22846 | 0.526794 | 0.332694 | -0.1941 | 5 | 1.35E+08 | R | II | | IGR | shore | IGR-shore | chr5:1354 | rs5652797 | 47;26;2 |
| cg2168698 | 0.114749 | 0.711691 | 2.718533 | 0.015662 | 0.840963 | -4.23175 | 0.769066 | 0.654317 | -0.11475 | 16 | 75252973 | R | II | CTRB1 | Body | opensea | Body-opens | | rs2012454 | 18 |
| cg1176657 | 0.111198 | 0.685921 | 2.711484 | 0.015887 | 0.840963 | -4.24543 | 0.74152 | 0.630321 | -0.1112 | 21 | 47581405 | R | I | C21orf56 | Body | island | Body-islanc | chr21:475 | rs2002575 | 18 |
| cg0322009 | 0.107638 | 0.373502 | 2.70803 | 0.015998 | 0.840963 | -4.25213 | 0.427321 | 0.319683 | -0.10764 | 14 | 22928550 | R | II | | IGR | opensea | IGR-opense | | rs1152784 | 10;9;1 |
| cg1866187 | 0.102355 | 0.427293 | 2.702997 | 0.016161 | 0.840963 | -4.26189 | 0.47847 | 0.376115 | -0.10236 | 5 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs7864135 | 1;18 |
| cg0666225 | 0.109045 | 0.536388 | 2.696481 | 0.016375 | 0.840963 | -4.27451 | 0.590911 | 0.481866 | -0.10905 | 1 | 16847157 | F | II | | IGR | shore | IGR-shore | chr1:1684 | rs5385545 | 1;11;15;25;28;33 |
| cg2159875 | 0.11974 | 0.842186 | 2.682407 | 0.016846 | 0.840963 | -4.30174 | 0.902057 | 0.782316 | -0.11974 | 1 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs5710350 | 17;39 |
| cg2527780 | 0.124258 | 0.38966 | 2.678501 | 0.01698 | 0.840963 | -4.30929 | 0.451789 | 0.32753 | -0.12426 | 2 | 1.28E+08 | F | II | | IGR | shore | IGR-shore | chr2:1284 | rs1870326 | 20;23 |
| cg1239358 | 0.109576 | 0.787235 | 2.675267 | 0.017091 | 0.840963 | -4.31554 | 0.842023 | 0.732447 | -0.10958 | 7 | 45027643 | F | II | C7orf40 | TSS1500 | shore | TSS1500-sh | chr7:4502 | rs5775359 | 3;26 |
| cg0325165 | 0.126024 | 0.31118 | 2.666294 | 0.017402 | 0.840963 | -4.33286 | 0.374192 | 0.248168 | -0.12602 | 17 | 33759512 | F | II | SLFN12 | 1stExon | opensea | 1stExon-op | | rs5624302 | 12;38 |
| cg2309983 | 0.120192 | 0.386123 | 2.666188 | 0.017406 | 0.840963 | -4.33306 | 0.446219 | 0.326027 | -0.12019 | 8 | 2585976 | F | I | | IGR | opensea | IGR-opense | | rs5362757 | 2;5;26;27 |
| cg1379721 | 0.131716 | 0.422539 | 2.656799 | 0.017738 | 0.840963 | -4.35116 | 0.488397 | 0.356681 | -0.13172 | 7 | 71870614 | F | II | CALN1 | 5'UTR | opensea | 5'UTR-open | | rs5639559 | 9;38;42;43 |
| cg2597585 | 0.10257 | 0.684495 | 2.652867 | 0.017878 | 0.840963 | -4.35873 | 0.73578 | 0.633211 | -0.10257 | 3 | 19930780 | F | II | EFHB | Body | opensea | Body-opens | | rs1876693 | 1 |
| cg1879765 | 0.154923 | 0.388639 | 2.645953 | 0.018129 | 0.840963 | -4.37204 | 0.466101 | 0.311177 | -0.15492 | 5 | 1.35E+08 | F | II | MIR886 | TSS1500 | shore | TSS1500-sh | chr5:1354 | | |
| cg1078883 | 0.111999 | 0.436417 | 2.645294 | 0.018153 | 0.840963 | -4.3733 | 0.492416 | 0.380417 | -0.112 | 5 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs5293137 | 2;27;31;39 |
| cg0012499 | 0.164153 | 0.303741 | 2.637651 | 0.018434 | 0.840963 | -4.38799 | 0.385818 | 0.221665 | -0.16415 | 5 | 1.35E+08 | F | I | MIR886 | TSS200 | island | TSS200-isla | chr5:1354 | rs5598580 | 38;44 |
| cg1715686 | 0.1088 | 0.47765 | 2.634995 | 0.018532 | 0.840963 | -4.3931 | 0.53205 | 0.42325 | -0.1088 | 1 | 18806982 | F | II | KLHDC7A | TSS1500 | shore | TSS1500-sh | chr1:1880 | | |
| cg0451520 | 0.10856 | 0.276893 | 2.623872 | 0.01895 | 0.840963 | -4.41444 | 0.331173 | 0.222613 | -0.10856 | 5 | 1.35E+08 | F | II | | IGR | shore | IGR-shore | chr5:1354 | rs5493217 | 15 |
| cg1557223 | 0.109097 | 0.520771 | 2.623002 | 0.018984 | 0.840963 | -4.41611 | 0.57532 | 0.466223 | -0.1091 | 7 | 5183992 | F | II | | IGR | island | IGR-island | chr7:5183 | rs5510959 | 12;39 |
| cg0111927 | 0.123765 | 0.525214 | 2.618542 | 0.019154 | 0.840963 | -4.42466 | 0.587096 | 0.463331 | -0.12376 | 6 | 1.11E+08 | F | II | DDO | Body | island | Body-islanc | chr6:1107 | rs1496133 | 23;44;49 |
| cg1781863 | 0.128776 | 0.666872 | 2.611527 | 0.019425 | 0.840963 | -4.43809 | 0.73126 | 0.602485 | -0.12878 | 21 | 40361611 | F | II | | IGR | opensea | IGR-opense | | rs5642788 | 1;30 |
| cg2050727 | 0.183096 | 0.309043 | 2.60922 | 0.019515 | 0.840963 | -4.44251 | 0.400591 | 0.217495 | -0.1831 | 1 | 2.48E+08 | F | II | OR2L13 | 1stExon | island | 1stExon-isl | chr1:2481 | rs1118340 | 26;31;47 |
| cg2689694 | 0.158689 | 0.385261 | 2.606492 | 0.019622 | 0.840963 | -4.44773 | 0.464605 | 0.305916 | -0.15869 | 5 | 1.35E+08 | F | I | MIR886 | TSS200 | island | TSS200-isla | chr5:1354 | rs5598580 | 45;51 |
| cg0300687 | 0.100005 | 0.38105 | 2.60423 | 0.019711 | 0.840963 | -4.45205 | 0.431053 | 0.331047 | -0.10001 | 14 | 22945582 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0356583 | 0.117472 | 0.690706 | 2.601344 | 0.019826 | 0.840963 | -4.45757 | 0.749442 | 0.63197 | -0.11747 | 13 | 36466519 | R | II | MIR548F5 | Body | opensea | Body-opens | | rs3691628 | 51;1 |
| cg0049271 | 0.104355 | 0.31894 | 2.599839 | 0.019886 | 0.840963 | -4.46044 | 0.371117 | 0.266763 | -0.10435 | 17 | 33760278 | F | I | SLFN12 | TSS1500 | opensea | TSS1500-op | | rs1386353 | 18;23;24;30;34;43;47 |
| cg1804944 | 0.10917 | 0.527891 | 2.593697 | 0.020132 | 0.840963 | -4.47217 | 0.582476 | 0.473306 | -0.10917 | 22 | 23245790 | R | II | | IGR | opensea | IGR-opense | | rs1442090 | 41;31;18;1 |
| cg0851354 | 0.141923 | 0.561922 | 2.586855 | 0.020409 | 0.840963 | -4.48523 | 0.632884 | 0.490961 | -0.14192 | 5 | 1.5E+08 | F | II | LOC134466 | Body | shelf | Body-shelf | chr5:1503 | rs5708450 | 42 |
| cg0894417 | 0.17924 | 0.292824 | 2.586812 | 0.020411 | 0.840963 | -4.48531 | 0.382444 | 0.203204 | -0.17924 | 1 | 2.48E+08 | F | II | OR2L13 | 1stExon | island | 1stExon-isl | chr1:2481 | rs1118340 | 12;17;33;49 |
| cg1485656 | 0.124867 | 0.678149 | 2.584862 | 0.02049 | 0.840963 | -4.48903 | 0.740582 | 0.615715 | -0.12487 | 1 | 19111089 | R | II | | IGR | shore | IGR-shore | chr1:1911 | rs7405662 | 13 |
| cg2690525 | 0.112215 | 0.315199 | 2.583042 | 0.020565 | 0.840963 | -4.4925 | 0.371306 | 0.259092 | -0.11221 | 19 | 15923097 | R | II | | IGR | opensea | IGR-opense | | rs6718753 | 19 |
| cg0392678 | 0.12327 | 0.369986 | 2.578732 | 0.020743 | 0.840963 | -4.50071 | 0.431621 | 0.308351 | -0.12327 | 1 | 1.6E+08 | F | II | TAGLN2 | Body | shore | Body-shore | chr1:1598 | rs1445078 | 15 |
| cg1177470 | 0.121377 | 0.539741 | 2.57487 | 0.020904 | 0.840963 | -4.50807 | 0.600429 | 0.479052 | -0.12138 | 16 | 1561735 | F | II | IFT140 | Body | shore | Body-shore | chr16:155 | rs1470096 | 1;22 |
| cg2534068 | 0.193039 | 0.403972 | 2.57483 | 0.020906 | 0.840963 | -4.50814 | 0.500492 | 0.307453 | -0.19304 | 5 | 1.35E+08 | F | I | MIR886 | TSS200 | island | TSS200-isla | chr5:1354 | | |
| cg1983196 | 0.13632 | 0.686588 | 2.571577 | 0.021042 | 0.840963 | -4.51433 | 0.754748 | 0.618428 | -0.13632 | 2 | 317929 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs7792054 | 20 |
| cg2311877 | 0.107108 | 0.406514 | 2.569147 | 0.021144 | 0.840963 | -4.51896 | 0.460068 | 0.35296 | -0.10711 | 4 | 89152696 | R | II | ABCG2 | TSS1500 | opensea | TSS1500-op | | rs5506870 | 50;49;48 |
| cg0647888 | 0.154183 | 0.340879 | 2.568902 | 0.021154 | 0.840963 | -4.51942 | 0.417971 | 0.263788 | -0.15418 | 5 | 1.35E+08 | R | II | | IGR | shore | IGR-shore | chr5:1354 | rs5643603 | 46 |
| cg1792791 | 0.106031 | 0.772841 | 2.558938 | 0.021579 | 0.840963 | -4.53836 | 0.825857 | 0.719825 | -0.10603 | 3 | 56953498 | F | II | ARHGEF3 | Body | opensea | Body-opens | | rs1406070 | 0;35 |
| cg2007389 | 0.118319 | 0.403605 | 2.557411 | 0.021645 | 0.840963 | -4.54126 | 0.462764 | 0.344445 | -0.11832 | 14 | 22945457 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0008320 | 0.116576 | 0.669875 | 2.555717 | 0.021719 | 0.840963 | -4.54447 | 0.728163 | 0.611587 | -0.11658 | 6 | 1.11E+08 | R | II | DDO | Body | island | Body-islanc | chr6:1107 | rs5471762 | 51;25 |
| cg0342280 | 0.107327 | 0.766325 | 2.550944 | 0.021926 | 0.840963 | -4.55353 | 0.819989 | 0.712662 | -0.10733 | 20 | 55292557 | R | II | | IGR | opensea | IGR-opense | | rs1698023 | 40;16 |
| cg0072306 | 0.103516 | 0.370541 | 2.548095 | 0.022051 | 0.840963 | -4.55893 | 0.422299 | 0.318783 | -0.10352 | 14 | 22938770 | R | II | | IGR | opensea | IGR-opense | | rs5587059 | 43;38;1 |
| cg1913932 | 0.11228 | 0.50087 | 2.546239 | 0.022133 | 0.840963 | -4.56245 | 0.55701 | 0.44473 | -0.11228 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2158741 | 0.132693 | 0.4154 | 2.545594 | 0.022161 | 0.840963 | -4.56367 | 0.481746 | 0.349054 | -0.13269 | 3 | 17194063 | F | II | | IGR | opensea | IGR-opense | | rs1306234 | 8 |
| cg0078594 | 0.145854 | 0.264163 | 2.545583 | 0.022162 | 0.840963 | -4.56369 | 0.33709 | 0.191236 | -0.14585 | 1 | 2.48E+08 | F | II | OR2L13 | 1stExon | island | 1stExon-isl | chr1:2481 | rs1118340 | 35;40 |
| cg2092035 | 0.120816 | 0.236594 | 2.537518 | 0.022521 | 0.840963 | -4.57897 | 0.297002 | 0.176186 | -0.12082 | 4 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs1399886 | 43;40;30;9;1;1 |
| cg2030895 | 0.173494 | 0.746228 | 2.526696 | 0.023011 | 0.840963 | -4.59943 | 0.832975 | 0.659481 | -0.17349 | 11 | 42186623 | R | II | | IGR | opensea | IGR-opense | | rs5735513 | 1 |
| cg0343277 | 0.109889 | 0.584204 | 2.524906 | 0.023093 | 0.840963 | -4.60281 | 0.639149 | 0.529259 | -0.10989 | 1 | 21033761 | F | II | KIF17 | Body | shelf | Body-shelf | chr1:2103 | rs875016;r | 18;24;25;38 |
| cg2368247 | 0.10981 | 0.428873 | 2.511054 | 0.023738 | 0.840963 | -4.62895 | 0.483778 | 0.373968 | -0.10981 | 14 | 22924109 | R | II | | IGR | opensea | IGR-opense | | rs5717728 | 51;23 |
| cg1333384 | 0.144032 | 0.576742 | 2.508495 | 0.023859 | 0.840963 | -4.63377 | 0.648758 | 0.504727 | -0.14403 | 13 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs7764741 | 31 |
| cg2087723 | 0.154135 | 0.623513 | 2.503151 | 0.024114 | 0.840963 | -4.64383 | 0.70058 | 0.546445 | -0.15413 | 8 | 6876684 | F | II | DEFA3 | TSS1500 | opensea | TSS1500-op | | rs7150922 | 0;11;15;20;22;32;38;44;46 |
| cg2287853 | 0.134717 | 0.378919 | 2.501448 | 0.024195 | 0.840963 | -4.64703 | 0.446278 | 0.311561 | -0.13472 | 17 | 78431627 | F | II | | IGR | shelf | IGR-shelf | chr17:784 | rs5632159 | 31;51 |
| cg0939816 | 0.108707 | 0.678746 | 2.496759 | 0.024421 | 0.840963 | -4.65585 | 0.733099 | 0.624392 | -0.10871 | 21 | 40291207 | R | II | LOC400867 | Body | opensea | Body-opens | | rs2836753 | 22;1 |
| cg0374837 | 0.167992 | 0.284855 | 2.482352 | 0.025129 | 0.840963 | -4.68291 | 0.368851 | 0.200859 | -0.16799 | 1 | 2.48E+08 | F | I | OR2L13 | 1stExon | island | 1stExon-isl | chr1:2481 | rs1118340 | 41;46 |
| cg2250002 | 0.120748 | 0.262938 | 2.479166 | 0.025288 | 0.840963 | -4.68888 | 0.323312 | 0.202564 | -0.12075 | 14 | 22935574 | R | II | | IGR | opensea | IGR-opense | | rs5662211 | 40 |
| cg1461310 | 0.172981 | 0.724812 | 2.476694 | 0.025412 | 0.840963 | -4.69351 | 0.811302 | 0.638321 | -0.17298 | 9 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | | rs7274032 | 0;1;8;18;38;42 |
| cg1107989 | 0.110925 | 0.217577 | 2.474466 | 0.025525 | 0.840963 | -4.69769 | 0.27304 | 0.162115 | -0.11092 | 14 | 63671314 | F | II | RHOJ | 5'UTR | opensea | 5'UTR-open | | rs1454903 | 0;12;35 |
| cg2153463 | 0.154966 | 0.793425 | 2.459836 | 0.026274 | 0.840963 | -4.72505 | 0.870908 | 0.715942 | -0.15497 | 21 | 42742432 | R | II | MX2 | 5'UTR | opensea | 5'UTR-open | | rs1872874 | 18 |
| cg2436412 | 0.122455 | 0.623898 | 2.456638 | 0.026441 | 0.840963 | -4.73103 | 0.685126 | 0.56267 | -0.12246 | 15 | 33757827 | F | II | RYR3 | Body | opensea | Body-opens | | rs5452455 | 0;4;13;40 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1757327 | 0.11993 | 0.644284 | 2.444178 | 0.027099 | 0.840963 | -4.75426 | 0.704249 | 0.584319 | -0.11993 | 22 | 42950376 | R | II | SERHL2 | Body | shore | Body-shore | chr22:429 | rs5411937 | 35;17 |
| cg1160815 | 0.169514 | 0.313532 | 2.427118 | 0.028027 | 0.840963 | -4.786 | 0.398289 | 0.228774 | -0.16951 | 5 | 1.35E+08 | R | I | | IGR | shore | IGR-shore | chr5:1354 | rs3757214 | 1 |
| cg0874596 | 0.135563 | 0.236255 | 2.425779 | 0.028101 | 0.840963 | -4.78849 | 0.304036 | 0.168474 | -0.13556 | 5 | 1.35E+08 | F | II | MIR886 | TSS1500 | shore | TSS1500-sh | chr5:1354 | rs7158930 | 7;18 |
| cg0269150 | 0.151943 | 0.363178 | 2.420326 | 0.028404 | 0.840963 | -4.79861 | 0.43915 | 0.287206 | -0.15194 | 3 | 8685827 | R | II | C3orf32 | 5'UTR | opensea | 5'UTR-open | | rs5554027 | 47;28 |
| cg0217181 | 0.105887 | 0.514028 | 2.416209 | 0.028635 | 0.840963 | -4.80624 | 0.566971 | 0.461084 | -0.10589 | 17 | 1645925 | R | II | SERPINF2 | TSS1500 | opensea | TSS1500-o | | rs7730532 | 35;13 |
| cg2219923 | 0.103814 | 0.547047 | 2.409885 | 0.028994 | 0.840963 | -4.81796 | 0.598954 | 0.49514 | -0.10381 | 11 | 613857 | F | II | IRF7 | Body | shore | Body-shore | chr11:614 | rs5449134 | 0;2;16;22;27;41;44;47;51 |
| cg1604237 | 0.102096 | 0.645478 | 2.408184 | 0.029091 | 0.840963 | -4.82111 | 0.696526 | 0.59443 | -0.1021 | 2 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5485805 | 42;19 |
| cg1105915 | 0.108202 | 0.436518 | 2.405706 | 0.029233 | 0.840963 | -4.82569 | 0.490618 | 0.382417 | -0.1082 | 2 | 1.28E+08 | F | II | | IGR | island | IGR-island | chr2:1284 | rs3731693 | 20 |
| cg0560739 | 0.129856 | 0.709927 | 2.402194 | 0.029436 | 0.840963 | -4.83219 | 0.774855 | 0.644999 | -0.12986 | 21 | 47445196 | F | II | | IGR | opensea | IGR-opense | | rs9984302 | 14;31 |
| cg0117581 | 0.12347 | 0.198968 | 2.398798 | 0.029633 | 0.840963 | -4.83847 | 0.260703 | 0.137233 | -0.12347 | 12 | 4919001 | F | II | KCNA6 | 5'UTR | island | 5'UTR-islan | chr12:491 | | |
| cg1981380 | 0.100072 | 0.672405 | 2.387308 | 0.030309 | 0.840963 | -4.85967 | 0.722441 | 0.622369 | -0.10007 | 2 | 2.19E+08 | F | II | DIRC3 | Body | opensea | Body-open | | rs1869073 | 0;8 |
| cg0541981 | 0.109416 | 0.231916 | 2.386332 | 0.030367 | 0.840963 | -4.86147 | 0.286624 | 0.177208 | -0.10942 | 6 | 31276437 | R | I | | IGR | island | IGR-island | chr6:3127 | rs9264960 | 43;42;27;12;4 |
| cg2685870 | 0.171593 | 0.252809 | 2.38575 | 0.030401 | 0.840963 | -4.86254 | 0.338605 | 0.167013 | -0.17159 | 12 | 4918848 | R | I | KCNA6 | 5'UTR | island | 5'UTR-islan | chr12:491 | rs1137637 | 47 |
| cg1164336 | 0.135416 | 0.396148 | 2.379923 | 0.030751 | 0.840963 | -4.87328 | 0.463856 | 0.32844 | -0.13542 | 14 | 22923261 | R | II | | IGR | opensea | IGR-opense | | rs5486425 | 38;2;1 |
| cg1445094 | 0.185289 | 0.219573 | 2.361829 | 0.03186 | 0.840963 | -4.90653 | 0.312217 | 0.126928 | -0.18529 | 16 | 3152320 | R | II | | IGR | shelf | IGR-shelf | chr16:315 | rs7400558 | 49;33;30;27;16 |
| cg1867864 | 0.167985 | 0.290794 | 2.35844 | 0.032072 | 0.840963 | -4.91275 | 0.374787 | 0.206802 | -0.16799 | 5 | 1.35E+08 | R | II | MIR886 | TSS200 | island | TSS200-isla | chr5:1354 | rs5548486 | 26;15;12 |
| cg2283805 | 0.130193 | 0.340432 | 2.331234 | 0.033822 | 0.840963 | -4.96249 | 0.405528 | 0.275335 | -0.13019 | 19 | 872690 | F | II | MED16 | Body | shore | Body-shore | chr19:870 | rs1913636 | 33;35;37 |
| cg1858620 | 0.111105 | 0.424711 | 2.33016 | 0.033893 | 0.840963 | -4.96445 | 0.480263 | 0.369158 | -0.1111 | 14 | 22924450 | F | II | | IGR | opensea | IGR-opense | | rs1427944 | 1;41 |
| cg1987051 | 0.183206 | 0.329638 | 2.327779 | 0.03405 | 0.840963 | -4.96879 | 0.421241 | 0.238035 | -0.18321 | 12 | 4919081 | R | I | KCNA6 | 5'UTR | island | 5'UTR-islan | chr12:491 | rs1281218 | 26 |
| cg1045613 | 0.103836 | 0.538174 | 2.325646 | 0.034192 | 0.840963 | -4.97268 | 0.590092 | 0.486256 | -0.10384 | 9 | 76985951 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-o | | rs5668494 | 0;1;5;13 |
| cg1392085 | 0.155615 | 0.765318 | 2.321946 | 0.034439 | 0.840963 | -4.97941 | 0.843125 | 0.68751 | -0.15561 | 2 | 1.6E+08 | F | II | TANC1 | 5'UTR | opensea | 5'UTR-open | | rs5422787 | 0;13 |
| cg2172807 | 0.103692 | 0.608672 | 2.321098 | 0.034496 | 0.840963 | -4.98096 | 0.660518 | 0.556827 | -0.10369 | 5 | 9835108 | F | II | LOC28569 | Body | opensea | Body-open | | rs5506947 | 45;49 |
| cg1387375 | 0.101711 | 0.38279 | 2.315835 | 0.034852 | 0.840963 | -4.99053 | 0.433646 | 0.331934 | -0.10171 | 2 | 317826 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs5515383 | 33;13 |
| cg0173578 | 0.107007 | 0.258076 | 2.282552 | 0.037179 | 0.840963 | -5.05082 | 0.31158 | 0.204572 | -0.10701 | 22 | 27520354 | F | II | | IGR | opensea | IGR-opense | | rs5607008 | 49;51 |
| cg2487559 | 0.107686 | 0.856755 | 2.27912 | 0.037427 | 0.840963 | -5.05701 | 0.910598 | 0.802912 | -0.10769 | 21 | 45153009 | F | II | PDXK | Body | shelf | Body-shelf | chr21:451 | rs5731164 | 39 |
| cg0216827 | 0.195712 | 0.609209 | 2.276773 | 0.037597 | 0.840963 | -5.06124 | 0.707065 | 0.511353 | -0.19571 | 8 | 50110978 | F | II | | IGR | opensea | IGR-opense | | rs5757957 | 0;1 |
| cg1956153 | 0.101489 | 0.463074 | 2.268107 | 0.038233 | 0.840963 | -5.07685 | 0.513818 | 0.41233 | -0.10149 | 5 | 1.31E+08 | F | II | RAPGEF6 | Body | opensea | Body-open | | rs1922406 | 0;12;27 |
| cg1067166 | 0.1437 | 0.275014 | 2.264446 | 0.038505 | 0.840963 | -5.08344 | 0.346865 | 0.203164 | -0.1437 | 12 | 4919230 | R | I | KCNA6 | 1stExon | island | 1stExon-isl | chr12:491 | rs5776153 | 21 |
| cg1548959 | 0.16334 | 0.164339 | 2.25407 | 0.039285 | 0.840963 | -5.10207 | 0.246009 | 0.08267 | -0.16334 | 17 | 76010131 | F | II | TNRC6C | 5'UTR | opensea | 5'UTR-open | | rs1810716 | 23;40 |
| cg2532673 | 0.10782 | 0.44924 | 2.240538 | 0.040324 | 0.840963 | -5.12631 | 0.50315 | 0.395331 | -0.10782 | 4 | 2714321 | R | II | FAM193A | Body | opensea | Body-open | | rs1126529 | 17;1 |
| cg2263552 | 0.148929 | 0.601172 | 2.231351 | 0.041044 | 0.840963 | -5.14273 | 0.675637 | 0.526708 | -0.14893 | 6 | 32492390 | R | II | HLA-DRB5 | Body | shelf | Body-shelf | chr6:3248 | rs1152803 | 38 |
| cg0448192 | 0.181656 | 0.333455 | 2.217225 | 0.042174 | 0.840963 | -5.1679 | 0.424283 | 0.242627 | -0.18166 | 5 | 1.35E+08 | R | II | MIR886 | Body | island | Body-islanc | chr5:1354 | rs5387104 | 38;18;2 |
| cg1640661 | 0.11078 | 0.639969 | 2.212448 | 0.042563 | 0.840963 | -5.17639 | 0.695359 | 0.584579 | -0.11078 | 11 | 300404 | F | II | IFITM5 | TSS1500 | shore | TSS1500-sh | chr11:299 | rs5605609 | 21;30;31 |
| cg0310346 | 0.103507 | 0.320817 | 2.210497 | 0.042723 | 0.840963 | -5.17986 | 0.372571 | 0.269064 | -0.10351 | 14 | 22938728 | F | II | | IGR | opensea | IGR-opense | | rs5587059 | 1;6;43 |
| cg2432521 | 0.135036 | 0.704268 | 2.202069 | 0.04342 | 0.840963 | -5.19481 | 0.771785 | 0.63675 | -0.13504 | 18 | 3258800 | F | II | | IGR | shelf | IGR-shelf | chr18:326 | rs5428286 | 23;50 |
| cg2145516 | 0.109216 | 0.568926 | 2.201595 | 0.043459 | 0.840963 | -5.19565 | 0.623534 | 0.514319 | -0.10922 | 2 | 50763653 | F | II | NRXN1 | Body | opensea | Body-open | | rs1413706 | 7;35;50 |
| cg0477755 | 0.140841 | 0.840293 | 2.19695 | 0.043848 | 0.840963 | -5.20388 | 0.910714 | 0.769872 | -0.14084 | 6 | 32628953 | R | II | HLA-DQB1 | Body | shelf | Body-shelf | chr6:3263 | rs3513991 | 49;48;42;41;40;39;38;34;33;16;14;11;2 |
| cg0688874 | 0.177023 | 0.532172 | 2.192226 | 0.044246 | 0.840963 | -5.21224 | 0.620684 | 0.443661 | -0.17702 | 10 | 1.06E+08 | F | I | SH3PXD2A | Body | opensea | Body-open | | rs1163638 | 7;8;17;35 |
| cg2691383 | 0.152747 | 0.167968 | 2.189499 | 0.044478 | 0.840963 | -5.21707 | 0.244341 | 0.091594 | -0.15275 | 16 | 86542923 | F | II | FOXF1 | TSS1500 | island | TSS1500-isl | chr16:865 | rs7229591 | 4 |
| cg1872057 | 0.119297 | 0.506566 | 2.162624 | 0.046822 | 0.840963 | -5.26442 | 0.566215 | 0.446918 | -0.1193 | 15 | 29278600 | R | II | APBA2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1801630 | 0.10527 | 0.608827 | 2.145038 | 0.048417 | 0.840963 | -5.29523 | 0.661462 | 0.556193 | -0.10527 | 15 | 31287286 | F | I | | IGR | shelf | IGR-shelf | chr15:312 | rs7271044 | 8;13 |
| cg0713690 | 0.104634 | 0.442279 | 2.131543 | 0.049675 | 0.840963 | -5.31879 | 0.494596 | 0.389962 | -0.10463 | 11 | 71278894 | F | II | | IGR | opensea | IGR-opense | | rs5454114 | 12;21 |
| cg0209468 | 0.111775 | 0.293799 | 2.130222 | 0.049799 | 0.840963 | -5.32109 | 0.349687 | 0.237911 | -0.11178 | 5 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs1895585 | 0 |
| cg2475965 | 0.104277 | 0.455356 | 2.128948 | 0.04992 | 0.840963 | -5.32331 | 0.507494 | 0.403217 | -0.10428 | 17 | 76801065 | R | II | USP36 | Body | shelf | Body-shelf | chr17:767 | rs7476313 | 41;13;1 |

SUPPLEMENTAL TABLE 3 - FEMALE SUBSET - HYPER

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | LBP_f_AVG | Normal_f_/ | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg15053404 | -0.22031 | 0.630566 | -12.9801 | 1.82E-06 | 0.000477 | 5.836794 | 0.740722 | 0.52041 | 0.220312 | 10 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs3681419 | 13 |
| cg02183960 | -0.20834 | 0.290706 | -11.7405 | 3.79E-06 | 0.000591 | 5.113624 | 0.394875 | 0.186537 | 0.208337 | 5 | 35859088 | R | II | IL7R | Body | opensea | Body-opens | | rs1874228 | 9;2;1 |
| cg08841318 | -0.20836 | 0.175851 | -11.5237 | 4.34E-06 | 0.000618 | 4.978337 | 0.28003 | 0.071672 | 0.208358 | 6 | 1.25E+08 | F | I | RNF217 | 1stExon | island | 1stExon-isl | | | |
| cg12451425 | -0.20824 | 0.413949 | -11.3168 | 4.95E-06 | 0.000642 | 4.846629 | 0.518068 | 0.309831 | 0.208238 | 17 | 46625911 | F | II | HOXB-AS1 | Body | shore | Body-shore | chr17:466 | | |
| cg06817490 | -0.2099 | 0.337331 | -11.0836 | 5.75E-06 | 0.000675 | 4.694979 | 0.442281 | 0.232382 | 0.209899 | 17 | 55888548 | R | I | | IGR | opensea | IGR-opense | | rs7218692 | 22;21;13;11 |
| cg05095590 | -0.31524 | 0.370075 | -10.9293 | 6.36E-06 | 0.000697 | 4.592715 | 0.527693 | 0.212456 | 0.315236 | 7 | 2139259 | R | I | MAD1L1 | Body | opensea | Body-opens | | rs1895159 | 38 |
| cg24885723 | -0.29654 | 0.637775 | -10.6417 | 7.71E-06 | 0.000748 | 4.397998 | 0.786043 | 0.489507 | 0.296536 | 1 | 9030439 | F | II | CA6 | Body | opensea | Body-opens | | rs5342159 | 14 |
| cg21588347 | -0.20944 | 0.328914 | -10.5704 | 8.09E-06 | 0.000762 | 4.348874 | 0.433635 | 0.224193 | 0.209442 | 20 | 39667871 | R | II | TOP1 | Body | opensea | Body-opens | | rs5522316 | 43;27;1 |
| cg23651386 | -0.26047 | 0.347788 | -10.2148 | 1.03E-05 | 0.000839 | 4.098555 | 0.478023 | 0.217553 | 0.26047 | 19 | 47685890 | F | II | SAE1 | Body | opensea | Body-opens | | rs5414603 | 44 |
| cg16178058 | -0.24214 | 0.267346 | -10.039 | 1.17E-05 | 0.00088 | 3.971464 | 0.388413 | 0.146278 | 0.242135 | 11 | 1.28E+08 | F | I | ETS1 | Body | opensea | Body-opens | | rs7926975 | 15;18;35;46 |
| cg14199707 | -0.26159 | 0.564756 | -10.0133 | 1.19E-05 | 0.000886 | 3.952667 | 0.695551 | 0.433961 | 0.261589 | 6 | 90983735 | R | II | BACH2 | 5'UTR | opensea | 5'UTR-open | | rs5638636 | 48;3;2;1 |
| cg09988805 | -0.22929 | 0.314874 | -9.84537 | 1.34E-05 | 0.000932 | 3.828842 | 0.429522 | 0.200227 | 0.229294 | 2 | 43278552 | F | II | | IGR | opensea | IGR-opense | | rs5503594 | 0;12;48 |
| cg04217471 | -0.26675 | 0.320452 | -9.51947 | 1.71E-05 | 0.001034 | 3.582282 | 0.453826 | 0.187079 | 0.266747 | 12 | 6895978 | F | II | | IGR | opensea | IGR-opense | | rs1125748 | 7;21 |
| cg18722847 | -0.2031 | 0.239742 | -9.26622 | 2.07E-05 | 0.001125 | 3.384839 | 0.341294 | 0.13819 | 0.203104 | 3 | 44754129 | F | I | ZNF502 | TSS200 | island | TSS200-isla | chr3:4475 | rs1150324 | 12;26;48 |
| cg19882512 | -0.22738 | 0.388949 | -9.25015 | 2.09E-05 | 0.001132 | 3.372134 | 0.502638 | 0.27526 | 0.227378 | 5 | 1.33E+08 | F | II | | IGR | shelf | IGR-shelf | chr5:1334 | rs7656169 | 35 |
| cg22438763 | -0.23376 | 0.497179 | -9.21673 | 2.15E-05 | 0.001143 | 3.345642 | 0.61406 | 0.380299 | 0.233761 | 1 | 47900256 | R | I | FOXD2 | TSS1500 | island | TSS1500-isl | chr1:4789 | | |
| cg12201505 | -0.2166 | 0.477686 | -9.20077 | 2.17E-05 | 0.001148 | 3.332952 | 0.585988 | 0.369384 | 0.216604 | 4 | 1.24E+08 | F | II | SPATA5 | Body | opensea | Body-opens | | rs5303529 | 0 |
| cg01765967 | -0.30709 | 0.484585 | -9.17933 | 2.21E-05 | 0.001156 | 3.315875 | 0.638128 | 0.331042 | 0.307086 | 17 | 78637626 | R | II | RPTOR | Body | opensea | Body-opens | | rs5438319 | 15;6 |
| cg27009448 | -0.24936 | 0.516874 | -9.16965 | 2.22E-05 | 0.00116 | 3.308157 | 0.641553 | 0.392194 | 0.24936 | 10 | 1.2E+08 | R | II | C10orf46 | Body | opensea | Body-opens | | | |
| cg24915004 | -0.25317 | 0.493868 | -9.07539 | 2.39E-05 | 0.001196 | 3.232548 | 0.620452 | 0.367285 | 0.253167 | 15 | 43001029 | F | II | STARD9 | Body | opensea | Body-opens | | rs5348960 | 17;22;46 |
| cg12189962 | -0.29436 | 0.47329 | -9.03614 | 2.47E-05 | 0.001211 | 3.200842 | 0.620468 | 0.326113 | 0.294355 | 20 | 31098130 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5426220 | 33 |
| cg13444434 | -0.20711 | 0.290081 | -8.90932 | 2.72E-05 | 0.001264 | 3.097493 | 0.393637 | 0.186525 | 0.207112 | 6 | 35570573 | R | II | FKBP5 | Body | opensea | Body-opens | | rs1847338 | 10 |
| cg05057720 | -0.21638 | 0.196016 | -8.88089 | 2.79E-05 | 0.001277 | 3.074133 | 0.304208 | 0.087825 | 0.216383 | 14 | 38724675 | R | I | CLEC14A | 1stExon | island | 1stExon-isl | chr14:387 | rs1146228 | 24;21 |
| cg23774988 | -0.24323 | 0.435383 | -8.84923 | 2.86E-05 | 0.001288 | 3.048032 | 0.556999 | 0.313767 | 0.243232 | 11 | 1.28E+08 | F | I | ETS1 | Body | island | Body-islanc | chr11:128 | rs4396302 | 25;28 |
| cg15352525 | -0.23034 | 0.578288 | -8.80122 | 2.97E-05 | 0.001309 | 3.008277 | 0.69346 | 0.463116 | 0.230344 | 22 | 39812626 | R | II | TAB1 | Body | opensea | Body-opens | | rs5551565 | 48;2 |
| cg16230121 | -0.23315 | 0.323046 | -8.72115 | 3.16E-05 | 0.001344 | 2.941532 | 0.439619 | 0.206473 | 0.233145 | 11 | 6435089 | F | II | APBB1 | 5'UTR | opensea | 5'UTR-open | | rs1884733 | 14 |
| cg24398381 | -0.27811 | 0.406117 | -8.69759 | 3.22E-05 | 0.001356 | 2.921781 | 0.545171 | 0.267063 | 0.278108 | 18 | 77276814 | R | II | NFATC1 | Body | shelf | Body-shelf | chr18:772 | rs5442072 | 42;38;31;13;2 |
| cg04976117 | -0.20715 | 0.362568 | -8.62651 | 3.41E-05 | 0.001389 | 2.861884 | 0.466145 | 0.258991 | 0.207154 | 5 | 1.11E+08 | R | II | CAMK4 | Body | opensea | Body-opens | | rs5363789 | 46;45;35;21;20;1 |
| cg12121660 | -0.20451 | 0.248045 | -8.6221 | 3.43E-05 | 0.001391 | 2.858153 | 0.350301 | 0.145788 | 0.204513 | 17 | 46621709 | F | I | HOXB2 | Body | shore | Body-shore | chr17:466 | | |
| cg06410591 | -0.2181 | 0.3313 | -8.6005 | 3.49E-05 | 0.001402 | 2.839856 | 0.440351 | 0.222248 | 0.218102 | 19 | 6741181 | R | I | TRIP10 | Body | island | Body-islanc | chr19:674 | rs5464567 | 19 |
| cg04113075 | -0.20751 | 0.312116 | -8.55132 | 3.63E-05 | 0.001428 | 2.798024 | 0.415871 | 0.208361 | 0.20751 | 6 | 1.47E+08 | R | II | RAB32 | Body | shore | Body-shore | chr6:1468 | rs4128586 | 24 |
| cg06011086 | -0.24211 | 0.452597 | -8.55015 | 3.63E-05 | 0.001428 | 2.797034 | 0.573653 | 0.331541 | 0.242111 | 8 | 61823275 | F | II | | IGR | shore | IGR-shore | chr8:6182 | rs5524829 | 10 |
| cg08280368 | -0.29805 | 0.369234 | -8.54849 | 3.64E-05 | 0.001429 | 2.795614 | 0.518258 | 0.220209 | 0.298049 | 14 | 71110536 | F | II | TTC9 | Body | shore | Body-shore | chr14:711 | rs7406331 | 13;30;31;35;42 |
| cg02295831 | -0.22191 | 0.4582 | -8.52857 | 3.7E-05 | 0.001441 | 2.778605 | 0.569156 | 0.347244 | 0.221912 | 3 | 16416167 | F | II | RFTN1 | Body | opensea | Body-opens | | rs5752060 | 22;31;45 |
| cg12633154 | -0.32084 | 0.567807 | -8.5275 | 3.7E-05 | 0.001441 | 2.77769 | 0.728228 | 0.407386 | 0.320842 | 6 | 30039435 | R | I | RNF39 | Body | island | Body-islanc | chr6:3003 | rs2301752 | 19;18 |
| cg18208842 | -0.20395 | 0.567696 | -8.43354 | 4E-05 | 0.001494 | 2.69694 | 0.669671 | 0.465722 | 0.203949 | 2 | 287395 | F | I | FAM150B | Body | island | Body-islanc | chr2:2873 | rs5613771 | 9 |
| cg26768584 | -0.24812 | 0.308676 | -8.40855 | 4.08E-05 | 0.001509 | 2.675323 | 0.432736 | 0.184616 | 0.248119 | 3 | 18480242 | R | II | SATB1 | 5'UTR | opensea | 5'UTR-open | | rs5391052 | 20 |
| cg10864951 | -0.25664 | 0.308301 | -8.35395 | 4.27E-05 | 0.001541 | 2.627888 | 0.436621 | 0.179981 | 0.25664 | 7 | 1159070 | F | II | C7orf50 | Body | shore | Body-shore | chr7:1155 | rs5333103 | 0;11;13;49 |
| cg21780393 | -0.22353 | 0.337526 | -8.32498 | 4.37E-05 | 0.001559 | 2.602606 | 0.449288 | 0.225763 | 0.223525 | 17 | 46618919 | R | II | | IGR | shore | IGR-shore | chr17:466 | | |
| cg00885208 | -0.28072 | 0.419115 | -8.29921 | 4.47E-05 | 0.001576 | 2.580046 | 0.559474 | 0.278757 | 0.280717 | 15 | 70827566 | R | II | | IGR | opensea | IGR-opense | | rs5442891 | 38;19;1 |
| cg12682972 | -0.23862 | 0.397141 | -8.28099 | 4.54E-05 | 0.001587 | 2.564057 | 0.516451 | 0.277831 | 0.23862 | 2 | 1.02E+08 | F | II | MAP4K4 | Body | opensea | Body-opens | | rs3716943 | 4;48 |
| cg16240816 | -0.30381 | 0.409172 | -8.27457 | 4.56E-05 | 0.001591 | 2.558418 | 0.561077 | 0.257267 | 0.303811 | 2 | 65861662 | F | II | | IGR | opensea | IGR-opense | | rs5340833 | 51 |
| cg27331241 | -0.21029 | 0.199647 | -8.26714 | 4.59E-05 | 0.001597 | 2.551887 | 0.304792 | 0.094501 | 0.210292 | 7 | 751830 | F | I | PRKAR1B | 5'UTR | island | 5'UTR-islan | chr7:7517 | rs5525994 | 13 |
| cg24563570 | -0.21414 | 0.246363 | -8.19655 | 4.87E-05 | 0.001643 | 2.489546 | 0.353432 | 0.139294 | 0.214138 | 10 | 60936801 | F | I | PHYHIPL | Body | island | Body-islanc | chr10:609 | rs3763659 | 9;30 |
| cg15297642 | -0.23944 | 0.36435 | -8.19378 | 4.88E-05 | 0.001645 | 2.487085 | 0.484072 | 0.244628 | 0.239444 | 18 | 13369816 | R | II | LDLRAD4 | 5'UTR | opensea | 5'UTR-open | | | |
| cg10757080 | -0.26521 | 0.48726 | -8.17782 | 4.95E-05 | 0.001655 | 2.47292 | 0.619866 | 0.354655 | 0.265211 | 3 | 39336300 | F | II | | IGR | opensea | IGR-opense | | rs5291422 | 1 |
| cg22190381 | -0.20306 | 0.459809 | -8.15861 | 5.03E-05 | 0.001668 | 2.455833 | 0.561337 | 0.358281 | 0.203056 | 10 | 1.16E+08 | R | II | ABLIM1 | Body | opensea | Body-opens | | rs5599614 | 50;2;1 |
| cg25979005 | -0.21015 | 0.413574 | -8.13946 | 5.11E-05 | 0.001682 | 2.438766 | 0.51865 | 0.308498 | 0.210152 | 8 | 99794263 | F | II | STK3 | Body | opensea | Body-opens | | rs5495433 | 47 |
| cg09644974 | -0.20842 | 0.406427 | -8.13141 | 5.15E-05 | 0.001687 | 2.43158 | 0.510638 | 0.302216 | 0.208422 | 2 | 1.77E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:1773 | | |
| cg06943912 | -0.2341 | 0.447835 | -8.10008 | 5.28E-05 | 0.001713 | 2.403555 | 0.564885 | 0.330785 | 0.234099 | 19 | 10715612 | F | I | SLC44A2 | Body | shelf | Body-shelf | chr19:107 | rs5602263 | 0;1;3;44 |
| cg03117976 | -0.21817 | 0.193477 | -8.07847 | 5.38E-05 | 0.001728 | 2.384168 | 0.302562 | 0.084393 | 0.21817 | 18 | 11149435 | F | I | FAM38B | TSS1500 | island | TSS1500-isl | chr18:111 | rs5724852 | 51 |
| cg26053175 | -0.25933 | 0.391151 | -8.07343 | 5.41E-05 | 0.001731 | 2.379638 | 0.520814 | 0.261488 | 0.259327 | 19 | 51858098 | R | II | ETFB | TSS200 | opensea | TSS200-ope | | rs5428185 | 5 |
| cg16709841 | -0.23916 | 0.243853 | -8.00848 | 5.72E-05 | 0.00178 | 2.321046 | 0.363433 | 0.124272 | 0.239161 | 12 | 11708901 | R | II | LINC01252 | Body | opensea | Body-opens | | rs3746755 | 40;1 |
| cg23870749 | -0.21957 | 0.264904 | -8.0073 | 5.72E-05 | 0.001781 | 2.319981 | 0.374689 | 0.15512 | 0.219569 | 1 | 2.27E+08 | R | II | PSEN2 | Body | opensea | Body-opens | | | |
| cg16971827 | -0.24506 | 0.379995 | -8.00706 | 5.72E-05 | 0.001781 | 2.319766 | 0.502523 | 0.257466 | 0.245057 | 11 | 1.19E+08 | R | II | CBL | 3'UTR | shelf | 3'UTR-shelf | chr11:119 | rs5614203 | 2 |
| cg19196555 | -0.20904 | 0.576082 | -7.97835 | 5.87E-05 | 0.001802 | 2.293732 | 0.680602 | 0.471562 | 0.209039 | 4 | 57524758 | R | II | HOPX | 5'UTR | shelf | 5'UTR-shelf | chr4:5752 | | |
| cg03013609 | -0.72502 | 0.40937 | -7.96664 | 5.93E-05 | 0.001812 | 2.283085 | 0.77188 | 0.046861 | 0.725019 | 1 | 2.37E+08 | F | II | LGALS8 | Body | opensea | Body-opens | | rs2870452 | 0;11;22 |
| cg22556683 | -0.2097 | 0.32066 | -7.93424 | 6.09E-05 | 0.001838 | 2.25356 | 0.425512 | 0.215808 | 0.209704 | 15 | 91427738 | R | I | FES | TSS1500 | island | TSS1500-isl | chr15:914 | rs1386825 | 48 |
| cg07384080 | -0.22631 | 0.31251 | -7.92256 | 6.16E-05 | 0.001847 | 2.242891 | 0.425663 | 0.199356 | 0.226307 | 1 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs6701295 | 27 |
| cg05961294 | -0.21895 | 0.463464 | -7.91191 | 6.21E-05 | 0.001856 | 2.233157 | 0.572937 | 0.35399 | 0.218947 | 2 | 45028264 | R | II | | IGR | shore | IGR-shore | chr2:4502 | rs1148572 | 7 |
| cg23038277 | -0.23015 | 0.426216 | -7.91015 | 6.22E-05 | 0.001857 | 2.23154 | 0.541292 | 0.31114 | 0.230152 | 1 | 2.27E+08 | R | I | ITPKB | Body | shelf | Body-shelf | chr1:2268 | rs1149166 | 49;39;34;1 |
| cg04192168 | -0.29028 | 0.501771 | -7.85974 | 6.5E-05 | 0.001896 | 2.185276 | 0.646912 | 0.356629 | 0.290283 | 15 | 64806741 | R | II | ZNF609 | Body | opensea | Body-opens | | | |
| cg26024874 | -0.26288 | 0.472117 | -7.85673 | 6.52E-05 | 0.001899 | 2.182502 | 0.603559 | 0.340674 | 0.262884 | 18 | 54541128 | F | II | WDR7 | Body | opensea | Body-opens | | rs5352012 | 9;12 |
| cg12909116 | -0.24949 | 0.544182 | -7.85121 | 6.55E-05 | 0.001903 | 2.177417 | 0.668925 | 0.419439 | 0.249486 | 11 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs7112218 | 46;35;24;9 |
| cg06991787 | -0.27061 | 0.610165 | -7.82928 | 6.68E-05 | 0.001922 | 2.15719 | 0.745469 | 0.47486 | 0.270609 | 16 | 4094902 | F | I | ADCY9 | Body | opensea | Body-opens | | rs5587014 | 22;23;31;51 |
| cg04506765 | -0.20974 | 0.2282 | -7.81881 | 6.74E-05 | 0.00193 | 2.147507 | 0.333073 | 0.123328 | 0.209744 | 16 | 89601126 | F | II | SPG7 | Body | shelf | Body-shelf | chr16:896 | rs5534166 | 5 |
| cg09747445 | -0.26338 | 0.478596 | -7.81735 | 6.75E-05 | 0.001931 | 2.146165 | 0.610288 | 0.346903 | 0.263384 | 15 | 70387268 | R | II | TLE3 | Body | shore | Body-shore | chr15:703 | rs5290753 | 46;45;42;37;36;23;11;10;8 |
| cg26769700 | -0.25094 | 0.481155 | -7.80111 | 6.84E-05 | 0.001944 | 2.13113 | 0.606625 | 0.355686 | 0.250939 | 8 | 1.41E+08 | F | I | TRAPPC9 | Body | opensea | Body-opens | | rs1480574 | 11;12;43 |
| cg08899626 | -0.22255 | 0.551364 | -7.79594 | 6.88E-05 | 0.001949 | 2.126335 | 0.662636 | 0.440091 | 0.222545 | 4 | 16900199 | R | II | LDB2 | 1stExon | opensea | 1stExon-op | | rs5307465 | 27 |
| cg16352724 | -0.29447 | 0.372014 | -7.79041 | 6.91E-05 | 0.001953 | 2.121205 | 0.51925 | 0.224779 | 0.294471 | 6 | 1.43E+08 | R | II | HIVEP2 | 5'UTR | opensea | 5'UTR-open | | rs1170489 | 21 |
| cg03448915 | -0.22578 | 0.436192 | -7.75833 | 7.11E-05 | 0.001981 | 2.091394 | 0.549081 | 0.323302 | 0.225779 | 16 | 66583078 | F | I | TK2 | Body | shore | Body-shore | chr16:665 | rs5738853 | 18;21;27;42 |
| cg21592975 | -0.30658 | 0.588891 | -7.75271 | 7.14E-05 | 0.001985 | 2.086161 | 0.742181 | 0.435601 | 0.30658 | 21 | 48053829 | F | II | | IGR | shore | IGR-shore | chr21:480 | rs1472191 | 0;1;47 |
| cg21093166 | -0.20135 | 0.27827 | -7.736 | 7.25E-05 | 0.001999 | 2.070583 | 0.378946 | 0.177595 | 0.201352 | 5 | 2752145 | F | I | IRX2 | TSS1500 | island | TSS1500-isl | chr5:2748 | rs5512808 | 4;6;48 |
| cg12258042 | -0.20536 | 0.288797 | -7.73482 | 7.26E-05 | 0.002 | 2.06948 | 0.391476 | 0.186119 | 0.205357 | 8 | 4852036 | R | I | CSMD1 | 5'UTR | island | 5'UTR-islan | chr8:4848 | rs5528899 | 44;15;6 |
| cg24177970 | -0.27278 | 0.418456 | -7.72882 | 7.3E-05 | 0.002004 | 2.063878 | 0.554849 | 0.282064 | 0.272785 | 1 | 89127007 | R | II | PKN2-AS1 | Body | opensea | Body-opens | | rs5410813 | 48;38 |
| cg26176214 | -0.20033 | 0.261037 | -7.72836 | 7.3E-05 | 0.002005 | 2.063447 | 0.361201 | 0.160873 | 0.200328 | 2 | 2.4E+08 | R | II | HDAC4 | Body | opensea | Body-opens | | rs5535244 | 10 |
| cg00039170 | -0.2282 | 0.311059 | -7.71903 | 7.36E-05 | 0.002013 | 2.054723 | 0.425158 | 0.196959 | 0.228199 | 3 | 18480381 | R | II | SATB1 | TSS200 | opensea | TSS200-ope | | rs1143129 | 49;39;31 |
| cg03018771 | -0.20181 | 0.414741 | -7.71122 | 7.41E-05 | 0.002022 | 2.047421 | 0.515648 | 0.313835 | 0.201813 | 1 | 27940619 | R | II | FGR | Body | shore | Body-shore | chr1:2794 | rs1863766 | 11;4;1 |
| cg18282017 | -0.25581 | 0.538233 | -7.70296 | 7.46E-05 | 0.002029 | 2.039684 | 0.66614 | 0.410326 | 0.255814 | 2 | 2.08E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5578146 | 33 |
| cg21226442 | -0.23509 | 0.537302 | -7.69861 | 7.49E-05 | 0.002032 | 2.035605 | 0.654846 | 0.419758 | 0.235089 | 12 | 27088580 | R | II | C12orf11 | Body | shelf | Body-shelf | chr12:270 | rs5462160 | 48;11 |
| cg02208313 | -0.22677 | 0.386015 | -7.68756 | 7.57E-05 | 0.002042 | 2.025244 | 0.499399 | 0.272632 | 0.226767 | 17 | 80085332 | F | II | CCDC57 | Body | island | Body-islanc | chr17:800 | rs5358530 | 1;9 |
| cg16842449 | -0.26166 | 0.499395 | -7.65182 | 7.81E-05 | 0.002075 | 1.991636 | 0.630222 | 0.368567 | 0.261655 | 1 | 31233894 | R | II | | IGR | opensea | IGR-opense | | rs1872358 | 14;13 |
| cg20904475 | -0.24468 | 0.566802 | -7.64758 | 7.84E-05 | 0.00208 | 1.987632 | 0.689142 | 0.444463 | 0.244679 | 8 | 61823027 | F | II | | IGR | island | IGR-island | chr8:6182 | | |
| cg08905080 | -0.22706 | 0.238634 | -7.64566 | 7.86E-05 | 0.002081 | 1.985825 | 0.352166 | 0.125102 | 0.227064 | 16 | 89600764 | R | II | SPG7 | Body | shelf | Body-shelf | chr16:896 | rs463930;r | 48;37;34;1 |
| cg08449791 | -0.20524 | 0.487242 | -7.64543 | 7.86E-05 | 0.002082 | 1.98561 | 0.589863 | 0.384622 | 0.205241 | 2 | 8465454 | R | II | LINC00299 | Body | opensea | Body-opens | | rs7278106 | 50;14 |
| cg02343604 | -0.23102 | 0.299247 | -7.60684 | 8.13E-05 | 0.002117 | 1.949141 | 0.414757 | 0.183738 | 0.231019 | 1 | 23884703 | F | II | ID3 | 3'UTR | shore | 3'UTR-shor | chr1:2388 | | |
| cg04479203 | -0.23471 | 0.538644 | -7.60287 | 8.16E-05 | 0.002122 | 1.945383 | 0.655999 | 0.421289 | 0.23471 | 8 | 61823106 | R | II | | IGR | shore | IGR-shore | chr8:6182 | | |
| cg05966255 | -0.27435 | 0.510441 | -7.59931 | 8.19E-05 | 0.002125 | 1.942009 | 0.647617 | 0.373266 | 0.274351 | 17 | 38758057 | R | II | | IGR | opensea | IGR-opense | | rs5694599 | 1 |
| cg01447281 | -0.20008 | 0.240144 | -7.57628 | 8.36E-05 | 0.002147 | 1.92015 | 0.340186 | 0.140102 | 0.200084 | 1 | 8482689 | F | II | RERE | 5'UTR | shore | 5'UTR-shor | chr1:8483 | rs1135996 | 34 |
| cg21404980 | -0.20683 | 0.254599 | -7.57139 | 8.4E-05 | 0.002152 | 1.915502 | 0.358015 | 0.151184 | 0.206831 | 8 | 1.45E+08 | F | II | ZC3H3 | Body | shelf | Body-shelf | chr8:1446 | rs5706929 | 5;8;9;37 |
| cg14728071 | -0.2067 | 0.197952 | -7.54283 | 8.62E-05 | 0.002181 | 1.888295 | 0.301304 | 0.0946 | 0.206704 | 10 | 22030034 | F | II | MLLT10 | 3'UTR | opensea | 3'UTR-open | | rs1379468 | 0;3;33 |
| cg11670533 | -0.27971 | 0.551022 | -7.53245 | 8.7E-05 | 0.002191 | 1.878384 | 0.690875 | 0.411169 | 0.279706 | 3 | 71421949 | F | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs1893613 | 0;12 |
| cg03546163 | -0.31854 | 0.403934 | -7.53126 | 8.71E-05 | 0.002192 | 1.877256 | 0.563203 | 0.244665 | 0.318538 | 6 | 35654363 | R | II | FKBP5 | 5'UTR | shore | 5'UTR-shor | chr6:3565 | | |
| cg07086945 | -0.2499 | 0.353281 | -7.51582 | 8.83E-05 | 0.002208 | 1.862488 | 0.478231 | 0.22833 | 0.249901 | 6 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg04297912 | -0.28497 | 0.358143 | -7.51564 | 8.83E-05 | 0.002208 | 1.862321 | 0.500628 | 0.215658 | 0.28497 | 11 | 1.02E+08 | R | II | BIRC2 | Body | opensea | Body-opens | | rs5388000 | 41;10 |
| cg25461186 | -0.25941 | 0.477053 | -7.51205 | 8.86E-05 | 0.002212 | 1.858879 | 0.606756 | 0.34735 | 0.259407 | 12 | 1.23E+08 | F | II | MLXIP | Body | shore | Body-shore | chr12:122 | rs5315780 | 49 |
| cg25519284 | -0.21686 | 0.291189 | -7.49496 | 9E-05 | 0.002229 | 1.842501 | 0.399621 | 0.182757 | 0.216864 | 8 | 15397671 | F | I | TUSC3 | 5'UTR | island | 5'UTR-islan | chr8:1539 | rs5562512 | 4;49 |
| cg07278844 | -0.25825 | 0.190133 | -7.46598 | 9.24E-05 | 0.002262 | 1.814656 | 0.319256 | 0.061011 | 0.258245 | 6 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5584787 | 9;33;39 |
| cg09081994 | -0.23659 | 0.577588 | -7.46522 | 9.24E-05 | 0.002262 | 1.813933 | 0.695882 | 0.459295 | 0.236587 | 3 | 1.19E+08 | F | II | CDGAP | TSS1500 | shore | TSS1500-sh | chr3:1190 | rs7570768 | 7;8 |
| cg26708319 | -0.2037 | 0.303683 | -7.44903 | 9.38E-05 | 0.00228 | 1.798331 | 0.405534 | 0.201832 | 0.203701 | 4 | 1.12E+08 | R | I | PITX2 | Body | shore | Body-shore | chr4:1115 | rs5578411 | 24 |
| cg10555744 | -0.30113 | 0.566389 | -7.44695 | 9.4E-05 | 0.002282 | 1.796324 | 0.716954 | 0.415824 | 0.301129 | 1 | 25946258 | R | II | MAN1C1 | Body | shore | Body-shore | chr1:2594 | rs1419674 | 27 |
| cg23429235 | -0.20709 | 0.306091 | -7.41076 | 9.71E-05 | 0.002322 | 1.761352 | 0.409634 | 0.202549 | 0.207085 | 13 | 22103469 | F | II | MICU2 | Body | opensea | Body-opens | | rs5740213 | 1 |
| cg22855968 | -0.23789 | 0.324173 | -7.40985 | 9.72E-05 | 0.002322 | 1.760472 | 0.443119 | 0.205226 | 0.237893 | 6 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs3740639 | 37;22;2 |
| cg03599009 | -0.24119 | 0.325747 | -7.40653 | 9.75E-05 | 0.002326 | 1.757253 | 0.446343 | 0.205152 | 0.241191 | 17 | 38501491 | F | I | RARA | Body | island | Body-islanc | chr17:385 | rs5400456 | 28 |
| cg03275049 | -0.30321 | 0.672588 | -7.39563 | 9.85E-05 | 0.002339 | 1.74668 | 0.824193 | 0.520984 | 0.303209 | 11 | 1.28E+08 | R | II | | IGR | opensea | IGR-opense | | rs5670371 | 48;7 |
| cg18395917 | -0.23093 | 0.335067 | -7.38585 | 9.94E-05 | 0.00235 | 1.737189 | 0.450532 | 0.219602 | 0.23093 | 11 | 76033367 | R | I | | IGR | island | IGR-island | chr11:760 | rs1426680 | 41;26 |
| cg26099045 | -0.22188 | 0.398859 | -7.35295 | 0.000102 | 0.002385 | 1.705182 | 0.5098 | 0.287919 | 0.221881 | 2 | 64291800 | F | II | | IGR | opensea | IGR-opense | | rs1890266 | 45 |
| cg08320911 | -0.24353 | 0.390929 | -7.34901 | 0.000103 | 0.002389 | 1.701335 | 0.512694 | 0.269164 | 0.24353 | 11 | 48065094 | F | II | PTPRJ | Body | opensea | Body-opens | | rs5355307 | 3;20;36;40;45 |
| cg02747184 | -0.30964 | 0.519272 | -7.34209 | 0.000103 | 0.002396 | 1.694583 | 0.674092 | 0.364453 | 0.309639 | 3 | 71422467 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs1437129 | 43;14;1 |
| cg22913471 | -0.25956 | 0.343197 | -7.33739 | 0.000104 | 0.002402 | 1.689991 | 0.472979 | 0.213415 | 0.259564 | 10 | 6635326 | R | II | | IGR | opensea | IGR-opense | | rs1926465 | 16;15 |
| cg08210036 | -0.22701 | 0.252367 | -7.33683 | 0.000104 | 0.002402 | 1.68945 | 0.36587 | 0.138864 | 0.227006 | 17 | 1775372 | F | II | RPA1 | Body | opensea | Body-opens | | | |
| cg13860006 | -0.21571 | 0.288315 | -7.32807 | 0.000105 | 0.002412 | 1.680888 | 0.396169 | 0.180461 | 0.215709 | 19 | 6741178 | R | I | TRIP10 | Body | island | Body-islanc | chr19:674 | rs2012897 | 49;16 |
| cg24617313 | -0.20309 | 0.618549 | -7.31683 | 0.000106 | 0.002426 | 1.669892 | 0.720092 | 0.517005 | 0.203087 | 20 | 57427146 | R | I | GNAS | TSS1500 | shore | TSS1500-sh | chr20:574 | rs5401995 | 30;16;12 |
| cg11115176 | -0.2132 | 0.405826 | -7.31602 | 0.000106 | 0.002426 | 1.6691 | 0.512425 | 0.299227 | 0.213198 | 10 | 1.16E+08 | F | II | ABLIM1 | Body | opensea | Body-opens | | rs1827965 | 17 |
| cg25011475 | -0.21546 | 0.411911 | -7.3142 | 0.000106 | 0.002428 | 1.667318 | 0.51964 | 0.304182 | 0.215458 | 10 | 88517608 | F | I | BMPR1A | 5'UTR | shore | 5'UTR-shor | chr10:885 | rs3749762 | 35 |
| cg05678733 | -0.21648 | 0.584522 | -7.31006 | 0.000107 | 0.002431 | 1.663264 | 0.69276 | 0.476284 | 0.216476 | 5 | 43010511 | F | II | | IGR | opensea | IGR-opense | | rs1119135 | 19 |
| cg12476968 | -0.20597 | 0.270774 | -7.30956 | 0.000107 | 0.002431 | 1.662768 | 0.373758 | 0.167791 | 0.205966 | 15 | 34610829 | R | II | SLC12A6 | Body | opensea | Body-opens | | rs1507518 | 45;35;28;8;5 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg20338754 | -0.23121 | 0.288386 | -7.30809 | 0.000107 | 0.002433 | 1.661335 | 0.40399 | 0.172781 | 0.231209 | 18 | 29677086 | F | II | RNF138 | Body | shelf | Body-shelf | chr18:296: | | | | | |
| cg02625086 | -0.24751 | 0.341757 | -7.29742 | 0.000108 | 0.002444 | 1.650874 | 0.46551 | 0.218005 | 0.247506 | 4 | 1.09E+08 | F | II | LEF1 | Body | shore | Body-shore | chr4:10908 | rs5679971 | 0 | 1;45 | | |
| cg17104283 | -0.23399 | 0.349543 | -7.29283 | 0.000108 | 0.002448 | 1.646361 | 0.466537 | 0.232549 | 0.233988 | 14 | 61946103 | R | II | PRKCH | Body | opensea | Body-open | | | | | | |
| cg10642599 | -0.23502 | 0.351588 | -7.28832 | 0.000109 | 0.002453 | 1.641936 | 0.469096 | 0.234081 | 0.235016 | 10 | 74014931 | F | I | | IGR | opensea | IGR-opense | | rs5594281 | 8 | 9;41;44 | | |
| cg23712342 | -0.25163 | 0.315658 | -7.28789 | 0.000109 | 0.002454 | 1.641513 | 0.441472 | 0.189844 | 0.251628 | 10 | 60936794 | F | I | PHYHIPL | Body | island | Body-islanc | chr10:6095 | rs3763659 | 16 | 37 | | |
| cg19839221 | -0.23684 | 0.378546 | -7.28651 | 0.000109 | 0.002455 | 1.64016 | 0.496967 | 0.260125 | 0.236843 | 17 | 7787027 | R | II | CHD3 | TSS1500 | shore | TSS1500-sh | chr17:7788 | | | | | |
| cg21344746 | -0.22207 | 0.451671 | -7.26242 | 0.000111 | 0.002483 | 1.61646 | 0.562706 | 0.340636 | 0.22207 | 10 | 80831230 | R | I | ZMIZ1 | 5'UTR | shore | 5'UTR-shor | chr10:8082 | rs1415845 | 48 | 34 | | |
| cg11264678 | -0.22107 | 0.439572 | -7.2575 | 0.000112 | 0.002488 | 1.611614 | 0.550107 | 0.329036 | 0.221071 | 17 | 40466210 | F | II | STAT3 | 3'UTR | shore | 3'UTR-shor | chr17:4046 | rs7545484 | 36 | | | |
| cg01106909 | -0.2323 | 0.358256 | -7.25628 | 0.000112 | 0.00249 | 1.610413 | 0.474404 | 0.242108 | 0.232296 | 11 | 1778627 | R | II | HCCA2 | Body | shelf | Body-shelf | chr11:1774 | rs2015511 | 25 | 19;10;7 | ;1 | |
| cg16125894 | -0.25397 | 0.359089 | -7.25117 | 0.000113 | 0.002496 | 1.605374 | 0.486072 | 0.232106 | 0.253967 | 1 | 1.81E+08 | R | II | | IGR | opensea | IGR-opense | | rs6658636 | 19 | 2 | | |
| cg23896695 | -0.28528 | 0.402451 | -7.24359 | 0.000113 | 0.002505 | 1.59789 | 0.545089 | 0.259813 | 0.285276 | 8 | 1.29E+08 | R | II | PVT1 | Body | opensea | Body-open | | | | | | |
| cg26430287 | -0.20083 | 0.400942 | -7.23667 | 0.000114 | 0.002515 | 1.591057 | 0.501357 | 0.300527 | 0.20083 | 15 | 67439567 | R | II | SMAD3 | Body | opensea | Body-open | | rs5728921 | 9 | | | |
| cg25920520 | -0.26088 | 0.513053 | -7.22772 | 0.000115 | 0.002527 | 1.582208 | 0.643492 | 0.382614 | 0.260878 | 17 | 42147463 | R | II | G6PC3 | TSS1500 | shore | TSS1500-sh | chr17:4214 | rs1929657 | 14 | ;11 | | |
| cg09755397 | -0.3078 | 0.517553 | -7.2168 | 0.000116 | 0.002542 | 1.571401 | 0.671452 | 0.363653 | 0.307799 | 4 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5525733 | 6 | | | |
| cg26958839 | -0.22722 | 0.461992 | -7.18692 | 0.00012 | 0.002578 | 1.541767 | 0.575604 | 0.34838 | 0.227225 | 17 | 78637686 | F | II | RPTOR | Body | opensea | Body-open | | rs5603864 | 14 | ;27 | | |
| cg01355089 | -0.21605 | 0.304594 | -7.18173 | 0.00012 | 0.002586 | 1.536605 | 0.412617 | 0.196571 | 0.216046 | 1 | 93495018 | F | II | | IGR | opensea | IGR-opense | | rs5750336 | 1 | ;10;31;38;39 | | |
| cg00686154 | -0.21429 | 0.670012 | -7.16864 | 0.000122 | 0.002603 | 1.523577 | 0.777156 | 0.562867 | 0.214288 | 14 | 68844858 | R | II | RAD51B | Body | opensea | Body-open | | rs7405930 | 33 | | | |
| cg16375820 | -0.2463 | 0.607084 | -7.16682 | 0.000122 | 0.002606 | 1.521766 | 0.730237 | 0.483932 | 0.246305 | 5 | 55289001 | F | II | IL6ST | 5'UTR | shore | 5'UTR-shor | chr5:5529( | rs3774892 | 2 | ;28;42 | | |
| cg08995061 | -0.25912 | 0.4465 | -7.15095 | 0.000124 | 0.002626 | 1.505943 | 0.576061 | 0.316939 | 0.259121 | 2 | 1.74E+08 | F | II | ZAK | Body | opensea | Body-open | | rs1841978 | 1 | ;47 | | |
| cg17494034 | -0.22199 | 0.377633 | -7.15032 | 0.000124 | 0.002626 | 1.505317 | 0.48863 | 0.266637 | 0.221992 | 1 | 12513497 | F | II | VPS13D | Body | opensea | Body-open | | rs1817053 | 1 | | | |
| cg04635642 | -0.26667 | 0.459053 | -7.14045 | 0.000125 | 0.00264 | 1.49546 | 0.592388 | 0.325718 | 0.26667 | 16 | 12183938 | R | I | SNX29 | Body | opensea | Body-open | | rs5334388 | 8 | | | |
| cg07013955 | -0.23785 | 0.346557 | -7.1303 | 0.000126 | 0.002654 | 1.485316 | 0.46548 | 0.227635 | 0.237845 | 16 | 1595532 | R | II | IFT140 | Body | shelf | Body-shelf | chr16:1595 | rs5735079 | 29 | ;18;1 | | |
| cg26797786 | -0.27405 | 0.446485 | -7.12814 | 0.000126 | 0.002656 | 1.483156 | 0.583511 | 0.309458 | 0.274053 | 3 | 18460713 | R | II | SATB1 | Body | opensea | Body-open | | rs5335991 | 13 | | | |
| cg00366435 | -0.2222 | 0.328094 | -7.12453 | 0.000127 | 0.002663 | 1.479551 | 0.439194 | 0.216994 | 0.2222 | 12 | 6896105 | F | II | | IGR | opensea | IGR-opense | | rs5296803 | 9 | | | |
| cg18057002 | -0.27478 | 0.420573 | -7.11778 | 0.000128 | 0.002672 | 1.472793 | 0.557961 | 0.283186 | 0.274776 | 16 | 87309765 | R | II | LOC10192( | Body | opensea | Body-open | | rs1825039 | 17 | ;10;8;7;3 | | |
| cg15506609 | -0.20426 | 0.284082 | -7.11735 | 0.000128 | 0.002672 | 1.472361 | 0.386214 | 0.18195 | 0.204265 | 7 | 27206073 | R | I | HOXA9 | TSS1500 | island | TSS1500-isl | chr7:2720: | rs5675550 | 44 | ;35;25;10 | | |
| cg10407807 | -0.28513 | 0.449944 | -7.10828 | 0.000129 | 0.002683 | 1.463269 | 0.592508 | 0.30738 | 0.285128 | 3 | 18481064 | R | II | SATB1 | TSS1500 | opensea | TSS1500-op | | rs5486008 | 6 | | | |
| cg14942588 | -0.24647 | 0.346759 | -7.10487 | 0.000129 | 0.002688 | 1.459852 | 0.469997 | 0.223522 | 0.246475 | 10 | 15183424 | F | II | NMT2 | ExonBnd | opensea | ExonBnd-o | | rs7519120 | 39 | | | |
| cg09278089 | -0.2653 | 0.531699 | -7.09314 | 0.000131 | 0.002703 | 1.448071 | 0.664348 | 0.399049 | 0.265299 | 15 | 26092373 | F | II | ATP10A | Body | opensea | Body-open | | rs3402081 | 0 | ;1 | | |
| cg19308612 | -0.29349 | 0.34318 | -7.09303 | 0.000131 | 0.002703 | 1.447959 | 0.489926 | 0.196434 | 0.293492 | 17 | 1775124 | F | II | RPA1 | Body | opensea | Body-open | | rs5517176 | 1 | | | |
| cg19130626 | -0.2331 | 0.42681 | -7.09218 | 0.000131 | 0.002704 | 1.447113 | 0.543359 | 0.310261 | 0.233098 | 12 | 11708829 | F | II | LINC01252 | Body | opensea | Body-open | | rs5644372 | 1 | ;34 | | |
| cg25596091 | -0.23394 | 0.50497 | -7.08485 | 0.000132 | 0.002715 | 1.439742 | 0.621942 | 0.387998 | 0.233944 | 8 | 59918888 | F | II | TOX | Body | opensea | Body-open | | rs5704277 | 1 | | | |
| cg09970428 | -0.23958 | 0.331029 | -7.05257 | 0.000136 | 0.002762 | 1.40723 | 0.450819 | 0.211238 | 0.239581 | 6 | 1.19E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg21794396 | -0.26754 | 0.462043 | -7.04174 | 0.000137 | 0.002776 | 1.396292 | 0.595813 | 0.328272 | 0.267542 | 16 | 68315811 | R | II | SLC7A6 | Body | opensea | Body-open | | | | | | |
| cg06194950 | -0.32817 | 0.5541 | -7.04021 | 0.000137 | 0.002778 | 1.394743 | 0.718185 | 0.390015 | 0.32817 | 16 | 27244433 | F | II | NSMCE1 | Body | opensea | Body-open | | rs2000325 | 0 | ;1;29 | | |
| cg20817580 | -0.2402 | 0.31074 | -7.02993 | 0.000139 | 0.002795 | 1.384346 | 0.430842 | 0.190638 | 0.240204 | 17 | 37999368 | F | II | IKZF3 | Body | opensea | Body-open | | | | | | |
| cg24018814 | -0.24597 | 0.290124 | -7.02935 | 0.000139 | 0.002795 | 1.383758 | 0.41311 | 0.167138 | 0.245971 | 12 | 1.33E+08 | F | II | GOLGA3 | 3'UTR | shore | 3'UTR-shor | chr12:1333 | | | | | |
| cg08209849 | -0.22721 | 0.278923 | -7.02857 | 0.000139 | 0.002797 | 1.382968 | 0.392527 | 0.165319 | 0.227208 | 1 | 64117325 | R | II | PGM1 | ExonBnd | opensea | ExonBnd-o | | rs1858809 | 42 | ;41;37;8;1 | | |
| cg06946543 | -0.22394 | 0.24399 | -7.02259 | 0.00014 | 0.002805 | 1.376916 | 0.355958 | 0.132021 | 0.223937 | 13 | 76377366 | F | II | LMO7 | 5'UTR | opensea | 5'UTR-open | | rs5313187 | 29 | | | |
| cg16489771 | -0.23317 | 0.453266 | -7.01698 | 0.00014 | 0.002815 | 1.371238 | 0.569852 | 0.336681 | 0.233171 | 3 | 18480409 | R | II | SATB1 | TSS200 | opensea | TSS200-ope | | rs7494274 | 17 | | | |
| cg09151424 | -0.24629 | 0.573634 | -7.01155 | 0.000141 | 0.002822 | 1.365731 | 0.69678 | 0.450488 | 0.246291 | 3 | 71353997 | F | II | FOXP1 | TSS200 | opensea | TSS200-ope | | rs8015258 | 3 | | | |
| cg00928596 | -0.26371 | 0.321324 | -7.01114 | 0.000141 | 0.002823 | 1.365313 | 0.453178 | 0.18947 | 0.263707 | 16 | 14403022 | F | I | MIR365-1 | TSS200 | opensea | TSS200-ope | | rs5584491 | 0 | | | |
| cg25771013 | -0.23251 | 0.355119 | -7.00636 | 0.000142 | 0.002829 | 1.360465 | 0.471375 | 0.238864 | 0.232511 | 7 | 25989735 | F | II | MIR148A | TSS200 | shore | TSS200-shc | chr7:2599( | | | | | |
| cg01534871 | -0.22758 | 0.294682 | -6.98659 | 0.000144 | 0.002858 | 1.340383 | 0.408472 | 0.180891 | 0.227581 | 1 | 19926850 | F | II | C1orf151 | Body | shelf | Body-shelf | chr1:1992: | rs5690480 | 19 | ;33 | | |
| cg21395123 | -0.20141 | 0.351485 | -6.96621 | 0.000147 | 0.002888 | 1.319633 | 0.452189 | 0.250781 | 0.201408 | 4 | 89978388 | R | I | FAM13A | TSS200 | opensea | TSS200-ope | | rs5417527 | 33 | ;9;1 | | |
| cg03722970 | -0.22356 | 0.388985 | -6.96362 | 0.000148 | 0.002892 | 1.316988 | 0.500766 | 0.277205 | 0.223562 | 5 | 40507277 | R | II | | IGR | opensea | IGR-opense | | rs5537411 | 45 | ;36 | | |
| cg24055239 | -0.21027 | 0.255664 | -6.95809 | 0.000148 | 0.002899 | 1.311354 | 0.3608 | 0.150527 | 0.210273 | 20 | 31099867 | F | II | LOC10192( | Body | opensea | Body-open | | rs5768951 | 12 | | | |
| cg05682528 | -0.20702 | 0.291902 | -6.95618 | 0.000149 | 0.002902 | 1.309403 | 0.395413 | 0.188391 | 0.207021 | 6 | 1.11E+08 | F | II | SLC16A10 | Body | opensea | Body-open | | rs5747659 | 1 | | | |
| cg15499265 | -0.23249 | 0.651627 | -6.95171 | 0.000149 | 0.00291 | 1.304844 | 0.767872 | 0.535383 | 0.232488 | 9 | 1.17E+08 | R | II | AKNA | TSS1500 | shelf | TSS1500-sh | chr9:1171( | rs5341133 | 34 | ;20 | | |
| cg16824480 | -0.21815 | 0.4295 | -6.95148 | 0.000149 | 0.002911 | 1.304602 | 0.538573 | 0.320427 | 0.218146 | 17 | 74189931 | R | II | RNF157 | Body | opensea | Body-open | | rs7651864 | 28 | ;2 | | |
| cg25271243 | -0.25989 | 0.371692 | -6.94835 | 0.00015 | 0.002916 | 1.30141 | 0.501637 | 0.241747 | 0.25989 | 6 | 1.55E+08 | F | II | OPRM1 | Body | opensea | Body-open | | rs5330926 | 0 | ;13;19;33 | | |
| cg18981809 | -0.21192 | 0.378801 | -6.93565 | 0.000152 | 0.002934 | 1.288424 | 0.484759 | 0.272842 | 0.211917 | 5 | 1.78E+08 | F | II | COL23A1 | Body | opensea | Body-open | | | | | | |
| cg08038033 | -0.26416 | 0.517233 | -6.92019 | 0.000154 | 0.002956 | 1.272594 | 0.649312 | 0.385154 | 0.264158 | 3 | 71354056 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg13791460 | -0.22329 | 0.499821 | -6.91598 | 0.000155 | 0.002962 | 1.26828 | 0.611464 | 0.388178 | 0.223287 | 2 | 2.33E+08 | R | II | DIS3L2 | Body | opensea | Body-open | | | | | | |
| cg08497913 | -0.21312 | 0.385547 | -6.91408 | 0.000155 | 0.002965 | 1.266337 | 0.492104 | 0.278989 | 0.213115 | 12 | 1.32E+08 | R | II | EP400 | 5'UTR | opensea | 5'UTR-open | | rs5438797 | 1 | | | |
| cg17537714 | -0.20871 | 0.720839 | -6.90158 | 0.000157 | 0.002984 | 1.253502 | 0.825193 | 0.616486 | 0.208708 | 11 | 88104155 | R | II | | IGR | opensea | IGR-opense | | rs1130859 | 5 | ;1 | | |
| cg00010187 | -0.22742 | 0.373245 | -6.89497 | 0.000158 | 0.002992 | 1.246715 | 0.486954 | 0.259535 | 0.227418 | 10 | 43922867 | R | II | | IGR | opensea | IGR-opense | | rs1399963 | 29 | | | |
| cg23560640 | -0.26858 | 0.496767 | -6.88418 | 0.000159 | 0.003008 | 1.235617 | 0.631059 | 0.362475 | 0.268584 | 2 | 1.09E+08 | F | II | CCDC138 | Body | opensea | Body-open | | rs5736714 | 1 | ;50 | | |
| cg06945627 | -0.2441 | 0.628241 | -6.88116 | 0.00016 | 0.003013 | 1.232502 | 0.750291 | 0.50619 | 0.244101 | 5 | 35861023 | F | II | IL7R | Body | opensea | Body-open | | rs1384825 | 0 | ;1;45 | | |
| cg14096828 | -0.28376 | 0.562077 | -6.87493 | 0.000161 | 0.003023 | 1.226087 | 0.703957 | 0.420197 | 0.28376 | 7 | 1.11E+08 | R | II | LRRN3 | 1stExon | opensea | 1stExon-op | | rs5577189 | 38 | ;6;2 | | |
| cg03611307 | -0.23966 | 0.414136 | -6.86311 | 0.000163 | 0.003042 | 1.213902 | 0.533965 | 0.294307 | 0.239658 | 8 | 1.29E+08 | F | II | MIR1205 | TSS1500 | opensea | TSS1500-op | | rs7436509 | 8 | ;39 | | |
| cg08802841 | -0.26432 | 0.650272 | -6.85376 | 0.000164 | 0.003056 | 1.204257 | 0.782434 | 0.518111 | 0.264323 | 12 | 89748726 | F | II | | IGR | shore | IGR-shore | chr12:8974 | | | | | |
| cg18193418 | -0.22702 | 0.490788 | -6.84639 | 0.000165 | 0.003069 | 1.196638 | 0.604297 | 0.377279 | 0.227018 | 10 | 72609729 | R | II | SGPL1 | Body | opensea | Body-open | | rs1400521 | 44 | ;8;1 | | |
| cg01832672 | -0.26397 | 0.648192 | -6.84628 | 0.000165 | 0.003069 | 1.196523 | 0.780178 | 0.516207 | 0.263971 | 12 | 1.23E+08 | F | II | VPS37B | Body | opensea | Body-open | | rs5407435 | 49 | | | |
| cg11816048 | -0.23743 | 0.350864 | -6.84479 | 0.000166 | 0.003072 | 1.194989 | 0.469581 | 0.232148 | 0.237434 | 1 | 54750911 | F | II | SSBP3 | Body | opensea | Body-open | | rs1889195 | 1 | | | |
| cg15944766 | -0.25333 | 0.381725 | -6.84219 | 0.000166 | 0.003076 | 1.192296 | 0.508388 | 0.255061 | 0.253327 | 8 | 29210790 | F | I | | IGR | island | IGR-island | chr8:2921( | rs5570301 | 14 | | | |
| cg04957307 | -0.31223 | 0.558134 | -6.83959 | 0.000167 | 0.00308 | 1.189611 | 0.714246 | 0.402021 | 0.312225 | 12 | 92180808 | F | II | | IGR | opensea | IGR-opense | | rs1484999 | 1 | ;7 | | |
| cg05931439 | -0.22302 | 0.488311 | -6.82919 | 0.000168 | 0.003096 | 1.178844 | 0.599821 | 0.3768 | 0.223021 | 14 | 23305957 | R | I | MMP14 | 5'UTR | island | 5'UTR-islan | chr14:233( | rs5623469 | 15 | ;3;2 | | |
| cg00641002 | -0.30018 | 0.519653 | -6.82529 | 0.000169 | 0.003102 | 1.174802 | 0.669742 | 0.369564 | 0.300178 | 3 | 18459838 | R | II | SATB1 | Body | opensea | Body-open | | rs1873370 | 1 | | | |
| cg01818220 | -0.21087 | 0.284945 | -6.82111 | 0.00017 | 0.00311 | 1.170468 | 0.390382 | 0.179507 | 0.210875 | 9 | 23821773 | F | I | ELAVL2 | 1stExon | island | 1stExon-isl | chr9:2382( | rs5549186 | 3 | ;25 | | |
| cg09673015 | -0.23265 | 0.398201 | -6.81518 | 0.000171 | 0.003121 | 1.164318 | 0.514527 | 0.281876 | 0.232651 | 5 | 55302188 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg24899545 | -0.24381 | 0.405306 | -6.79829 | 0.000173 | 0.003148 | 1.146782 | 0.527213 | 0.283399 | 0.243814 | 6 | 7112846 | F | II | RREB1 | 5'UTR | shelf | 5'UTR-shelf | chr6:7107( | rs1917294 | 34 | | | |
| cg18273840 | -0.22476 | 0.317858 | -6.78542 | 0.000176 | 0.00317 | 1.13339 | 0.430238 | 0.205478 | 0.22476 | 5 | 45695643 | R | I | HCN1 | Body | island | Body-islanc | chr5:4569! | rs1138600 | 32 | | | |
| cg14755660 | -0.2581 | 0.305527 | -6.7655 | 0.000179 | 0.003203 | 1.112627 | 0.434576 | 0.176478 | 0.258098 | 12 | 12635510 | F | II | DUSP16 | Body | opensea | Body-open | | rs5605189 | 0 | ;39 | | |
| cg10771443 | -0.30214 | 0.475018 | -6.76488 | 0.000179 | 0.003204 | 1.111981 | 0.62609 | 0.323946 | 0.302144 | 2 | 7018855 | R | II | RSAD2 | Body | opensea | Body-open | | rs1918724 | 1 | | | |
| cg00179026 | -0.20322 | 0.312777 | -6.75927 | 0.00018 | 0.003214 | 1.106127 | 0.414386 | 0.211167 | 0.203219 | 6 | 1.56E+08 | F | II | | IGR | opensea | IGR-opense | | rs5423218 | 30 | | | |
| cg16734384 | -0.25338 | 0.515523 | -6.75349 | 0.000181 | 0.003224 | 1.100091 | 0.642212 | 0.388834 | 0.253378 | 16 | 28186240 | R | II | XPO6 | Body | opensea | Body-open | | rs1415334 | 13 | ;1 | | |
| cg24491493 | -0.21288 | 0.446226 | -6.75036 | 0.000182 | 0.003229 | 1.096815 | 0.552668 | 0.339784 | 0.212884 | 6 | 1.59E+08 | F | II | SYTL3 | 5'UTR | opensea | 5'UTR-open | | rs5432134 | 0 | ;1;20;49 | | |
| cg22606224 | -0.23803 | 0.400687 | -6.74406 | 0.000183 | 0.00324 | 1.090235 | 0.519703 | 0.28167 | 0.238033 | 19 | 12266489 | R | I | ZNF625 | 5'UTR | shore | 5'UTR-shor | chr19:122( | rs1491627 | 37 | | | |
| cg16977720 | -0.26831 | 0.614543 | -6.73933 | 0.000184 | 0.00325 | 1.085284 | 0.748697 | 0.480389 | 0.268308 | 2 | 85105984 | R | II | TRABD2A | Body | shore | Body-shore | chr2:8510 | | | | | |
| cg04741118 | -0.23601 | 0.366226 | -6.7385 | 0.000184 | 0.003251 | 1.084412 | 0.484232 | 0.248221 | 0.236011 | 12 | 96720813 | F | II | CDK17 | Body | opensea | Body-open | | rs1379329 | 41 | | | |
| cg12189559 | -0.24443 | 0.324811 | -6.73313 | 0.000185 | 0.003261 | 1.078785 | 0.447025 | 0.202597 | 0.244427 | 4 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs5464792 | 47 | ;40;25;10 | | |
| cg15122332 | -0.24511 | 0.525477 | -6.7323 | 0.000185 | 0.003262 | 1.077918 | 0.648031 | 0.402923 | 0.245108 | 18 | 809988 | R | II | YES1 | 5'UTR | shore | 5'UTR-shor | chr18:811( | rs7665027 | 35 | ;30;9;2 | | |
| cg12542255 | -0.21894 | 0.661911 | -6.72712 | 0.000186 | 0.003271 | 1.072491 | 0.771379 | 0.552442 | 0.218937 | 19 | 45976195 | F | I | FOSB | Body | island | Body-islanc | chr19:459: | rs2005570 | 5 | ;6;29 | | |
| cg13401893 | -0.29835 | 0.552703 | -6.71948 | 0.000187 | 0.003284 | 1.064476 | 0.701877 | 0.403529 | 0.298348 | 6 | 30039432 | R | I | RNF39 | Body | island | Body-islanc | chr6:3003( | rs2301752 | 16 | ;15 | | |
| cg16201957 | -0.29926 | 0.529547 | -6.70953 | 0.000189 | 0.003302 | 1.054038 | 0.679175 | 0.379918 | 0.299257 | 4 | 1.41E+08 | F | II | MAML3 | Body | opensea | Body-open | | rs5290159 | 0 | | | |
| cg10717869 | -0.23551 | 0.573616 | -6.70268 | 0.00019 | 0.003314 | 1.046837 | 0.69137 | 0.455862 | 0.235508 | 1 | 2.06E+08 | R | II | SLC41A1 | 5'UTR | shore | 5'UTR-shor | chr1:2057( | | | | | |
| cg22535225 | -0.24943 | 0.637169 | -6.70215 | 0.000191 | 0.003315 | 1.046284 | 0.761885 | 0.512452 | 0.249434 | 9 | 1.04E+08 | R | II | GRIN3A | 3'UTR | opensea | 3'UTR-open | | rs5368639 | 39 | | | |
| cg19238804 | -0.22037 | 0.37941 | -6.69896 | 0.000191 | 0.00332 | 1.042931 | 0.489594 | 0.269226 | 0.220368 | 17 | 57440226 | R | II | YPEL2 | Body | opensea | Body-open | | rs5653694 | 15 | | | |
| cg23073126 | -0.20909 | 0.377444 | -6.69826 | 0.000191 | 0.003321 | 1.042188 | 0.481989 | 0.272898 | 0.209091 | 5 | 52286130 | F | II | ITGA2 | Body | shore | Body-shore | chr5:5228 | | | | | |
| cg01057656 | -0.22884 | 0.387405 | -6.68587 | 0.000194 | 0.003345 | 1.029153 | 0.501825 | 0.272984 | 0.228841 | 19 | 45281140 | F | I | CBLC | 5'UTR | island | 5'UTR-islan | chr19:452( | rs5360793 | 13 | ;29 | | |
| cg15040252 | -0.21596 | 0.339723 | -6.68448 | 0.000194 | 0.003347 | 1.027683 | 0.447703 | 0.231743 | 0.215959 | 14 | 39566447 | R | II | SEC23A | 5'UTR | opensea | 5'UTR-open | | rs5485990 | 38 | | | |
| cg13172001 | -0.30684 | 0.532596 | -6.67683 | 0.000195 | 0.00336 | 1.01963 | 0.686015 | 0.379177 | 0.306838 | 2 | 88390175 | F | II | SMYD1 | Body | opensea | Body-open | | rs5749572 | 1 | ;47 | | |
| cg02701505 | -0.22821 | 0.322072 | -6.67301 | 0.000196 | 0.003366 | 1.015596 | 0.436175 | 0.207968 | 0.228207 | 12 | 11709051 | R | II | LINC01252 | Body | opensea | Body-open | | rs1465336 | 2 | | | |
| cg19181419 | -0.20816 | 0.455937 | -6.67279 | 0.000196 | 0.003366 | 1.015366 | 0.560015 | 0.351859 | 0.208156 | 5 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs3676897 | 0 | ;6;19;33;47 | | |
| cg10688481 | -0.29743 | 0.498808 | -6.67187 | 0.000196 | 0.003368 | 1.014396 | 0.647524 | 0.350092 | 0.297432 | 19 | 51858229 | F | II | ETFB | TSS200 | opensea | TSS200-ope | | rs5729793 | 2 | ;16;40 | | |
| cg07110949 | -0.22653 | 0.560736 | -6.67109 | 0.000197 | 0.003369 | 1.013573 | 0.673999 | 0.447473 | 0.226526 | 4 | 1309878 | F | I | MAEA | Body | shore | Body-shore | chr4:1309: | rs6815464 | 23 | ;30 | | |
| cg05230130 | -0.21368 | 0.506195 | -6.66471 | 0.000198 | 0.003381 | 1.006834 | 0.613033 | 0.399357 | 0.213675 | 2 | 1.98E+08 | R | II | ANKRD44 | TSS1500 | shore | TSS1500-sh | chr2:1981: | rs5466399 | 30 | ;1 | | |
| cg04707519 | -0.23134 | 0.364053 | -6.66364 | 0.000198 | 0.003383 | 1.005703 | 0.479725 | 0.24838 | 0.231344 | 10 | 21799314 | F | I | | IGR | island | IGR-island | chr10:2175 | rs1115909 | 43 | | | |
| cg00172603 | -0.24027 | 0.400777 | -6.66155 | 0.000198 | 0.003386 | 1.0035 | 0.520915 | 0.28064 | 0.240275 | 1 | 54822031 | F | I | SSBP3 | Body | island | Body-islanc | chr1:5482: | rs1904627 | 30 | ;33;37 | | |
| cg01194310 | -0.22813 | 0.407679 | -6.66141 | 0.000198 | 0.003386 | 1.003348 | 0.521746 | 0.293612 | 0.228134 | 5 | 1.33E+08 | R | II | TCF7 | Body | opensea | Body-open | | | | | | |
| cg03864397 | -0.25077 | 0.440762 | -6.66126 | 0.000198 | 0.003386 | 1.003189 | 0.566147 | 0.315377 | 0.25077 | 2 | 2.02E+08 | F | II | CASP10 | 5'UTR | opensea | 5'UTR-open | | rs1433052 | 1 | ;30;50 | | |
| cg10351691 | -0.21379 | 0.243729 | -6.64353 | 0.000202 | 0.003418 | 0.984447 | 0.350626 | 0.136832 | 0.213794 | 11 | 24518557 | F | I | LUZP2 | 5'UTR | island | 5'UTR-islan | chr11:245: | rs1441074 | 14 | | | |
| cg13287909 | -0.2382 | 0.44755 | -6.63946 | 0.000203 | 0.003425 | 0.980135 | 0.56665 | 0.328451 | 0.238199 | 5 | 52286121 | R | II | ITGA2 | Body | shore | Body-shore | chr5:5228( | rs1427264 | 19 | ;13;10;2 | | |
| cg27435333 | -0.26431 | 0.502786 | -6.63752 | 0.000203 | 0.003429 | 0.978084 | 0.634942 | 0.37063 | 0.264312 | 2 | 88357893 | R | II | | IGR | shelf | IGR-shelf | chr2:8835( | rs1497410 | 6 | ;2 | | |
| cg07052063 | -0.25722 | 0.347256 | -6.63144 | 0.000204 | 0.00344 | 0.971638 | 0.475867 | 0.218644 | 0.257223 | 10 | 99255236 | R | II | MMS19 | Body | shelf | Body-shelf | chr10:992: | rs2900126 | 29 | | | |
| cg12067421 | -0.26745 | 0.507919 | -6.63082 | 0.000205 | 0.003441 | 0.970981 | 0.641643 | 0.374194 | 0.267449 | 1 | 2.03E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:2032( | rs1921741 | 51 | ;41;5 | | |
| cg25571973 | -0.20287 | 0.674848 | -6.61826 | 0.000207 | 0.003465 | 0.957656 | 0.776282 | 0.573414 | 0.202868 | 12 | 52347158 | F | II | ACVR1B | TSS200 | shore | TSS200-shc | chr12:523( | | | | | |
| cg14875171 | -0.26488 | 0.41403 | -6.61728 | 0.000207 | 0.003468 | 0.956618 | 0.546472 | 0.281588 | 0.264884 | 2 | 50574196 | R | I | NRXN1 | Body | island | Body-islanc | chr2:5057( | rs1898733 | 6 | | | |
| cg18853591 | -0.20352 | 0.356791 | -6.61279 | 0.000208 | 0.003477 | 0.951853 | 0.45855 | 0.255032 | 0.203519 | 3 | 1.12E+08 | F | II | | IGR | opensea | IGR-opense | | rs1497487 | 0 | ;1 | | |
| cg15296664 | -0.25455 | 0.658154 | -6.60751 | 0.000209 | 0.003489 | 0.946242 | 0.785429 | 0.530879 | 0.25455 | 12 | 89748773 | R | II | | IGR | shore | IGR-shore | chr12:8974 | | | | | |
| cg12060422 | -0.27909 | 0.533622 | -6.60069 | 0.000211 | 0.003501 | 0.938989 | 0.673165 | 0.39408 | 0.279085 | 10 | 1.03E+08 | R | I | KAZALD1 | 1stExon | island | 1stExon-isl | chr10:1024 | rs1468453 | 42 | ;16 | | |
| cg13484324 | -0.30826 | 0.630861 | -6.60031 | 0.000211 | 0.003502 | 0.93858 | 0.78499 | 0.476733 | 0.308257 | 2 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5644946 | 10 | ;4;1 | | |
| cg01591526 | -0.29317 | 0.595205 | -6.5995 | 0.000211 | 0.003504 | 0.937725 | 0.741788 | 0.448622 | 0.293165 | 9 | 20373435 | F | II | MLLT3 | Body | opensea | Body-open | | rs5328726 | 0 | | | |
| cg09279736 | -0.21702 | 0.473099 | -6.59274 | 0.000212 | 0.003517 | 0.930529 | 0.58161 | 0.364588 | 0.217023 | 6 | 30039403 | R | I | RNF39 | Body | island | Body-islanc | chr6:3003( | rs1175338 | 41 | ;32 | | |
| cg08913413 | -0.20189 | 0.377479 | -6.58982 | 0.000213 | 0.003523 | 0.927421 | 0.478424 | 0.276534 | 0.20189 | 2 | 16820369 | F | II | FAM49A | 5'UTR | opensea | 5'UTR-open | | rs5277976 | 9 | ;16;45;50 | | |
| cg06916001 | -0.24617 | 0.27575 | -6.58529 | 0.000214 | 0.003532 | 0.922588 | 0.398834 | 0.152666 | 0.246168 | 16 | 14403004 | F | I | MIR365-1 | TSS200 | opensea | TSS200-ope | | rs5397252 | 12 | ;18 | | |
| cg05082111 | -0.24179 | 0.321038 | -6.57777 | 0.000216 | 0.003547 | 0.914575 | 0.441933 | 0.200143 | 0.24179 | 9 | 1.13E+08 | F | II | AKAP2 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg06122405 | -0.20872 | 0.65997 | -6.57506 | 0.000216 | 0.003552 | 0.91168 | 0.764329 | 0.55561 | 0.208719 | 12 | 12557018 | R | II | LOH12CR1 | Body | opensea | Body-open | | rs1466548 | 1 | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg21713991 | -0.26227 | 0.449562 | -6.57446 | 0.000216 | 0.003553 | 0.911042 | 0.580697 | 0.318428 | 0.262269 | 8 | 21718256 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg04116354 | -0.25761 | 0.542616 | -6.57307 | 0.000217 | 0.003556 | 0.909559 | 0.671422 | 0.413811 | 0.257612 | 1 | 26003643 | R | II | MAN1C1 | Body | opensea | Body-open | rs5664331 | 45;10 | | |
| cg07381806 | -0.22987 | 0.419315 | -6.5707 | 0.000217 | 0.003561 | 0.90703 | 0.534252 | 0.304378 | 0.229874 | 19 | 2094327 | F | I | MOBKL2A | 5'UTR | shore | 5'UTR-shor | chr19:209 | rs5515019 | 12;42 | |
| cg20625523 | -0.20202 | 0.366662 | -6.56828 | 0.000218 | 0.003567 | 0.904438 | 0.46767 | 0.265654 | 0.202015 | 2 | 64893849 | R | II | | IGR | opensea | IGR-opense | | rs5688170 | 35;1 | | |
| cg00728973 | -0.23061 | 0.49463 | -6.56459 | 0.000219 | 0.003575 | 0.900502 | 0.609937 | 0.379324 | 0.230613 | 17 | 37036448 | F | II | LASP1 | Body | opensea | Body-open | | rs226213 | 40 | |
| cg09277376 | -0.27002 | 0.509997 | -6.5603 | 0.000219 | 0.003582 | 0.895918 | 0.645007 | 0.374986 | 0.270022 | 1 | 47899676 | F | II | MGC12982 | Body | island | Body-islanc | chr1:4789 | rs5296724 | 0;14 | |
| cg25027273 | -0.2577 | 0.509086 | -6.5551 | 0.000221 | 0.003594 | 0.890353 | 0.637936 | 0.380235 | 0.257701 | 15 | 1.02E+08 | F | II | CHSY1 | Body | opensea | Body-open | | rs3678788 | 1;2;3;14;26 | |
| cg11262921 | -0.24955 | 0.512486 | -6.55471 | 0.000221 | 0.003595 | 0.889942 | 0.637263 | 0.387709 | 0.249554 | 10 | 32264401 | R | II | | IGR | opensea | IGR-opense | | rs5643623 | 10 | | |
| cg21600258 | -0.20906 | 0.337643 | -6.55414 | 0.000221 | 0.003596 | 0.889328 | 0.442173 | 0.233113 | 0.20906 | 4 | 1.09E+08 | R | II | LEF1 | TSS1500 | shore | TSS1500-sh | chr4:1090 | | | |
| cg13271663 | -0.26064 | 0.520264 | -6.55048 | 0.000222 | 0.003603 | 0.885413 | 0.650586 | 0.389943 | 0.260644 | 15 | 70387303 | R | II | TLE3 | TSS200 | shore | TSS200-shc | chr15:703 | rs5405523 | 46;45;43;8 | |
| cg13478228 | -0.21907 | 0.246328 | -6.54694 | 0.000222 | 0.00361 | 0.881628 | 0.355861 | 0.136795 | 0.219066 | 18 | 70209432 | R | I | CBLN2 | 5'UTR | island | 5'UTR-islan | chr18:702 | rs5719552 | 38;12 | |
| cg27468610 | -0.23407 | 0.395908 | -6.53928 | 0.000224 | 0.003626 | 0.873421 | 0.512945 | 0.278872 | 0.234073 | 7 | 1.52E+08 | F | II | KMT2C | Body | opensea | Body-open | | rs1399824 | 0;8;20;43 | |
| cg18677148 | -0.20908 | 0.344495 | -6.53663 | 0.000225 | 0.003631 | 0.870579 | 0.449034 | 0.239957 | 0.209078 | 17 | 57712280 | R | II | CLTC | Body | opensea | Body-open | | rs1166967 | 1 | |
| cg13303654 | -0.26438 | 0.389143 | -6.53497 | 0.000225 | 0.003635 | 0.868803 | 0.521334 | 0.256953 | 0.264381 | 10 | 31610754 | F | II | ZEB1 | Body | shore | Body-shore | chr10:316 | | | |
| cg14107762 | -0.27768 | 0.334272 | -6.53448 | 0.000225 | 0.003636 | 0.868275 | 0.473111 | 0.195433 | 0.277677 | 9 | 1.18E+08 | R | II | TNFSF8 | Body | opensea | Body-open | | rs7915208 | 23;16 | | |
| cg16053585 | -0.23251 | 0.547852 | -6.53417 | 0.000225 | 0.003637 | 0.867943 | 0.664107 | 0.431598 | 0.232509 | 2 | 86266870 | F | II | POLR1A | Body | opensea | Body-open | | rs5775407 | 0;12;20 | |
| cg24213414 | -0.24213 | 0.479913 | -6.53102 | 0.000226 | 0.003643 | 0.864568 | 0.600975 | 0.35885 | 0.242125 | 12 | 92554979 | F | II | | IGR | opensea | IGR-opense | | rs7728907 | 1;37 | |
| cg17413540 | -0.24815 | 0.45223 | -6.52782 | 0.000227 | 0.00365 | 0.861139 | 0.576304 | 0.328155 | 0.24815 | 7 | 40027286 | R | II | CDK13 | Body | opensea | Body-open | | rs1512246 | 46;42 | |
| cg00739471 | -0.29539 | 0.591962 | -6.51629 | 0.000229 | 0.003672 | 0.848751 | 0.739658 | 0.444266 | 0.295393 | 14 | 69415588 | F | II | ACTN1 | Body | opensea | Body-open | | rs3722395 | 1;38 | |
| cg15896892 | -0.2381 | 0.335423 | -6.51528 | 0.00023 | 0.003673 | 0.847675 | 0.454472 | 0.216374 | 0.238098 | 1 | 2.44E+08 | F | II | ZNF238 | TSS1500 | shore | TSS1500-sh | chr1:2442 | rs5642186 | 49 | |
| cg12552289 | -0.20203 | 0.231801 | -6.51351 | 0.00023 | 0.003677 | 0.845764 | 0.332816 | 0.130786 | 0.202031 | 11 | 1.33E+08 | R | I | OPCML | TSS1500 | island | TSS1500-isl | chr11:132 | rs5702251 | 45;40;31;17 | |
| cg14384158 | -0.21155 | 0.369086 | -6.51228 | 0.00023 | 0.00368 | 0.844443 | 0.474863 | 0.263309 | 0.211554 | 9 | 1.4E+08 | F | I | NELF | Body | shore | Body-shore | chr9:1403 | | | |
| cg10925937 | -0.20388 | 0.58739 | -6.51078 | 0.000231 | 0.003683 | 0.842831 | 0.689332 | 0.485448 | 0.203883 | 4 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs1867280 | 1;8 | |
| cg22010886 | -0.26694 | 0.475726 | -6.50942 | 0.000231 | 0.003686 | 0.841376 | 0.609198 | 0.342254 | 0.266944 | 4 | 1.09E+08 | F | II | LEF1 | Body | opensea | Body-open | | rs5426138 | 0;1 | |
| cg24401737 | -0.20591 | 0.494564 | -6.50462 | 0.000232 | 0.003697 | 0.836209 | 0.597521 | 0.391607 | 0.205914 | 2 | 2.02E+08 | F | II | CASP10 | TSS200 | opensea | TSS200-ope | | rs5737536 | 37;48 | |
| cg14522718 | -0.26529 | 0.359408 | -6.50117 | 0.000233 | 0.003704 | 0.832491 | 0.492055 | 0.226761 | 0.265295 | 9 | 1.31E+08 | F | I | SLC25A25 | Body | opensea | Body-open | | rs5566265 | 2;18;24 | |
| cg07042743 | -0.20422 | 0.438918 | -6.49677 | 0.000234 | 0.003714 | 0.827758 | 0.541029 | 0.336807 | 0.204223 | 7 | 36693489 | R | II | AOAH | Body | opensea | Body-open | | rs4434580 | 42;13 | |
| cg25984344 | -0.22383 | 0.280864 | -6.48942 | 0.000236 | 0.003729 | 0.819836 | 0.392781 | 0.168947 | 0.223834 | 10 | 1.29E+08 | F | I | DOCK1 | Body | island | Body-islanc | chr10:128 | rs5618579 | 21 | |
| cg25884427 | -0.26685 | 0.468515 | -6.48817 | 0.000236 | 0.003732 | 0.818489 | 0.601942 | 0.335088 | 0.266854 | 1 | 54751035 | F | II | SSBP3 | Body | opensea | Body-open | | rs5280997 | 45 | |
| cg14286456 | -0.22601 | 0.462214 | -6.48791 | 0.000236 | 0.003732 | 0.81821 | 0.575217 | 0.34921 | 0.226007 | 1 | 8570225 | F | II | RERE | Body | opensea | Body-open | | rs5723928 | 15;35;45 | |
| cg01618938 | -0.27878 | 0.462227 | -6.47583 | 0.000239 | 0.00376 | 0.805179 | 0.601618 | 0.322835 | 0.278782 | 3 | 72870430 | F | II | SHQ1 | Body | opensea | Body-open | | rs7754433 | 0;1;24;26;34;48 | |
| cg21626540 | -0.25006 | 0.354012 | -6.47569 | 0.000239 | 0.00376 | 0.805027 | 0.47904 | 0.228983 | 0.250058 | 2 | 10720198 | R | II | NOL10 | Body | opensea | Body-open | | rs3728602 | 41 | |
| cg09837977 | -0.27486 | 0.588991 | -6.47271 | 0.00024 | 0.003767 | 0.801812 | 0.726421 | 0.451561 | 0.27486 | 7 | 1.11E+08 | R | II | LRRN3 | 5'UTR | opensea | 5'UTR-open | | rs5538823 | 49 | |
| cg05163268 | -0.228 | 0.269309 | -6.47185 | 0.00024 | 0.003768 | 0.800887 | 0.383308 | 0.15531 | 0.227998 | 5 | 1.8E+08 | F | II | | IGR | opensea | IGR-opense | | rs1856850 | 0;2;22;37;42;48 | |
| cg09223486 | -0.20565 | 0.495857 | -6.46961 | 0.00024 | 0.003774 | 0.798463 | 0.598682 | 0.393031 | 0.205651 | 12 | 45763187 | R | II | ANO6 | Body | opensea | Body-open | | rs5354050 | 27 | |
| cg05949181 | -0.25195 | 0.38576 | -6.4694 | 0.000241 | 0.003774 | 0.798237 | 0.511736 | 0.259784 | 0.251951 | 22 | 39154591 | R | II | | IGR | shelf | IGR-shelf | chr22:391 | rs5329882 | 33;17;8 | |
| cg27126310 | -0.22418 | 0.465062 | -6.46229 | 0.000242 | 0.003789 | 0.790558 | 0.577152 | 0.352971 | 0.224181 | 11 | 1.17E+08 | R | II | SIK3 | Body | opensea | Body-open | | rs1912984 | 46;28 | |
| cg06545367 | -0.30427 | 0.610442 | -6.44919 | 0.000246 | 0.003819 | 0.776376 | 0.762577 | 0.458306 | 0.304271 | 7 | 1.11E+08 | F | II | LRRN3 | 5'UTR | opensea | 5'UTR-open | | rs5378047 | 1 | |
| cg17996919 | -0.27722 | 0.379411 | -6.44748 | 0.000246 | 0.003822 | 0.774523 | 0.518022 | 0.240799 | 0.277223 | 1 | 26024404 | R | II | MAN1C1 | Body | opensea | Body-open | | rs5575245 | 1 | |
| cg01362243 | -0.21405 | 0.530231 | -6.44586 | 0.000246 | 0.003825 | 0.772769 | 0.637255 | 0.423207 | 0.214048 | 2 | 45160389 | R | II | | IGR | shore | IGR-shore | chr2:4516 | rs1503409 | 49;45 | |
| cg13451886 | -0.2309 | 0.282784 | -6.43872 | 0.000248 | 0.003842 | 0.765032 | 0.398232 | 0.167335 | 0.230897 | 17 | 33568791 | R | II | SLFN5 | TSS1500 | shore | TSS1500-sh | chr17:335 | | | |
| cg05485039 | -0.24022 | 0.328452 | -6.43833 | 0.000248 | 0.003843 | 0.764605 | 0.448561 | 0.208344 | 0.240217 | 6 | 1.12E+08 | R | II | TRAF3IP2 | TSS200 | opensea | TSS200-ope | | rs5685093 | 39;29;20;7;2 | |
| cg08360820 | -0.24295 | 0.463945 | -6.43526 | 0.000249 | 0.003849 | 0.761285 | 0.585421 | 0.342469 | 0.242953 | 10 | 11652640 | F | I | USP6NL | 5'UTR | shore | 5'UTR-shor | chr10:116 | rs5530911 | 3;22;26 | |
| cg13691247 | -0.21371 | 0.221647 | -6.43098 | 0.00025 | 0.003858 | 0.756631 | 0.328501 | 0.114792 | 0.213709 | 12 | 54071090 | F | I | ATP5G2 | TSS1500 | island | TSS1500-isl | chr12:540 | rs5431965 | 18;44;46 | |
| cg19679865 | -0.26737 | 0.459443 | -6.42299 | 0.000252 | 0.003875 | 0.747965 | 0.593127 | 0.325759 | 0.267368 | 1 | 8467904 | F | II | RERE | 5'UTR | opensea | 5'UTR-open | | rs1836582 | 18 | |
| cg27379109 | -0.21106 | 0.426422 | -6.42215 | 0.000252 | 0.003877 | 0.747052 | 0.531954 | 0.32089 | 0.211063 | 5 | 74907287 | R | II | | IGR | island | IGR-island | chr5:7490 | rs5765296 | 38;29;25;21;15 | |
| cg15582951 | -0.25664 | 0.365706 | -6.4198 | 0.000253 | 0.003883 | 0.744496 | 0.494024 | 0.237389 | 0.256635 | 8 | 81411915 | R | II | ZBTB10 | Body | opensea | Body-open | | | | |
| cg14791398 | -0.28027 | 0.489842 | -6.41828 | 0.000253 | 0.003887 | 0.742843 | 0.629978 | 0.349706 | 0.280271 | 3 | 18462444 | R | II | SATB1 | Body | shelf | Body-shelf | chr3:1846 | rs1435100 | 6 | |
| cg17210263 | -0.20029 | 0.562878 | -6.4182 | 0.000253 | 0.003887 | 0.74276 | 0.663021 | 0.462734 | 0.200287 | 1 | 2.03E+08 | F | II | | IGR | shore | IGR-shore | chr1:2032 | rs5334492 | 1;31 | |
| cg27206867 | -0.21508 | 0.411502 | -6.41394 | 0.000255 | 0.003896 | 0.738121 | 0.519044 | 0.30396 | 0.215084 | 4 | 10119810 | F | II | WDR1 | TSS1500 | shore | TSS1500-sh | chr4:1011 | rs5477904 | 5;6;8;11;13;20;21;22;32;46;48 | |
| cg01763410 | -0.21506 | 0.345724 | -6.41083 | 0.000255 | 0.003904 | 0.734738 | 0.453251 | 0.238196 | 0.215055 | 18 | 31020209 | R | II | CCDC178 | TSS200 | shore | TSS200-shc | chr18:310 | | | |
| cg26921093 | -0.25562 | 0.476244 | -6.41021 | 0.000255 | 0.003905 | 0.734073 | 0.604053 | 0.348435 | 0.255618 | 17 | 63534688 | R | II | AXIN2 | Body | shore | Body-shore | chr17:635 | | | |
| cg18266828 | -0.22511 | 0.456635 | -6.4102 | 0.000255 | 0.003905 | 0.734062 | 0.569191 | 0.344079 | 0.225112 | 17 | 46027572 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg03893901 | -0.20354 | 0.484155 | -6.40301 | 0.000257 | 0.003922 | 0.726231 | 0.585927 | 0.382384 | 0.203543 | 6 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1809896 | 48;2 | |
| cg16240368 | -0.20766 | 0.450979 | -6.40238 | 0.000258 | 0.003923 | 0.72555 | 0.554811 | 0.347148 | 0.207663 | 1 | 1.19E+08 | F | II | SPAG17 | TSS1500 | island | TSS1500-isl | chr1:1187 | rs5306375 | 18 | |
| cg10215401 | -0.27523 | 0.398076 | -6.39965 | 0.000258 | 0.00393 | 0.722577 | 0.535692 | 0.26046 | 0.275232 | 8 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5274408 | 26;2 | |
| cg03752513 | -0.20201 | 0.2847 | -6.39545 | 0.000259 | 0.003939 | 0.717999 | 0.385707 | 0.183694 | 0.202013 | 20 | 31098182 | F | II | LOC10192 | Body | opensea | Body-open | | rs5614551 | 22 | |
| cg00217293 | -0.2066 | 0.514225 | -6.39317 | 0.00026 | 0.003945 | 0.715513 | 0.617523 | 0.410927 | 0.206595 | 15 | 50200296 | F | II | ATP8B4 | Body | opensea | Body-open | | rs1907856 | 25;42;51 | |
| cg23824902 | -0.27011 | 0.498565 | -6.38876 | 0.000261 | 0.003955 | 0.710708 | 0.633621 | 0.363509 | 0.270112 | 1 | 9619882 | F | II | SLC25A33 | Body | opensea | Body-open | | rs5605887 | 25 | |
| cg25532922 | -0.25591 | 0.620233 | -6.38709 | 0.000262 | 0.003958 | 0.708876 | 0.74819 | 0.492276 | 0.255914 | 2 | 30453223 | R | II | LBH | TSS1500 | shore | TSS1500-sh | chr2:3045 | rs1811024 | 13;5;2 | |
| cg11301253 | -0.20128 | 0.304032 | -6.38479 | 0.000262 | 0.003964 | 0.706375 | 0.404671 | 0.203394 | 0.201277 | 1 | 1.73E+08 | F | II | TNFSF4 | TSS1500 | opensea | TSS1500-op | | rs5520372 | 29;43;46 | |
| cg19695597 | -0.23457 | 0.595637 | -6.37835 | 0.000264 | 0.003978 | 0.699347 | 0.712922 | 0.478352 | 0.234569 | 14 | 62036992 | F | II | FLJ22447 | TSS1500 | opensea | TSS1500-op | | | | |
| cg02067461 | -0.20171 | 0.401841 | -6.37774 | 0.000264 | 0.003979 | 0.698681 | 0.502697 | 0.300986 | 0.201711 | 2 | 1.35E+08 | F | II | MGAT5 | Body | opensea | Body-open | | rs5719157 | 1;6 | |
| cg11651237 | -0.22757 | 0.247552 | -6.37198 | 0.000266 | 0.003993 | 0.692386 | 0.361335 | 0.133769 | 0.227566 | 15 | 27216529 | F | I | GABRG3 | 5'UTR | island | 5'UTR-islan | chr15:272 | rs2839952 | 35 | |
| cg06897548 | -0.22554 | 0.556589 | -6.36629 | 0.000267 | 0.004005 | 0.686163 | 0.66936 | 0.443818 | 0.225542 | 22 | 39810706 | F | II | TAB1 | Body | opensea | Body-open | | rs5761073 | 47 | |
| cg07389228 | -0.23521 | 0.295641 | -6.35874 | 0.000269 | 0.004024 | 0.677907 | 0.413248 | 0.178035 | 0.235213 | 17 | 73685651 | F | II | SAP30BP | Body | opensea | Body-open | | rs5428254 | 1;8;21;23 | |
| cg12696536 | -0.23143 | 0.637012 | -6.35055 | 0.000272 | 0.004043 | 0.66894 | 0.752726 | 0.521298 | 0.231428 | 2 | 10446128 | R | II | HPCAL1 | 5'UTR | shore | 5'UTR-shor | chr2:1044 | rs5523380 | 15 | |
| cg22856324 | -0.20367 | 0.239368 | -6.341 | 0.000274 | 0.004066 | 0.658468 | 0.341205 | 0.137532 | 0.203673 | 2 | 72371255 | F | I | CYP26B1 | Body | island | Body-islanc | chr2:7237 | | | |
| cg07071250 | -0.20599 | 0.397397 | -6.33649 | 0.000276 | 0.004076 | 0.65352 | 0.50039 | 0.294405 | 0.205985 | 18 | 21406132 | R | II | LAMA3 | Body | opensea | Body-open | | rs5442071 | 44;32 | |
| cg18794839 | -0.21127 | 0.228504 | -6.33162 | 0.000277 | 0.004088 | 0.648172 | 0.334139 | 0.12287 | 0.211269 | 1 | 2.15E+08 | R | I | KCNK2 | TSS1500 | island | TSS1500-isl | chr1:2152 | rs5336556 | 20 | |
| cg12910977 | -0.27796 | 0.506068 | -6.3237 | 0.000279 | 0.004105 | 0.639476 | 0.64505 | 0.367086 | 0.277964 | 5 | 1.38E+08 | R | II | LRRTM2 | 3'UTR | opensea | 3'UTR-open | | rs5634303 | 27;14;10;1 | |
| cg24402372 | -0.21589 | 0.363482 | -6.31038 | 0.000283 | 0.004138 | 0.624821 | 0.471426 | 0.255537 | 0.215888 | 12 | 52997366 | F | II | | IGR | shelf | IGR-shelf | chr12:529 | | | |
| cg12273325 | -0.2263 | 0.351689 | -6.31013 | 0.000283 | 0.004139 | 0.624544 | 0.464841 | 0.238536 | 0.226305 | 22 | 31689831 | F | II | PIK3IP1 | TSS1500 | shelf | TSS1500-sh | chr22:316 | | | |
| cg13643593 | -0.24555 | 0.447882 | -6.30305 | 0.000285 | 0.004156 | 0.616744 | 0.570658 | 0.325106 | 0.245552 | 4 | 1.54E+08 | R | II | KIAA0922 | Body | opensea | Body-open | | rs5767909 | 13 | |
| cg05728215 | -0.21755 | 0.619732 | -6.28751 | 0.00029 | 0.004195 | 0.599612 | 0.728505 | 0.510958 | 0.217547 | 9 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5674422 | 18;1 | |
| cg12369481 | -0.29658 | 0.561145 | -6.28217 | 0.000291 | 0.004208 | 0.593713 | 0.709436 | 0.412854 | 0.296583 | 3 | 18459998 | R | II | SATB1 | Body | opensea | Body-open | | | | |
| cg25768456 | -0.28953 | 0.35224 | -6.28118 | 0.000292 | 0.00421 | 0.592626 | 0.497003 | 0.207478 | 0.289526 | 17 | 1775045 | R | II | RPA1 | Body | opensea | Body-open | | rs1729197 | 2 | |
| cg19996254 | -0.24468 | 0.330102 | -6.28083 | 0.000292 | 0.004211 | 0.592232 | 0.452441 | 0.207763 | 0.244678 | 10 | 1.16E+08 | R | II | ABLIM1 | 5'UTR | opensea | 5'UTR-open | | rs5446480 | 19;12;2 | |
| cg24403567 | -0.29297 | 0.380199 | -6.28015 | 0.000292 | 0.004212 | 0.591483 | 0.526686 | 0.233712 | 0.292974 | 1 | 2.13E+08 | F | II | NSL1 | Body | opensea | Body-open | | rs5615185 | 3;49 | |
| cg25943763 | -0.24555 | 0.395809 | -6.27565 | 0.000293 | 0.004223 | 0.586507 | 0.518583 | 0.273035 | 0.245548 | 1 | 2.27E+08 | F | II | ITPKB | Body | opensea | Body-open | | | | |
| cg00064733 | -0.2686 | 0.328026 | -6.27235 | 0.000294 | 0.004232 | 0.582863 | 0.462327 | 0.193725 | 0.268602 | 7 | 1.54E+08 | R | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5316338 | 47;41;29;26 | |
| cg23668184 | -0.23136 | 0.317618 | -6.2721 | 0.000294 | 0.004233 | 0.582588 | 0.433299 | 0.201938 | 0.231361 | 2 | 5836713 | F | I | SOX11 | 3'UTR | island | 3'UTR-islan | chr2:5836 | rs1926295 | 16 | |
| cg11400153 | -0.20923 | 0.589894 | -6.27129 | 0.000295 | 0.004235 | 0.581691 | 0.694511 | 0.485278 | 0.209233 | 4 | 1.54E+08 | R | II | KIAA0922 | Body | opensea | Body-open | | rs5458161 | 42;29;1 | |
| cg18353747 | -0.23185 | 0.305127 | -6.26742 | 0.000296 | 0.004245 | 0.577408 | 0.421055 | 0.1892 | 0.231855 | 13 | 30963558 | R | II | | IGR | opensea | IGR-opense | | rs1929476 | 41;7;1 | |
| cg11815910 | -0.21124 | 0.404607 | -6.26397 | 0.000297 | 0.004253 | 0.573595 | 0.510228 | 0.298985 | 0.211243 | 6 | 1.67E+08 | F | II | RNASET2 | Body | shelf | Body-shelf | chr6:1673 | rs5583974 | 35 | |
| cg23830082 | -0.21136 | 0.446956 | -6.25748 | 0.000299 | 0.00427 | 0.566406 | 0.552638 | 0.341275 | 0.211362 | 3 | 43196848 | R | II | | IGR | opensea | IGR-opense | | rs4589902 | 49;46;27;1 | |
| cg11271054 | -0.24158 | 0.521559 | -6.25282 | 0.0003 | 0.004282 | 0.561241 | 0.64235 | 0.400767 | 0.241583 | 2 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs5599493 | 5;2 | |
| cg10261191 | -0.20343 | 0.388053 | -6.25244 | 0.000301 | 0.004283 | 0.560825 | 0.489768 | 0.286339 | 0.203429 | 11 | 1.25E+08 | F | II | FEZ1 | 5'UTR | shore | 5'UTR-shor | chr11:125 | rs1478858 | 2;13;37 | |
| cg09451215 | -0.20788 | 0.479454 | -6.25164 | 0.000301 | 0.004285 | 0.559939 | 0.583396 | 0.375512 | 0.207884 | 6 | 82459960 | F | II | FAM46A | Body | shore | Body-shore | chr6:8246 | rs6175249 | 1 | |
| cg10959353 | -0.20238 | 0.25144 | -6.25028 | 0.000301 | 0.004288 | 0.558432 | 0.352631 | 0.150249 | 0.202383 | 2 | 2.29E+08 | F | I | SPHKAP | TSS200 | island | TSS200-isla | chr2:2290 | rs5500997 | 8;32 | |
| cg02571465 | -0.26647 | 0.460952 | -6.25017 | 0.000301 | 0.004288 | 0.558302 | 0.594185 | 0.327718 | 0.266468 | 12 | 1213414 | R | II | ERC1 | Body | opensea | Body-open | | rs5749233 | 15;12;4 | |
| cg04836949 | -0.21397 | 0.293641 | -6.24929 | 0.000302 | 0.00429 | 0.557326 | 0.400624 | 0.186658 | 0.213965 | 13 | 46699875 | R | II | | IGR | opensea | IGR-opense | | rs1147382 | 34 | |
| cg06525651 | -0.20356 | 0.223674 | -6.24632 | 0.000302 | 0.004297 | 0.554033 | 0.325455 | 0.121892 | 0.203563 | 10 | 1.29E+08 | R | I | FAM196A | 1stExon | island | 1stExon-isl | chr10:128 | rs5579427 | 48 | |
| cg08639389 | -0.26179 | 0.53023 | -6.24306 | 0.000304 | 0.004305 | 0.550425 | 0.661125 | 0.399335 | 0.26179 | 4 | 26995889 | R | II | STIM2 | Body | opensea | Body-open | | rs1401409 | 47;2 | |
| cg23133460 | -0.2608 | 0.476272 | -6.23808 | 0.000305 | 0.004319 | 0.544894 | 0.606672 | 0.345872 | 0.260801 | 12 | 32292908 | R | II | BICD1 | Body | opensea | Body-open | | rs1895771 | 33;30;15 | |
| cg17173975 | -0.24026 | 0.415605 | -6.23593 | 0.000306 | 0.004324 | 0.5425 | 0.535738 | 0.295473 | 0.240265 | 12 | 32292997 | R | II | BICD1 | Body | opensea | Body-open | | rs5743412 | 29;28 | |
| cg17806411 | -0.27851 | 0.485183 | -6.23255 | 0.000307 | 0.004334 | 0.538753 | 0.624439 | 0.345927 | 0.278512 | 3 | 18459963 | F | II | SATB1 | Body | opensea | Body-open | | rs1461314 | 38 | |
| cg03323696 | -0.23037 | 0.388334 | -6.22999 | 0.000308 | 0.004341 | 0.53591 | 0.503519 | 0.273149 | 0.23037 | 5 | 59189120 | R | I | PDE4D | Body | island | Body-islanc | chr5:5918 | | | |
| cg20587236 | -0.26155 | 0.483463 | -6.2294 | 0.000308 | 0.004342 | 0.535245 | 0.614237 | 0.352688 | 0.261549 | 12 | 1.1E+08 | F | II | KCTD10 | Body | opensea | Body-open | | rs5584205 | 0;21 | |
| cg03070297 | -0.20955 | 0.212637 | -6.22731 | 0.000309 | 0.004348 | 0.532932 | 0.317413 | 0.107861 | 0.209552 | 10 | 1.29E+08 | F | I | DOCK1 | Body | island | Body-islanc | chr10:128 | rs5618579 | 26 | |
| cg10262387 | -0.24604 | 0.306507 | -6.22673 | 0.000309 | 0.004349 | 0.532283 | 0.429528 | 0.183486 | 0.246042 | 6 | 29855435 | R | II | HLA-H | Body | island | Body-islanc | chr6:2985 | rs3128881 | 51;45;36;28;12 | |
| cg06915826 | -0.23494 | 0.267402 | -6.22554 | 0.000309 | 0.004352 | 0.53096 | 0.384871 | 0.149934 | 0.234936 | 12 | 56329903 | R | II | DGKA | 5'UTR | shore | 5'UTR-shor | chr12:563 | rs5768502 | 17;15 | |
| cg04602992 | -0.23887 | 0.329406 | -6.221 | 0.000311 | 0.004363 | 0.525906 | 0.448842 | 0.209969 | 0.238873 | 17 | 62009628 | R | II | CD79B | 1stExon | opensea | 1stExon-op | | rs1999304 | 23;2;1 | |
| cg02125896 | -0.20402 | 0.273441 | -6.22072 | 0.000311 | 0.004363 | 0.525595 | 0.37545 | 0.171432 | 0.204018 | 12 | 6895774 | R | II | | IGR | opensea | IGR-opense | | rs1431712 | 42;4 | |
| cg10182317 | -0.20129 | 0.312516 | -6.22026 | 0.000311 | 0.004364 | 0.525091 | 0.413159 | 0.211874 | 0.201286 | 6 | 1.23E+08 | F | I | CLVS2 | TSS200 | island | TSS200-isla | chr6:1233 | rs5591707 | 23 | |
| cg03217953 | -0.24634 | 0.605137 | -6.21193 | 0.000314 | 0.004385 | 0.515811 | 0.728309 | 0.481965 | 0.246345 | 20 | 52370216 | F | II | | IGR | opensea | IGR-opense | | rs5724363 | 22 | |
| cg14905144 | -0.30042 | 0.492519 | -6.21121 | 0.000314 | 0.004386 | 0.515016 | 0.642731 | 0.342308 | 0.300423 | 15 | 70387094 | R | II | TLE3 | 5'UTR | shore | 5'UTR-shor | chr15:703 | rs5513355 | 11;6;5 | |
| cg05715564 | -0.2731 | 0.453888 | -6.2107 | 0.000314 | 0.004387 | 0.514449 | 0.590436 | 0.317339 | 0.273096 | 9 | 1.31E+08 | F | II | FAM102A | Body | opensea | Body-open | | rs5566514 | 0;12 | |
| cg26080847 | -0.2088 | 0.244436 | -6.21065 | 0.000314 | 0.004387 | 0.514385 | 0.348836 | 0.140037 | 0.208799 | 4 | 86396536 | F | II | ARHGAP24 | 1stExon | opensea | 1stExon-op | | rs5723473 | 10;17;34;37 | |
| cg18808261 | -0.25719 | 0.467277 | -6.21053 | 0.000314 | 0.004387 | 0.514255 | 0.595871 | 0.338684 | 0.257187 | 3 | 18464935 | R | II | SATB1 | 5'UTR | shore | 5'UTR-shor | chr3:1846 | rs5763052 | 21 | |
| cg24084780 | -0.27708 | 0.314882 | -6.21028 | 0.000314 | 0.004388 | 0.513974 | 0.453423 | 0.176342 | 0.277081 | 2 | 1.76E+08 | R | II | CHN1 | Body | opensea | Body-open | | | | |
| cg05491001 | -0.25098 | 0.314324 | -6.2064 | 0.000315 | 0.004397 | 0.50965 | 0.439813 | 0.188836 | 0.250977 | 4 | 62066539 | F | I | | IGR | island | IGR-island | chr4:6206 | rs1386678 | 21;23 | |
| cg00084669 | -0.27438 | 0.446921 | -6.20463 | 0.000316 | 0.004401 | 0.507686 | 0.584111 | 0.309731 | 0.274381 | 3 | 1.89E+08 | F | I | TPRG1-AS1 | TSS200 | island | TSS200-isla | chr3:1886 | rs1496605 | 17;21;30;48;49 | |
| cg09086987 | -0.26165 | 0.662328 | -6.19868 | 0.000318 | 0.004417 | 0.501045 | 0.793152 | 0.531504 | 0.261648 | 3 | 18470432 | F | II | SATB1 | 5'UTR | shelf | 5'UTR-shelf | chr3:1846 | | | |
| cg09847335 | -0.21662 | 0.552263 | -6.19811 | 0.000318 | 0.004419 | 0.500413 | 0.660571 | 0.443954 | 0.216617 | 17 | 62624233 | R | II | SMURF2 | Body | opensea | Body-open | | rs5721084 | 7 | |
| cg19798735 | -0.25294 | 0.531965 | -6.19789 | 0.000318 | 0.004419 | 0.500164 | 0.658435 | 0.405496 | 0.25294 | 7 | 1.11E+08 | F | II | IMMP2L | Body | opensea | Body-open | | rs5512629 | 0;36;40 | |
| cg04408266 | -0.20093 | 0.317409 | -6.18841 | 0.000321 | 0.004444 | 0.489584 | 0.417872 | 0.216946 | 0.200925 | 1 | 2.12E+08 | R | II | PPP2R5A | TSS1500 | shore | TSS1500-sh | chr1:2124 | | | |
| cg10181798 | -0.24322 | 0.563019 | -6.18362 | 0.000323 | 0.004456 | 0.484237 | 0.684629 | 0.441408 | 0.243221 | 14 | 64670300 | R | II | SYNE2 | Body | opensea | Body-open | | rs5808985 | 46;33;27 | |
| cg01851450 | -0.2057 | 0.285438 | -6.18116 | 0.000324 | 0.004462 | 0.481481 | 0.388287 | 0.182588 | 0.205699 | 6 | 1.47E+08 | R | II | RAB32 | TSS1500 | shore | TSS1500-sh | chr6:1468 | | | |

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| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg16668359 | -0.20323 | 0.301676 | -5.81973 | 0.000477 | 0.0056 | 0.068724 | 0.40329 | 0.200063 | 0.203227 | 2 | 45159434 | F | I | | IGR | shore | IGR-shore | chr2:45159 | | |
| cg08191899 | -0.24287 | 0.342352 | -5.81734 | 0.000478 | 0.005609 | 0.065934 | 0.46379 | 0.220915 | 0.242875 | 21 | 35501530 | R | II | MRPS6 | Body | opensea | Body-opens | | rs5337098 | 47;1 |
| cg14413263 | -0.22299 | 0.251289 | -5.81277 | 0.00048 | 0.005626 | 0.060604 | 0.362784 | 0.139794 | 0.22299 | 5 | 1.28E+08 | R | I | FBN2 | TSS200 | island | TSS200-isla | chr5:12787 | rs5495461 | 36;35;24;22 |
| cg04747245 | -0.24448 | 0.440877 | -5.81238 | 0.00048 | 0.005628 | 0.060147 | 0.563118 | 0.318637 | 0.244482 | 7 | 30197130 | F | II | MTURN | Body | opensea | Body-opens | | rs6173593 | 1;4;41 |
| cg20023898 | -0.20368 | 0.464712 | -5.80914 | 0.000482 | 0.005639 | 0.056365 | 0.566553 | 0.362871 | 0.203682 | 16 | 67048469 | F | II | | IGR | island | IGR-island | chr16:6704 | rs5507543 | 18;26 |
| cg06001519 | -0.24998 | 0.323443 | -5.80472 | 0.000485 | 0.005656 | 0.051197 | 0.448432 | 0.198454 | 0.249979 | 13 | 23500838 | R | II | | IGR | island | IGR-island | chr13:2356 | rs5741515 | 37;17 |
| cg10173006 | -0.2568 | 0.566838 | -5.80382 | 0.000485 | 0.005659 | 0.05015 | 0.695237 | 0.438439 | 0.256799 | 1 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5716484 | 21 |
| cg05351767 | -0.21052 | 0.314547 | -5.80196 | 0.000486 | 0.005665 | 0.04797 | 0.419808 | 0.209287 | 0.210521 | 15 | 52527480 | R | II | MYO5C | Body | opensea | Body-opens | | rs7597529 | 14;1 |
| cg03668323 | -0.21283 | 0.347086 | -5.79735 | 0.000488 | 0.005683 | 0.04259 | 0.453499 | 0.240673 | 0.212826 | 10 | 1.16E+08 | F | II | ABLIM1 | 5'UTR | opensea | 5'UTR-open | | rs5744907 | 31 |
| cg06818377 | -0.23312 | 0.571771 | -5.79381 | 0.00049 | 0.005697 | 0.038437 | 0.68833 | 0.455212 | 0.233118 | 8 | 56793504 | R | II | LYN | 5'UTR | shore | 5'UTR-shor | chr8:56795 | rs6474026 | 13 |
| cg05572334 | -0.24952 | 0.676674 | -5.78131 | 0.000497 | 0.005742 | 0.023806 | 0.801432 | 0.551915 | 0.249516 | 7 | 55506671 | R | II | | IGR | opensea | IGR-opense | | rs5383429 | 29;2 |
| cg16078649 | -0.28771 | 0.406825 | -5.7799 | 0.000498 | 0.005748 | 0.022146 | 0.55068 | 0.262971 | 0.287709 | 6 | 30039466 | R | I | RNF39 | Body | island | Body-islanc | chr6:30038 | rs2301752 | 50;49 |
| cg15843262 | -0.22834 | 0.239285 | -5.77748 | 0.000499 | 0.005756 | 0.019309 | 0.353455 | 0.125115 | 0.22834 | 2 | 25473895 | F | I | DNMT3A | Body | shore | Body-shore | chr2:25474 | rs1153575 | 43;46 |
| cg26817092 | -0.20367 | 0.472425 | -5.776 | 0.0005 | 0.005762 | 0.017576 | 0.574262 | 0.370587 | 0.203675 | 5 | 40672805 | R | II | | IGR | opensea | IGR-opense | | | |
| cg11512009 | -0.22739 | 0.503571 | -5.77466 | 0.000501 | 0.005768 | 0.016009 | 0.617267 | 0.389875 | 0.227392 | 17 | 38220694 | F | II | THRA | 5'UTR | shore | 5'UTR-shor | chr17:3821 | rs1854091 | 1;14 |
| cg02881866 | -0.23306 | 0.488786 | -5.77349 | 0.000501 | 0.005773 | 0.014633 | 0.605315 | 0.372258 | 0.233057 | 17 | 999650 | R | I | ABR | Body | opensea | Body-opens | | rs2257532 | 25;24;2 |
| cg17048073 | -0.27618 | 0.450902 | -5.77205 | 0.000502 | 0.005778 | 0.012947 | 0.588992 | 0.312812 | 0.27618 | 8 | 23102091 | F | II | CHMP7 | 5'UTR | shore | 5'UTR-shor | chr8:23102 | rs5714268 | 10;17 |
| cg09463948 | -0.23187 | 0.578872 | -5.76934 | 0.000504 | 0.005788 | 0.009766 | 0.694808 | 0.462936 | 0.231873 | 9 | 1.33E+08 | R | II | USP20 | 5'UTR | opensea | 5'UTR-open | | rs1823931 | 26;10 |
| cg11874016 | -0.24107 | 0.617535 | -5.76918 | 0.000504 | 0.005789 | 0.009581 | 0.73807 | 0.497 | 0.24107 | 13 | 98112879 | R | II | RAP2A | Body | opensea | Body-opens | | rs1931078 | 35;13;7 |
| cg16935794 | -0.25021 | 0.512401 | -5.76631 | 0.000505 | 0.005799 | 0.006212 | 0.637505 | 0.387296 | 0.250209 | 5 | 71525514 | F | II | MRPS27 | Body | opensea | Body-opens | | | |
| cg04664446 | -0.24229 | 0.383427 | -5.7626 | 0.000507 | 0.005813 | 0.001849 | 0.504574 | 0.26228 | 0.242295 | 1 | 1.51E+08 | R | II | ARNT | Body | opensea | Body-opens | | rs1405115 | 2 |
| cg25354657 | -0.22649 | 0.425172 | -5.76147 | 0.000508 | 0.005817 | 0.000521 | 0.538419 | 0.311926 | 0.226494 | 11 | 1.3E+08 | F | II | APLP2 | Body | shelf | Body-shelf | chr11:1295 | rs1113778 | 16;18 |
| cg21305555 | -0.27079 | 0.54249 | -5.76057 | 0.000509 | 0.005821 | -0.00053 | 0.677886 | 0.407095 | 0.270791 | 12 | 1.08E+08 | R | II | BTBD11 | Body | opensea | Body-opens | | rs5696865 | 2;1 |
| cg11727282 | -0.2094 | 0.370955 | -5.75804 | 0.00051 | 0.00583 | -0.0035 | 0.475654 | 0.266257 | 0.209397 | 9 | 23826368 | F | I | ELAVL2 | TSS1500 | shelf | TSS1500-sh | chr9:2382 | rs1169569 | 21 |
| cg13977835 | -0.21996 | 0.566027 | -5.75576 | 0.000511 | 0.005839 | -0.00618 | 0.676005 | 0.456049 | 0.219956 | 1 | 23883338 | R | II | | IGR | shore | IGR-shore | chr1:2388 | rs5655141 | 30;2 |
| cg23493133 | -0.20568 | 0.228333 | -5.75457 | 0.000512 | 0.005843 | -0.00758 | 0.33117 | 0.125495 | 0.205675 | 19 | 50056114 | F | II | | IGR | shelf | IGR-shelf | chr19:500 | rs1042194 | 9 |
| cg00884731 | -0.24375 | 0.286475 | -5.75128 | 0.000514 | 0.005854 | -0.01146 | 0.40835 | 0.1646 | 0.24375 | 9 | 85678133 | F | I | RASEF | TSS200 | island | TSS200-isla | chr9:8567 | rs1505397 | 18;47 |
| cg08633893 | -0.26217 | 0.557729 | -5.75066 | 0.000514 | 0.005858 | -0.01218 | 0.688813 | 0.426644 | 0.262169 | 13 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5704046 | 3;2 |
| cg27419618 | -0.29014 | 0.574654 | -5.75011 | 0.000514 | 0.005859 | -0.01282 | 0.719723 | 0.429585 | 0.290138 | 3 | 71180859 | R | II | FOXP1 | TSS1500 | opensea | TSS1500-op | | rs5779440 | 4 |
| cg01785442 | -0.2275 | 0.246718 | -5.74811 | 0.000516 | 0.005867 | -0.01518 | 0.360468 | 0.132968 | 0.2275 | 5 | 1.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs1904045 | 40;6 |
| cg23095368 | -0.21982 | 0.40709 | -5.74562 | 0.000517 | 0.005876 | -0.01811 | 0.517001 | 0.297178 | 0.219823 | 4 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg15689796 | -0.24811 | 0.505811 | -5.74335 | 0.000518 | 0.005886 | -0.02079 | 0.629867 | 0.381755 | 0.248111 | 14 | 93116574 | F | II | RIN3 | Body | opensea | Body-opens | | rs1511067 | 33 |
| cg22778135 | -0.22349 | 0.443555 | -5.73441 | 0.000523 | 0.005917 | -0.03131 | 0.555301 | 0.331809 | 0.223492 | 17 | 46271818 | F | II | SKAP1 | Body | opensea | Body-opens | | rs5516606 | 4;20;38;39 |
| cg05732750 | -0.22188 | 0.30129 | -5.73263 | 0.000524 | 0.005924 | -0.03341 | 0.412231 | 0.190348 | 0.221884 | 7 | 6704045 | F | I | | IGR | island | IGR-island | chr7:6703 | | |
| cg27515589 | -0.23239 | 0.43888 | -5.7281 | 0.000527 | 0.005944 | -0.03875 | 0.555075 | 0.322685 | 0.23239 | 5 | 96259834 | F | II | | IGR | opensea | IGR-opense | | rs5733643 | 4;11;12;49 |
| cg25097419 | -0.22693 | 0.306786 | -5.72627 | 0.000528 | 0.005951 | -0.04091 | 0.420249 | 0.193323 | 0.226926 | 5 | 79487997 | F | II | SERINC5 | Body | opensea | Body-opens | | rs5562843 | 15;22;27 |
| cg15354065 | -0.21829 | 0.265644 | -5.72397 | 0.00053 | 0.005959 | -0.04363 | 0.374788 | 0.1565 | 0.218287 | 12 | 56327217 | F | II | DGKA | 5'UTR | shore | 5'UTR-shor | chr12:5632 | | |
| cg02714303 | -0.20409 | 0.286158 | -5.71757 | 0.000533 | 0.005983 | -0.05118 | 0.388202 | 0.184114 | 0.204089 | 13 | 76334728 | F | II | LMO7 | TSS200 | opensea | TSS200-ope | | rs1828857 | 4;43 |
| cg11179009 | -0.21204 | 0.324797 | -5.71625 | 0.000534 | 0.005989 | -0.05274 | 0.430819 | 0.218776 | 0.212043 | 13 | 44880831 | F | II | | IGR | opensea | IGR-opense | | rs1876204 | 45 |
| cg22123784 | -0.24134 | 0.367328 | -5.71493 | 0.000535 | 0.005994 | -0.0543 | 0.487998 | 0.246658 | 0.24134 | 8 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5746854 | 38 |
| cg25218716 | -0.2306 | 0.22294 | -5.71015 | 0.000538 | 0.006013 | -0.05995 | 0.338241 | 0.107638 | 0.230604 | 20 | 22565228 | R | I | FOXA2 | 5'UTR | island | 5'UTR-islan | chr20:225 | | |
| cg21845390 | -0.25613 | 0.42777 | -5.70892 | 0.000538 | 0.006017 | -0.0614 | 0.555836 | 0.299705 | 0.256131 | 13 | 40762260 | F | II | | IGR | opensea | IGR-opense | | rs5358817 | 24;34 |
| cg10665789 | -0.20791 | 0.259916 | -5.70834 | 0.000539 | 0.00602 | -0.06209 | 0.363871 | 0.155962 | 0.207909 | 1 | 2.27E+08 | F | II | ITPKB | Body | shelf | Body-shelf | chr1:2269 | rs7547263 | 1;8 |
| cg17250770 | -0.22599 | 0.326422 | -5.70204 | 0.000543 | 0.006046 | -0.06954 | 0.439418 | 0.213427 | 0.225991 | 8 | 22500401 | R | II | FLJ14107 | TSS1500 | opensea | TSS1500-op | | rs5396728 | 50;43 |
| cg04597393 | -0.22043 | 0.548796 | -5.70167 | 0.000543 | 0.006048 | -0.06997 | 0.659012 | 0.438579 | 0.220433 | 8 | 1.42E+08 | F | I | | IGR | opensea | IGR-opense | | rs5582902 | 17 |
| cg24884214 | -0.21551 | 0.483488 | -5.70161 | 0.000543 | 0.006048 | -0.07004 | 0.591245 | 0.375732 | 0.215513 | 2 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5551668 | 9;6;3 |
| cg06478504 | -0.24522 | 0.432262 | -5.7 | 0.000544 | 0.006054 | -0.07195 | 0.554872 | 0.309653 | 0.24522 | 2 | 2.4E+08 | F | I | HDAC4 | Body | opensea | Body-opens | | rs5449852 | 0;11;19 |
| cg02148787 | -0.20738 | 0.296517 | -5.69905 | 0.000544 | 0.006058 | -0.07307 | 0.400208 | 0.192827 | 0.207382 | 5 | 1.33E+08 | R | II | TCF7 | TSS1500 | island | TSS1500-isl | chr5:1334 | rs5321744 | 7;2 |
| cg22821324 | -0.2082 | 0.237807 | -5.69804 | 0.000545 | 0.006062 | -0.07427 | 0.341909 | 0.133706 | 0.208203 | 4 | 1.77E+08 | R | II | GPM6A | 5'UTR | island | 5'UTR-islan | chr4:1769 | rs1509373 | 50;33;24;12 |
| cg00042489 | -0.27441 | 0.487711 | -5.68999 | 0.00055 | 0.006096 | -0.0838 | 0.624916 | 0.350506 | 0.27441 | 1 | 2.27E+08 | R | II | PSEN2 | Body | opensea | Body-opens | | rs1147786 | 15 |
| cg00086577 | -0.20215 | 0.519889 | -5.68482 | 0.000553 | 0.006118 | -0.08992 | 0.620963 | 0.418814 | 0.20215 | 6 | 32122894 | F | II | PPT2 | Body | shore | Body-shore | chr6:3212 | rs1487888 | 1 |
| cg07382454 | -0.21671 | 0.278478 | -5.68382 | 0.000554 | 0.006121 | -0.09111 | 0.386834 | 0.170123 | 0.216711 | 19 | 19383976 | R | I | TM6SF2 | 1stExon | island | 1stExon-isl | chr19:1934 | rs1997296 | 20;9 |
| cg10575067 | -0.29663 | 0.580499 | -5.6838 | 0.000554 | 0.006121 | -0.09114 | 0.728812 | 0.432186 | 0.296625 | 19 | 39896215 | R | II | ZFP36 | TSS1500 | shore | TSS1500-sh | chr19:3985 | | |
| cg25557432 | -0.20231 | 0.230906 | -5.68269 | 0.000554 | 0.006125 | -0.09246 | 0.332059 | 0.129753 | 0.202306 | 20 | 13976117 | R | I | MACROD2 | TSS200 | island | TSS200-isla | chr20:1395 | rs3701202 | 40 |
| cg11148130 | -0.23241 | 0.363632 | -5.68202 | 0.000555 | 0.006128 | -0.09325 | 0.479839 | 0.247424 | 0.232415 | 3 | 73674068 | F | II | PDZRN3 | 5'UTR | island | 5'UTR-islan | chr3:7367 | rs5781775 | 8;9;18;19;49 |
| cg15047408 | -0.2457 | 0.588094 | -5.67852 | 0.000557 | 0.006142 | -0.09739 | 0.710946 | 0.465241 | 0.245705 | 20 | 42427235 | R | II | | IGR | opensea | IGR-opense | | rs1130644 | 9;6;4;2 |
| cg26001902 | -0.22107 | 0.252111 | -5.67536 | 0.000559 | 0.006154 | -0.10115 | 0.362644 | 0.141578 | 0.221066 | 2 | 1.09E+08 | F | I | SLC5A7 | TSS200 | island | TSS200-isla | chr2:1086 | | |
| cg09375033 | -0.21077 | 0.578478 | -5.67487 | 0.000559 | 0.006156 | -0.10173 | 0.683862 | 0.473094 | 0.210768 | 3 | 1.38E+08 | F | II | DZIP1L | 5'UTR | shore | 5'UTR-shor | chr3:1378 | rs3755067 | 40 |
| cg01776373 | -0.20133 | 0.31825 | -5.67283 | 0.00056 | 0.006164 | -0.10415 | 0.418914 | 0.217587 | 0.201327 | 11 | 46353961 | F | II | DGKZ | TSS1500 | shore | TSS1500-sh | chr11:4634 | rs5458661 | 45 |
| cg13260278 | -0.21299 | 0.542626 | -5.67238 | 0.000561 | 0.006166 | -0.10469 | 0.649119 | 0.436132 | 0.212987 | 10 | 1.21E+08 | R | II | RGS10 | Body | opensea | Body-opens | | rs1397039 | 44;29 |
| cg24490843 | -0.23974 | 0.580821 | -5.67097 | 0.000562 | 0.006172 | -0.10636 | 0.70069 | 0.460953 | 0.239737 | 17 | 38752624 | R | II | | IGR | opensea | IGR-opense | | rs1294446 | 41;2;1 |
| cg19930116 | -0.22706 | 0.505137 | -5.66949 | 0.000562 | 0.006179 | -0.10812 | 0.618667 | 0.391607 | 0.22706 | 14 | 50809588 | F | II | CDKL1 | Body | opensea | Body-opens | | rs1157083 | 44;49 |
| cg22336648 | -0.26334 | 0.572259 | -5.66816 | 0.000563 | 0.006184 | -0.10969 | 0.703931 | 0.440587 | 0.263344 | 3 | 18480706 | R | II | SATB1 | TSS1500 | opensea | TSS1500-op | | | |
| cg02439964 | -0.25341 | 0.460493 | -5.66638 | 0.000564 | 0.006191 | -0.1118 | 0.587196 | 0.333789 | 0.253407 | 13 | 21276788 | F | II | IL17D | TSS1500 | shore | TSS1500-sh | chr13:212 | rs1826859 | 6;21;27;47 |
| cg16761216 | -0.22512 | 0.498628 | -5.66446 | 0.000566 | 0.006198 | -0.11409 | 0.611189 | 0.386067 | 0.225121 | 4 | 38664394 | F | II | KLF3 | TSS1500 | shore | TSS1500-sh | chr4:3866 | rs5728778 | 8;39 |
| cg14160787 | -0.22429 | 0.466101 | -5.66436 | 0.000566 | 0.006199 | -0.1142 | 0.578245 | 0.353957 | 0.224288 | 21 | 43818241 | F | II | TMPRSS3 | TSS1500 | opensea | TSS1500-op | | rs1440926 | 0;14 |
| cg11699576 | -0.23955 | 0.436262 | -5.66401 | 0.000566 | 0.006201 | -0.11463 | 0.556036 | 0.316489 | 0.239547 | 14 | 99681881 | F | II | BCL11B | Body | opensea | Body-opens | | rs5276442 | 30 |
| cg24069928 | -0.23017 | 0.505099 | -5.66324 | 0.000566 | 0.006204 | -0.11554 | 0.620187 | 0.390012 | 0.230175 | 6 | 1.67E+08 | F | II | RNASET2 | Body | shelf | Body-shelf | chr6:1673 | rs5397314 | 0 |
| cg16792800 | -0.20329 | 0.273953 | -5.65898 | 0.000569 | 0.006222 | -0.1206 | 0.375597 | 0.172309 | 0.203289 | 13 | 93879361 | F | II | GPC6 | 1stExon | island | 1stExon-isl | chr13:938 | rs5622573 | 8;14;29;42 |
| cg11690122 | -0.22852 | 0.375005 | -5.6588 | 0.000569 | 0.006222 | -0.12082 | 0.489266 | 0.260745 | 0.228521 | 10 | 89825036 | F | II | | IGR | opensea | IGR-opense | | rs5585300 | 0;1;12;16;19 |
| cg20478129 | -0.21658 | 0.202309 | -5.65843 | 0.000569 | 0.006224 | -0.12126 | 0.310598 | 0.09402 | 0.216578 | 14 | 27067372 | F | I | NOVA1 | TSS1500 | shore | TSS1500-sh | chr14:2706 | | |
| cg04346257 | -0.21335 | 0.328543 | -5.65828 | 0.00057 | 0.006224 | -0.12143 | 0.435216 | 0.221871 | 0.213346 | 17 | 75430923 | R | II | SEPT9 | Body | opensea | Body-opens | | rs5603254 | 2;1 |
| cg18651870 | -0.21911 | 0.38394 | -5.65557 | 0.000571 | 0.006236 | -0.12466 | 0.493496 | 0.274383 | 0.219113 | 18 | 70535005 | R | I | NETO1 | TSS200 | island | TSS200-isla | chr18:7052 | rs5594633 | 20;10;1 |
| cg22132509 | -0.22272 | 0.551094 | -5.65225 | 0.000573 | 0.006249 | -0.12861 | 0.662454 | 0.439733 | 0.222721 | 3 | 1.6E+08 | F | II | PPM1L | Body | shore | Body-shore | chr3:1604 | | |
| cg08577982 | -0.22231 | 0.515588 | -5.65136 | 0.000574 | 0.006253 | -0.12967 | 0.626741 | 0.404435 | 0.222306 | 15 | 91164193 | R | II | CRTC3 | Body | opensea | Body-opens | | rs7689413 | 48 |
| cg20674738 | -0.23349 | 0.286243 | -5.65133 | 0.000574 | 0.006253 | -0.1297 | 0.402987 | 0.1695 | 0.233487 | 1 | 26453892 | R | II | | IGR | opensea | IGR-opense | | rs5754987 | 14 |
| cg03343571 | -0.27137 | 0.420383 | -5.65084 | 0.000574 | 0.006255 | -0.13028 | 0.556066 | 0.284699 | 0.271367 | 6 | 30039175 | F | I | RNF39 | Body | island | Body-islanc | chr6:30038 | rs5289048 | 36 |
| cg20506347 | -0.23038 | 0.411301 | -5.64944 | 0.000575 | 0.00626 | -0.13195 | 0.526489 | 0.296114 | 0.230375 | 3 | 71355161 | F | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs5614775 | 0;1 |
| cg19620333 | -0.21408 | 0.340585 | -5.64861 | 0.000576 | 0.006264 | -0.13294 | 0.447626 | 0.233545 | 0.214081 | 15 | 81596332 | F | II | IL16 | Body | opensea | Body-opens | | rs5726740 | 0;2;10;28 |
| cg18876294 | -0.24379 | 0.37098 | -5.64694 | 0.000577 | 0.00627 | -0.13493 | 0.492877 | 0.249084 | 0.243793 | 11 | 1.19E+08 | F | II | C2CD2L | Body | opensea | Body-opens | | rs5429321 | 28;51 |
| cg14997450 | -0.21892 | 0.476517 | -5.64669 | 0.000577 | 0.006271 | -0.13522 | 0.585977 | 0.367057 | 0.21892 | 2 | 2.17E+08 | F | II | PECR | TSS1500 | shore | TSS1500-sh | chr2:2169 | rs5602146 | 1 |
| cg03735233 | -0.20969 | 0.198686 | -5.64498 | 0.000578 | 0.006279 | -0.13727 | 0.303529 | 0.093843 | 0.209686 | 16 | 68318873 | R | II | SLC7A6 | Body | opensea | Body-opens | | rs7453499 | 47;15 |
| cg18919209 | -0.26307 | 0.556032 | -5.6413 | 0.00058 | 0.006295 | -0.14165 | 0.687569 | 0.424495 | 0.263074 | 11 | 96012039 | F | II | MAML2 | Body | opensea | Body-opens | | | |
| cg06222774 | -0.22031 | 0.400394 | -5.64103 | 0.000581 | 0.006296 | -0.14197 | 0.510549 | 0.29024 | 0.220309 | 8 | 66743912 | F | II | PDE7A | Body | opensea | Body-opens | | rs5523643 | 46 |
| cg18343957 | -0.28923 | 0.314609 | -5.63911 | 0.000582 | 0.006305 | -0.14426 | 0.459225 | 0.169993 | 0.289232 | 14 | 48144197 | R | I | MDGA2 | TSS200 | island | TSS200-isla | chr14:4814 | rs5557021 | 27 |
| cg04492228 | -0.21342 | 0.257006 | -5.63805 | 0.000583 | 0.00631 | -0.14552 | 0.363716 | 0.150297 | 0.213419 | 10 | 8101513 | R | II | GATA3 | Body | shore | Body-shore | chr10:810 | rs5407739 | 40;30;16 |
| cg09676794 | -0.22173 | 0.386719 | -5.63752 | 0.000583 | 0.006314 | -0.14616 | 0.497585 | 0.275853 | 0.221732 | 13 | 1E+08 | R | II | CLYBL | Body | shore | Body-shore | chr13:100 | rs7982636 | 13 |
| cg07916304 | -0.21543 | 0.401197 | -5.63558 | 0.000584 | 0.006321 | -0.14846 | 0.508912 | 0.293481 | 0.215431 | 2 | 25502340 | R | II | DNMT3A | Body | shore | Body-shore | chr2:2549 | rs5486788 | 48;1 |
| cg25779483 | -0.25325 | 0.548899 | -5.63387 | 0.000585 | 0.006327 | -0.1505 | 0.675526 | 0.422272 | 0.253253 | 4 | 89978300 | F | II | FAM13A | 1stExon | opensea | 1stExon-op | | rs5742794 | 7 |
| cg16484042 | -0.23227 | 0.419958 | -5.63202 | 0.000586 | 0.006335 | -0.15271 | 0.536092 | 0.303825 | 0.232267 | 16 | 14403405 | R | II | | IGR | opensea | IGR-opense | | rs1823188 | 45;8 |
| cg17775490 | -0.22123 | 0.47382 | -5.63104 | 0.000587 | 0.00634 | -0.15388 | 0.584435 | 0.363206 | 0.22123 | 20 | 45179354 | F | II | C20orf123 | TSS200 | opensea | TSS200-ope | | rs1021181 | 24;29 |
| cg13346003 | -0.23007 | 0.316035 | -5.62894 | 0.000588 | 0.006349 | -0.15638 | 0.431072 | 0.200998 | 0.230074 | 6 | 1.26E+08 | F | II | HDDC2 | TSS1500 | shore | TSS1500-sh | chr6:1256 | rs5649209 | 1 |
| cg26757820 | -0.25663 | 0.28071 | -5.62789 | 0.000589 | 0.006353 | -0.15764 | 0.409023 | 0.152396 | 0.256627 | 10 | 76349278 | R | II | ADK | Body | opensea | Body-opens | | rs5752307 | 30;19 |
| cg23357533 | -0.2349 | 0.404181 | -5.62789 | 0.000589 | 0.006353 | -0.15764 | 0.521629 | 0.286732 | 0.234897 | 13 | 42044673 | F | II | C13orf15 | 3'UTR | opensea | 3'UTR-open | | rs5398659 | 0;46 |
| cg08693443 | -0.23609 | 0.512969 | -5.62677 | 0.00059 | 0.006357 | -0.15897 | 0.631012 | 0.394927 | 0.236085 | 7 | 5537126 | R | II | FBXL18 | Body | shelf | Body-shelf | chr7:5539 | rs1881757 | 11 |
| cg11280255 | -0.21505 | 0.390537 | -5.62499 | 0.000591 | 0.006365 | -0.1611 | 0.49806 | 0.283013 | 0.215047 | 10 | 94063299 | F | II | MARCH5 | Body | opensea | Body-opens | | rs5328194 | 0;27 |
| cg11420364 | -0.22165 | 0.442834 | -5.6214 | 0.000593 | 0.00638 | -0.16539 | 0.553659 | 0.332008 | 0.22165 | 8 | 38822874 | F | II | PLEKHA2 | Body | opensea | Body-opens | | | |
| cg12776892 | -0.31081 | 0.312992 | -5.61898 | 0.000595 | 0.006392 | -0.16828 | 0.468398 | 0.157586 | 0.310812 | 9 | 1.15E+08 | F | II | MIR3134 | Body | opensea | Body-opens | | | |
| cg12838263 | -0.20488 | 0.391923 | -5.61737 | 0.000596 | 0.0064 | -0.1702 | 0.494362 | 0.289485 | 0.204876 | 14 | 1.04E+08 | R | II | ZFYVE21 | Body | shelf | Body-shelf | chr14:1043 | | |
| cg23514529 | -0.21276 | 0.276584 | -5.61732 | 0.000596 | 0.0064 | -0.17026 | 0.382966 | 0.170202 | 0.212765 | 17 | 37033946 | F | II | LASP1 | 5'UTR | opensea | 5'UTR-open | | rs226216;r | 50;51 |
| cg21402921 | -0.29626 | 0.259351 | -5.61683 | 0.000596 | 0.006402 | -0.17085 | 0.407482 | 0.111221 | 0.296261 | 15 | 27112305 | R | I | GABRA5 | 1stExon | island | 1stExon-isl | chr15:2711 | rs5389060 | 37 |
| cg13713046 | -0.22029 | 0.487392 | -5.61204 | 0.0006 | 0.006424 | -0.17657 | 0.59754 | 0.377245 | 0.220294 | 8 | 22500019 | R | II | BIN3-IT1 | TSS1500 | opensea | TSS1500-op | | rs1417865 | 45;15;6;1 |
| cg27447382 | -0.21443 | 0.321417 | -5.61163 | 0.0006 | 0.006425 | -0.17707 | 0.42863 | 0.214205 | 0.214425 | 3 | 23804563 | F | II | | IGR | opensea | IGR-opense | | | |
| cg07781401 | -0.28948 | 0.664729 | -5.61161 | 0.0006 | 0.006425 | -0.17709 | 0.809471 | 0.519987 | 0.289485 | 17 | 19773621 | R | II | | IGR | shore | IGR-shore | chr17:1973 | | |
| cg08938925 | -0.29238 | 0.644461 | -5.60963 | 0.000601 | 0.006434 | -0.17946 | 0.790651 | 0.498271 | 0.29238 | 15 | 64110513 | R | II | HERC1 | 5'UTR | opensea | 5'UTR-open | | rs5555566 | 13;1 |
| cg24480695 | -0.21157 | 0.244514 | -5.60421 | 0.000605 | 0.006459 | -0.18594 | 0.350299 | 0.138728 | 0.211571 | 11 | 18727628 | R | I | IGSF22 | Body | island | Body-islanc | chr11:1873 | | |
| cg05897169 | -0.27034 | 0.490616 | -5.60168 | 0.000607 | 0.00647 | -0.18896 | 0.625785 | 0.355447 | 0.270339 | 17 | 33568598 | F | II | SLFN5 | TSS1500 | shore | TSS1500-sh | chr17:3356 | | |
| cg01553004 | -0.21179 | 0.269736 | -5.59935 | 0.000608 | 0.006481 | -0.19176 | 0.375632 | 0.16384 | 0.211791 | 14 | 77495672 | R | II | C14orf4 | TSS1500 | shore | TSS1500-sh | chr14:7745 | | |
| cg24631428 | -0.20203 | 0.335632 | -5.59803 | 0.000609 | 0.006486 | -0.19334 | 0.436645 | 0.234618 | 0.202026 | 6 | 64281604 | F | II | PTP4A1 | TSS1500 | shore | TSS1500-sh | chr6:6428 | rs5631045 | 46 |
| cg11747499 | -0.25282 | 0.334927 | -5.58547 | 0.000618 | 0.006542 | -0.2084 | 0.461338 | 0.208515 | 0.252822 | 12 | 1.09E+08 | F | II | SSH1 | TSS1500 | shore | TSS1500-sh | chr12:1096 | rs1406967 | 11 |
| cg13246235 | -0.238 | 0.516074 | -5.58372 | 0.000619 | 0.00655 | -0.21049 | 0.635075 | 0.397074 | 0.238001 | 6 | 12749978 | F | I | PHACTR1 | Body | island | Body-islanc | chr6:1274 | rs5352632 | 12 |
| cg00804794 | -0.23656 | 0.634288 | -5.57939 | 0.000622 | 0.00657 | -0.21568 | 0.752566 | 0.51601 | 0.236556 | 6 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs3681141 | 1 |
| cg12733607 | -0.21793 | 0.428748 | -5.57827 | 0.000623 | 0.006575 | -0.21703 | 0.537714 | 0.319782 | 0.217932 | 10 | 21813501 | R | II | C10orf140 | 5'UTR | shore | 5'UTR-shor | chr10:218 | rs5377790 | 5 |
| cg26133769 | -0.20386 | 0.32398 | -5.57766 | 0.000623 | 0.006577 | -0.21777 | 0.42591 | 0.22205 | 0.20386 | 4 | 30723855 | R | I | PCDH7 | 1stExon | island | 1stExon-isl | chr4:3072 | rs5332347 | 18;6 |
| cg22469897 | -0.26393 | 0.363842 | -5.57711 | 0.000624 | 0.00658 | -0.21843 | 0.495807 | 0.231878 | 0.263929 | 19 | 51858276 | F | II | ETFB | TSS200 | opensea | TSS200-ope | | | |
| cg06375042 | -0.20783 | 0.356129 | -5.57617 | 0.000624 | 0.006584 | -0.21955 | 0.460044 | 0.252214 | 0.20783 | 3 | 1.87E+08 | R | II | ST6GAL1 | 5'UTR | opensea | 5'UTR-open | | rs5560562 | 46;43;11;1 |
| cg10704887 | -0.2161 | 0.391236 | -5.57418 | 0.000626 | 0.006593 | -0.22194 | 0.499285 | 0.283187 | 0.216098 | 2 | 2.35E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg21164131 | -0.21745 | 0.327876 | -5.57084 | 0.000628 | 0.006607 | -0.22596 | 0.436599 | 0.219153 | 0.217446 | 12 | 63544923 | R | II | AVPR1A | 1stExon | island | 1stExon-isl | chr12:6354 | rs1865797 | 35 |
| cg01207474 | -0.22941 | 0.298321 | -5.57025 | 0.000628 | 0.006609 | -0.22666 | 0.413029 | 0.183614 | 0.229414 | 10 | 35736855 | R | II | CCNY | 5'UTR | opensea | 5'UTR-open | | rs5655081 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg18077971 | -0.20286 | 0.298472 | -5.56832 | 0.00063 | 0.006618 | -0.22898 | 0.3999 | 0.197044 | 0.202856 | 2 | 2.23E+08 | F | I | PAX3 | TSS1500 | shore | TSS1500-sh | chr2:2231( | rs4550659 | 24;46 | | | |
| cg21327712 | -0.23726 | 0.460461 | -5.56812 | 0.00063 | 0.006619 | -0.22923 | 0.579093 | 0.341829 | 0.237264 | 1 | 1.12E+08 | F | II | DENND2D | TSS1500 | shore | TSS1500-sh | chr1:1117( | rs3543037 | 25 | | | |
| cg27157434 | -0.24125 | 0.290722 | -5.56332 | 0.000633 | 0.006641 | -0.235 | 0.41135 | 0.170095 | 0.241255 | 1 | 1.18E+08 | R | II | PTGFRN | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg10979132 | -0.20581 | 0.383409 | -5.55902 | 0.000636 | 0.00666 | -0.24016 | 0.486313 | 0.280506 | 0.205807 | 22 | 17567287 | F | II | IL17RA | Body | shore | Body-shore | chr22:175( | rs1492164 | 35;49;51 | | | |
| cg07266910 | -0.23367 | 0.441517 | -5.55667 | 0.000638 | 0.006671 | -0.24299 | 0.558353 | 0.324682 | 0.233671 | 3 | 1.79E+08 | R | II | ZMAT3 | Body | opensea | Body-open: | rs2005581 | 22;1 | | | | |
| cg23486701 | -0.24054 | 0.462104 | -5.55519 | 0.000639 | 0.006678 | -0.24478 | 0.582372 | 0.341836 | 0.240536 | 2 | 54789491 | R | II | SPTBN1 | Body | shelf | Body-shelf | chr2:5478! | rs5628160 | 1 | | | |
| cg16026241 | -0.20718 | 0.555912 | -5.55208 | 0.000641 | 0.006692 | -0.24853 | 0.6595 | 0.452324 | 0.207176 | 15 | 38923883 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg10189885 | -0.24416 | 0.435669 | -5.55172 | 0.000642 | 0.006694 | -0.24896 | 0.557749 | 0.313588 | 0.244161 | 2 | 1.98E+08 | F | II | ANKRD44 | TSS1500 | shore | TSS1500-sh | chr2:1981( | rs7398843 | 21 | | | |
| cg12774458 | -0.22421 | 0.408069 | -5.55145 | 0.000642 | 0.006695 | -0.24928 | 0.520175 | 0.295964 | 0.224211 | 14 | 98445422 | R | II | LINC01550 | TSS1500 | opensea | TSS1500-op | | rs1450889 | 30 | | | |
| cg13763181 | -0.2172 | 0.377235 | -5.55066 | 0.000642 | 0.006698 | -0.25022 | 0.485835 | 0.268636 | 0.217199 | 10 | 71087979 | F | I | HK1 | Body | opensea | Body-open: | | rs5463576 | 0;1;41 | | | |
| cg26023019 | -0.22201 | 0.278711 | -5.54282 | 0.000648 | 0.006736 | -0.25967 | 0.389714 | 0.167707 | 0.222007 | 21 | 31311859 | F | I | GRIK1 | 1stExon | island | 1stExon-isl | chr21:3133 | rs1865063 | 0 | | | |
| cg21706867 | -0.28165 | 0.47903 | -5.54098 | 0.00065 | 0.006743 | -0.2619 | 0.619855 | 0.338206 | 0.281648 | 5 | 54837161 | F | II | | IGR | opensea | IGR-opense | | rs5768611 | 20 | | | |
| cg25351606 | -0.2153 | 0.55213 | -5.53737 | 0.000652 | 0.006758 | -0.26624 | 0.65978 | 0.444481 | 0.2153 | 6 | 1.01E+08 | F | I | | IGR | island | IGR-island | chr6:1009! | rs5503856 | 31;32;33;50 | | | |
| cg00732589 | -0.20608 | 0.682444 | -5.53444 | 0.000654 | 0.006772 | -0.26979 | 0.785481 | 0.579406 | 0.206075 | 11 | 1.1E+08 | R | II | FDX1 | TSS1500 | shore | TSS1500-sh | chr11:110: | rs5287242 | 37;18;17;14;1 | | | |
| cg12513294 | -0.22501 | 0.410857 | -5.53388 | 0.000655 | 0.006774 | -0.27045 | 0.523361 | 0.298352 | 0.225008 | 11 | 3889218 | R | II | STIM1 | Body | opensea | Body-open: | | rs1860415 | 2 | | | |
| cg23883696 | -0.22139 | 0.338285 | -5.53275 | 0.000656 | 0.00678 | -0.27182 | 0.448982 | 0.227588 | 0.221394 | 18 | 70534298 | R | I | NETO1 | TSS1500 | island | TSS1500-isl | chr18:705: | rs5481924 | 20;1 | | | |
| cg16217803 | -0.21964 | 0.546818 | -5.53221 | 0.000656 | 0.006782 | -0.27248 | 0.656639 | 0.436998 | 0.219641 | 3 | 1.43E+08 | F | II | CHST2 | 3'UTR | shore | 3'UTR-shor | chr3:1428: | rs3694602 | 1;21 | | | |
| cg00103299 | -0.20596 | 0.358625 | -5.53193 | 0.000656 | 0.006783 | -0.27282 | 0.461604 | 0.255646 | 0.205958 | 15 | 93362247 | R | II | | IGR | opensea | IGR-opense | | rs1838412 | 14;8 | | | |
| cg21705011 | -0.25713 | 0.395962 | -5.53188 | 0.000656 | 0.006784 | -0.27287 | 0.524525 | 0.267399 | 0.257126 | 7 | 30196892 | R | II | MTURN | Body | opensea | Body-open: | | | | | | |
| cg03330490 | -0.21428 | 0.368434 | -5.52937 | 0.000658 | 0.006795 | -0.2759 | 0.475576 | 0.261292 | 0.214284 | 10 | 94452236 | F | I | HHEX | Body | island | Body-islanc | chr10:9445 | rs5338245 | 1;7 | | | |
| cg21126583 | -0.20799 | 0.24167 | -5.52814 | 0.000659 | 0.0068 | -0.27739 | 0.345664 | 0.137675 | 0.20799 | 7 | 1.46E+08 | F | I | CNTNAP2 | TSS200 | island | TSS200-isla | chr7:1458: | rs5608750 | 9;16 | | | |
| cg16957374 | -0.25619 | 0.383113 | -5.52618 | 0.00066 | 0.006809 | -0.27976 | 0.511205 | 0.25502 | 0.256185 | 8 | 42596672 | R | II | | IGR | opensea | IGR-opense | | rs1898945 | 28;3;1 | | | |
| cg21591274 | -0.21217 | 0.320958 | -5.52609 | 0.000661 | 0.006809 | -0.27986 | 0.427042 | 0.214874 | 0.212169 | 4 | 74089071 | F | II | ANKRD17 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg02512559 | -0.28851 | 0.338485 | -5.52422 | 0.000662 | 0.006818 | -0.28213 | 0.482741 | 0.194229 | 0.288512 | 16 | 75414554 | F | II | CFDP1 | Body | opensea | Body-open: | | rs5371444 | 0;5;17;39;50 | | | |
| cg24880056 | -0.21565 | 0.284042 | -5.52165 | 0.000664 | 0.006829 | -0.28522 | 0.391868 | 0.176216 | 0.215652 | 18 | 31158234 | R | I | ASXL3 | TSS1500 | opensea | TSS1500-op | | rs1410221 | 3 | | | |
| cg18070458 | -0.26756 | 0.468121 | -5.52073 | 0.000665 | 0.006833 | -0.28634 | 0.601901 | 0.334341 | 0.26756 | 11 | 1.21E+08 | R | II | | IGR | shelf | IGR-shelf | chr11:1215 | rs5780787 | 5;1 | | | |
| cg16745604 | -0.20921 | 0.643494 | -5.51994 | 0.000665 | 0.006837 | -0.2873 | 0.748099 | 0.538888 | 0.20921 | 2 | 2.02E+08 | F | II | CASP10 | TSS200 | opensea | TSS200-ope | | rs7142428 | 9;51 | | | |
| cg03736648 | -0.2135 | 0.36314 | -5.51743 | 0.000667 | 0.00685 | -0.29033 | 0.46989 | 0.256389 | 0.213501 | 8 | 6575837 | R | II | AGPAT5 | Body | opensea | Body-open: | | rs5623307 | 45;41;34;26;1 | | | |
| cg18276442 | -0.20181 | 0.279244 | -5.51298 | 0.00067 | 0.006871 | -0.29571 | 0.380147 | 0.178341 | 0.201806 | 8 | 81911441 | F | II | PAG1 | 5'UTR | opensea | 5'UTR-open | | rs1343912 | 0;5;24 | | | |
| cg05067754 | -0.27441 | 0.364227 | -5.51043 | 0.000672 | 0.006884 | -0.2988 | 0.50143 | 0.227023 | 0.274406 | 2 | 1.99E+08 | F | II | PLCL1 | Body | opensea | Body-open: | | rs5772414 | 24;33;44 | | | |
| cg15124215 | -0.26021 | 0.361884 | -5.51042 | 0.000672 | 0.006884 | -0.29881 | 0.491989 | 0.231778 | 0.260211 | 4 | 1.73E+08 | F | I | GALNTL6 | TSS200 | island | TSS200-isla | chr4:1727: | rs5752688 | 6;47 | | | |
| cg07780095 | -0.22568 | 0.261826 | -5.50992 | 0.000673 | 0.006885 | -0.29942 | 0.374668 | 0.148985 | 0.225683 | 12 | 85674296 | F | I | ALX1 | Body | island | Body-islanc | chr12:856( | rs3733334 | 0;34;48 | | | |
| cg17766305 | -0.25427 | 0.620388 | -5.50648 | 0.000675 | 0.006901 | -0.30358 | 0.747524 | 0.493252 | 0.254272 | 10 | 90147030 | F | II | RNLS | Body | opensea | Body-open: | | rs5416729 | 40 | | | |
| cg12944600 | -0.24691 | 0.575923 | -5.50148 | 0.000679 | 0.006926 | -0.30964 | 0.699376 | 0.45247 | 0.246906 | 2 | 85147464 | F | II | | IGR | opensea | IGR-opense | | rs1811449 | 1;12 | | | |
| cg12283746 | -0.20278 | 0.208784 | -5.4993 | 0.000681 | 0.006936 | -0.31227 | 0.310174 | 0.107393 | 0.202781 | 15 | 75639596 | R | II | NEIL1 | TSS1500 | island | TSS1500-isl | chr15:756: | rs5287542 | 39;14;2 | | | |
| cg23304747 | -0.27312 | 0.503793 | -5.49506 | 0.000684 | 0.006958 | -0.31741 | 0.640356 | 0.367231 | 0.273125 | 12 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs5601154 | 0 | | | |
| cg13466988 | -0.22142 | 0.548277 | -5.494 | 0.000685 | 0.006963 | -0.3187 | 0.658985 | 0.437569 | 0.221417 | 1 | 12538541 | R | II | VPS13D | Body | opensea | Body-open: | | rs5461719 | 30;28;9 | | | |
| cg21031875 | -0.23509 | 0.506173 | -5.49034 | 0.000688 | 0.006981 | -0.32313 | 0.623718 | 0.388629 | 0.23509 | 10 | 1.02E+08 | R | II | DNMBP | Body | opensea | Body-open: | | rs7982225 | 44;15;1 | | | |
| cg01068944 | -0.20218 | 0.217909 | -5.48933 | 0.000689 | 0.006986 | -0.32436 | 0.319001 | 0.116816 | 0.202185 | 20 | 9049273 | F | I | | IGR | island | IGR-island | chr20:9048 | | | | | | |
| cg23089177 | -0.21584 | 0.337039 | -5.48891 | 0.000689 | 0.006988 | -0.32487 | 0.444956 | 0.229121 | 0.215836 | 7 | 30196932 | F | II | MTURN | Body | opensea | Body-open: | | rs5776761 | 1;33;35 | | | |
| cg05600342 | -0.21722 | 0.356058 | -5.48369 | 0.000693 | 0.00701 | -0.3312 | 0.464668 | 0.247448 | 0.21722 | 11 | 250989 | R | II | PSMD13 | Body | opensea | Body-open: | | rs5532329 | 43;17;14;4 | | | |
| cg27363829 | -0.24982 | 0.417005 | -5.47925 | 0.000697 | 0.007031 | -0.33659 | 0.541918 | 0.292093 | 0.249825 | 3 | 1.65E+08 | F | I | SLITRK3 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg01886311 | -0.21867 | 0.484729 | -5.47869 | 0.000697 | 0.007034 | -0.33728 | 0.594065 | 0.375393 | 0.218672 | 12 | 47603650 | F | II | PCED1B-AS | Body | opensea | Body-open: | | rs1503197 | 38;45 | | | |
| cg11749142 | -0.21853 | 0.289571 | -5.47763 | 0.000698 | 0.007039 | -0.33857 | 0.398835 | 0.180308 | 0.218527 | 7 | 30197085 | R | II | MTURN | Body | opensea | Body-open: | | rs2017161 | 41;13;2 | | | |
| cg01287377 | -0.28739 | 0.383129 | -5.47195 | 0.000702 | 0.007067 | -0.34546 | 0.526824 | 0.239434 | 0.28739 | 3 | 60064969 | R | II | FHIT | Body | opensea | Body-open: | | rs5276501 | 46;39;28;26;1 | | | |
| cg04415176 | -0.23178 | 0.267928 | -5.47135 | 0.000703 | 0.00707 | -0.3462 | 0.383816 | 0.152039 | 0.231777 | 2 | 1.77E+08 | F | I | HOXD13 | 1stExon | island | 1stExon-isl | chr2:1769! | rs1399954 | 36 | | | |
| cg05126388 | -0.2095 | 0.749191 | -5.46774 | 0.000706 | 0.007087 | -0.35058 | 0.853944 | 0.644439 | 0.209505 | 16 | 49670144 | R | II | ZNF423 | Body | island | Body-islanc | chr16:4964 | rs1433937 | 43;32;5 | | | |
| cg24346629 | -0.20413 | 0.219132 | -5.46607 | 0.000707 | 0.007095 | -0.35262 | 0.321199 | 0.117065 | 0.204134 | 3 | 74663689 | F | I | | IGR | island | IGR-island | chr3:7466: | | | | | | |
| cg11591310 | -0.20558 | 0.237298 | -5.46157 | 0.000711 | 0.007117 | -0.35809 | 0.340086 | 0.13451 | 0.205576 | 12 | 12874295 | F | II | CDKN1B | 3'UTR | shelf | 3'UTR-shelf | chr12:128: | rs1929455 | 1 | | | |
| cg08750057 | -0.21159 | 0.353571 | -5.45727 | 0.000714 | 0.007138 | -0.36333 | 0.459364 | 0.247777 | 0.211587 | 12 | 1.24E+08 | R | II | C12orf65 | 5'UTR | shelf | 5'UTR-shelf | chr12:123: | rs5660275 | 13;6 | | | |
| cg21254135 | -0.21774 | 0.456437 | -5.45501 | 0.000716 | 0.007148 | -0.36608 | 0.565308 | 0.347566 | 0.217742 | 7 | 76852292 | R | II | CCDC146 | Body | opensea | Body-open: | | rs1383743 | 39;36;16;1 | | | |
| cg16192197 | -0.21149 | 0.415238 | -5.45075 | 0.00072 | 0.007169 | -0.37127 | 0.520981 | 0.309494 | 0.211487 | 6 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5622603 | 17 | | | |
| cg11019064 | -0.21244 | 0.43782 | -5.4488 | 0.000721 | 0.007178 | -0.37365 | 0.54404 | 0.331601 | 0.212439 | 14 | 71866033 | R | II | | IGR | opensea | IGR-opense | | rs5754875 | 49 | | | |
| cg23250889 | -0.23672 | 0.32118 | -5.44803 | 0.000722 | 0.007182 | -0.37458 | 0.439542 | 0.202819 | 0.236723 | 16 | 57300908 | F | II | PLLP | Body | opensea | Body-open: | | rs5388076 | 0;29;34;49 | | | |
| cg06096336 | -0.22186 | 0.43052 | -5.44752 | 0.000722 | 0.007184 | -0.3752 | 0.54145 | 0.31959 | 0.221859 | 2 | 2.32E+08 | F | II | PSMD1 | Body | opensea | Body-open: | | rs5290981 | 24;25 | | | |
| cg10138083 | -0.22298 | 0.490536 | -5.44559 | 0.000724 | 0.007193 | -0.37756 | 0.602026 | 0.379045 | 0.222981 | 10 | 98156109 | R | II | TLL2 | Body | opensea | Body-open: | | rs5511022 | 46;38;20 | | | |
| cg06653045 | -0.20311 | 0.198216 | -5.44064 | 0.000728 | 0.00722 | -0.3836 | 0.299772 | 0.096659 | 0.203112 | 17 | 68165064 | F | I | KCNJ2 | TSS1500 | island | TSS1500-isl | chr17:681( | | | | | |
| cg15389373 | -0.21419 | 0.482812 | -5.43826 | 0.00073 | 0.007232 | -0.38651 | 0.589906 | 0.375718 | 0.214188 | 13 | 1.01E+08 | R | II | GGACT | 5'UTR | shelf | 5'UTR-shelf | chr13:101: | | | | | |
| cg26524899 | -0.21717 | 0.335266 | -5.43783 | 0.00073 | 0.007234 | -0.38703 | 0.443852 | 0.22668 | 0.217172 | 14 | 64932678 | R | II | AKAP5 | 5'UTR | shore | 5'UTR-shor | chr14:649: | | | | | |
| cg02883147 | -0.21095 | 0.599457 | -5.43642 | 0.000731 | 0.007241 | -0.38875 | 0.704931 | 0.493982 | 0.210948 | 12 | 9217769 | F | II | LOC14457: | TSS200 | shore | TSS200-shc | chr12:921: | | | | | |
| cg12789173 | -0.2348 | 0.579166 | -5.43612 | 0.000732 | 0.007242 | -0.38911 | 0.696566 | 0.461766 | 0.2348 | 11 | 1.18E+08 | F | II | AMICA1 | Body | opensea | Body-open: | | rs5368504 | 5;28 | | | |
| cg25676030 | -0.23117 | 0.414117 | -5.4346 | 0.000733 | 0.00725 | -0.39097 | 0.529703 | 0.298531 | 0.231171 | 3 | 4946693 | R | II | BHLHE40-A | Body | opensea | Body-open: | | rs5766903 | 9;2;1 | | | |
| cg00461022 | -0.21914 | 0.366256 | -5.43301 | 0.000734 | 0.007258 | -0.39291 | 0.475826 | 0.256685 | 0.219141 | 5 | 16618052 | R | II | FAM134B | TSS1500 | shore | TSS1500-sh | chr5:1661( | | | | | |
| cg17705635 | -0.23165 | 0.367727 | -5.43263 | 0.000735 | 0.007259 | -0.39338 | 0.483551 | 0.251903 | 0.231649 | 2 | 1.97E+08 | F | II | HECW2 | Body | opensea | Body-open: | | rs5294493 | 0;3;28;46 | | | |
| cg17984638 | -0.24186 | 0.264421 | -5.43174 | 0.000735 | 0.007264 | -0.39446 | 0.385351 | 0.143491 | 0.24186 | 4 | 48136452 | R | II | TXK | TSS200 | opensea | TSS200-ope | | rs5288375 | 45;30;29;2 | | | |
| cg04478931 | -0.20997 | 0.264941 | -5.43165 | 0.000735 | 0.007264 | -0.39458 | 0.369926 | 0.159956 | 0.20997 | 4 | 86396739 | R | II | ARHGAP24 | 5'UTR | opensea | 5'UTR-open | | rs5657956 | 8 | | | |
| cg07106927 | -0.21458 | 0.607436 | -5.43055 | 0.000736 | 0.007271 | -0.39592 | 0.714727 | 0.500146 | 0.214581 | 1 | 1.61E+08 | R | II | LY9 | Body | shelf | Body-shelf | chr1:1607: | rs5728646 | 17;1 | | | |
| cg01634544 | -0.24398 | 0.323079 | -5.42448 | 0.000741 | 0.007303 | -0.40333 | 0.445071 | 0.201087 | 0.243984 | 14 | 71128147 | R | II | TTC9 | Body | opensea | Body-open: | | rs1899764 | 2 | | | |
| cg05276829 | -0.24037 | 0.674339 | -5.42433 | 0.000742 | 0.007303 | -0.40352 | 0.794525 | 0.554153 | 0.240372 | 2 | 54861832 | R | II | SPTBN1 | Body | opensea | Body-open: | | rs1854514 | 49;40;9;2 | | | |
| cg00563824 | -0.2009 | 0.390217 | -5.42285 | 0.000743 | 0.00731 | -0.40532 | 0.490665 | 0.289768 | 0.200897 | 1 | 2.09E+08 | F | I | | IGR | island | IGR-island | chr1:2094( | | | | | |
| cg15843567 | -0.23069 | 0.266399 | -5.42254 | 0.000743 | 0.007312 | -0.40571 | 0.381744 | 0.151055 | 0.230689 | 10 | 26223206 | F | I | MYO3A | 1stExon | island | 1stExon-isl | chr10:262: | rs7073224 | 24 | | | |
| cg11932301 | -0.20191 | 0.202644 | -5.42239 | 0.000743 | 0.007313 | -0.40589 | 0.3036 | 0.101688 | 0.201912 | 10 | 76349339 | F | II | ADK | Body | opensea | Body-open: | | rs5546731 | 0 | | | |
| cg06168539 | -0.22349 | 0.422853 | -5.42116 | 0.000744 | 0.007318 | -0.40739 | 0.534596 | 0.31111 | 0.223485 | 12 | 53650032 | F | II | | IGR | shelf | IGR-shelf | chr12:536( | rs1861474 | 0;1;22;42 | | | |
| cg07591278 | -0.24414 | 0.49225 | -5.42 | 0.000745 | 0.007325 | -0.40881 | 0.614318 | 0.370182 | 0.244136 | 3 | 23851523 | R | II | UBE2E1 | TSS1500 | shore | TSS1500-sh | chr3:2385: | rs1932598 | 2 | | | |
| cg19095568 | -0.25704 | 0.463692 | -5.41912 | 0.000746 | 0.00733 | -0.40989 | 0.592213 | 0.335171 | 0.257043 | 15 | 41062113 | F | II | DNAJC17 | Body | opensea | Body-open: | | | | | | |
| cg25156960 | -0.20104 | 0.371188 | -5.41786 | 0.000747 | 0.007337 | -0.41143 | 0.471707 | 0.270669 | 0.201039 | 7 | 92645767 | F | II | | IGR | opensea | IGR-opense | | rs1176625 | 13;30 | | | |
| cg00213487 | -0.20138 | 0.494057 | -5.41577 | 0.000749 | 0.007349 | -0.41399 | 0.594749 | 0.393366 | 0.201383 | 15 | 75341903 | F | II | PPCDC | 3'UTR | opensea | 3'UTR-open | | rs5488216 | 1 | | | |
| cg03388670 | -0.22231 | 0.48717 | -5.41308 | 0.000751 | 0.007363 | -0.41728 | 0.598327 | 0.376013 | 0.222315 | 7 | 1.38E+08 | F | II | SVOPL | ExonBnd | opensea | ExonBnd-op | | rs1446381 | 0;1;45 | | | |
| cg13340765 | -0.26402 | 0.478721 | -5.41293 | 0.000751 | 0.007364 | -0.41746 | 0.610731 | 0.346712 | 0.264019 | 8 | 1.42E+08 | F | I | | IGR | opensea | IGR-opense | | rs1422023 | 0;2;10;11;24 | | | |
| cg20426710 | -0.21917 | 0.442106 | -5.41252 | 0.000752 | 0.007366 | -0.41796 | 0.551692 | 0.332519 | 0.219172 | 22 | 50248907 | F | II | ZBED4 | 5'UTR | shore | 5'UTR-shor | chr22:502! | | | | | |
| cg08239161 | -0.24294 | 0.506456 | -5.41074 | 0.000753 | 0.007375 | -0.42014 | 0.627926 | 0.384985 | 0.242941 | 15 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5587818 | 25;11 | | | |
| cg14898127 | -0.25362 | 0.435478 | -5.40939 | 0.000754 | 0.007382 | -0.42179 | 0.562287 | 0.308668 | 0.253619 | 15 | 81587493 | R | II | IL16 | Body | opensea | Body-open: | | rs5683418 | 23 | | | |
| cg04710526 | -0.21152 | 0.564392 | -5.40861 | 0.000755 | 0.007386 | -0.42275 | 0.670153 | 0.458632 | 0.211521 | 12 | 835793 | F | II | | IGR | opensea | IGR-opense | | rs1142043 | 43 | | | |
| cg13240204 | -0.30011 | 0.458279 | -5.40674 | 0.000757 | 0.007396 | -0.42505 | 0.608333 | 0.308224 | 0.300109 | 13 | 74276630 | F | II | KLF12 | Body | opensea | Body-open: | | rs1434573 | 0;31;50 | | | |
| cg03974193 | -0.20813 | 0.393192 | -5.40479 | 0.000758 | 0.007405 | -0.42744 | 0.497257 | 0.289126 | 0.208131 | 2 | 1.02E+08 | R | II | MAP4K4 | Body | shore | Body-shore | chr2:1023: | | | | | |
| cg19913496 | -0.20487 | 0.359929 | -5.40425 | 0.000759 | 0.007408 | -0.42809 | 0.462363 | 0.257496 | 0.204867 | 1 | 1.17E+08 | F | II | | IGR | shore | IGR-shore | chr1:1166( | rs5477613 | 32;36;42 | | | |
| cg03035849 | -0.27567 | 0.565418 | -5.40299 | 0.00076 | 0.007413 | -0.42963 | 0.703252 | 0.427584 | 0.275668 | 6 | 91003200 | R | II | BACH2 | 5'UTR | shore | 5'UTR-shor | chr6:9100( | rs5719522 | 47;26;10;1 | | | |
| cg14211915 | -0.21248 | 0.259339 | -5.40037 | 0.000762 | 0.007427 | -0.43285 | 0.365577 | 0.153101 | 0.212475 | 9 | 94187714 | F | II | | IGR | shore | IGR-shore | chr9:9418! | rs5561960 | 0;13 | | | |
| cg09962086 | -0.27757 | 0.446976 | -5.39786 | 0.000764 | 0.00744 | -0.43593 | 0.585762 | 0.308189 | 0.277573 | 2 | 55260717 | F | II | RTN4 | Body | opensea | Body-open: | | rs5370346 | 8;13;14;15;41;44 | | | |
| cg00052964 | -0.24476 | 0.648249 | -5.39753 | 0.000765 | 0.007441 | -0.43633 | 0.770628 | 0.525869 | 0.244758 | 2 | 85135823 | R | II | | IGR | shelf | IGR-shelf | chr2:8513: | rs5436227 | 42;6;1 | | | |
| cg20563910 | -0.20779 | 0.278094 | -5.39666 | 0.000765 | 0.007446 | -0.4374 | 0.38199 | 0.174198 | 0.207792 | 5 | 1.74E+08 | R | I | MSX2 | 1stExon | island | 1stExon-isl | chr5:1741! | | | | | |
| cg25696648 | -0.26496 | 0.636988 | -5.39619 | 0.000766 | 0.007448 | -0.43797 | 0.769467 | 0.50451 | 0.264956 | 9 | 1.24E+08 | F | II | CNTRL | Body | opensea | Body-open: | | rs7500879 | 0;7 | | | |
| cg23057648 | -0.20379 | 0.289822 | -5.39523 | 0.000767 | 0.007453 | -0.43915 | 0.391718 | 0.187925 | 0.203793 | 21 | 40984763 | F | I | C21orf88 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg23237433 | -0.3141 | 0.43194 | -5.39517 | 0.000767 | 0.007453 | -0.43922 | 0.588993 | 0.274888 | 0.314105 | 13 | 24374391 | F | II | MIPEP | Body | opensea | Body-open: | | rs1462936 | 0;1 | | | |
| cg20834627 | -0.21129 | 0.458697 | -5.39514 | 0.000767 | 0.007453 | -0.43926 | 0.564343 | 0.35305 | 0.211293 | 1 | 2.27E+08 | F | II | ITPKB | Body | opensea | Body-open: | | rs7573541 | 1;11 | | | |
| cg02886077 | -0.21871 | 0.40054 | -5.39398 | 0.000768 | 0.007458 | -0.44069 | 0.509893 | 0.291187 | 0.218707 | 4 | 48779921 | R | II | FRYL | 5'UTR | shore | 5'UTR-shor | chr4:4878: | rs7315023 | 43 | | | |
| cg22435313 | -0.24377 | 0.315481 | -5.39334 | 0.000768 | 0.007461 | -0.44147 | 0.437366 | 0.193595 | 0.243771 | 17 | 64669739 | F | II | PRKCA | Body | opensea | Body-open: | | rs1502969 | 2 | | | |
| cg03727968 | -0.22191 | 0.299554 | -5.3893 | 0.000772 | 0.007484 | -0.44643 | 0.410507 | 0.1886 | 0.221907 | 1 | 1.67E+08 | F | II | CD247 | Body | opensea | Body-open: | | rs5749722 | 1;20 | | | |
| cg19115729 | -0.2814 | 0.652588 | -5.38752 | 0.000774 | 0.007494 | -0.44862 | 0.793287 | 0.511888 | 0.281399 | 11 | 1.08E+08 | R | II | ATM | Body | opensea | Body-open: | | rs5401948 | 32 | | | |
| cg05191076 | -0.22301 | 0.266643 | -5.3861 | 0.000775 | 0.007501 | -0.45035 | 0.378147 | 0.155139 | 0.223008 | 4 | 66536186 | R | I | EPHA5 | TSS1500 | island | TSS1500-isl | chr4:6653( | | | | | |
| cg06108882 | -0.23155 | 0.424879 | -5.38362 | 0.000777 | 0.007515 | -0.4534 | 0.540656 | 0.309102 | 0.231554 | 6 | 32835220 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg00884040 | -0.21537 | 0.339013 | -5.38133 | 0.000779 | 0.007526 | -0.45621 | 0.4467 | 0.231326 | 0.215374 | 16 | 6069401 | R | I | RBFOX1 | TSS1500 | island | TSS1500-isl | chr16:6068 | rs5497682 | 20 | | | |
| cg00983956 | -0.22361 | 0.279862 | -5.37857 | 0.000782 | 0.007542 | -0.45961 | 0.391665 | 0.16806 | 0.223605 | 19 | 58220669 | R | II | ZNF154 | TSS200 | shore | TSS200-shc | chr19:582: | rs1819334 | 41 | | | |
| cg20557159 | -0.20856 | 0.650435 | -5.3752 | 0.000785 | 0.00756 | -0.46375 | 0.754714 | 0.546157 | 0.208557 | 17 | 75445261 | R | II | SEPT9 | Body | shelf | Body-shelf | chr17:754( | rs5661808 | 35;34 | | | |
| cg13586889 | -0.22005 | 0.605831 | -5.37453 | 0.000785 | 0.007563 | -0.46458 | 0.715857 | 0.495805 | 0.220053 | 2 | 1.73E+08 | F | II | ITGA6 | Body | shore | Body-shore | chr2:1732! | | | | | |
| cg06036947 | -0.20096 | 0.334187 | -5.3718 | 0.000788 | 0.007579 | -0.46793 | 0.434666 | 0.233707 | 0.200959 | 7 | 949834 | F | II | ADAP1 | Body | shore | Body-shore | chr7:9482! | rs5444324 | 11;23;35 | | | |
| cg18448581 | -0.23498 | 0.193651 | -5.37159 | 0.000788 | 0.00758 | -0.46819 | 0.31114 | 0.076162 | 0.234978 | 18 | 70534767 | F | I | NETO1 | 1stExon | island | 1stExon-isl | chr18:705: | | | | | |
| cg25922624 | -0.21145 | 0.371693 | -5.36936 | 0.00079 | 0.007592 | -0.47093 | 0.477416 | 0.265969 | 0.211447 | 4 | 1.54E+08 | R | II | TRIM2 | 5'UTR | shore | 5'UTR-shor | chr4:1540: | rs1869046 | 35 | | | |
| cg02185248 | -0.2355 | 0.441043 | -5.36861 | 0.000791 | 0.007596 | -0.47185 | 0.558795 | 0.323292 | 0.235503 | 17 | 78748494 | R | II | RPTOR | Body | opensea | Body-open: | | rs1908559 | 50;39;38;31;24;23;1 | | | |
| cg07377422 | -0.25467 | 0.542219 | -5.36824 | 0.000791 | 0.007597 | -0.4723 | 0.669555 | 0.414882 | 0.254673 | 19 | 46318633 | F | I | RSPH6A | TSS200 | island | TSS200-isla | chr19:463: | rs1164641 | 0;27;47 | | | |
| cg16362955 | -0.27573 | 0.466116 | -5.36741 | 0.000792 | 0.007602 | -0.47333 | 0.60398 | 0.328252 | 0.275728 | 16 | 57050428 | R | II | NLRC5 | TSS1500 | opensea | TSS1500-op | | rs1393354 | 25;20;2 | | | |
| cg26791805 | -0.23286 | 0.464221 | -5.36674 | 0.000792 | 0.007606 | -0.47415 | 0.580652 | 0.34779 | 0.232862 | 14 | 99653857 | F | II | BCL11B | Body | opensea | Body-open: | | rs5626344 | 43 | | | |
| cg26687842 | -0.21209 | 0.743551 | -5.36499 | 0.000794 | 0.007616 | -0.47631 | 0.849595 | 0.637508 | 0.212087 | 13 | 41055491 | F | II | LOC64698: | TSS1500 | opensea | TSS1500-op | | rs1496252 | 38 | | | |
| cg00490655 | -0.2148 | 0.286091 | -5.36331 | 0.000795 | 0.007625 | -0.47838 | 0.393492 | 0.17869 | 0.214802 | 2 | 1.65E+08 | R | I | FIGN | TSS1500 | shore | TSS1500-sh | chr2:1645! | rs5630044 | 7;6 | | | |
| cg22524061 | -0.22695 | 0.386491 | -5.36306 | 0.000796 | 0.007627 | -0.47869 | 0.499967 | 0.273015 | 0.226952 | 8 | 99959430 | F | I | OSR2 | 5'UTR | shore | 5'UTR-shor | chr8:9996( | rs5674071 | 45 | | | |
| cg19216136 | -0.22271 | 0.387463 | -5.35973 | 0.000799 | 0.007644 | -0.48279 | 0.498818 | 0.276108 | 0.22271 | 15 | 64796240 | R | II | ZNF609 | Body | opensea | Body-open: | | | | | | |
| cg25226014 | -0.22976 | 0.230208 | -5.35945 | 0.000799 | 0.007645 | -0.48313 | 0.345087 | 0.115329 | 0.229758 | 3 | 45984942 | F | II | CXCR6 | TSS200 | opensea | TSS200-ope | | rs5364511 | 24 | | | |
| cg10819289 | -0.24448 | 0.690738 | -5.35525 | 0.000803 | 0.007668 | -0.4883 | 0.81298 | 0.568496 | 0.244484 | 22 | 39810539 | F | II | TAB1 | Body | opensea | Body-open: | | rs5721770 | 7;11;21;31 | | | |
| cg01552966 | -0.225 | 0.480283 | -5.35421 | 0.000804 | 0.007674 | -0.48958 | 0.592786 | 0.367781 | 0.225004 | 2 | 25528330 | R | II | DNMT3A | Body | opensea | Body-open: | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg16918625 | -0.23206 | 0.38495 | -5.3533 | 0.000805 | 0.007679 | -0.49072 | 0.500979 | 0.26892 | 0.23206 | 3 | 30655974 | F | II | TGFBR2 | Body | opensea | Body-opens | | | | |
| cg14175634 | -0.28039 | 0.352434 | -5.35272 | 0.000805 | 0.007682 | -0.49142 | 0.492628 | 0.21224 | 0.280388 | 13 | 99647294 | F | II | DOCK9 | Body | opensea | Body-opens | rs1416935 | 1;27 | | |
| cg02387618 | -0.26017 | 0.434075 | -5.35264 | 0.000805 | 0.007682 | -0.49153 | 0.564161 | 0.303989 | 0.260172 | 5 | 1.33E+08 | R | II | TCF7 | Body | shelf | Body-shelf | chr5:1334 | | | |
| cg14136214 | -0.21119 | 0.565157 | -5.35127 | 0.000807 | 0.00769 | -0.49322 | 0.670751 | 0.459563 | 0.211188 | 9 | 1.25E+08 | R | II | DAB2IP | 3'UTR | opensea | 3'UTR-open | rs1881845 | 19;16 | | |
| cg18145175 | -0.24597 | 0.521275 | -5.34965 | 0.000808 | 0.0077 | -0.49521 | 0.644257 | 0.398292 | 0.245965 | 4 | 76621238 | F | II | | IGR | opensea | IGR-opense | rs5691231 | 1 | | |
| cg13651908 | -0.21962 | 0.303141 | -5.34799 | 0.00081 | 0.00771 | -0.49725 | 0.412949 | 0.193333 | 0.219616 | 2 | 2.05E+08 | F | II | CD28 | TSS1500 | opensea | TSS1500-op | rs5774523 | 0;12;40 | | |
| cg13499923 | -0.29348 | 0.622657 | -5.34641 | 0.000811 | 0.007718 | -0.49921 | 0.769395 | 0.475919 | 0.293476 | 1 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | rs5683013 | 41 | | |
| cg20301308 | -0.2477 | 0.46825 | -5.34352 | 0.000814 | 0.007732 | -0.50277 | 0.592097 | 0.344402 | 0.247695 | 1 | 65534742 | R | II | | IGR | shore | IGR-shore | chr1:6553 | rs1921076 | 11 | | |
| cg00649330 | -0.24392 | 0.437983 | -5.34322 | 0.000814 | 0.007733 | -0.50314 | 0.559941 | 0.316026 | 0.243915 | 11 | 1.28E+08 | F | II | ETS1 | Body | opensea | Body-opens | | | | |
| cg21321167 | -0.25117 | 0.455103 | -5.34184 | 0.000815 | 0.00774 | -0.50485 | 0.580687 | 0.329518 | 0.251169 | 5 | 89686304 | F | II | | IGR | opensea | IGR-opense | rs5357834 | 0;9;43;46 | | |
| cg27208925 | -0.21458 | 0.573619 | -5.34178 | 0.000815 | 0.00774 | -0.50492 | 0.680908 | 0.46633 | 0.214578 | 16 | 85937106 | F | II | IRF8 | Body | opensea | Body-opens | rs1930300 | 35 | | |
| cg14512523 | -0.24885 | 0.668264 | -5.34128 | 0.000816 | 0.007743 | -0.50554 | 0.792688 | 0.54384 | 0.248849 | 11 | 17230914 | R | II | | IGR | shore | IGR-shore | chr11:172 | rs5518996 | 3 | | |
| cg05531737 | -0.22827 | 0.343288 | -5.3399 | 0.000817 | 0.00775 | -0.50724 | 0.457425 | 0.22915 | 0.228275 | 7 | 1094808 | F | I | GPR146 | 5'UTR | shelf | 5'UTR-shelf | chr7:1097 | rs3724899 | 1;10;11;18;19;29;32 | |
| cg03442914 | -0.26885 | 0.496915 | -5.3389 | 0.000818 | 0.007756 | -0.50848 | 0.631339 | 0.362491 | 0.268848 | 20 | 44994454 | R | II | SLC35C2 | TSS1500 | shore | TSS1500-sh | chr20:4495 | rs3758712 | 7 | |
| cg24536818 | -0.23263 | 0.278868 | -5.33455 | 0.000822 | 0.007781 | -0.51385 | 0.395184 | 0.162552 | 0.232632 | 12 | 55371892 | F | II | KIAA0748 | 5'UTR | opensea | 5'UTR-open | | rs1495607 | 0;1 | |
| cg01116137 | -0.22594 | 0.699267 | -5.33426 | 0.000823 | 0.007782 | -0.51421 | 0.812239 | 0.586295 | 0.225945 | 20 | 25034263 | F | II | ACSS1 | Body | shelf | Body-shelf | chr20:2505 | rs7390607 | 8;29;31 | |
| cg11269842 | -0.21102 | 0.475985 | -5.33365 | 0.000823 | 0.007786 | -0.51496 | 0.581493 | 0.370477 | 0.211016 | 6 | 24862223 | R | II | FAM65B | Body | opensea | Body-opens | rs1831544 | 20;2 | | |
| cg03853208 | -0.22925 | 0.480798 | -5.33277 | 0.000824 | 0.007791 | -0.51605 | 0.595422 | 0.366174 | 0.229248 | 7 | 25989763 | F | II | MIR148A | TSS200 | shore | TSS200-sho | chr7:2599 | rs1135741 | 36;45 | |
| cg21276413 | -0.20139 | 0.206969 | -5.33231 | 0.000824 | 0.007793 | -0.51661 | 0.307663 | 0.106275 | 0.201388 | 15 | 27112287 | R | I | GABRA5 | 1stExon | island | 1stExon-isl | chr15:271 | rs5761896 | 47;19 | |
| cg12467404 | -0.26155 | 0.688199 | -5.33161 | 0.000825 | 0.007797 | -0.51749 | 0.818974 | 0.557424 | 0.261549 | 1 | 2.07E+08 | R | II | CD55 | Body | shore | Body-shore | chr1:2074 | rs1123629 | 51;31;17 | |
| cg16193207 | -0.29588 | 0.39304 | -5.32772 | 0.000829 | 0.00782 | -0.52229 | 0.540982 | 0.245098 | 0.295884 | 8 | 23107961 | F | II | CHMP7 | Body | shelf | Body-shelf | chr8:2310 | rs1153730 | 38 | | |
| cg14751182 | -0.22932 | 0.362955 | -5.32424 | 0.000832 | 0.007839 | -0.52659 | 0.477615 | 0.248295 | 0.22932 | 22 | 41613712 | R | II | L3MBTL2 | Body | opensea | Body-opens | rs5719329 | 27;24;1 | | |
| cg18832142 | -0.25137 | 0.504787 | -5.32333 | 0.000833 | 0.007845 | -0.52772 | 0.630474 | 0.3791 | 0.251375 | 3 | 1.02E+08 | F | II | LOC15222 | TSS200 | opensea | TSS200-ope | rs1511578 | 0;1;14;23;24 | | |
| cg25431946 | -0.25807 | 0.671476 | -5.32243 | 0.000834 | 0.007849 | -0.52883 | 0.800509 | 0.542443 | 0.258066 | 4 | 40313893 | R | II | LOC10106 | Body | opensea | Body-opens | rs5279890 | 11 | | |
| cg06488150 | -0.28569 | 0.421461 | -5.32109 | 0.000835 | 0.007855 | -0.53048 | 0.564306 | 0.278615 | 0.285691 | 7 | 6476003 | F | II | DAGLB | Body | opensea | Body-opens | rs2009646 | 2;16;21;34 | | |
| cg04398282 | -0.26097 | 0.461976 | -5.31927 | 0.000837 | 0.007864 | -0.53274 | 0.592459 | 0.331493 | 0.260964 | 4 | 68424256 | F | II | STAP1 | TSS200 | opensea | TSS200-ope | | | | |
| cg26466508 | -0.21631 | 0.578943 | -5.31743 | 0.000839 | 0.007874 | -0.53502 | 0.6871 | 0.470786 | 0.216314 | 6 | 76203597 | R | II | FILIP1 | TSS200 | opensea | TSS200-ope | rs1475811 | 40;33;2;1 | | |
| cg11378686 | -0.20291 | 0.315943 | -5.31583 | 0.00084 | 0.007884 | -0.537 | 0.4174 | 0.214487 | 0.202913 | 6 | 43336278 | R | II | ZNF318 | Body | shore | Body-shore | chr6:4333 | rs1131074 | 42;30 | |
| cg14433165 | -0.298 | 0.670781 | -5.31306 | 0.000843 | 0.0079 | -0.54043 | 0.819781 | 0.521781 | 0.298 | 8 | 28911793 | R | II | | IGR | opensea | IGR-opense | rs5586872 | 2 | | |
| cg22052645 | -0.25844 | 0.425297 | -5.31298 | 0.000843 | 0.0079 | -0.54053 | 0.554515 | 0.29608 | 0.258435 | 2 | 85146702 | F | II | | IGR | opensea | IGR-opense | rs1391895 | 1;51 | | |
| cg24317086 | -0.20625 | 0.410687 | -5.31295 | 0.000843 | 0.007901 | -0.54057 | 0.513815 | 0.30756 | 0.206254 | 15 | 93423542 | F | II | | IGR | shelf | IGR-shelf | chr15:934 | rs1181060 | 0 | |
| cg10009497 | -0.24652 | 0.610422 | -5.31159 | 0.000844 | 0.007909 | -0.54225 | 0.73368 | 0.487165 | 0.246516 | 7 | 1095416 | R | II | C7orf50 | Body | shore | Body-shore | chr7:1097 | rs1253300 | 8 | |
| cg00947782 | -0.28438 | 0.30299 | -5.30953 | 0.000846 | 0.007919 | -0.54481 | 0.445178 | 0.160801 | 0.284376 | 6 | 30039142 | F | I | RNF39 | Body | island | Body-islan | chr6:3003 | | | |
| cg11033835 | -0.22485 | 0.24532 | -5.30807 | 0.000848 | 0.007926 | -0.54661 | 0.357746 | 0.132894 | 0.224852 | 3 | 77087860 | F | I | ROBO2 | TSS1500 | shore | TSS1500-sh | chr3:7708 | rs5517502 | 3;24 | |
| cg23213230 | -0.21595 | 0.384386 | -5.30607 | 0.00085 | 0.007938 | -0.54909 | 0.492363 | 0.276409 | 0.215954 | 13 | 50570091 | F | II | TRIM13 | TSS1500 | shore | TSS1500-sh | chr13:505 | rs1468697 | 1;6;19 | |
| cg07285386 | -0.2114 | 0.57828 | -5.306 | 0.00085 | 0.007938 | -0.54918 | 0.68398 | 0.47258 | 0.2114 | 3 | 1.19E+08 | F | II | B4GALT4 | 5'UTR | opensea | 5'UTR-open | rs5341841 | 0 | | |
| cg10407744 | -0.23115 | 0.634512 | -5.30276 | 0.000853 | 0.007958 | -0.55319 | 0.750086 | 0.518938 | 0.231148 | 9 | 97715349 | F | II | C9orf3 | Body | opensea | Body-opens | rs5440859 | 1 | | |
| cg02717454 | -0.2594 | 0.551912 | -5.30104 | 0.000855 | 0.007968 | -0.55533 | 0.681613 | 0.422212 | 0.259401 | 16 | 3928799 | F | II | CREBBP | Body | shore | Body-shore | chr16:392 | rs5442927 | 23 | |
| cg24096902 | -0.22875 | 0.421827 | -5.30085 | 0.000855 | 0.007969 | -0.55556 | 0.536201 | 0.307452 | 0.228749 | 1 | 27754893 | R | II | WASF2 | Body | opensea | Body-opens | rs5322844 | 40 | | |
| cg18115724 | -0.21973 | 0.655212 | -5.30052 | 0.000855 | 0.00797 | -0.55597 | 0.765076 | 0.545348 | 0.219728 | 2 | 88390376 | R | II | SMYD1 | Body | opensea | Body-opens | | | | |
| cg12097222 | -0.25704 | 0.24203 | -5.295 | 0.000861 | 0.008001 | -0.56282 | 0.37055 | 0.11351 | 0.257039 | 8 | 16885000 | R | I | EFHA2 | 1stExon | island | 1stExon-isl | chr8:1688 | rs5400761 | 23;13 | |
| cg09701062 | -0.22176 | 0.35653 | -5.29486 | 0.000861 | 0.008001 | -0.56299 | 0.467412 | 0.245648 | 0.221764 | 5 | 1.33E+08 | R | II | | IGR | shelf | IGR-shelf | chr5:1334 | rs244952;r | 48;1 | |
| cg05193538 | -0.23334 | 0.507927 | -5.29467 | 0.000861 | 0.008002 | -0.56323 | 0.624596 | 0.391257 | 0.233339 | 1 | 26097991 | R | II | MAN1C1 | Body | island | Body-islan | chr1:2609 | rs5772660 | 19;8 | |
| cg16533359 | -0.26323 | 0.417184 | -5.29326 | 0.000863 | 0.00801 | -0.56498 | 0.548801 | 0.285567 | 0.263234 | 6 | 11710597 | F | II | | IGR | opensea | IGR-opense | rs5671785 | 0;1;29 | | |
| cg07184013 | -0.20708 | 0.331352 | -5.2932 | 0.000863 | 0.00801 | -0.56506 | 0.434894 | 0.22781 | 0.207084 | 7 | 25989618 | R | II | MIR148A | TSS200 | shore | TSS200-sho | chr7:2599 | rs1856413 | 12;6 | |
| cg17801864 | -0.23078 | 0.58739 | -5.2928 | 0.000863 | 0.008013 | -0.56555 | 0.702778 | 0.472003 | 0.230775 | 20 | 45179345 | R | II | C20orf123 | TSS200 | opensea | TSS200-ope | rs5628499 | 11;10 | | |
| cg09341797 | -0.24502 | 0.515136 | -5.28912 | 0.000867 | 0.008033 | -0.57012 | 0.637647 | 0.392625 | 0.245022 | 14 | 62036609 | F | II | FLJ22447 | TSS1500 | opensea | TSS1500-op | rs5574028 | 1;14;36 | | |
| cg16108059 | -0.23004 | 0.431845 | -5.28746 | 0.000868 | 0.008042 | -0.57219 | 0.546866 | 0.316824 | 0.230042 | 14 | 81421989 | R | I | TSHR | 5'UTR | shore | 5'UTR-shor | chr14:8141 | rs2012527 | 26;8 | |
| cg24375364 | -0.26407 | 0.571018 | -5.28578 | 0.00087 | 0.008053 | -0.57428 | 0.703054 | 0.438983 | 0.264071 | 7 | 2755000 | R | II | AMZ1 | 3'UTR | shelf | 3'UTR-shelf | chr7:2758 | rs1434976 | 11;1 | |
| cg24727480 | -0.22076 | 0.392546 | -5.28499 | 0.000871 | 0.008058 | -0.57525 | 0.502926 | 0.282166 | 0.22076 | 12 | 1.1E+08 | R | II | KCTD10 | Body | opensea | Body-opens | rs1418104 | 38;2;1 | | |
| cg08594681 | -0.22889 | 0.605904 | -5.28242 | 0.000874 | 0.008075 | -0.57845 | 0.72035 | 0.491458 | 0.228893 | 8 | 27468684 | F | II | CLU | 1stExon | shelf | 1stExon-sh | chr8:2747 | | | |
| cg12984893 | -0.25227 | 0.464428 | -5.28229 | 0.000874 | 0.008075 | -0.57861 | 0.590563 | 0.338294 | 0.252269 | 10 | 1.34E+08 | F | II | INPP5A | Body | shelf | Body-shelf | chr10:134 | rs1810041 | 12 | |
| cg06493985 | -0.2808 | 0.540921 | -5.28225 | 0.000874 | 0.008076 | -0.57865 | 0.681322 | 0.40052 | 0.280802 | 5 | 1.4E+08 | R | II | PFDN1 | Body | opensea | Body-opens | rs1821626 | 2 | | |
| cg17547179 | -0.26338 | 0.658117 | -5.28181 | 0.000874 | 0.008078 | -0.57921 | 0.789808 | 0.526427 | 0.263381 | 7 | 45068955 | F | II | CCM2 | Body | opensea | Body-opens | rs7618350 | 19 | | |
| cg02497700 | -0.23093 | 0.269513 | -5.28038 | 0.000876 | 0.008085 | -0.58099 | 0.384979 | 0.154048 | 0.230931 | 1 | 2.44E+08 | R | II | ZNF238 | TSS1500 | shore | TSS1500-sh | chr1:2442 | rs5691174 | 1 | |
| cg08860070 | -0.22389 | 0.287467 | -5.27742 | 0.000879 | 0.008103 | -0.58467 | 0.399415 | 0.17552 | 0.223895 | 5 | 1.41E+08 | R | I | | IGR | shore | IGR-shore | chr5:1408 | rs5332650 | 47;15 | |
| cg21208682 | -0.20187 | 0.29843 | -5.274 | 0.000882 | 0.008121 | -0.58892 | 0.399363 | 0.197497 | 0.201867 | 8 | 1.42E+08 | F | II | EIF2C2 | Body | opensea | Body-opens | rs7558277 | 11 | | |
| cg03105774 | -0.22879 | 0.268992 | -5.26968 | 0.000887 | 0.008145 | -0.59429 | 0.383387 | 0.154597 | 0.22879 | 7 | 1.17E+08 | F | II | ST7 | Body | opensea | Body-opens | rs3716295 | 10;40 | | |
| cg16587616 | -0.20365 | 0.251429 | -5.26868 | 0.000888 | 0.008151 | -0.59554 | 0.353256 | 0.149602 | 0.203654 | 6 | 62996022 | F | I | KHDRBS2 | 1stExon | island | 1stExon-isl | chr6:6299 | rs5445280 | 26;31 | |
| cg08903858 | -0.27785 | 0.342672 | -5.26858 | 0.000888 | 0.008151 | -0.59566 | 0.481599 | 0.203745 | 0.277853 | 15 | 81595183 | R | II | IL16 | Body | opensea | Body-opens | rs1154742 | 19;13 | | |
| cg09358400 | -0.20914 | 0.373515 | -5.26657 | 0.00089 | 0.008163 | -0.59817 | 0.478083 | 0.268947 | 0.209136 | 15 | 89179232 | R | II | ISG20 | 5'UTR | opensea | 5'UTR-open | rs1142684 | 35;1 | | |
| cg22143698 | -0.25277 | 0.534295 | -5.26386 | 0.000893 | 0.008182 | -0.60154 | 0.66068 | 0.407909 | 0.252771 | 5 | 10608058 | R | II | ANKRD33B | Body | opensea | Body-opens | rs5358843 | 47;18 | | |
| cg11080540 | -0.23361 | 0.507756 | -5.26118 | 0.000895 | 0.008198 | -0.60488 | 0.624561 | 0.390951 | 0.23361 | 5 | 54897272 | R | II | | IGR | opensea | IGR-opense | | | | |
| cg10037049 | -0.20017 | 0.286865 | -5.25674 | 0.0009 | 0.008225 | -0.61041 | 0.386951 | 0.186778 | 0.200172 | 12 | 48276633 | F | II | VDR | 5'UTR | opensea | 5'UTR-open | rs5770566 | 1;43 | | |
| cg01394102 | -0.21647 | 0.365896 | -5.25477 | 0.000902 | 0.008236 | -0.61287 | 0.474131 | 0.257661 | 0.216471 | 4 | 2174605 | F | II | POLN | Body | opensea | Body-opens | rs1381673 | 0;1;12;44 | | |
| cg22668906 | -0.25084 | 0.613562 | -5.25473 | 0.000902 | 0.008237 | -0.61292 | 0.73898 | 0.488143 | 0.250837 | 11 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | rs5641782 | 16;36;48 | | |
| cg23603036 | -0.20632 | 0.515829 | -5.25109 | 0.000906 | 0.008257 | -0.61746 | 0.618988 | 0.41267 | 0.206318 | 1 | 12675777 | R | II | DHRS3 | Body | shore | Body-shore | chr1:1267 | rs3010915 | 43;2 | |
| cg16831926 | -0.26821 | 0.551554 | -5.2508 | 0.000906 | 0.008259 | -0.61782 | 0.685658 | 0.417449 | 0.268208 | 4 | 1.09E+08 | F | II | LEF1 | Body | opensea | Body-opens | rs1878509 | 0;1;28 | | |
| cg13719885 | -0.24984 | 0.390608 | -5.25014 | 0.000907 | 0.008262 | -0.61865 | 0.515528 | 0.265689 | 0.249838 | 3 | 1.28E+08 | R | II | | IGR | island | IGR-island | chr3:1277 | | | |
| cg06279296 | -0.23578 | 0.400142 | -5.24949 | 0.000908 | 0.008266 | -0.61946 | 0.518033 | 0.282251 | 0.235782 | 10 | 601816 | F | II | DIP2C | Body | opensea | Body-opens | rs5692921 | 0;16;18;44;45;48 | | |
| cg03097013 | -0.20579 | 0.351771 | -5.24933 | 0.000908 | 0.008267 | -0.61966 | 0.454667 | 0.248875 | 0.205792 | 20 | 60642264 | F | II | TAF4 | TSS1500 | shore | TSS1500-sh | chr20:6060 | rs5596625 | 29;29;44 | |
| cg21771805 | -0.24916 | 0.353516 | -5.24876 | 0.000908 | 0.008271 | -0.62036 | 0.478096 | 0.228936 | 0.24916 | 7 | 1.5E+08 | F | II | GIMAP1 | TSS1500 | opensea | TSS1500-op | rs5595969 | 37;49 | | |
| cg19694519 | -0.23614 | 0.42692 | -5.24788 | 0.000909 | 0.008276 | -0.62147 | 0.544989 | 0.308851 | 0.236139 | 8 | 22389206 | F | II | PPP3CC | Body | opensea | Body-opens | rs5746870 | 1 | | |
| cg12943967 | -0.23234 | 0.527631 | -5.24759 | 0.00091 | 0.008277 | -0.62183 | 0.643803 | 0.41146 | 0.232344 | 1 | 31501266 | R | II | PUM1 | Body | opensea | Body-opens | rs5773333 | 1 | | |
| cg01543767 | -0.21293 | 0.436033 | -5.24505 | 0.000912 | 0.008294 | -0.625 | 0.5425 | 0.329567 | 0.212933 | 4 | 1.1E+08 | F | II | RPL34 | TSS1500 | opensea | TSS1500-op | rs5502116 | 0;1;32;35 | | |
| cg20981615 | -0.23765 | 0.249385 | -5.24364 | 0.000914 | 0.008303 | -0.62675 | 0.368209 | 0.13056 | 0.237649 | 4 | 48136280 | R | II | TXK | TSS200 | opensea | TSS200-ope | | | | |
| cg04851848 | -0.23611 | 0.454144 | -5.24193 | 0.000916 | 0.008314 | -0.6289 | 0.5722 | 0.336089 | 0.236112 | 5 | 16616019 | F | II | LOC10192 | TSS200 | shore | TSS200-sho | chr5:1661 | rs5308900 | 23;25;34 | |
| cg20661080 | -0.23814 | 0.317176 | -5.24158 | 0.000916 | 0.008316 | -0.62933 | 0.436245 | 0.198106 | 0.238138 | 5 | 1.8E+08 | F | II | | IGR | opensea | IGR-opense | rs5669942 | 1;18 | | |
| cg01557792 | -0.21237 | 0.455055 | -5.23689 | 0.000921 | 0.008345 | -0.63519 | 0.561242 | 0.348868 | 0.212374 | 14 | 70162755 | F | II | KIAA0247 | Body | opensea | Body-opens | | | | |
| cg15694715 | -0.25034 | 0.46629 | -5.23236 | 0.000926 | 0.008374 | -0.64085 | 0.591458 | 0.341122 | 0.250337 | 11 | 1.18E+08 | R | II | TMEM25 | 5'UTR | shore | 5'UTR-shor | chr11:118 | | | |
| cg07775309 | -0.22327 | 0.255185 | -5.23201 | 0.000926 | 0.008376 | -0.64129 | 0.366817 | 0.143552 | 0.223266 | 3 | 12595852 | F | II | | IGR | shelf | IGR-shelf | chr3:1259 | rs5402886 | 26 | |
| cg13518824 | -0.24658 | 0.571839 | -5.22974 | 0.000929 | 0.008389 | -0.64413 | 0.695129 | 0.44855 | 0.246579 | 1 | 8523537 | F | II | RERE | Body | opensea | Body-opens | rs7404964 | 14 | | |
| cg09473510 | -0.20499 | 0.257468 | -5.22939 | 0.000929 | 0.008391 | -0.64456 | 0.359961 | 0.154975 | 0.204986 | 4 | 1.87E+08 | F | I | MTNR1A | TSS200 | island | TSS200-isla | chr4:1874 | rs5363418 | 33 | |
| cg06154060 | -0.22295 | 0.351015 | -5.22899 | 0.00093 | 0.008393 | -0.64506 | 0.462488 | 0.239541 | 0.222947 | 10 | 98347412 | R | II | TM9SF3 | TSS1500 | shore | TSS1500-sh | chr10:983 | rs1391360 | 13 | |
| cg24104567 | -0.2045 | 0.337644 | -5.22873 | 0.00093 | 0.008394 | -0.64539 | 0.439895 | 0.235394 | 0.204502 | 17 | 40932508 | R | I | WNK4 | TSS200 | island | TSS200-isla | chr17:409 | rs5388144 | 37;3 | |
| cg23723835 | -0.25438 | 0.333727 | -5.22841 | 0.00093 | 0.008396 | -0.64579 | 0.460919 | 0.206535 | 0.254384 | 10 | 73869442 | F | II | ASCC1 | Body | opensea | Body-opens | | | | |
| cg26534477 | -0.23348 | 0.660681 | -5.22818 | 0.000931 | 0.008398 | -0.64608 | 0.777423 | 0.543939 | 0.233484 | 17 | 42147600 | F | II | G6PC3 | TSS1500 | shore | TSS1500-sh | chr17:421 | | | |
| cg11809038 | -0.24317 | 0.514005 | -5.22811 | 0.000931 | 0.008398 | -0.64616 | 0.635588 | 0.392421 | 0.243167 | 13 | 21276845 | R | II | IL17D | TSS1500 | shore | TSS1500-sh | chr13:212 | rs5600841 | 38;32;12 | |
| cg19711297 | -0.24742 | 0.426273 | -5.22758 | 0.000931 | 0.0084 | -0.64683 | 0.549983 | 0.302564 | 0.24742 | 10 | 98347867 | F | II | TM9SF3 | TSS1500 | shore | TSS1500-sh | chr10:983 | rs5575056 | 1 | |
| cg19956136 | -0.27639 | 0.540289 | -5.22058 | 0.000939 | 0.00844 | -0.6556 | 0.678486 | 0.402093 | 0.276392 | 14 | 93120784 | R | II | RIN3 | Body | opensea | Body-opens | rs5392867 | 19 | | |
| cg02508461 | -0.24953 | 0.453264 | -5.22039 | 0.000939 | 0.008441 | -0.65583 | 0.578032 | 0.328497 | 0.249535 | 1 | 2.35E+08 | F | II | | IGR | opensea | IGR-opense | rs5750042 | 6;15;18 | | |
| cg20405891 | -0.2045 | 0.448219 | -5.21433 | 0.000946 | 0.008478 | -0.66342 | 0.550467 | 0.345972 | 0.204495 | 11 | 1.34E+08 | F | I | LOC28317 | Body | opensea | Body-opens | rs1404208 | 1;8;41 | | |
| cg08301869 | -0.21968 | 0.442749 | -5.21011 | 0.000951 | 0.008505 | -0.6687 | 0.552588 | 0.33291 | 0.219677 | 4 | 6928241 | R | II | TBC1D14 | Body | shelf | Body-shelf | chr4:6925 | | | |
| cg02495208 | -0.21663 | 0.516758 | -5.20983 | 0.000951 | 0.008506 | -0.66905 | 0.625073 | 0.408443 | 0.21663 | 22 | 40341430 | R | II | GRAP2 | TSS1500 | opensea | TSS1500-op | rs5370524 | 38;32;2 | | |
| cg22054362 | -0.22531 | 0.257955 | -5.2075 | 0.000953 | 0.008522 | -0.67198 | 0.370609 | 0.145301 | 0.225308 | 19 | 57050367 | R | I | ZFP28 | 1stExon | island | 1stExon-isl | chr19:570 | rs5437945 | 44;30;9 | |
| cg09400963 | -0.228 | 0.495464 | -5.20716 | 0.000954 | 0.008524 | -0.6724 | 0.609462 | 0.381465 | 0.227997 | 7 | 32555839 | F | II | AVL9 | Body | opensea | Body-opens | rs7893608 | 39 | | |
| cg12623536 | -0.23667 | 0.33037 | -5.20692 | 0.000954 | 0.008525 | -0.67271 | 0.448706 | 0.212034 | 0.236672 | 10 | 73848817 | R | II | SPOCK2 | TSS200 | shore | TSS200-sho | chr10:738 | rs5761333 | 37 | |
| cg05503210 | -0.21342 | 0.320861 | -5.20478 | 0.000956 | 0.00854 | -0.67539 | 0.427572 | 0.214149 | 0.213423 | 16 | 56973760 | R | II | HERPUD1 | Body | opensea | Body-opens | rs5501837 | 18;15;2;1 | | |
| cg09907509 | -0.23282 | 0.440355 | -5.2045 | 0.000957 | 0.008541 | -0.67574 | 0.556767 | 0.323944 | 0.232823 | 13 | 37248244 | F | I | C13orf36 | 5'UTR | island | 5'UTR-islan | chr13:372 | | | |
| cg00384221 | -0.20688 | 0.49455 | -5.20378 | 0.000958 | 0.008546 | -0.67664 | 0.597992 | 0.391108 | 0.206884 | 6 | 52859375 | R | II | GSTA4 | 5'UTR | shore | 5'UTR-shor | chr6:5285 | rs5499899 | 40 | |
| cg09082287 | -0.21393 | 0.408454 | -5.20209 | 0.00096 | 0.008556 | -0.67877 | 0.515418 | 0.301489 | 0.213929 | 1 | 65730494 | R | II | DNAJC6 | 5'UTR | shore | 5'UTR-shor | chr1:6573 | | | |
| cg18932726 | -0.2061 | 0.245462 | -5.20186 | 0.00096 | 0.008558 | -0.67905 | 0.34851 | 0.142413 | 0.206096 | 10 | 1.29E+08 | R | I | DOCK1 | Body | island | Body-islan | chr10:128 | rs5353975 | 51 | |
| cg11546475 | -0.25406 | 0.35847 | -5.19964 | 0.000962 | 0.00857 | -0.68184 | 0.485501 | 0.231439 | 0.254063 | 7 | 5733188 | F | II | RNF216 | Body | opensea | Body-opens | | | | |
| cg01510609 | -0.23421 | 0.261474 | -5.1986 | 0.000963 | 0.008577 | -0.68314 | 0.378579 | 0.144368 | 0.234211 | 2 | 3751134 | F | I | DCDC2C | TSS200 | island | TSS200-isla | chr2:3750 | rs5370730 | 41;41 | |
| cg18096987 | -0.23946 | 0.612863 | -5.19704 | 0.000965 | 0.008588 | -0.6851 | 0.732594 | 0.493132 | 0.239462 | 3 | 11623873 | R | II | VGLL4 | Body | opensea | Body-opens | rs5475545 | 29;6;2 | | |
| cg10588617 | -0.20353 | 0.288771 | -5.1969 | 0.000965 | 0.008589 | -0.68528 | 0.390538 | 0.187004 | 0.203534 | 2 | 43027940 | F | II | | IGR | opensea | IGR-opense | rs3728560 | 14;20 | | |
| cg26415504 | -0.21923 | 0.519702 | -5.19638 | 0.000966 | 0.008592 | -0.68592 | 0.629316 | 0.410089 | 0.219227 | 21 | 46344680 | F | II | ITGB2-AS1 | Body | opensea | Body-opens | rs5394812 | 0;8;48 | | |
| cg07322611 | -0.26613 | 0.326764 | -5.19405 | 0.000969 | 0.008606 | -0.68885 | 0.459829 | 0.193699 | 0.26613 | 3 | 71503426 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | rs1045195 | 49;9 | | |
| cg11921583 | -0.22611 | 0.439656 | -5.19343 | 0.000969 | 0.008609 | -0.68963 | 0.552712 | 0.326599 | 0.226113 | 2 | 1.44E+08 | R | II | ARHGAP15 | 5'UTR | opensea | 5'UTR-open | rs1813954 | 47;42 | | |
| cg03348466 | -0.20869 | 0.62999 | -5.19304 | 0.00097 | 0.008612 | -0.69012 | 0.734336 | 0.525644 | 0.208691 | 15 | 91104770 | F | II | CRTC3 | Body | opensea | Body-opens | rs5350502 | 29;43 | | |
| cg04661346 | -0.23921 | 0.574874 | -5.19264 | 0.00097 | 0.008614 | -0.69063 | 0.694479 | 0.455269 | 0.23921 | 12 | 27676221 | R | II | PPFIBP1 | TSS1500 | opensea | TSS1500-op | rs5552136 | 35;20;5 | | |
| cg06760077 | -0.21265 | 0.504669 | -5.18468 | 0.000979 | 0.008665 | -0.70063 | 0.610995 | 0.398343 | 0.212652 | 2 | 1.19E+08 | F | II | | IGR | opensea | IGR-opense | rs5765211 | 32 | | |
| cg16248329 | -0.25081 | 0.280301 | -5.18237 | 0.000982 | 0.008679 | -0.70353 | 0.405709 | 0.154894 | 0.250815 | 4 | 1.88E+08 | F | I | FAT1 | 5'UTR | island | 5'UTR-islan | chr4:1876 | rs1887875 | 20;36 | |
| cg09956615 | -0.20143 | 0.346693 | -5.18177 | 0.000983 | 0.008682 | -0.70428 | 0.447407 | 0.24598 | 0.201427 | 7 | 2672989 | R | II | TTYH3 | Body | shore | Body-shore | chr7:2671 | rs5684666 | 51;46;22;19 | |
| cg10441199 | -0.24072 | 0.450587 | -5.18149 | 0.000983 | 0.008684 | -0.70464 | 0.570947 | 0.330228 | 0.240719 | 11 | 12155992 | R | II | MICAL2 | 5'UTR | opensea | 5'UTR-open | rs9651616 | 13 | | |
| cg01216438 | -0.21045 | 0.221563 | -5.1803 | 0.000984 | 0.008691 | -0.70614 | 0.326787 | 0.11634 | 0.210447 | 15 | 77376235 | F | I | | IGR | opensea | IGR-opense | rs5275803 | 0;30 | | |
| cg11654900 | -0.2001 | 0.55138 | -5.17906 | 0.000986 | 0.008699 | -0.7077 | 0.65143 | 0.451329 | 0.2001 | 1 | 51444685 | R | II | | IGR | shore | IGR-shore | chr1:5144 | rs1491134 | 21 | |
| cg12111855 | -0.25665 | 0.563251 | -5.17683 | 0.000988 | 0.008714 | -0.71051 | 0.691576 | 0.434926 | 0.25665 | 1 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | rs1500133 | 2 | | |
| cg10233311 | -0.23387 | 0.467953 | -5.1753 | 0.00099 | 0.008724 | -0.71243 | 0.584888 | 0.351017 | 0.233871 | 3 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg08654091 | -0.22709 | 0.477246 | -5.17529 | 0.00099 | 0.008724 | -0.71244 | 0.590793 | 0.363699 | 0.227094 | 1 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | rs1912013 | 3 | | |
| cg07483000 | -0.23121 | 0.521325 | -5.17411 | 0.000992 | 0.008731 | -0.71392 | 0.63693 | 0.40572 | 0.23121 | 15 | 1E+08 | F | II | | IGR | opensea | IGR-opense | rs5632597 | 0;1;47 | | |
| cg08730282 | -0.28569 | 0.637443 | -5.17373 | 0.000992 | 0.008734 | -0.71441 | 0.780285 | 0.4946 | 0.285685 | 2 | 96922414 | F | II | TMEM127 | Body | opensea | Body-opens | rs5537026 | 17 | | |
| cg20319945 | -0.21539 | 0.479478 | -5.17183 | 0.000994 | 0.008745 | -0.71679 | 0.587175 | 0.371782 | 0.215393 | 12 | 1.33E+08 | F | II | GOLGA3 | Body | opensea | Body-opens | rs1176421 | 5;34 | | |
| cg05634779 | -0.27162 | 0.518956 | -5.16919 | 0.000997 | 0.008762 | -0.72012 | 0.654764 | 0.383148 | 0.271617 | 10 | 1.16E+08 | R | II | ABLIM1 | 5'UTR | opensea | 5'UTR-open | rs5744907 | 24 | | |
| cg21887193 | -0.21476 | 0.686657 | -5.16877 | 0.000998 | 0.008764 | -0.72065 | 0.794038 | 0.579275 | 0.214764 | 7 | 1.51E+08 | F | I | AGAP3 | Body | shore | Body-shore | chr7:1507( | rs5286998 | 1;15;16 | |
| cg26760942 | -0.23436 | 0.460877 | -5.16695 | 0.001 | 0.008775 | -0.72295 | 0.578059 | 0.343694 | 0.234364 | 10 | 1.16E+08 | R | II | ABLIM1 | 5'UTR | opensea | 5'UTR-open | rs1890148 | 51 | | |
| cg14695332 | -0.22047 | 0.590854 | -5.16448 | 0.001003 | 0.00879 | -0.72605 | 0.701086 | 0.480621 | 0.220465 | 1 | 2.27E+08 | R | II | ITPKB | Body | opensea | Body-opens | rs1133414 | 0;37;49 | | |
| cg02710015 | -0.28152 | 0.440327 | -5.16262 | 0.001005 | 0.008803 | -0.7284 | 0.581087 | 0.299568 | 0.281518 | 12 | 55362424 | R | II | KIAA0748 | Body | opensea | Body-opens | rs1154614 | 10 | | |
| cg01818341 | -0.26375 | 0.612657 | -5.15999 | 0.001008 | 0.008819 | -0.73171 | 0.744533 | 0.480781 | 0.263753 | 15 | 67440222 | R | II | SMAD3 | 5'UTR | opensea | 5'UTR-open | rs5664778 | 10 | | |
| cg15286847 | -0.20742 | 0.318087 | -5.1594 | 0.001009 | 0.008823 | -0.73246 | 0.421797 | 0.214377 | 0.207419 | 16 | 84690433 | R | II | KLHL36 | Body | island | Body-islanc | chr16:8465 | rs1476559 | 30 | | |
| cg22395761 | -0.20942 | 0.208201 | -5.15435 | 0.001015 | 0.008856 | -0.73883 | 0.312913 | 0.103489 | 0.209424 | 12 | 6553937 | R | II | CD27 | TSS200 | opensea | TSS200-ope | | | | | |
| cg12726213 | -0.22067 | 0.427165 | -5.15296 | 0.001017 | 0.008866 | -0.74058 | 0.537502 | 0.316828 | 0.220673 | 8 | 87368021 | R | II | WWP1 | 5'UTR | opensea | 5'UTR-open | rs5413682 | 38;2;0 | | |
| cg26707718 | -0.20809 | 0.438386 | -5.15071 | 0.001019 | 0.008878 | -0.74342 | 0.542429 | 0.334343 | 0.208086 | 13 | 41064482 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg10749994 | -0.32557 | 0.470738 | -5.14329 | 0.001028 | 0.008927 | -0.75279 | 0.633523 | 0.307953 | 0.32557 | 2 | 25474327 | F | I | DNMT3A | Body | shore | Body-shore | chr2:2254 | rs934780; | r 7;17 | | |
| cg06151145 | -0.25729 | 0.549616 | -5.14241 | 0.001029 | 0.008932 | -0.75391 | 0.678263 | 0.42097 | 0.257293 | 4 | 48346434 | F | II | SLAIN2 | Body | shelf | Body-shelf | chr4:4834 | rs5590993 | 24;36 | | |
| cg12582959 | -0.23484 | 0.555457 | -5.14182 | 0.00103 | 0.008936 | -0.75465 | 0.672875 | 0.438039 | 0.234836 | 19 | 56159199 | R | II | CCDC106 | 5'UTR | shore | 5'UTR-shor | chr19:561 | rs5330639 | 45;40;10 | | |
| cg13460643 | -0.27272 | 0.30012 | -5.14174 | 0.00103 | 0.008936 | -0.75475 | 0.436482 | 0.163759 | 0.272723 | 1 | 2.1E+08 | F | I | G0S2 | 1stExon | island | 1stExon-isl | chr1:2098 | rs1154271 | 8;17 | | |
| cg04179740 | -0.22914 | 0.316432 | -5.13867 | 0.001034 | 0.008956 | -0.75863 | 0.431004 | 0.20186 | 0.229145 | 10 | 73516760 | R | II | CDH23 | Body | opensea | Body-opens | rs5518048 | 36;1 | | |
| cg02075820 | -0.24099 | 0.495716 | -5.13442 | 0.001039 | 0.008983 | -0.764 | 0.616212 | 0.375219 | 0.240993 | 11 | 17300909 | R | II | NUCB2 | 5'UTR | shelf | 5'UTR-shelf | chr11:1725 | rs5490615 | 51;16;2;1 | | |
| cg22165175 | -0.2495 | 0.452399 | -5.13031 | 0.001044 | 0.009009 | -0.7692 | 0.577149 | 0.327648 | 0.249501 | 1 | 1.11E+08 | R | II | KCNA2 | TSS1500 | shore | TSS1500-sh | chr1:1111 | rs5466940 | 27;25;14;2 | | |
| cg01492465 | -0.20665 | 0.335363 | -5.12988 | 0.001045 | 0.009013 | -0.76974 | 0.438689 | 0.232037 | 0.206652 | 5 | 1.11E+08 | R | II | CAMK4 | Body | opensea | Body-opens | rs1879809 | 4;2 | | |
| cg19987210 | -0.20025 | 0.279654 | -5.12466 | 0.001051 | 0.009044 | -0.77635 | 0.379781 | 0.179527 | 0.200254 | 12 | 63544752 | F | I | AVPR1A | 1stExon | island | 1stExon-isl | chr12:635 | rs5762566 | 28 | | |
| cg07385778 | -0.21913 | 0.567769 | -5.12277 | 0.001054 | 0.009054 | -0.77875 | 0.677332 | 0.458205 | 0.219127 | 3 | 72320634 | F | II | | IGR | opensea | IGR-opense | rs1437369 | 1 | | |
| cg02391509 | -0.21886 | 0.429844 | -5.12122 | 0.001056 | 0.009066 | -0.78071 | 0.539276 | 0.320412 | 0.218864 | 3 | 27766382 | F | II | | IGR | shore | IGR-shore | chr3:2776 | rs5648820 | 10 | |
| cg03738444 | -0.23448 | 0.460221 | -5.11885 | 0.001059 | 0.00908 | -0.78371 | 0.577458 | 0.342983 | 0.234475 | 4 | 1.03E+08 | R | II | NFKB1 | Body | opensea | Body-opens | rs1394043 | 30;24;12 | | |
| cg09757087 | -0.21206 | 0.225882 | -5.11786 | 0.00106 | 0.009087 | -0.78496 | 0.331912 | 0.119851 | 0.212061 | 16 | 1585644 | F | II | IFT140 | Body | shore | Body-shore | chr16:158 | rs1414607 | 6 | | |
| cg08483099 | -0.23498 | 0.424871 | -5.1172 | 0.001061 | 0.009092 | -0.7858 | 0.542361 | 0.307382 | 0.23498 | 1 | 2.4E+08 | R | II | CHRM3-AS2 | Body | opensea | Body-opens | rs5662699 | 21;20;16 | | |
| cg08641990 | -0.26075 | 0.416958 | -5.11564 | 0.001063 | 0.009102 | -0.78777 | 0.547332 | 0.286585 | 0.260747 | 1 | 54822503 | F | II | SSBP3 | Body | shore | Body-shore | chr1:5482 | | | | |
| cg00462170 | -0.26626 | 0.502618 | -5.11547 | 0.001063 | 0.009103 | -0.78799 | 0.63575 | 0.369486 | 0.266264 | 11 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | | | |
| cg03205581 | -0.21038 | 0.608119 | -5.11364 | 0.001065 | 0.009115 | -0.79031 | 0.713309 | 0.50293 | 0.210379 | 14 | 99671848 | F | II | BCL11B | Body | opensea | Body-opens | rs1868856 | 1 | | | |
| cg24223075 | -0.2196 | 0.341026 | -5.11285 | 0.001066 | 0.00912 | -0.79131 | 0.450824 | 0.231228 | 0.219596 | 11 | 1.19E+08 | F | II | CBL | Body | opensea | Body-opens | rs5697372 | 1;5;38 | | |
| cg14785958 | -0.22111 | 0.53847 | -5.1127 | 0.001066 | 0.009121 | -0.7915 | 0.649028 | 0.427913 | 0.221114 | 2 | 1.72E+08 | R | II | TLK1 | Body | opensea | Body-opens | rs5391045 | 2 | | |
| cg06701914 | -0.24385 | 0.340895 | -5.11077 | 0.001069 | 0.009134 | -0.79395 | 0.462818 | 0.218972 | 0.243847 | 18 | 74571505 | R | II | ZNF236 | Body | opensea | Body-opens | rs1908043 | 47;8;2 | | |
| cg20763338 | -0.22025 | 0.467509 | -5.10956 | 0.00107 | 0.009142 | -0.79549 | 0.577632 | 0.357385 | 0.220247 | 3 | 15246594 | R | II | CAPN7 | TSS1500 | shore | TSS1500-sh | chr3:1524 | rs1814085 | 38;34;21;14;9 | | |
| cg22620221 | -0.22375 | 0.352153 | -5.10773 | 0.001073 | 0.009156 | -0.79781 | 0.464029 | 0.240278 | 0.223751 | 7 | 1.54E+08 | F | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5501179 | 5;6;51 | | |
| cg26349275 | -0.22264 | 0.417136 | -5.1047 | 0.001076 | 0.009176 | -0.80165 | 0.528454 | 0.305818 | 0.222636 | 9 | 21990277 | F | II | CDKN2A | Body | shore | Body-shore | chr9:2198 | rs1844325 | 40;46 | | |
| cg15302376 | -0.24344 | 0.492356 | -5.10445 | 0.001077 | 0.009177 | -0.80197 | 0.614078 | 0.370634 | 0.243444 | 2 | 25560263 | R | II | DNMT3A | 5'UTR | shelf | 5'UTR-shelf | chr2:2556 | rs5470844 | 51 | | |
| cg23712018 | -0.22463 | 0.265439 | -5.10027 | 0.001082 | 0.009208 | -0.80727 | 0.377752 | 0.153127 | 0.224625 | 6 | 30039132 | F | I | RNF39 | Body | island | Body-islanc | chr6:3003 | rs9261293 | 6 | | |
| cg23708361 | -0.25214 | 0.36732 | -5.09879 | 0.001084 | 0.009218 | -0.80915 | 0.49339 | 0.24125 | 0.25214 | 7 | 1.46E+08 | F | II | CNTNAP2 | TSS200 | island | TSS200-isla | chr7:1458 | rs5280428 | 5 | | |
| cg21202462 | -0.26265 | 0.539621 | -5.09813 | 0.001085 | 0.009223 | -0.80999 | 0.670944 | 0.408297 | 0.262647 | 5 | 80830416 | F | II | SSBP2 | Body | opensea | Body-opens | | | | | |
| cg16412973 | -0.24552 | 0.646138 | -5.09806 | 0.001085 | 0.009223 | -0.81009 | 0.768896 | 0.52338 | 0.245516 | 9 | 1.31E+08 | R | II | FAM102A | Body | opensea | Body-opens | rs1460215 | 22 | | |
| cg25595254 | -0.22851 | 0.31075 | -5.09772 | 0.001085 | 0.009226 | -0.81051 | 0.425005 | 0.196495 | 0.22851 | 3 | 1.56E+08 | F | II | | IGR | opensea | IGR-opense | rs5699598 | 1;8;15;19;48 | | |
| cg25570278 | -0.25339 | 0.35326 | -5.09767 | 0.001086 | 0.009226 | -0.81058 | 0.479955 | 0.226565 | 0.25339 | 14 | 23306509 | F | I | MMP14 | Body | island | Body-islanc | chr14:233 | rs1814005 | 36;37 | | |
| cg11094543 | -0.23779 | 0.264862 | -5.09751 | 0.001086 | 0.009226 | -0.81078 | 0.383755 | 0.145968 | 0.237787 | 2 | 2.42E+08 | F | II | HDLBP | 5'UTR | opensea | 5'UTR-open | rs1126876 | 4;24 | | |
| cg25661571 | -0.20429 | 0.674426 | -5.09429 | 0.00109 | 0.009248 | -0.81487 | 0.776569 | 0.572283 | 0.204286 | 17 | 63543769 | F | II | AXIN2 | Body | opensea | Body-opens | rs5646069 | 7;14 | | |
| cg04877165 | -0.21743 | 0.474664 | -5.09368 | 0.001091 | 0.009251 | -0.81564 | 0.583378 | 0.365951 | 0.217427 | 2 | 1.74E+08 | R | II | ZAK | Body | opensea | Body-opens | | | | |
| cg07772781 | -0.26662 | 0.577298 | -5.09268 | 0.001092 | 0.009259 | -0.81691 | 0.71061 | 0.443987 | 0.266622 | 3 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg01245856 | -0.25524 | 0.555643 | -5.0914 | 0.001094 | 0.009268 | -0.81854 | 0.683261 | 0.428025 | 0.255236 | 6 | 90894791 | F | II | BACH2 | 5'UTR | opensea | 5'UTR-open | rs5469890 | 1;9;40;49 | | |
| cg02588451 | -0.22487 | 0.596829 | -5.08796 | 0.001098 | 0.009291 | -0.82291 | 0.709262 | 0.484396 | 0.224867 | 1 | 2.27E+08 | F | II | ITPKB-IT1 | Body | opensea | Body-opens | | | | | |
| cg21146508 | -0.20166 | 0.65408 | -5.08656 | 0.0011 | 0.009302 | -0.82469 | 0.754909 | 0.553251 | 0.201658 | 6 | 1.51E+08 | F | II | PLEKHG1 | 5'UTR | opensea | 5'UTR-open | rs7300218 | 16;39 | | |
| cg04057147 | -0.24099 | 0.377929 | -5.08366 | 0.001104 | 0.009322 | -0.82838 | 0.498426 | 0.257432 | 0.240994 | 5 | 79487759 | F | II | SERINC5 | Body | opensea | Body-opens | | | | | |
| cg15934804 | -0.2034 | 0.297153 | -5.08242 | 0.001105 | 0.00933 | -0.82996 | 0.398852 | 0.195455 | 0.203396 | 7 | 2672400 | R | II | TTYH3 | Body | shore | Body-shore | chr7:2671 | rs5350397 | 43;25 | | |
| cg10240150 | -0.21651 | 0.25764 | -5.08061 | 0.001108 | 0.009344 | -0.83227 | 0.365893 | 0.149387 | 0.216506 | 2 | 2.05E+08 | F | II | CD28 | TSS1500 | opensea | TSS1500-op | rs1837972 | 6;25 | | |
| cg12113316 | -0.21348 | 0.376045 | -5.07482 | 0.001115 | 0.009384 | -0.83963 | 0.482785 | 0.269304 | 0.213481 | 8 | 37729089 | R | II | RAB11FIP1 | Body | opensea | Body-opens | rs2004810 | 45;26;25;19;3;1 | | | |
| cg15109018 | -0.24857 | 0.323496 | -5.07458 | 0.001116 | 0.009386 | -0.83994 | 0.447779 | 0.199213 | 0.248566 | 12 | 85862615 | R | II | | IGR | opensea | IGR-opense | rs5305385 | 32 | | |
| cg14353148 | -0.2321 | 0.478231 | -5.07172 | 0.00112 | 0.009406 | -0.84358 | 0.594283 | 0.362179 | 0.232104 | 4 | 1.86E+08 | R | II | | IGR | opensea | IGR-opense | rs1401734 | 2 | | |
| cg18265118 | -0.26289 | 0.514437 | -5.07084 | 0.001121 | 0.009412 | -0.8447 | 0.645882 | 0.382992 | 0.26289 | 7 | 2139243 | F | II | MAD1L1 | Body | opensea | Body-opens | rs7303844 | 31;43;48 | | |
| cg22589728 | -0.22787 | 0.450873 | -5.06957 | 0.001122 | 0.009421 | -0.84632 | 0.56481 | 0.336936 | 0.227874 | 3 | 71439885 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | | | | |
| cg06114320 | -0.27176 | 0.26856 | -5.06732 | 0.001125 | 0.009437 | -0.84918 | 0.404441 | 0.132679 | 0.271763 | 2 | 10470282 | R | II | HPCAL1 | TSS200 | opensea | TSS200-ope | rs1122597 | 47;2 | | |
| cg07065759 | -0.24338 | 0.492602 | -5.0672 | 0.001126 | 0.009437 | -0.84934 | 0.61429 | 0.370913 | 0.243377 | 2 | 1.98E+08 | F | II | ANKRD44 | Body | opensea | Body-opens | rs5743246 | 0;30 | | |
| cg24405716 | -0.23173 | 0.54601 | -5.06637 | 0.001127 | 0.009443 | -0.8504 | 0.661876 | 0.430144 | 0.231733 | 15 | 31280513 | F | II | MTMR10 | Body | shelf | Body-shelf | chr15:3121 | rs1421790 | 0;16;24 | | |
| cg03906910 | -0.22612 | 0.318118 | -5.06432 | 0.00113 | 0.009457 | -0.85302 | 0.431177 | 0.205059 | 0.226119 | 5 | 1.43E+08 | R | II | NR3C1 | 1stExon | opensea | 1stExon-op | rs3684340 | 16 | | |
| cg12166476 | -0.20742 | 0.343036 | -5.0636 | 0.00113 | 0.009461 | -0.85394 | 0.446745 | 0.239326 | 0.207419 | 13 | 76334866 | F | II | LMO7 | 5'UTR | opensea | 5'UTR-open | rs5473439 | 9;19;27 | | |
| cg11173131 | -0.22789 | 0.573364 | -5.06272 | 0.001132 | 0.009467 | -0.85505 | 0.687307 | 0.459422 | 0.227886 | 20 | 45179226 | R | II | C20orf123 | TSS200 | opensea | TSS200-ope | rs5364540 | 32;31;2;1 | | |
| cg15831212 | -0.24415 | 0.603958 | -5.06177 | 0.001133 | 0.009473 | -0.85626 | 0.726033 | 0.481883 | 0.24415 | 5 | 1.4E+08 | R | II | PFDN1 | Body | opensea | Body-opens | | | | | |
| cg07324172 | -0.26531 | 0.434541 | -5.06166 | 0.001133 | 0.009474 | -0.85641 | 0.567196 | 0.301886 | 0.265309 | 4 | 1.53E+08 | R | II | FBXW7 | 5'UTR | opensea | 5'UTR-open | rs2008076 | 35;34;2 | | |
| cg18143792 | -0.21939 | 0.392912 | -5.06164 | 0.001133 | 0.009474 | -0.85643 | 0.502607 | 0.283217 | 0.21939 | 1 | 26250290 | F | II | | IGR | shore | IGR-shore | chr1:2624 | rs7266402 | 26 | | |
| cg06806339 | -0.20376 | 0.714539 | -5.05997 | 0.001135 | 0.009486 | -0.85855 | 0.816418 | 0.612661 | 0.203757 | 9 | 20508649 | R | II | MLLT3 | Body | opensea | Body-opens | rs1477608 | 29 | | |
| cg15586429 | -0.20741 | 0.302763 | -5.05923 | 0.001136 | 0.009492 | -0.8595 | 0.406467 | 0.199058 | 0.207408 | 2 | 1.5E+08 | R | I | LYPD6 | 1stExon | island | 1stExon-isl | chr2:1501 | rs5592023 | 44;43 | | |
| cg12974891 | -0.24811 | 0.519278 | -5.05807 | 0.001138 | 0.0095 | -0.86098 | 0.643333 | 0.395222 | 0.248111 | 1 | 2.43E+08 | R | II | CEP170 | 5'UTR | shore | 5'UTR-shor | chr1:2434 | rs6668649 | 18 | | |
| cg23820828 | -0.21657 | 0.450657 | -5.05763 | 0.001139 | 0.009503 | -0.86155 | 0.558944 | 0.34237 | 0.216574 | 8 | 99959602 | R | II | OSR2 | 5'UTR | shore | 5'UTR-shor | chr8:9996 | rs5383325 | 46 | | |
| cg18187859 | -0.22557 | 0.598188 | -5.05719 | 0.001139 | 0.009506 | -0.86211 | 0.710971 | 0.485405 | 0.225565 | 21 | 43880997 | R | II | | IGR | opensea | IGR-opense | rs1000114 | 24;22;19;2 | | |
| cg26530485 | -0.24559 | 0.415839 | -5.05654 | 0.00114 | 0.009509 | -0.86293 | 0.538635 | 0.293043 | 0.245591 | 1 | 23496304 | F | II | LUZP1 | TSS1500 | opensea | TSS1500-op | rs7809640 | 48 | | |
| cg23488414 | -0.20646 | 0.253929 | -5.05606 | 0.001141 | 0.009513 | -0.86355 | 0.357157 | 0.1507 | 0.206457 | 4 | 74088730 | R | II | ANKRD17 | Body | opensea | Body-opens | rs5673862 | 2 | | |
| cg15685693 | -0.20474 | 0.288971 | -5.05594 | 0.001141 | 0.009513 | -0.8637 | 0.39134 | 0.186602 | 0.204738 | 7 | 70597351 | F | I | WBSCR17 | TSS200 | island | TSS200-isla | chr7:7059 | rs1023496 | 14;16 | | |
| cg11675876 | -0.21239 | 0.41422 | -5.0542 | 0.001143 | 0.009524 | -0.86592 | 0.520415 | 0.308024 | 0.21239 | 3 | 1.89E+08 | F | I | TPRG1-AS1 | TSS200 | island | TSS200-isla | chr3:1886 | rs5657744 | 1;21;25;34 | | |
| cg19274890 | -0.29752 | 0.350424 | -5.05368 | 0.001144 | 0.009528 | -0.86658 | 0.499183 | 0.201664 | 0.29752 | 7 | 1.54E+08 | R | I | DPP6 | TSS200 | island | TSS200-isla | chr7:1535 | rs5316338 | 51;45;33;30 | | |
| cg16006418 | -0.20323 | 0.594586 | -5.0531 | 0.001145 | 0.009532 | -0.86732 | 0.696202 | 0.492971 | 0.203231 | 3 | 1.07E+08 | F | II | BBX | 5'UTR | opensea | 5'UTR-open | | | | | |
| cg14473924 | -0.2086 | 0.480395 | -5.05144 | 0.001147 | 0.009544 | -0.86944 | 0.584694 | 0.376095 | 0.208599 | 3 | 73674170 | F | II | PDZRN3 | TSS200 | island | TSS200-isla | chr3:7367 | rs1134716 | 12;18;35;38 | | |
| cg22715764 | -0.25815 | 0.621051 | -5.0496 | 0.00115 | 0.009557 | -0.87179 | 0.750128 | 0.491974 | 0.258154 | 1 | 10556294 | R | II | PEX14 | Body | opensea | Body-opens | | | | | |
| cg22866426 | -0.21297 | 0.535293 | -5.04801 | 0.001152 | 0.009569 | -0.87382 | 0.641779 | 0.428807 | 0.212972 | 21 | 36263347 | R | II | RUNX1 | Body | island | Body-islanc | chr21:362 | rs5511878 | 23;18 | | |
| cg25330422 | -0.28959 | 0.438018 | -5.04541 | 0.001155 | 0.00959 | -0.87715 | 0.582812 | 0.293225 | 0.289587 | 17 | 40467382 | R | II | STAT3 | 3'UTR | shelf | 3'UTR-shelf | chr17:404 | rs1867985 | 23 | | |
| cg08767938 | -0.25698 | 0.577254 | -5.04235 | 0.00116 | 0.009612 | -0.88105 | 0.705743 | 0.448765 | 0.256979 | 7 | 25989524 | F | II | | IGR | shore | IGR-shore | chr7:2599( | | | | |
| cg07114422 | -0.21006 | 0.494521 | -5.04167 | 0.001161 | 0.009617 | -0.88193 | 0.599551 | 0.389492 | 0.210059 | 1 | 2183438 | R | II | SKI | Body | opensea | Body-opens | rs5415647 | 30 | | | |
| cg24039697 | -0.21368 | 0.326906 | -5.04072 | 0.001162 | 0.009623 | -0.88314 | 0.433748 | 0.220065 | 0.213683 | 10 | 8094534 | F | I | FLJ45983 | Body | island | Body-islanc | chr10:809 | | | | |
| cg01778017 | -0.26474 | 0.681809 | -5.04004 | 0.001163 | 0.009628 | -0.88401 | 0.814178 | 0.54944 | 0.264738 | 1 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | | | | |
| cg21833076 | -0.24956 | 0.345537 | -5.0371 | 0.001167 | 0.00965 | -0.88777 | 0.470315 | 0.220758 | 0.249557 | 11 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | rs5766006 | 0 | | |
| cg10530883 | -0.22631 | 0.315145 | -5.03559 | 0.001169 | 0.009662 | -0.88971 | 0.428298 | 0.201991 | 0.226307 | 5 | 3596207 | F | I | IRX1 | 1stExon | island | 1stExon-isl | chr5:3594 | rs5527259 | 28 | | |
| cg07917644 | -0.23977 | 0.580928 | -5.03365 | 0.001172 | 0.009677 | -0.89218 | 0.700811 | 0.461045 | 0.239766 | 15 | 1.02E+08 | F | II | CHSY1 | Body | opensea | Body-opens | rs5692846 | 39 | | |
| cg09890699 | -0.21035 | 0.446275 | -5.03293 | 0.001173 | 0.009682 | -0.89311 | 0.551452 | 0.341099 | 0.210354 | 1 | 54821853 | R | II | SSBP3 | Body | shore | Body-shore | chr1:5482 | rs1405956 | 37;16 | | |
| cg22684041 | -0.26535 | 0.548476 | -5.03228 | 0.001174 | 0.009687 | -0.89393 | 0.68115 | 0.415802 | 0.265348 | 19 | 1904554 | R | II | SCAMP4 | TSS1500 | shore | TSS1500-sh | chr19:190 | rs1844210 | 16 | | |
| cg14525407 | -0.21724 | 0.471681 | -5.02953 | 0.001178 | 0.009707 | -0.89745 | 0.580301 | 0.363061 | 0.217241 | 15 | 63570327 | F | II | APH1B | Body | shore | Body-shore | chr15:6356 | rs5539718 | 1;13 | | |
| cg16458838 | -0.23904 | 0.669111 | -5.02871 | 0.001179 | 0.009713 | -0.8985 | 0.788633 | 0.54959 | 0.239043 | 15 | 57250375 | F | II | TCF12 | Body | opensea | Body-opens | rs5374860 | 15;23 | | | |
| cg26441817 | -0.22249 | 0.526808 | -5.02839 | 0.001179 | 0.009715 | -0.89892 | 0.638051 | 0.415565 | 0.222486 | 15 | 31495225 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg02971209 | -0.22324 | 0.498379 | -5.02825 | 0.001179 | 0.009716 | -0.89909 | 0.609998 | 0.38676 | 0.223238 | 8 | 8932770 | R | II | | IGR | opensea | IGR-opense | rs7319772 | 2;1 | | |
| cg25476208 | -0.24977 | 0.319771 | -5.02516 | 0.001184 | 0.009737 | -0.90305 | 0.444656 | 0.194886 | 0.24977 | 14 | 69434991 | R | II | ACTN1 | Body | opensea | Body-opens | rs5415837 | 40;39;11;8 | | | |
| cg05764155 | -0.22458 | 0.454753 | -5.02465 | 0.001184 | 0.009742 | -0.9037 | 0.56704 | 0.342465 | 0.224576 | 1 | 1.12E+08 | F | II | TMIGD3 | Body | shore | Body-shore | chr1:1120 | rs1425450 | 24 | | |
| cg13974632 | -0.21909 | 0.372411 | -5.0237 | 0.001186 | 0.009748 | -0.90492 | 0.481954 | 0.262868 | 0.219086 | 11 | 27740813 | F | I | BDNF | Body | island | Body-islanc | chr11:2774 | rs1083521 | 25;31 | | |
| cg14834362 | -0.24257 | 0.498451 | -5.0233 | 0.001186 | 0.009751 | -0.90543 | 0.619737 | 0.377166 | 0.242571 | 2 | 1.98E+08 | F | II | ANKRD44 | Body | opensea | Body-opens | rs5731987 | 1 | | | |
| cg03461784 | -0.22153 | 0.372359 | -5.02208 | 0.001188 | 0.00976 | -0.907 | 0.483127 | 0.261592 | 0.221535 | 14 | 98604556 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg08006309 | -0.22136 | 0.443943 | -5.02058 | 0.00119 | 0.00977 | -0.90892 | 0.554622 | 0.333263 | 0.221359 | 16 | 1587810 | R | II | IFT140 | Body | island | Body-islanc | chr16:158 | rs1443905 | 48;41;40;25;21 | | |
| cg07793808 | -0.21975 | 0.405201 | -5.01792 | 0.001194 | 0.009791 | -0.91232 | 0.515075 | 0.295328 | 0.219746 | 12 | 1.22E+08 | F | II | KDM2B | TSS200 | shore | TSS200-sho | chr12:122( | | | | |
| cg01682285 | -0.26125 | 0.477802 | -5.01634 | 0.001196 | 0.009802 | -0.91435 | 0.608425 | 0.347179 | 0.261246 | 14 | 81422160 | F | II | TSHR | 1stExon | shore | 1stExon-sh | chr14:814 | rs1471379 | 9;18;34;44 | | |
| cg19811761 | -0.22637 | 0.312765 | -5.01544 | 0.001198 | 0.00981 | -0.91551 | 0.42595 | 0.19958 | 0.22637 | 19 | 57019022 | F | I | ZNF471 | TSS200 | island | TSS200-isla | chr19:570 | rs5474929 | 49 | | |
| cg11082691 | -0.20849 | 0.314947 | -5.01508 | 0.001198 | 0.009812 | -0.91597 | 0.41919 | 0.210704 | 0.208486 | 13 | 24183666 | F | II | TNFRSF19 | Body | opensea | Body-opens | | | | | |
| cg12963656 | -0.22408 | 0.623548 | -5.0141 | 0.0012 | 0.009819 | -0.91723 | 0.73559 | 0.511507 | 0.224083 | 3 | 1.02E+08 | F | II | LOC15222 | TSS200 | opensea | TSS200-ope | rs1854272 | 50 | | |
| cg07487014 | -0.23028 | 0.273897 | -5.01104 | 0.001204 | 0.009843 | -0.92115 | 0.389037 | 0.158758 | 0.230279 | 4 | 38491687 | R | II | LINC01258 | Body | opensea | Body-opens | rs5475432 | 26;11;7 | | | |
| cg15012027 | -0.2247 | 0.328389 | -5.01042 | 0.001205 | 0.009848 | -0.92194 | 0.440737 | 0.216041 | 0.224696 | 2 | 99351550 | R | II | | IGR | shelf | IGR-shelf | chr2:9934( | | | | |
| cg22505924 | -0.20843 | 0.298723 | -5.00695 | 0.00121 | 0.009874 | -0.92639 | 0.40294 | 0.194506 | 0.208434 | 2 | 64488157 | F | II | | IGR | opensea | IGR-opense | rs5762069 | 36;47 | | |
| cg15429134 | -0.2554 | 0.281093 | -5.00229 | 0.001217 | 0.009906 | -0.93237 | 0.408794 | 0.153393 | 0.255402 | 12 | 12619103 | F | II | LOH12CR1 | 3'UTR | opensea | 3'UTR-open | rs3803098 | 23;24;26;39 | | |
| cg14992777 | -0.21324 | 0.252341 | -4.99895 | 0.001222 | 0.009927 | -0.93667 | 0.358963 | 0.14572 | 0.213243 | 2 | 42879527 | F | II | MTA3 | Body | opensea | Body-opens | rs5275145 | 1;26 | | | |
| cg25104397 | -0.25119 | 0.515581 | -4.99789 | 0.001223 | 0.009935 | -0.93803 | 0.641178 | 0.389985 | 0.251193 | 10 | 1.05E+08 | R | II | C10orf26 | 5'UTR | opensea | 5'UTR-open | rs5766124 | 29;28;27;4 | | |
| cg13942283 | -0.2592 | 0.539756 | -4.99771 | 0.001223 | 0.009936 | -0.93826 | 0.669354 | 0.410158 | 0.259196 | 10 | 1.13E+08 | R | II | RBM20 | Body | opensea | Body-opens | rs1442822 | 35;27 | | | |
| cg02725453 | -0.20133 | 0.51931 | -4.99613 | 0.001226 | 0.009949 | -0.94029 | 0.619976 | 0.418645 | 0.201331 | 22 | 50249174 | F | II | ZBED4 | 5'UTR | shore | 5'UTR-shor | chr22:502 | rs1860528 | 0;47 | | |
| cg24368848 | -0.30478 | 0.385789 | -4.99499 | 0.001227 | 0.009958 | -0.94176 | 0.538181 | 0.233397 | 0.304784 | 19 | 58545160 | F | I | ZSCAN1 | TSS1500 | island | TSS1500-isl | chr19:585 | rs5561099 | 15 | | |
| cg12482300 | -0.20776 | 0.248099 | -4.99455 | 0.001228 | 0.009961 | -0.94232 | 0.351979 | 0.144218 | 0.207761 | 1 | 2.27E+08 | F | II | ITPKB | Body | opensea | Body-opens | rs1876040 | 12;27;38;47 | | | |
| cg01641371 | -0.21301 | 0.2784 | -4.99407 | 0.001229 | 0.009965 | -0.94294 | 0.384904 | 0.171895 | 0.213009 | 17 | 26712092 | R | II | SARM1 | Body | island | Body-islanc | chr17:267 | rs7847040 | 43;11 | | |
| cg26280976 | -0.28226 | 0.680787 | -4.99117 | 0.001233 | 0.009987 | -0.94667 | 0.821917 | 0.539657 | 0.28226 | 14 | 69660603 | F | II | | IGR | shore | IGR-shore | chr14:696 | rs5405967 | 26;30;45 | | |

SUPPLEMENTAL TABLE 3 - FEMALE SUBSET - HYPO

| | logFC | AveExpr | t | P.Value | adj.P.Val | B | LBP_f_AVG | Normal_f_A | deltaBeta | CHR | MAPINFO | Strand | Type | gene | feature | cgi | feat.cgi | UCSC_Islan | SNP_ID | SNP_DISTANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0420294 | 0.209857 | 0.508947 | 35.39074 | 1E-09 | 0.000315 | 11.74761 | 0.404019 | 0.613876 | -0.20986 | 5 | 1.28E+08 | R | II | FBN2 | Body | opensea | Body-opens | | rs1419626 | 7;4 |
| cg1827416 | 0.211491 | 0.522894 | 33.57832 | 1.49E-09 | 0.000315 | 11.52651 | 0.417148 | 0.628639 | -0.21149 | 8 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs1397863 | 38;27 |
| cg0857742 | 0.259836 | 0.537106 | 32.561 | 1.88E-09 | 0.000315 | 11.39174 | 0.407188 | 0.667024 | -0.25984 | 6 | 31876831 | F | II | C2 | 5'UTR | opensea | 5'UTR-open | | rs1909883 | 28 |
| cg0894708 | 0.258033 | 0.583123 | 29.30234 | 4.18E-09 | 0.000315 | 10.89999 | 0.454106 | 0.712139 | -0.25803 | 1 | 1.74E+08 | R | II | SNORD47 | TSS1500 | shelf | TSS1500-sh | chr1:1738 | rs5552291 | 27;1 |
| cg2722910 | 0.219606 | 0.377589 | 27.20861 | 7.31E-09 | 0.000315 | 10.52718 | 0.267786 | 0.487393 | -0.21961 | 20 | 47897260 | R | II | SNORD12 | Body | shelf | Body-shelf | chr20:4785 | rs5460635 | 41;40;34;33 |
| cg0468713 | 0.230976 | 0.53137 | 26.68574 | 8.46E-09 | 0.000315 | 10.426 | 0.415882 | 0.646859 | -0.23098 | 20 | 50236499 | F | II | ATP9A | Body | opensea | Body-opens | | rs5596840 | 0;11;26 |
| cg1197805 | 0.248211 | 0.505338 | 26.67024 | 8.5E-09 | 0.000315 | 10.42295 | 0.381233 | 0.629443 | -0.24821 | 10 | 1.06E+08 | F | II | COL17A1 | TSS1500 | opensea | TSS1500-op | | rs5723495 | 5 |
| cg2155461 | 0.227962 | 0.524228 | 26.43002 | 9.1E-09 | 0.000315 | 10.37526 | 0.410247 | 0.638209 | -0.22796 | 14 | 55226755 | F | II | SAMD4A | 5'UTR | shore | 5'UTR-shor | chr14:552 | rs5691047 | 23;27;51 |
| cg0241131 | 0.248552 | 0.531953 | 25.50202 | 1.19E-08 | 0.000315 | 10.18377 | 0.407677 | 0.656229 | -0.24855 | 11 | 9599530 | R | II | WEE1 | Body | shelf | Body-shelf | chr11:959 | rs7220833 | 2 |
| cg0703438 | 0.211441 | 0.474395 | 24.67509 | 1.53E-08 | 0.000315 | 10.00291 | 0.368675 | 0.580116 | -0.21144 | 17 | 73149094 | R | II | HN1 | 5'UTR | shore | 5'UTR-shor | chr17:731 | rs5488264 | 38 |
| cg1171326 | 0.209985 | 0.502941 | 24.46769 | 1.63E-08 | 0.000315 | 9.955947 | 0.397948 | 0.607933 | -0.20998 | 13 | 75940239 | R | II | TBC1D4 | Body | opensea | Body-opens | | rs5772706 | 1 |
| cg1222023 | 0.220385 | 0.469127 | 24.31051 | 1.71E-08 | 0.000315 | 9.919916 | 0.358935 | 0.57932 | -0.22038 | 20 | 3364800 | R | II | C20orf194 | Body | opensea | Body-opens | | rs8116213 | 39 |
| cg1916297 | 0.235262 | 0.519432 | 24.26643 | 1.73E-08 | 0.000315 | 9.909742 | 0.401801 | 0.637063 | -0.23526 | 7 | 38710069 | F | II | | IGR | opensea | IGR-opense | | rs5568923 | 0 |
| cg2305871 | 0.228046 | 0.639937 | 24.17748 | 1.78E-08 | 0.000315 | 9.889121 | 0.525914 | 0.75396 | -0.22805 | 4 | 1779625 | F | II | | IGR | opensea | IGR-opense | | rs5546610 | 0;1;12 |
| cg0210186 | 0.215695 | 0.449262 | 24.02476 | 1.87E-08 | 0.000315 | 9.853422 | 0.341414 | 0.55711 | -0.2157 | 11 | 74412729 | F | II | CHRDL2 | Body | opensea | Body-opens | | rs3700805 | 1 |
| cg1453852 | 0.206644 | 0.497267 | 24.0198 | 1.87E-08 | 0.000315 | 9.852258 | 0.393945 | 0.600589 | -0.20664 | 4 | 23040711 | F | II | | IGR | opensea | IGR-opense | | rs5336180 | 13 |
| cg0881582 | 0.212884 | 0.495981 | 24.01856 | 1.87E-08 | 0.000315 | 9.851967 | 0.389539 | 0.602423 | -0.21288 | 17 | 15169619 | R | II | PMP22 | TSS1500 | shelf | TSS1500-sh | chr17:151 | rs5771876 | 2;1 |
| cg0279598 | 0.250539 | 0.552601 | 23.72814 | 2.05E-08 | 0.000315 | 9.783016 | 0.427331 | 0.67787 | -0.25054 | 10 | 81045119 | F | II | ZMIZ1 | Body | opensea | Body-opens | | rs1487740 | 1;11;14;34;47 |
| cg0893862 | 0.243642 | 0.515114 | 23.70481 | 2.06E-08 | 0.000315 | 9.777417 | 0.393293 | 0.636935 | -0.24364 | 18 | 42832579 | R | II | SLC14A2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1191067 | 0.226575 | 0.506969 | 23.6438 | 2.11E-08 | 0.000315 | 9.762735 | 0.393681 | 0.620257 | -0.22658 | 2 | 27587064 | F | II | | IGR | opensea | IGR-opense | | rs5358457 | 18;27 |
| cg2698011 | 0.201592 | 0.629007 | 23.6396 | 2.11E-08 | 0.000315 | 9.761721 | 0.528211 | 0.729803 | -0.20159 | 8 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs1900494 | 1;29;39 |
| cg1627899 | 0.230398 | 0.581363 | 23.61572 | 2.12E-08 | 0.000315 | 9.755955 | 0.466164 | 0.696562 | -0.2304 | 6 | 13715593 | F | II | | IGR | shelf | IGR-shelf | chr6:1371( | | |
| cg2429828 | 0.221865 | 0.530372 | 23.46349 | 2.23E-08 | 0.000315 | 9.71898 | 0.419439 | 0.641305 | -0.22187 | 6 | 1.25E+08 | F | II | RNF217 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1124761 | 0.210434 | 0.474332 | 23.25405 | 2.39E-08 | 0.000315 | 9.667469 | 0.369116 | 0.579549 | -0.21043 | 6 | 1.07E+08 | R | II | LOC10042 | Body | opensea | Body-opens | | | |
| cg0341152 | 0.224991 | 0.483614 | 23.15956 | 2.46E-08 | 0.000315 | 9.643984 | 0.371119 | 0.59611 | -0.22499 | 17 | 66609980 | R | II | | IGR | opensea | IGR-opense | | rs5415857 | 16;2 |
| cg1647283 | 0.215438 | 0.487458 | 22.99689 | 2.59E-08 | 0.000315 | 9.603193 | 0.379739 | 0.595178 | -0.21544 | 2 | 2.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs1167450 | 0;16 |
| cg1616623 | 0.212171 | 0.498191 | 22.82403 | 2.75E-08 | 0.000315 | 9.559336 | 0.392105 | 0.604276 | -0.21217 | 17 | 32480663 | F | II | ACCN1 | Body | shelf | Body-shelf | chr17:324 | rs5477043 | 1;17 |
| cg1051172 | 0.251916 | 0.538298 | 22.8005 | 2.77E-08 | 0.000315 | 9.553326 | 0.41234 | 0.664256 | -0.25192 | 14 | 24813353 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0577212 | 0.254285 | 0.461583 | 22.54439 | 3.01E-08 | 0.000315 | 9.487264 | 0.33444 | 0.588726 | -0.25429 | 16 | 31539169 | R | II | AHSP | TSS200 | opensea | TSS200-ope | | rs7749354 | 15;2;1 |
| cg0445242 | 0.255401 | 0.583744 | 22.35367 | 3.21E-08 | 0.000315 | 9.437293 | 0.456044 | 0.711445 | -0.2554 | 6 | 1.51E+08 | F | II | MTHFD1L | Body | opensea | Body-opens | | | |
| cg2368349 | 0.202524 | 0.455997 | 22.23102 | 3.35E-08 | 0.000315 | 9.4048 | 0.354735 | 0.557259 | -0.20252 | 1 | 2.03E+08 | R | II | CHIT1 | Body | opensea | Body-opens | | rs5432150 | 28;1 |
| cg0932874 | 0.230687 | 0.550856 | 22.17108 | 3.41E-08 | 0.000315 | 9.388819 | 0.435512 | 0.666199 | -0.23069 | 20 | 50031354 | F | II | NFATC2 | Body | opensea | Body-opens | | rs5473995 | 26 |
| cg0229387 | 0.2063 | 0.468343 | 21.91358 | 3.73E-08 | 0.000315 | 9.319389 | 0.365193 | 0.571493 | -0.2063 | 3 | 1.24E+08 | F | II | KALRN | Body | opensea | Body-opens | | rs1114608 | 0;1;21;22 |
| cg1381048 | 0.209232 | 0.480894 | 21.82236 | 3.85E-08 | 0.000315 | 9.294489 | 0.376278 | 0.58551 | -0.20923 | 5 | 58440035 | F | II | PDE4D | Body | opensea | Body-opens | | rs5572610 | 0;20 |
| cg0008472 | 0.214942 | 0.533913 | 21.78665 | 3.89E-08 | 0.000315 | 9.284698 | 0.426442 | 0.641384 | -0.21494 | 8 | 94527855 | R | II | | IGR | opensea | IGR-opense | | rs5651305 | 40 |
| cg1055633 | 0.209495 | 0.505703 | 21.78346 | 3.9E-08 | 0.000315 | 9.283822 | 0.400956 | 0.610451 | -0.20949 | 3 | 1.94E+08 | R | II | LOC10050 | Body | opensea | Body-opens | | rs5371091 | 9 |
| cg1067954 | 0.260315 | 0.557822 | 21.77766 | 3.91E-08 | 0.000315 | 9.282227 | 0.427664 | 0.687979 | -0.26031 | 1 | 21532794 | R | II | | IGR | opensea | IGR-opense | | rs5604575 | 1 |
| cg1924378 | 0.229026 | 0.627274 | 21.75045 | 3.94E-08 | 0.000315 | 9.274745 | 0.512761 | 0.741787 | -0.22903 | 3 | 23567565 | F | II | UBE2E2 | Body | opensea | Body-opens | | rs5602612 | 1;20 |
| cg1958801 | 0.248032 | 0.671793 | 21.74456 | 3.95E-08 | 0.000315 | 9.273124 | 0.547777 | 0.795809 | -0.24803 | 2 | 9511523 | F | II | ASAP2 | Body | shelf | Body-shelf | chr2:9514 | rs7465126 | 15;22;32 |
| cg0754929 | 0.21681 | 0.612993 | 21.73664 | 3.96E-08 | 0.000315 | 9.270942 | 0.504588 | 0.721398 | -0.21681 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs1473890 | 50;8;6 |
| cg2179857 | 0.219801 | 0.671609 | 21.64299 | 4.09E-08 | 0.000315 | 9.245053 | 0.561709 | 0.78151 | -0.2198 | 20 | 40091688 | F | II | CHD6 | Body | opensea | Body-opens | | rs1818781 | 34 |
| cg2026267 | 0.200669 | 0.554747 | 21.58815 | 4.17E-08 | 0.000315 | 9.229812 | 0.454412 | 0.655081 | -0.20067 | 17 | 34891931 | R | II | PIGW | 5'UTR | shore | 5'UTR-shor | chr17:348 | rs5580998 | 36 |
| cg0794770 | 0.213703 | 0.471998 | 21.58102 | 4.18E-08 | 0.000315 | 9.227826 | 0.365146 | 0.578849 | -0.2137 | 19 | 58469897 | R | II | C19orf18 | 3'UTR | opensea | 3'UTR-open | | rs5488907 | 41;7;1 |
| cg1107338 | 0.213073 | 0.524651 | 21.58089 | 4.18E-08 | 0.000315 | 9.22779 | 0.418114 | 0.631187 | -0.21307 | 17 | 54305205 | R | II | ANKFN1 | Body | opensea | Body-opens | | rs5615412 | 1 |
| cg1658218 | 0.212367 | 0.528919 | 21.57334 | 4.19E-08 | 0.000315 | 9.225686 | 0.422735 | 0.635102 | -0.21237 | 20 | 10935250 | F | II | | IGR | opensea | IGR-opense | | rs1886133 | 0 |
| cg1776812 | 0.254754 | 0.54012 | 21.56024 | 4.21E-08 | 0.000315 | 9.222033 | 0.412743 | 0.667497 | -0.25475 | 6 | 56663406 | R | II | DST | Body | opensea | Body-opens | | rs1923125 | 36;30;14;1 |
| cg0591831 | 0.211073 | 0.530815 | 21.52777 | 4.26E-08 | 0.000315 | 9.212961 | 0.425278 | 0.636351 | -0.21107 | 2 | 1.83E+08 | R | II | PDE1A | Body | opensea | Body-opens | | rs1906086 | 4;2;1 |
| cg2042731 | 0.236957 | 0.531015 | 21.43602 | 4.4E-08 | 0.000315 | 9.187217 | 0.412537 | 0.649494 | -0.23696 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5533134 | 9;27;28 |
| cg1060315 | 0.208887 | 0.503558 | 21.42924 | 4.41E-08 | 0.000315 | 9.185309 | 0.399115 | 0.608002 | -0.20889 | 10 | 13732625 | R | II | FRMD4A | Body | opensea | Body-opens | | rs1443379 | 42;2 |
| cg0824537 | 0.213825 | 0.51366 | 21.41136 | 4.44E-08 | 0.000315 | 9.180269 | 0.406747 | 0.620572 | -0.21383 | 17 | 25568385 | F | II | | IGR | opensea | IGR-opense | | rs5603074 | 44;47 |
| cg0504539 | 0.234093 | 0.513151 | 21.36752 | 4.5E-08 | 0.000315 | 9.167888 | 0.396105 | 0.630198 | -0.23409 | 18 | 6249208 | R | II | L3MBTL4 | Body | opensea | Body-opens | | rs5448058 | 50;26;14 |
| cg1755753 | 0.210735 | 0.569451 | 21.34554 | 4.54E-08 | 0.000315 | 9.161663 | 0.464084 | 0.674819 | -0.21073 | 9 | 90193634 | R | II | DAPK1 | Body | opensea | Body-opens | | rs1433925 | 9 |
| cg0743197 | 0.219246 | 0.533776 | 21.30754 | 4.6E-08 | 0.000315 | 9.150883 | 0.424153 | 0.643399 | -0.21925 | 14 | 52142383 | F | II | FRMD6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1222168 | 0.242662 | 0.537422 | 21.30454 | 4.61E-08 | 0.000315 | 9.15003 | 0.416091 | 0.658753 | -0.24266 | 2 | 98827983 | R | II | VWA3B | Body | opensea | Body-opens | | | |
| cg0441630 | 0.200799 | 0.599206 | 21.2619 | 4.67E-08 | 0.000315 | 9.137896 | 0.498807 | 0.699606 | -0.2008 | 11 | 31143518 | F | II | | IGR | opensea | IGR-opense | | rs1920425 | 1;10 |
| cg2689856 | 0.239348 | 0.537021 | 21.26073 | 4.68E-08 | 0.000315 | 9.137562 | 0.417347 | 0.656695 | -0.23935 | 17 | 10630621 | F | II | TMEM220 | Body | shelf | Body-shelf | chr17:106 | rs5403713 | 28;49;50 |
| cg1793680 | 0.242053 | 0.562895 | 21.15926 | 4.85E-08 | 0.000315 | 9.108529 | 0.441869 | 0.683921 | -0.24205 | 14 | 52334855 | F | II | GNG2 | 5'UTR | opensea | 5'UTR-open | | rs5736511 | 1;5 |
| cg0711150 | 0.233171 | 0.518498 | 21.10673 | 4.94E-08 | 0.000315 | 9.093419 | 0.401912 | 0.635083 | -0.23317 | 5 | 17352766 | F | II | | IGR | shore | IGR-shore | chr5:1735 | rs5766065 | 1;32;39 |
| cg1896824 | 0.235064 | 0.455857 | 21.01866 | 5.1E-08 | 0.000315 | 9.067952 | 0.338325 | 0.573388 | -0.23506 | 4 | 1.24E+08 | F | II | IL21-AS1 | Body | opensea | Body-opens | | rs1143013 | 9 |
| cg2697586 | 0.262269 | 0.485331 | 20.91858 | 5.28E-08 | 0.000315 | 9.038816 | 0.354196 | 0.616465 | -0.26227 | 1 | 57590662 | F | II | DAB1 | Body | opensea | Body-opens | | rs5557882 | 1;26 |
| cg2593948 | 0.211205 | 0.551482 | 20.85051 | 5.41E-08 | 0.000315 | 9.018879 | 0.44588 | 0.657084 | -0.2112 | 1 | 69716492 | R | II | | IGR | opensea | IGR-opense | | rs1833733 | 42;32;24;5;2;1 |
| cg1746443 | 0.233736 | 0.597786 | 20.8469 | 5.42E-08 | 0.000315 | 9.017817 | 0.480918 | 0.714654 | -0.23374 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-opens | | rs4651242 | 41;27;22 |
| cg2080171 | 0.220645 | 0.406809 | 20.84433 | 5.42E-08 | 0.000315 | 9.017062 | 0.296487 | 0.517131 | -0.22064 | 8 | 55278980 | R | II | | IGR | opensea | IGR-opense | | rs5278555 | 37;29 |
| cg0107200 | 0.221 | 0.486862 | 20.78057 | 5.55E-08 | 0.000315 | 8.998291 | 0.376362 | 0.597362 | -0.221 | 6 | 1.36E+08 | R | II | LINC00271 | Body | opensea | Body-opens | | rs5588935 | 1 |
| cg0359373 | 0.223169 | 0.518038 | 20.76234 | 5.59E-08 | 0.000315 | 8.992907 | 0.406454 | 0.629622 | -0.22317 | 2 | 2.02E+08 | R | II | AOX2P | Body | opensea | Body-opens | | rs7398839 | 36;22;13;1 |
| cg0215026 | 0.201163 | 0.499079 | 20.7311 | 5.65E-08 | 0.000315 | 8.983664 | 0.398498 | 0.599661 | -0.20116 | 11 | 1.25E+08 | F | II | ROBO4 | Body | opensea | Body-opens | | rs5566130 | 0;3;21 |
| cg0592619 | 0.251885 | 0.513047 | 20.70522 | 5.7E-08 | 0.000315 | 8.975992 | 0.387104 | 0.638989 | -0.25189 | 15 | 57671053 | F | II | CGNL1 | 5'UTR | shelf | 5'UTR-shelf | chr15:576 | rs5739496 | 1;4;12 |
| cg0144104 | 0.217487 | 0.550788 | 20.68699 | 5.74E-08 | 0.000315 | 8.970579 | 0.442044 | 0.659532 | -0.21749 | 16 | 19448742 | F | II | TMC5 | 5'UTR | opensea | 5'UTR-open | | rs1159719 | 43 |
| cg2686447 | 0.222609 | 0.449209 | 20.65447 | 5.81E-08 | 0.000315 | 8.960906 | 0.337904 | 0.560514 | -0.22261 | 5 | 39447279 | F | II | | IGR | opensea | IGR-opense | | rs5333145 | 28;40;46 |
| cg0446232 | 0.228149 | 0.597538 | 20.50141 | 6.14E-08 | 0.000315 | 8.915063 | 0.483464 | 0.711612 | -0.22815 | 14 | 91697876 | R | II | | IGR | shelf | IGR-shelf | chr14:917 | rs1422905 | 38;6;5 |
| cg0468108 | 0.244063 | 0.528771 | 20.48786 | 6.17E-08 | 0.000315 | 8.91098 | 0.406739 | 0.650802 | -0.24406 | 18 | 52918079 | F | II | TCF4 | Body | opensea | Body-opens | | rs5684479 | 0 |
| cg0273755 | 0.246365 | 0.564594 | 20.40578 | 6.36E-08 | 0.000315 | 8.886162 | 0.441412 | 0.687777 | -0.24636 | 3 | 36690229 | R | II | | IGR | opensea | IGR-opense | | rs5350842 | 29;15 |
| cg1657603 | 0.253364 | 0.402697 | 20.40484 | 6.36E-08 | 0.000315 | 8.885879 | 0.276015 | 0.529379 | -0.25336 | 1 | 2.35E+08 | F | II | | IGR | shore | IGR-shore | chr1:2352 | rs1479996 | 1 |
| cg1726353 | 0.229435 | 0.580681 | 20.36525 | 6.46E-08 | 0.000315 | 8.873854 | 0.465963 | 0.695398 | -0.22943 | 8 | 1.46E+08 | F | II | RPL8 | Body | shore | Body-shore | chr8:1460 | rs5711129 | 22;29;36 |
| cg2497191 | 0.220383 | 0.662527 | 20.35779 | 6.48E-08 | 0.000315 | 8.871583 | 0.552335 | 0.772718 | -0.22038 | 15 | 66404837 | F | II | MEGF11 | Body | opensea | Body-opens | | rs5580055 | 4;24 |
| cg2547679 | 0.21132 | 0.692693 | 20.35572 | 6.48E-08 | 0.000315 | 8.870954 | 0.587033 | 0.798354 | -0.21132 | 8 | 1.17E+08 | R | II | TRPS1 | Body | opensea | Body-opens | | rs5720543 | 43 |
| cg0020511 | 0.207489 | 0.392729 | 20.29549 | 6.63E-08 | 0.000315 | 8.85258 | 0.288984 | 0.496473 | -0.20749 | 7 | 86759403 | F | II | | IGR | opensea | IGR-opense | | rs5512664 | 19 |
| cg0317722 | 0.220553 | 0.673069 | 20.28153 | 6.66E-08 | 0.000315 | 8.848308 | 0.562792 | 0.783345 | -0.22055 | 3 | 45117862 | R | II | | IGR | opensea | IGR-opense | | rs5387119 | 21 |
| cg2180951 | 0.217005 | 0.469511 | 20.26728 | 6.69E-08 | 0.000315 | 8.843947 | 0.361008 | 0.578014 | -0.21701 | 14 | 50988575 | R | II | MAP4K5 | Body | opensea | Body-opens | | rs5754857 | 48;38;30;2 |
| cg2399336 | 0.261694 | 0.441304 | 20.24012 | 6.76E-08 | 0.000315 | 8.835617 | 0.310457 | 0.572151 | -0.26169 | 14 | 50086035 | R | II | MGAT2 | TSS1500 | shore | TSS1500-sh | chr14:500 | rs1482780 | 47 |
| cg2764641 | 0.204506 | 0.635994 | 20.21627 | 6.82E-08 | 0.000315 | 8.82829 | 0.533741 | 0.738247 | -0.20451 | 10 | 77501817 | F | II | C10orf11 | Body | opensea | Body-opens | | rs5582380 | 9;27 |
| cg0680141 | 0.237241 | 0.458666 | 20.20941 | 6.84E-08 | 0.000315 | 8.82618 | 0.340046 | 0.577286 | -0.23724 | 5 | 1.46E+08 | F | II | | IGR | shore | IGR-shore | chr5:1457 | rs5438423 | 1 |
| cg2588043 | 0.204706 | 0.409087 | 20.20228 | 6.86E-08 | 0.000315 | 8.823984 | 0.306734 | 0.511441 | -0.20471 | 20 | 52756415 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0912830 | 0.219003 | 0.450278 | 20.19426 | 6.88E-08 | 0.000315 | 8.821514 | 0.340776 | 0.559779 | -0.219 | 2 | 82121644 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1528408 | 0.220104 | 0.476743 | 20.18285 | 6.91E-08 | 0.000315 | 8.817999 | 0.366691 | 0.586795 | -0.2201 | 10 | 77142527 | R | II | | IGR | opensea | IGR-opense | | rs1932891 | 12 |
| cg2592986 | 0.222072 | 0.542619 | 20.16036 | 6.97E-08 | 0.000315 | 8.811061 | 0.431583 | 0.653655 | -0.22207 | 6 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs7762953 | 42 |
| cg0314255 | 0.212815 | 0.458064 | 20.1235 | 7.06E-08 | 0.000315 | 8.799663 | 0.351657 | 0.564472 | -0.21282 | 6 | 82958230 | F | II | IBTK | TSS1500 | shore | TSS1500-sh | chr6:8295 | rs5657838 | 4;16 |
| cg1984635 | 0.231112 | 0.531839 | 20.11734 | 7.08E-08 | 0.000315 | 8.797756 | 0.416283 | 0.647395 | -0.23111 | 11 | 1.2E+08 | R | II | PVRL1 | Body | opensea | Body-opens | | rs5327735 | 1 |
| cg1670459 | 0.204215 | 0.377022 | 20.0808 | 7.17E-08 | 0.000315 | 8.786422 | 0.274914 | 0.47913 | -0.20422 | 20 | 47896769 | R | II | C20orf199 | Body | opensea | Body-opens | chr20:478 | rs1415615 | 49 |
| cg0711014 | 0.238418 | 0.550494 | 20.07187 | 7.2E-08 | 0.000315 | 8.783645 | 0.431285 | 0.669703 | -0.23842 | 5 | 1.42E+08 | F | II | ARHGAP26 | Body | opensea | Body-opens | | rs5776527 | 36 |
| cg1194181 | 0.208606 | 0.452856 | 20.04007 | 7.28E-08 | 0.000315 | 8.773751 | 0.348553 | 0.557159 | -0.20861 | 3 | 1.33E+08 | F | II | TMEM108 | 5'UTR | opensea | 5'UTR-open | | rs5433467 | 0;1 |
| cg0946920 | 0.23143 | 0.429414 | 19.96642 | 7.49E-08 | 0.000315 | 8.750746 | 0.313699 | 0.545129 | -0.23143 | 4 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs5607921 | 30;47 |
| cg0120143 | 0.20883 | 0.489597 | 19.96458 | 7.49E-08 | 0.000315 | 8.750169 | 0.385182 | 0.594012 | -0.20883 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5529253 | 42 |
| cg1674247 | 0.204904 | 0.487924 | 19.92807 | 7.6E-08 | 0.000315 | 8.738717 | 0.385472 | 0.590376 | -0.2049 | 9 | 13900570 | R | II | | IGR | opensea | IGR-opense | | rs5435358 | 47;13;2 |
| cg0543329 | 0.204595 | 0.437932 | 19.92456 | 7.61E-08 | 0.000315 | 8.737614 | 0.335634 | 0.540229 | -0.20459 | 11 | 74814758 | F | II | | IGR | opensea | IGR-opense | | rs5274595 | 2;5 |
| cg0817733 | 0.255491 | 0.610804 | 19.88348 | 7.73E-08 | 0.000315 | 8.724688 | 0.483058 | 0.73855 | -0.25549 | 3 | 98343882 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1411437 | 0.221752 | 0.38474 | 19.87311 | 7.76E-08 | 0.000315 | 8.721418 | 0.273865 | 0.495616 | -0.22175 | 19 | 45756845 | R | II | MARK4 | Body | shore | Body-shore | chr19:457 | | |
| cg1277675 | 0.20068 | 0.42828 | 19.85815 | 7.8E-08 | 0.000315 | 8.716698 | 0.32794 | 0.528621 | -0.20068 | 17 | 45953055 | R | II | | IGR | shelf | IGR-shelf | chr17:459 | rs5580288 | 28;24;19;2 |
| cg0884183 | 0.20785 | 0.573492 | 19.83563 | 7.87E-08 | 0.000315 | 8.709582 | 0.469567 | 0.677417 | -0.20785 | 15 | 39496814 | R | II | | IGR | opensea | IGR-opense | | rs5411017 | 2;1 |
| cg2262456 | 0.212036 | 0.41978 | 19.77664 | 8.04E-08 | 0.000315 | 8.690884 | 0.313761 | 0.525798 | -0.21204 | 20 | 36271857 | F | II | | IGR | opensea | IGR-opense | | rs5594301 | 0;23;27;31 |
| cg0388999 | 0.239173 | 0.547599 | 19.77334 | 8.05E-08 | 0.000315 | 8.689834 | 0.428013 | 0.667186 | -0.23917 | 1 | 1.58E+08 | F | II | FCRL4 | Body | opensea | Body-opens | | rs5325413 | 0;2;16;24;34 |
| cg1269206 | 0.24914 | 0.560722 | 19.6851 | 8.33E-08 | 0.000315 | 8.661709 | 0.436152 | 0.685292 | -0.24914 | 4 | 1.58E+08 | R | II | | IGR | shelf | IGR-shelf | chr4:1578 | rs1484839 | 33;16;12;2 |
| cg0436921 | 0.249681 | 0.569415 | 19.64836 | 8.44E-08 | 0.000315 | 8.649942 | 0.444574 | 0.694256 | -0.24968 | 5 | 1.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs5686674 | 22;20 |
| cg1587459 | 0.21372 | 0.522691 | 19.62797 | 8.51E-08 | 0.000315 | 8.643396 | 0.415831 | 0.629551 | -0.21372 | 16 | 29032168 | R | II | | IGR | opensea | IGR-opense | | rs1454786 | 1 |
| cg1536654 | 0.210893 | 0.505642 | 19.59791 | 8.61E-08 | 0.000316 | 8.633734 | 0.400196 | 0.611089 | -0.21089 | 5 | 91888854 | R | II | | IGR | opensea | IGR-opense | | rs5539390 | 1 |
| cg2582450 | 0.203984 | 0.689048 | 19.5044 | 8.92E-08 | 0.000316 | 8.603527 | 0.587056 | 0.79104 | -0.20398 | 3 | 42701690 | R | II | ZBTB47 | Body | shore | Body-shore | chr3:4270 | rs5702300 | 39;30;2 |
| cg1731254 | 0.250457 | 0.43745 | 19.50192 | 8.93E-08 | 0.000316 | 8.602722 | 0.312222 | 0.562679 | -0.25046 | 7 | 24561256 | F | II | | IGR | opensea | IGR-opense | | rs1844744 | 5;23;28 |
| cg2286683 | 0.227955 | 0.526482 | 19.4412 | 9.14E-08 | 0.000316 | 8.582993 | 0.412505 | 0.64046 | -0.22796 | 1 | 79151451 | F | II | | IGR | opensea | IGR-opense | | rs5566962 | 47;49 |
| cg2641674 | 0.21606 | 0.540833 | 19.42263 | 9.21E-08 | 0.000316 | 8.576942 | 0.432803 | 0.648863 | -0.21606 | 1 | 34093069 | F | II | CSMD2 | Body | shelf | Body-shelf | chr1:3409 | rs5568955 | 1 |
| cg1017933 | 0.231499 | 0.481549 | 19.42097 | 9.21E-08 | 0.000316 | 8.5764 | 0.365799 | 0.597299 | -0.2315 | 6 | 1.64E+08 | F | II | | IGR | opensea | IGR-opense | | rs1464689 | 1;19 |
| cg2632415 | 0.231049 | 0.550168 | 19.29179 | 9.68E-08 | 0.000321 | 8.534063 | 0.434644 | 0.665692 | -0.23105 | 5 | 71490901 | F | II | MAP1B | Body | opensea | Body-opens | | rs5386090 | 0;6;18;47;51 |
| cg2572919 | 0.223656 | 0.489307 | 19.26271 | 9.79E-08 | 0.000321 | 8.524477 | 0.37748 | 0.601135 | -0.22366 | 1 | 17520216 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0715399 | 0.24476 | 0.490579 | 19.23182 | 9.91E-08 | 0.000321 | 8.514267 | 0.3682 | 0.612959 | -0.24476 | 5 | 1.72E+08 | R | II | SH3PXD2B | Body | opensea | Body-opens | | rs5689607 | 38;25;8 |
| cg0582451 | 0.211831 | 0.487434 | 19.17214 | 1.01E-07 | 0.000321 | 8.494482 | 0.381519 | 0.59335 | -0.21183 | 20 | 34482094 | F | II | PHF20 | Body | opensea | Body-opens | | rs1126848 | 5;11 |
| cg0007477 | 0.231969 | 0.516231 | 19.14115 | 1.03E-07 | 0.000321 | 8.484173 | 0.400246 | 0.632216 | -0.23197 | 15 | 44120341 | F | II | WDR76 | Body | shore | Body-shore | chr15:441 | rs5389829 | 1;7;12;13;44;51 |
| cg2204033 | 0.260672 | 0.498809 | 19.13455 | 1.03E-07 | 0.000321 | 8.481973 | 0.368473 | 0.629145 | -0.26067 | 13 | 28680729 | F | II | | IGR | opensea | IGR-opense | | rs5363024 | 0;21 |
| cg2325800 | 0.208987 | 0.565148 | 19.09683 | 1.04E-07 | 0.000321 | 8.469384 | 0.460654 | 0.669642 | -0.20899 | 21 | 26881143 | R | II | | IGR | opensea | IGR-opense | | rs1898105 | 39 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2312263 | 0.220806 | 0.521513 | 19.09082 | 1.05E-07 | 0.000321 | 8.467376 | 0.411111 | 0.631916 | -0.22081 | 7 | 73311043 | R | II | | IGR | opensea | IGR-opense | | rs1889213 | 29;2;1 |
| cg1468646 | 0.228226 | 0.651849 | 19.05202 | 1.06E-07 | 0.000321 | 8.454385 | 0.537736 | 0.765962 | -0.22823 | 2 | 1.45E+08 | R | II | | IGR | opensea | IGR-opense | | rs1928175 | 43 |
| cg0369528 | 0.236065 | 0.5435 | 19.02905 | 1.07E-07 | 0.000321 | 8.446675 | 0.425468 | 0.661533 | -0.23607 | 6 | 1.51E+08 | R | II | PPP1R14C | Body | opensea | Body-opens | | rs1889836 | 47;36;2 |
| cg1186211 | 0.205745 | 0.505262 | 19.02878 | 1.07E-07 | 0.000321 | 8.446585 | 0.402389 | 0.608134 | -0.20575 | 3 | 13579659 | F | II | | IGR | opensea | IGR-opense | | rs5435268 | 37 |
| cg1493729 | 0.212467 | 0.412849 | 18.99529 | 1.09E-07 | 0.000321 | 8.435321 | 0.306615 | 0.519082 | -0.21247 | 1 | 1.78E+08 | R | II | SEC16B | Body | opensea | Body-opens | | rs1996610 | 45 |
| cg2733980 | 0.20127 | 0.417283 | 18.96383 | 1.1E-07 | 0.000321 | 8.424715 | 0.316647 | 0.517918 | -0.20127 | 10 | 72689218 | R | II | | IGR | opensea | IGR-opense | | rs5717430 | 46;41;39;14 |
| cg1686562 | 0.212972 | 0.423868 | 18.94245 | 1.11E-07 | 0.000321 | 8.417493 | 0.317382 | 0.530354 | -0.21297 | 8 | 65758840 | F | II | | IGR | opensea | IGR-opense | | rs5324719 | 0;25 |
| cg2217691 | 0.202197 | 0.663721 | 18.88817 | 1.13E-07 | 0.000321 | 8.399105 | 0.562623 | 0.76482 | -0.2022 | 11 | 11258914 | R | II | | IGR | opensea | IGR-opense | | rs5756749 | 4 |
| cg2382148 | 0.238868 | 0.623001 | 18.87649 | 1.14E-07 | 0.000321 | 8.395136 | 0.503568 | 0.742435 | -0.23887 | 2 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs1160506 | 15 |
| cg0348902 | 0.21411 | 0.512086 | 18.8565 | 1.15E-07 | 0.000321 | 8.388338 | 0.405031 | 0.619141 | -0.21411 | 3 | 69819855 | F | II | MITF | Body | opensea | Body-opens | | | |
| cg1512349 | 0.205456 | 0.496299 | 18.85393 | 1.15E-07 | 0.000321 | 8.387464 | 0.393571 | 0.599027 | -0.20546 | 10 | 636241 | R | II | DIP2C | Body | opensea | Body-opens | | rs5615380 | 25;12;2 |
| cg2257207 | 0.218652 | 0.458268 | 18.79816 | 1.18E-07 | 0.000321 | 8.368443 | 0.348942 | 0.567594 | -0.21865 | 6 | 47074382 | R | II | | IGR | opensea | IGR-opense | | rs1143630 | 38;31;11 |
| cg1402406 | 0.213119 | 0.438942 | 18.79666 | 1.18E-07 | 0.000321 | 8.36793 | 0.332382 | 0.545502 | -0.21312 | 7 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs5367369 | 49;37;30;1 |
| cg0180551 | 0.216218 | 0.543072 | 18.79311 | 1.18E-07 | 0.000321 | 8.366715 | 0.434963 | 0.651181 | -0.21622 | 11 | 1.03E+08 | F | II | MMP12 | TSS1500 | opensea | TSS1500-op | | rs1835895 | 0 |
| cg0311612 | 0.221243 | 0.404709 | 18.76288 | 1.19E-07 | 0.000321 | 8.356368 | 0.294088 | 0.515331 | -0.22124 | 1 | 2.31E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:23125 | | |
| cg2725433 | 0.204105 | 0.488979 | 18.75465 | 1.2E-07 | 0.000321 | 8.353546 | 0.386927 | 0.591032 | -0.20411 | 17 | 34192710 | F | II | C17orf66 | Body | opensea | Body-opens | | rs1510993 | 40 |
| cg0435190 | 0.218363 | 0.641584 | 18.743 | 1.2E-07 | 0.000321 | 8.349548 | 0.532403 | 0.750766 | -0.21836 | 21 | 34441330 | R | II | OLIG1 | TSS1500 | shore | TSS1500-sh | chr21:344 | rs5614059 | 17 |
| cg0179332 | 0.228594 | 0.434422 | 18.73179 | 1.21E-07 | 0.000321 | 8.345702 | 0.320125 | 0.548719 | -0.22859 | 8 | 20030779 | R | II | SLC18A1 | Body | opensea | Body-opens | | rs5531937 | 48;41;36;2;1 |
| cg2167528 | 0.212202 | 0.55155 | 18.72482 | 1.21E-07 | 0.000321 | 8.343306 | 0.445448 | 0.657651 | -0.2122 | 17 | 53392259 | F | II | HLF | Body | opensea | Body-opens | | rs7767993 | 17 |
| cg2481946 | 0.207555 | 0.501534 | 18.71143 | 1.22E-07 | 0.000321 | 8.338701 | 0.397757 | 0.605312 | -0.20755 | 1 | 28613551 | R | II | | IGR | opensea | IGR-opense | | rs5580070 | 33;26;24;21 |
| cg0554726 | 0.213227 | 0.611346 | 18.6946 | 1.22E-07 | 0.000321 | 8.332908 | 0.504733 | 0.71796 | -0.21323 | 6 | 43611905 | F | II | RSPH9 | TSS1500 | shore | TSS1500-sh | chr6:43611 | rs5531703 | 43 |
| cg1911996 | 0.217232 | 0.584892 | 18.6892 | 1.23E-07 | 0.000321 | 8.331045 | 0.476276 | 0.693508 | -0.21723 | 1 | 2.37E+08 | F | II | RYR2 | Body | opensea | Body-opens | | rs5493028 | 0;1;35;46;47 |
| cg0915607 | 0.233461 | 0.500243 | 18.68493 | 1.23E-07 | 0.000321 | 8.329574 | 0.383513 | 0.616974 | -0.23346 | 5 | 6491550 | F | II | UBE2QL1 | 3'UTR | opensea | 3'UTR-open | | rs5594770 | 10 |
| cg0499485 | 0.20448 | 0.500025 | 18.66747 | 1.24E-07 | 0.000321 | 8.323549 | 0.397784 | 0.602265 | -0.20448 | 12 | 26707553 | R | II | ITPR2 | Body | opensea | Body-opens | | | |
| cg0244800 | 0.200445 | 0.616806 | 18.65807 | 1.24E-07 | 0.000321 | 8.320305 | 0.516584 | 0.717028 | -0.20044 | 9 | 4980116 | F | II | | IGR | opensea | IGR-opense | | rs1477406 | 0;1;16 |
| cg0269712 | 0.205623 | 0.407375 | 18.65541 | 1.24E-07 | 0.000321 | 8.319386 | 0.304563 | 0.510187 | -0.20562 | 2 | 64628677 | R | II | | IGR | opensea | IGR-opense | | rs3747222 | 2 |
| cg0124900 | 0.244549 | 0.593314 | 18.65412 | 1.24E-07 | 0.000321 | 8.318939 | 0.47104 | 0.715589 | -0.24455 | 6 | 1.45E+08 | R | II | UTRN | Body | opensea | Body-opens | | rs5722049 | 24;18 |
| cg2593700 | 0.230017 | 0.503602 | 18.65272 | 1.25E-07 | 0.000321 | 8.318455 | 0.388594 | 0.618611 | -0.23002 | 3 | 72309147 | F | II | | IGR | opensea | IGR-opense | | rs5631104 | 0;17 |
| cg0463974 | 0.233174 | 0.530217 | 18.64601 | 1.25E-07 | 0.000321 | 8.316138 | 0.41363 | 0.646804 | -0.23317 | 3 | 63937019 | F | II | ATXN7 | Body | opensea | Body-opens | | rs5665176 | 1 |
| cg1334023 | 0.262519 | 0.583872 | 18.5907 | 1.28E-07 | 0.000322 | 8.296973 | 0.452613 | 0.715131 | -0.26252 | 8 | 81549775 | R | II | | IGR | opensea | IGR-opense | | rs5395290 | 2 |
| cg0223407 | 0.232513 | 0.539299 | 18.57051 | 1.29E-07 | 0.000322 | 8.289954 | 0.423043 | 0.655556 | -0.23251 | 5 | 67444023 | R | II | | IGR | opensea | IGR-opense | | rs7312452 | 44;23 |
| cg0357819 | 0.281307 | 0.495454 | 18.54594 | 1.3E-07 | 0.000322 | 8.281402 | 0.354801 | 0.636108 | -0.28131 | 2 | 63671845 | F | II | C2orf86 | Body | opensea | Body-opens | | rs1121230 | 0;41 |
| cg1387684 | 0.208118 | 0.465058 | 18.52542 | 1.31E-07 | 0.000322 | 8.274247 | 0.360999 | 0.569117 | -0.20812 | 3 | 84885990 | R | II | | IGR | opensea | IGR-opense | | rs1483863 | 50;1 |
| cg0196358 | 0.207714 | 0.487335 | 18.51264 | 1.32E-07 | 0.000322 | 8.269784 | 0.383477 | 0.591192 | -0.20771 | 14 | 46389644 | F | II | | IGR | opensea | IGR-opense | | rs1435248 | 17;24 |
| cg0671774 | 0.237591 | 0.555273 | 18.49843 | 1.33E-07 | 0.000322 | 8.264821 | 0.436478 | 0.674069 | -0.23759 | 8 | 23626859 | F | II | | IGR | opensea | IGR-opense | | rs5431190 | 0;1;4;46 |
| cg0075740 | 0.211744 | 0.501244 | 18.46002 | 1.35E-07 | 0.000323 | 8.251369 | 0.395372 | 0.607117 | -0.21174 | 1 | 45050279 | F | II | RNF220 | Body | opensea | Body-opens | | rs7407053 | 9;48 |
| cg1653280 | 0.256283 | 0.523241 | 18.42268 | 1.37E-07 | 0.000323 | 8.238256 | 0.395099 | 0.651382 | -0.25628 | 1 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | | rs5756363 | 34;10 |
| cg0653055 | 0.263095 | 0.525971 | 18.40892 | 1.37E-07 | 0.000323 | 8.233414 | 0.394424 | 0.657519 | -0.2631 | 15 | 54304778 | F | II | UNC13C | TSS1500 | opensea | TSS1500-op | | rs1861455 | 0 |
| cg0434159 | 0.236313 | 0.572561 | 18.38756 | 1.39E-07 | 0.000324 | 8.225887 | 0.454405 | 0.690717 | -0.23631 | 5 | 54357769 | R | II | | IGR | opensea | IGR-opense | | rs1335719 | 36;31 |
| cg2119473 | 0.214033 | 0.563871 | 18.38656 | 1.39E-07 | 0.000324 | 8.225532 | 0.456854 | 0.670887 | -0.21403 | 20 | 48616106 | F | II | | IGR | opensea | IGR-opense | | rs5590824 | 9;32 |
| cg2335253 | 0.221479 | 0.444284 | 18.34896 | 1.41E-07 | 0.000325 | 8.212254 | 0.333544 | 0.555024 | -0.22148 | 10 | 98136448 | F | II | TLL2 | ExonBnd | opensea | ExonBnd-op | | rs1837512 | 26 |
| cg1636809 | 0.21146 | 0.656139 | 18.30141 | 1.44E-07 | 0.000326 | 8.195405 | 0.550409 | 0.761868 | -0.21146 | 7 | 7156638 | F | II | | IGR | opensea | IGR-opense | | rs5737730 | 1 |
| cg2104334 | 0.244703 | 0.552824 | 18.27734 | 1.45E-07 | 0.000326 | 8.186852 | 0.430473 | 0.675176 | -0.2447 | 14 | 22247521 | F | II | | IGR | opensea | IGR-opense | | rs1455863 | 1;4;6;40 |
| cg2285719 | 0.20605 | 0.607308 | 18.2772 | 1.45E-07 | 0.000326 | 8.186803 | 0.504283 | 0.710333 | -0.20605 | 4 | 1.42E+08 | F | II | | IGR | opensea | IGR-opense | | rs5387319 | 1;48 |
| cg1982035 | 0.208312 | 0.609983 | 18.27246 | 1.45E-07 | 0.000326 | 8.185116 | 0.505827 | 0.714138 | -0.20831 | 11 | 68921264 | F | II | LOC33869 | Body | shelf | Body-shelf | chr11:689 | | |
| cg0126496 | 0.244578 | 0.47875 | 18.26696 | 1.46E-07 | 0.000326 | 8.183161 | 0.356461 | 0.601039 | -0.24458 | 11 | 1.24E+08 | F | II | OR10G4 | TSS1500 | opensea | TSS1500-op | | rs1410213 | 1;20;26;31;38 |
| cg0216970 | 0.21953 | 0.508541 | 18.22181 | 1.48E-07 | 0.000326 | 8.167062 | 0.398776 | 0.618306 | -0.21953 | 8 | 1.08E+08 | F | II | OXR1 | Body | opensea | Body-opens | | rs5388069 | 0;1;30 |
| cg0533738 | 0.233244 | 0.519963 | 18.22138 | 1.48E-07 | 0.000326 | 8.166907 | 0.403341 | 0.636585 | -0.23324 | 7 | 1.17E+08 | F | II | ST7 | Body | opensea | Body-opens | | | |
| cg0205947 | 0.229021 | 0.54884 | 18.20588 | 1.49E-07 | 0.000326 | 8.161368 | 0.434329 | 0.663351 | -0.22902 | 1 | 68080498 | F | II | | IGR | opensea | IGR-opense | | rs1116740 | 0;33;35 |
| cg0770051 | 0.203021 | 0.561466 | 18.19065 | 1.5E-07 | 0.000326 | 8.15592 | 0.459955 | 0.662976 | -0.20302 | 16 | 80603469 | R | II | LINC01227 | Body | opensea | Body-opens | | rs5295520 | 51;48;43;1 |
| cg1624718 | 0.22858 | 0.491218 | 18.16183 | 1.52E-07 | 0.000326 | 8.145589 | 0.376928 | 0.605508 | -0.22858 | 17 | 63822421 | R | II | CCDC46 | Body | opensea | Body-opens | | rs1999385 | 45;39;29;1 |
| cg0129650 | 0.212912 | 0.606301 | 18.15956 | 1.52E-07 | 0.000326 | 8.144773 | 0.499845 | 0.712757 | -0.21291 | 10 | 60627901 | R | II | | IGR | opensea | IGR-opense | | rs7524255 | 29;22;16 |
| cg2093931 | 0.2031 | 0.534038 | 18.15522 | 1.52E-07 | 0.000326 | 8.143217 | 0.432488 | 0.635587 | -0.2031 | 8 | 30707701 | R | II | TEX15 | TSS1500 | opensea | TSS1500-op | | rs5422197 | 2 |
| cg0417148 | 0.229933 | 0.593397 | 18.1497 | 1.53E-07 | 0.000326 | 8.141235 | 0.478431 | 0.708364 | -0.22993 | 4 | 1.26E+08 | F | II | FAT4 | Body | opensea | Body-opens | | rs5443897 | 0;15;32 |
| cg1672955 | 0.247515 | 0.519716 | 18.12414 | 1.54E-07 | 0.000326 | 8.132047 | 0.395959 | 0.643474 | -0.24752 | 1 | 2.07E+08 | R | II | FCAMR | 5'UTR | opensea | 5'UTR-open | | rs1510587 | 31;21;2 |
| cg2575734 | 0.210953 | 0.405043 | 18.10684 | 1.55E-07 | 0.000326 | 8.125816 | 0.299567 | 0.51052 | -0.21095 | 5 | 1.71E+08 | F | II | | IGR | opensea | IGR-opense | | rs1921510 | 20;38 |
| cg2362101 | 0.20494 | 0.422973 | 18.08972 | 1.57E-07 | 0.000326 | 8.119642 | 0.320503 | 0.525443 | -0.20494 | 7 | 1.35E+08 | F | II | FAM180A | 1stExon | opensea | 1stExon-op | | rs5441890 | 18;21;25;34 |
| cg1123565 | 0.221728 | 0.460525 | 18.05507 | 1.59E-07 | 0.000326 | 8.107126 | 0.349661 | 0.571389 | -0.22173 | 8 | 48525248 | F | II | SPIDR | Body | opensea | Body-opens | | rs1812416 | 0;1;42 |
| cg1416439 | 0.25098 | 0.488072 | 18.02267 | 1.61E-07 | 0.000326 | 8.095387 | 0.362582 | 0.613563 | -0.25098 | 17 | 28707127 | R | II | CPD | TSS1500 | shore | TSS1500-sh | chr17:287 | rs5644120 | 7 |
| cg0151071 | 0.225472 | 0.600152 | 18.00987 | 1.62E-07 | 0.000326 | 8.090744 | 0.487416 | 0.712888 | -0.22547 | 15 | 66065837 | F | II | DENND4A | 5'UTR | opensea | 5'UTR-open | | rs1874112 | 37 |
| cg1738166 | 0.24447 | 0.56075 | 17.99946 | 1.63E-07 | 0.000326 | 8.086962 | 0.438515 | 0.682985 | -0.24447 | 4 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs1432030 | 1 |
| cg2652874 | 0.236491 | 0.501748 | 17.99766 | 1.63E-07 | 0.000326 | 8.086309 | 0.383503 | 0.619994 | -0.23649 | 10 | 75240045 | R | II | PPP3CB | 5'UTR | opensea | 5'UTR-open | | rs5349954 | 44;38 |
| cg0111875 | 0.223429 | 0.681114 | 17.98609 | 1.63E-07 | 0.000326 | 8.082104 | 0.569399 | 0.792829 | -0.22343 | 3 | 31771462 | F | II | OSBPL10 | Body | opensea | Body-opens | | rs1414950 | 16 |
| cg0514799 | 0.232838 | 0.507212 | 17.95093 | 1.66E-07 | 0.000326 | 8.069298 | 0.390792 | 0.623631 | -0.23284 | 5 | 72982878 | F | II | ARHGEF28 | Body | opensea | Body-opens | | rs1925181 | 40 |
| cg1597360 | 0.264854 | 0.49665 | 17.94833 | 1.66E-07 | 0.000326 | 8.068349 | 0.364223 | 0.629077 | -0.26485 | 5 | 96159726 | F | II | | IGR | opensea | IGR-opense | | rs5397084 | 0;48 |
| cg0470860 | 0.207374 | 0.405925 | 17.9253 | 1.68E-07 | 0.000326 | 8.05994 | 0.302238 | 0.509612 | -0.20737 | 6 | 1.02E+08 | R | II | GRIK2 | Body | opensea | Body-opens | | rs1135159 | 15;2;1 |
| cg1964077 | 0.211666 | 0.435661 | 17.91071 | 1.69E-07 | 0.000326 | 8.054606 | 0.329828 | 0.541493 | -0.21167 | 5 | 1.34E+08 | R | II | C5orf66 | 5'UTR | opensea | 5'UTR-open | | rs5580335 | 31 |
| cg1253170 | 0.264609 | 0.548847 | 17.90927 | 1.69E-07 | 0.000326 | 8.05408 | 0.416542 | 0.681151 | -0.26461 | 5 | 33834545 | F | II | ADAMTS12 | Body | opensea | Body-opens | | rs1415835 | 0;1;3 |
| cg2178416 | 0.236353 | 0.490417 | 17.86534 | 1.72E-07 | 0.000327 | 8.03798 | 0.372241 | 0.608593 | -0.23635 | 14 | 65651398 | R | II | | IGR | opensea | IGR-opense | | rs5378659 | 50 |
| cg0361394 | 0.273522 | 0.450903 | 17.83621 | 1.74E-07 | 0.000327 | 8.027274 | 0.314142 | 0.587665 | -0.27352 | 5 | 86416413 | F | II | | IGR | opensea | IGR-opense | | rs5349473 | 43 |
| cg1618538 | 0.230183 | 0.567378 | 17.82682 | 1.75E-07 | 0.000327 | 8.023816 | 0.452287 | 0.68247 | -0.23018 | 13 | 29077350 | F | II | | IGR | opensea | IGR-opense | | rs5431271 | 1 |
| cg1015559 | 0.211743 | 0.568357 | 17.82251 | 1.75E-07 | 0.000327 | 8.022231 | 0.462486 | 0.674228 | -0.21174 | 18 | 10423983 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0822750 | 0.249642 | 0.592145 | 17.81166 | 1.76E-07 | 0.000327 | 8.018232 | 0.467324 | 0.716967 | -0.24964 | 20 | 5743288 | R | II | C20orf196 | 5'UTR | opensea | 5'UTR-open | | rs1814599 | 17;2;1 |
| cg2588209 | 0.264262 | 0.611212 | 17.79673 | 1.77E-07 | 0.000327 | 8.012727 | 0.479081 | 0.743343 | -0.26426 | 20 | 62347673 | F | II | ZGPAT | Body | opensea | Body-opens | | rs5726000 | 1;42 |
| cg1219263 | 0.204455 | 0.517315 | 17.76918 | 1.79E-07 | 0.000327 | 8.002546 | 0.415087 | 0.619542 | -0.20445 | 10 | 1.13E+08 | F | II | RBM20 | Body | opensea | Body-opens | | rs1887319 | 1;8;9;19 |
| cg0534652 | 0.202019 | 0.689084 | 17.72968 | 1.82E-07 | 0.000327 | 7.987913 | 0.588075 | 0.790094 | -0.20202 | 17 | 48542522 | R | II | ACSF2 | Body | shelf | Body-shelf | chr17:485 | rs1844384 | 32;25 |
| cg0769654 | 0.214817 | 0.546241 | 17.72888 | 1.82E-07 | 0.000327 | 7.987619 | 0.438833 | 0.653649 | -0.21482 | 1 | 2.01E+08 | R | II | PKP1 | 3'UTR | opensea | 3'UTR-open | | rs1507578 | 1 |
| cg0787921 | 0.246048 | 0.599209 | 17.7267 | 1.82E-07 | 0.000327 | 7.986809 | 0.476185 | 0.722233 | -0.24605 | 14 | 63749933 | F | II | RHOJ | ExonBnd | opensea | ExonBnd-op | | rs5396262 | 16;21;22 |
| cg1576412 | 0.223224 | 0.634484 | 17.71371 | 1.83E-07 | 0.000327 | 7.981985 | 0.522872 | 0.746097 | -0.22322 | 4 | 1.07E+08 | R | II | GIMD1 | Body | opensea | Body-opens | | rs1383325 | 2 |
| cg0081838 | 0.210959 | 0.530047 | 17.70452 | 1.84E-07 | 0.000327 | 7.978569 | 0.424568 | 0.635527 | -0.21096 | 5 | 33009006 | R | II | | IGR | opensea | IGR-opense | | rs1851311 | 31;29;2 |
| cg0558271 | 0.206066 | 0.543153 | 17.70379 | 1.84E-07 | 0.000327 | 7.9783 | 0.440121 | 0.646186 | -0.20607 | 6 | 73043502 | F | II | RIMS1 | Body | opensea | Body-opens | | | |
| cg0051878 | 0.208446 | 0.594564 | 17.69204 | 1.85E-07 | 0.000327 | 7.97393 | 0.490341 | 0.698786 | -0.20845 | 1 | 48912593 | R | II | SPATA6 | Body | opensea | Body-opens | | rs7267934 | 47;32 |
| cg0726007 | 0.249133 | 0.470708 | 17.68757 | 1.85E-07 | 0.000327 | 7.972264 | 0.346141 | 0.595274 | -0.24913 | 19 | 45519636 | F | II | RELB | Body | opensea | Body-opens | | rs5424179 | 0 |
| cg1038052 | 0.222001 | 0.5211 | 17.68476 | 1.85E-07 | 0.000327 | 7.971219 | 0.4101 | 0.632101 | -0.222 | 10 | 1.08E+08 | R | II | SORCS1 | Body | opensea | Body-opens | | rs1379283 | 51;37;27;11 |
| cg1790500 | 0.210149 | 0.41964 | 17.67643 | 1.86E-07 | 0.000327 | 7.968117 | 0.314566 | 0.524714 | -0.21015 | 7 | 83690400 | R | II | SEMA3A | Body | opensea | Body-opens | | rs5315737 | 18;2 |
| cg1569329 | 0.217586 | 0.458799 | 17.67566 | 1.86E-07 | 0.000327 | 7.96783 | 0.350006 | 0.567592 | -0.21759 | 12 | 7916371 | F | II | LOC36003 | TSS1500 | opensea | TSS1500-op | | | |
| cg1354650 | 0.297591 | 0.528757 | 17.65684 | 1.88E-07 | 0.000327 | 7.960815 | 0.379962 | 0.677552 | -0.29759 | 14 | 78864773 | R | II | NRXN3 | Body | opensea | Body-opens | | rs5640816 | 2;1 |
| cg1497441 | 0.213672 | 0.517331 | 17.62163 | 1.9E-07 | 0.000327 | 7.947657 | 0.410495 | 0.624167 | -0.21367 | 3 | 24393915 | F | II | THRB | 5'UTR | opensea | 5'UTR-open | | | |
| cg1386835 | 0.230203 | 0.529253 | 17.61599 | 1.91E-07 | 0.000327 | 7.945545 | 0.414152 | 0.644354 | -0.2302 | 9 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0846848 | 0.210434 | 0.416121 | 17.60798 | 1.91E-07 | 0.000327 | 7.942548 | 0.310905 | 0.521338 | -0.21043 | 11 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs1823188 | 16;38 |
| cg1126754 | 0.212508 | 0.628454 | 17.59221 | 1.93E-07 | 0.000327 | 7.936639 | 0.5222 | 0.734708 | -0.21251 | 7 | 27167828 | F | II | HOXA3 | TSS1500 | shore | TSS1500-sh | chr7:2716 | rs1859162 | 27 |
| cg2460606 | 0.207774 | 0.447831 | 17.54669 | 1.97E-07 | 0.000327 | 7.91954 | 0.343944 | 0.551718 | -0.20777 | 17 | 44968863 | F | II | | IGR | opensea | IGR-opense | | rs5666404 | 28;37;42;43;44 |
| cg0900860 | 0.230016 | 0.518313 | 17.53022 | 1.98E-07 | 0.000327 | 7.913336 | 0.403305 | 0.633321 | -0.23002 | 18 | 61814247 | R | II | LINC00305 | Body | opensea | Body-opens | | | |
| cg1993179 | 0.213028 | 0.587379 | 17.52771 | 1.98E-07 | 0.000327 | 7.912391 | 0.480865 | 0.693893 | -0.21303 | 4 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs5324762 | 0;21 |
| cg0311192 | 0.234087 | 0.515764 | 17.5265 | 1.98E-07 | 0.000327 | 7.911932 | 0.398721 | 0.632807 | -0.23409 | 1 | 1.75E+08 | F | II | RABGAP1L | Body | opensea | Body-opens | | rs5559814 | 0 |
| cg0652974 | 0.215701 | 0.521282 | 17.51967 | 1.99E-07 | 0.000327 | 7.90936 | 0.413432 | 0.629133 | -0.2157 | 1 | 1.84E+08 | R | II | RGL1 | Body | opensea | Body-opens | | rs5568437 | 42;34;2 |
| cg1241986 | 0.20048 | 0.414226 | 17.51738 | 1.99E-07 | 0.000327 | 7.908494 | 0.313986 | 0.514466 | -0.20048 | 5 | 31800978 | F | II | PDZD2 | Body | opensea | Body-opens | | rs5755980 | 9;44 |
| cg0588129 | 0.230321 | 0.486509 | 17.50619 | 2E-07 | 0.000327 | 7.904271 | 0.371348 | 0.601669 | -0.23032 | 6 | 38322959 | F | II | BTBD9 | Body | opensea | Body-opens | | rs1853913 | 0 |
| cg2407122 | 0.240582 | 0.540094 | 17.50382 | 2E-07 | 0.000327 | 7.903377 | 0.419803 | 0.660385 | -0.24058 | 1 | 29300664 | F | II | EPB41 | 5'UTR | opensea | 5'UTR-open | | rs5541785 | 10 |
| cg0201891 | 0.210522 | 0.663783 | 17.50285 | 2E-07 | 0.000327 | 7.903012 | 0.558521 | 0.769044 | -0.21052 | 6 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs1873534 | 49;14 |
| cg0889672 | 0.228232 | 0.52364 | 17.44477 | 2.05E-07 | 0.000331 | 7.881027 | 0.409524 | 0.637756 | -0.22823 | 11 | 19975201 | R | II | NAV2 | Body | opensea | Body-opens | | rs2585777 | 10;2 |
| cg0413161 | 0.224241 | 0.518256 | 17.44348 | 2.05E-07 | 0.000331 | 7.880538 | 0.406136 | 0.630376 | -0.22424 | 3 | 46411447 | R | II | CCR5 | TSS200 | opensea | TSS200-ope | | rs5295473 | 41;17 |
| cg0447285 | 0.202847 | 0.492959 | 17.39554 | 2.1E-07 | 0.000331 | 7.86232 | 0.391536 | 0.594382 | -0.20285 | 12 | 59197803 | R | II | LOC10050 | Body | opensea | Body-opens | | rs1436813 | 0 |
| cg1669604 | 0.237587 | 0.507349 | 17.3934 | 2.1E-07 | 0.000331 | 7.861503 | 0.388555 | 0.626142 | -0.23759 | 7 | 1.31E+08 | R | II | LINC-PINT | Body | opensea | Body-opens | | | |
| cg1187671 | 0.208856 | 0.431205 | 17.36374 | 2.12E-07 | 0.000334 | 7.850192 | 0.326777 | 0.535633 | -0.20886 | 11 | 32197287 | R | II | | IGR | opensea | IGR-opense | | rs1845185 | 47;13 |
| cg1512086 | 0.202472 | 0.377972 | 17.34829 | 2.14E-07 | 0.000335 | 7.84429 | 0.276736 | 0.479208 | -0.20247 | 2 | 2.39E+08 | F | II | RBM44 | Body | opensea | Body-opens | | rs5297306 | 14 |
| cg1256927 | 0.201422 | 0.420729 | 17.34289 | 2.14E-07 | 0.000335 | 7.842228 | 0.320018 | 0.52144 | -0.20142 | 4 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs1812003 | 0;26;34 |
| cg1194507 | 0.225503 | 0.499007 | 17.31321 | 2.17E-07 | 0.000336 | 7.830864 | 0.386255 | 0.611759 | -0.2255 | 6 | 56609630 | R | II | RNU6-71P | Body | opensea | Body-opens | | rs5426476 | 48;2 |
| cg2410572 | 0.233038 | 0.612875 | 17.29259 | 2.19E-07 | 0.000336 | 7.822954 | 0.496356 | 0.729394 | -0.23304 | 6 | 13007033 | R | II | PHACTR1 | Body | opensea | Body-opens | | | |
| cg2629692 | 0.225149 | 0.491619 | 17.26733 | 2.21E-07 | 0.000337 | 7.813248 | 0.379044 | 0.604193 | -0.22515 | 6 | 1.25E+08 | F | II | RNF217 | Body | opensea | Body-opens | | rs1504164 | 7;44 |
| cg0456508 | 0.278699 | 0.464068 | 17.24782 | 2.23E-07 | 0.000337 | 7.805736 | 0.324718 | 0.603417 | -0.2787 | 18 | 19184921 | F | II | | IGR | shelf | IGR-shelf | chr18:191 | | |
| cg1707548 | 0.211453 | 0.472152 | 17.23837 | 2.24E-07 | 0.000337 | 7.802093 | 0.366426 | 0.577879 | -0.21145 | 11 | 68923332 | F | II | LOC33869 | Body | shore | Body-shore | chr11:689 | rs1158705 | 17 |
| cg0508452 | 0.269034 | 0.503883 | 17.23289 | 2.25E-07 | 0.000337 | 7.799981 | 0.369366 | 0.638399 | -0.26903 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5546598 | 1 |
| cg2297339 | 0.22218 | 0.629901 | 17.23132 | 2.25E-07 | 0.000337 | 7.799378 | 0.518811 | 0.740991 | -0.22218 | 21 | 35125405 | F | II | ITSN1 | Body | opensea | Body-opens | | rs5497729 | 1;2;21;48 |
| cg1581531 | 0.212289 | 0.519329 | 17.204 | 2.28E-07 | 0.000337 | 7.788826 | 0.413185 | 0.625474 | -0.21229 | 14 | 60195269 | R | II | RTN1 | Body | shore | Body-shore | chr14:601 | rs5424686 | 2 |
| cg2540057 | 0.213135 | 0.495189 | 17.2006 | 2.28E-07 | 0.000337 | 7.787511 | 0.388622 | 0.601757 | -0.21314 | 2 | 65804139 | R | II | | IGR | opensea | IGR-opense | | rs5575694 | 35;1 |
| cg2158530 | 0.217066 | 0.542574 | 17.18245 | 2.3E-07 | 0.000337 | 7.78049 | 0.434041 | 0.651107 | -0.21707 | 3 | 1.33E+08 | F | II | TF | Body | opensea | Body-opens | | rs1892518 | 1 |
| cg2216166 | 0.23561 | 0.412557 | 17.14619 | 2.33E-07 | 0.000337 | 7.766426 | 0.294752 | 0.530363 | -0.23561 | 16 | 49709752 | F | II | ZNF423 | Body | opensea | Body-opens | | rs5274302 | 38 |
| cg1494629 | 0.253259 | 0.532763 | 17.14425 | 2.34E-07 | 0.000337 | 7.765673 | 0.406133 | 0.659392 | -0.25326 | 18 | 74701280 | F | II | MBP | Body | opensea | Body-opens | | rs5632901 | 11;49 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0434647 | 0.203123 | 0.45472 | 17.12357 | 2.36E-07 | 0.000337 | 7.757635 | 0.353159 | 0.556282 | -0.20312 | 1 | 21958989 | F | II | RAP1GAP | Body | opensea | Body-opens | | rs1882229 | 19;21;26;28 |
| cg1568874 | 0.20934 | 0.481512 | 17.12263 | 2.36E-07 | 0.000337 | 7.75727 | 0.376842 | 0.586182 | -0.20934 | 10 | 78188497 | R | II | C10orf11 | Body | opensea | Body-opens | | | |
| cg0641082 | 0.261347 | 0.64365 | 17.11653 | 2.36E-07 | 0.000337 | 7.754896 | 0.512977 | 0.774324 | -0.26135 | 18 | 74701492 | R | II | MBP | Body | opensea | Body-opens | | | |
| cg0370971 | 0.205443 | 0.561079 | 17.1113 | 2.37E-07 | 0.000337 | 7.752859 | 0.458357 | 0.6638 | -0.20544 | 3 | 1.34E+08 | F | II | | IGR | opensea | IGR-opense | | rs7896191 | 1;25 |
| cg2087293 | 0.21449 | 0.482443 | 17.11033 | 2.37E-07 | 0.000337 | 7.752481 | 0.375198 | 0.589688 | -0.21449 | 21 | 40259397 | F | II | LOC40086 | Body | opensea | Body-opens | | rs5583001 | 1;5 |
| cg2077878 | 0.214648 | 0.640246 | 17.10179 | 2.38E-07 | 0.000337 | 7.749154 | 0.532922 | 0.74757 | -0.21465 | 1 | 1.98E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2690455 | 0.245427 | 0.622829 | 17.0865 | 2.4E-07 | 0.000337 | 7.743191 | 0.500115 | 0.745543 | -0.24543 | 2 | 10587170 | F | II | ODC1 | 5'UTR | shore | 5'UTR-shor | chr2:10587 | | |
| cg1842362 | 0.208248 | 0.535345 | 17.0803 | 2.4E-07 | 0.000337 | 7.740771 | 0.431221 | 0.639469 | -0.20825 | 13 | 47994694 | R | II | | IGR | opensea | IGR-opense | | rs7318036 | 40;7;2 |
| cg0690521 | 0.210068 | 0.578566 | 17.06811 | 2.41E-07 | 0.000337 | 7.73601 | 0.473532 | 0.6836 | -0.21007 | 2 | 1.28E+08 | F | II | MYO7B | 5'UTR | opensea | 5'UTR-open | | rs1810168 | 0;5;19;41 |
| cg0752962 | 0.210717 | 0.562993 | 17.05696 | 2.43E-07 | 0.000337 | 7.73165 | 0.457634 | 0.668352 | -0.21072 | 8 | 1.31E+08 | F | II | CCDC26 | Body | opensea | Body-opens | | rs1829455 | 0;2;19 |
| cg1015420 | 0.223393 | 0.629529 | 17.04856 | 2.44E-07 | 0.000337 | 7.728365 | 0.517832 | 0.741226 | -0.22339 | 11 | 39883276 | R | II | | IGR | opensea | IGR-opense | | rs1148801 | 1 |
| cg2764110 | 0.207479 | 0.585474 | 17.04679 | 2.44E-07 | 0.000337 | 7.727673 | 0.481734 | 0.689214 | -0.20748 | 2 | 2.19E+08 | R | II | CXCR2 | TSS1500 | opensea | TSS1500-op | | | |
| cg1488824 | 0.235138 | 0.437583 | 17.04615 | 2.44E-07 | 0.000337 | 7.727423 | 0.320014 | 0.555152 | -0.23514 | 1 | 2.11E+08 | R | II | KCNH1 | Body | shore | Body-shore | chr1:21085 | rs11676793 | 33;29;6;2;0 |
| cg1388340 | 0.207063 | 0.393352 | 17.02983 | 2.46E-07 | 0.000337 | 7.721032 | 0.289821 | 0.496883 | -0.20706 | 6 | 24974746 | R | II | FAM65B | Body | opensea | Body-opens | | rs5328979 | 25 |
| cg1099000 | 0.246969 | 0.432649 | 17.02789 | 2.46E-07 | 0.000337 | 7.720269 | 0.309164 | 0.556133 | -0.24697 | 17 | 65243288 | F | II | | IGR | shore | IGR-shore | chr17:6524 | | |
| cg0080621 | 0.215653 | 0.449255 | 17.00673 | 2.48E-07 | 0.000337 | 7.711967 | 0.341429 | 0.557082 | -0.21565 | 6 | 1.19E+08 | F | II | SLC35F1 | Body | opensea | Body-opens | | | |
| cg0491277 | 0.225307 | 0.656603 | 17.006 | 2.48E-07 | 0.000337 | 7.711681 | 0.54395 | 0.769256 | -0.22531 | 10 | 78956948 | F | II | KCNMA1 | Body | opensea | Body-opens | | rs1846892 | 0;1 |
| cg0393199 | 0.250497 | 0.470631 | 17.0019 | 2.49E-07 | 0.000337 | 7.71007 | 0.345383 | 0.595879 | -0.2505 | 4 | 88581953 | F | II | DMP1 | Body | opensea | Body-opens | | rs7838077 | 26 |
| cg1599751 | 0.240169 | 0.495571 | 16.99248 | 2.5E-07 | 0.000337 | 7.706369 | 0.375487 | 0.615655 | -0.24017 | 1 | 81814874 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1135877 | 0.238526 | 0.489725 | 16.9718 | 2.52E-07 | 0.000337 | 7.698235 | 0.370462 | 0.608988 | -0.23853 | 6 | 1.14E+08 | F | II | FLJ34503 | Body | opensea | Body-opens | | rs1388838 | 1;29;47 |
| cg1274984 | 0.224917 | 0.440821 | 16.96977 | 2.52E-07 | 0.000337 | 7.697433 | 0.328363 | 0.553279 | -0.22492 | 1 | 7315809 | F | II | CAMTA1 | Body | opensea | Body-opens | | rs1458831 | 35;37 |
| cg2541392 | 0.226091 | 0.517283 | 16.96683 | 2.52E-07 | 0.000337 | 7.696278 | 0.404237 | 0.630328 | -0.22609 | 2 | 1.02E+08 | F | II | TBC1D8 | Body | opensea | Body-opens | | | |
| cg0669540 | 0.238738 | 0.659308 | 16.95823 | 2.53E-07 | 0.000337 | 7.692887 | 0.539939 | 0.778677 | -0.23874 | 12 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5272478 | 0;50 |
| cg0717739 | 0.204664 | 0.588072 | 16.93555 | 2.56E-07 | 0.000338 | 7.68394 | 0.48574 | 0.690404 | -0.20466 | 21 | 43100703 | F | II | NCRNA001 | Body | opensea | Body-opens | | rs5617058 | 15 |
| cg1370797 | 0.22281 | 0.617593 | 16.93503 | 2.56E-07 | 0.000338 | 7.683733 | 0.506188 | 0.728998 | -0.22281 | 11 | 1.18E+08 | F | II | TMPRSS4-A | Body | opensea | Body-opens | | rs5299795 | 0;34 |
| cg2733342 | 0.227527 | 0.541626 | 16.9301 | 2.56E-07 | 0.000338 | 7.681786 | 0.427863 | 0.65539 | -0.22753 | 6 | 28552582 | F | II | SCAND3 | Body | shelf | Body-shelf | chr6:2855 | | |
| cg0450468 | 0.217561 | 0.472201 | 16.91115 | 2.59E-07 | 0.000338 | 7.674296 | 0.363421 | 0.580982 | -0.21756 | 3 | 1.6E+08 | F | II | SCHIP1 | Body | opensea | Body-opens | | rs3705470 | 0 |
| cg0842608 | 0.254177 | 0.487306 | 16.91056 | 2.59E-07 | 0.000338 | 7.674062 | 0.360218 | 0.614394 | -0.25418 | 1 | 43313732 | R | II | ZNF691 | 5'UTR | shore | 5'UTR-shor | chr1:4331 | rs5665159 | 48;35;2 |
| cg0877186 | 0.220294 | 0.550105 | 16.90869 | 2.59E-07 | 0.000338 | 7.67332 | 0.439958 | 0.660252 | -0.22029 | 6 | 43264720 | R | II | SLC22A7 | TSS1500 | opensea | TSS1500-op | | | |
| cg2381539 | 0.211566 | 0.429469 | 16.89687 | 2.6E-07 | 0.000338 | 7.668644 | 0.323686 | 0.535252 | -0.21157 | 13 | 27827386 | R | II | RPL21 | 5'UTR | shore | 5'UTR-shor | chr13:2782 | rs1118004 | 48;21;2 |
| cg1336981 | 0.221603 | 0.543231 | 16.88833 | 2.61E-07 | 0.000338 | 7.665258 | 0.43243 | 0.654033 | -0.2216 | 1 | 55116866 | F | II | C1orf175 | Body | opensea | Body-opens | | rs752467 | r 25;33 |
| cg2353059 | 0.218525 | 0.539414 | 16.8815 | 2.62E-07 | 0.000338 | 7.662552 | 0.430152 | 0.648677 | -0.21852 | 15 | 48515109 | R | II | SLC12A1 | Body | opensea | Body-opens | | | |
| cg1489391 | 0.202892 | 0.503481 | 16.8804 | 2.62E-07 | 0.000338 | 7.662114 | 0.402035 | 0.604927 | -0.20289 | 17 | 34394147 | R | II | CCL18 | Body | opensea | Body-opens | | | |
| cg2528667 | 0.21626 | 0.485942 | 16.87693 | 2.63E-07 | 0.000338 | 7.660739 | 0.377811 | 0.594072 | -0.21626 | 1 | 2.46E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0983806 | 0.225489 | 0.593784 | 16.86672 | 2.64E-07 | 0.000338 | 7.656684 | 0.481039 | 0.706528 | -0.22549 | 3 | 1.85E+08 | R | II | IGF2BP2 | Body | opensea | Body-opens | | rs2121841 | 29;12;1 |
| cg0905558 | 0.201004 | 0.473984 | 16.84619 | 2.66E-07 | 0.000338 | 7.648529 | 0.373482 | 0.574486 | -0.201 | 15 | 31292849 | R | II | | IGR | opensea | IGR-opense | | rs1164733 | 31;5;3;2;1 |
| cg0106188 | 0.237406 | 0.547237 | 16.82766 | 2.68E-07 | 0.000338 | 7.641155 | 0.428534 | 0.66594 | -0.23741 | 5 | 82822769 | F | II | VCAN | Body | opensea | Body-opens | | rs1448067 | 10;14 |
| cg0465616 | 0.218717 | 0.425764 | 16.82541 | 2.69E-07 | 0.000338 | 7.640258 | 0.316405 | 0.535123 | -0.21872 | 11 | 30453248 | R | II | MPPED2 | Body | opensea | Body-opens | | | |
| cg2301772 | 0.203687 | 0.523035 | 16.8006 | 2.72E-07 | 0.000339 | 7.630363 | 0.421191 | 0.624878 | -0.20369 | 17 | 40110371 | R | II | TTC25 | Body | opensea | Body-opens | | rs5410866 | 45 |
| cg2548890 | 0.213613 | 0.517451 | 16.79876 | 2.72E-07 | 0.000339 | 7.629629 | 0.410645 | 0.624257 | -0.21361 | 3 | 1.75E+08 | F | II | NAALADL2 | Body | opensea | Body-opens | | rs1415000 | 5;40 |
| cg2546931 | 0.22872 | 0.599307 | 16.79098 | 2.73E-07 | 0.000339 | 7.626521 | 0.484947 | 0.713667 | -0.22872 | 1 | 48704831 | R | II | SLC5A9 | Body | opensea | Body-opens | | rs7906706 | 40;24 |
| cg0819190 | 0.221675 | 0.476679 | 16.789 | 2.73E-07 | 0.000339 | 7.625731 | 0.365841 | 0.587517 | -0.22168 | 14 | 32769511 | F | II | | IGR | opensea | IGR-opense | | rs5329718 | 0 |
| cg1114169 | 0.321047 | 0.486606 | 16.78144 | 2.74E-07 | 0.000339 | 7.622712 | 0.326082 | 0.64713 | -0.32105 | 1 | 1.62E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:1616 | rs5487993 | 30;13 |
| cg1961257 | 0.23885 | 0.626432 | 16.75989 | 2.77E-07 | 0.000339 | 7.614089 | 0.507008 | 0.745857 | -0.23885 | 1 | 2E+08 | F | II | | IGR | opensea | IGR-opense | | rs5744837 | 0;1;33;50 |
| cg0661097 | 0.204014 | 0.534354 | 16.75067 | 2.78E-07 | 0.000339 | 7.610397 | 0.432347 | 0.636361 | -0.20401 | 2 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs6744051 | 46 |
| cg2126988 | 0.241815 | 0.536625 | 16.75019 | 2.78E-07 | 0.000339 | 7.610202 | 0.415718 | 0.657533 | -0.24181 | 13 | 90489341 | F | II | | IGR | opensea | IGR-opense | | rs1486009 | 31 |
| cg0365245 | 0.200801 | 0.548227 | 16.74798 | 2.78E-07 | 0.000339 | 7.609317 | 0.447827 | 0.648628 | -0.2008 | 6 | 1670293 | F | II | GMDS | Body | opensea | Body-opens | | rs1713414 | 31;32;51 |
| cg2651001 | 0.261707 | 0.579982 | 16.73278 | 2.8E-07 | 0.000339 | 7.603222 | 0.449128 | 0.710835 | -0.26171 | 3 | 1.87E+08 | R | II | EIF4A2 | Body | shelf | Body-shelf | chr3:1865 | rs5272957 | 50;43;14;1 |
| cg0744033 | 0.215571 | 0.587061 | 16.71984 | 2.81E-07 | 0.000339 | 7.598024 | 0.479276 | 0.694847 | -0.21557 | 14 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs1902660 | 0;16;39 |
| cg1512074 | 0.20018 | 0.521694 | 16.71542 | 2.82E-07 | 0.000339 | 7.596248 | 0.421604 | 0.621785 | -0.20018 | 2 | 9211406 | F | II | | IGR | opensea | IGR-opense | | rs1446830 | 0 |
| cg0060705 | 0.218725 | 0.583397 | 16.71208 | 2.82E-07 | 0.000339 | 7.594906 | 0.474035 | 0.69276 | -0.21873 | 4 | 89733526 | R | II | FAM13A | Body | opensea | Body-opens | | rs1494121 | 1 |
| cg0722501 | 0.201069 | 0.494824 | 16.70736 | 2.83E-07 | 0.000339 | 7.593011 | 0.394289 | 0.595359 | -0.20107 | 17 | 74913153 | F | II | MGAT5B | Body | opensea | Body-opens | | rs8008971 | 0;1;51 |
| cg2323867 | 0.227855 | 0.585287 | 16.70455 | 2.83E-07 | 0.000339 | 7.591878 | 0.471359 | 0.699215 | -0.22786 | 2 | 1.7E+08 | F | II | LRP2 | Body | opensea | Body-opens | | rs5465522 | 46 |
| cg0425867 | 0.22099 | 0.628283 | 16.69179 | 2.85E-07 | 0.00034 | 7.586743 | 0.517788 | 0.738778 | -0.22099 | 1 | 94240208 | F | II | | IGR | opensea | IGR-opense | | rs5343663 | 3;26;32 |
| cg2406547 | 0.238218 | 0.586696 | 16.67295 | 2.87E-07 | 0.000341 | 7.579153 | 0.467587 | 0.705806 | -0.23822 | 6 | 1.46E+08 | R | II | GRM1 | Body | opensea | Body-opens | | | |
| cg2506620 | 0.226647 | 0.586908 | 16.67283 | 2.87E-07 | 0.000341 | 7.579103 | 0.473584 | 0.700232 | -0.22665 | 6 | 56669999 | F | II | DST | Body | opensea | Body-opens | | | |
| cg2001568 | 0.209375 | 0.395324 | 16.66922 | 2.88E-07 | 0.000341 | 7.577648 | 0.290637 | 0.500011 | -0.20937 | 20 | 43835190 | R | II | SEMG1 | TSS1500 | opensea | TSS1500-op | | rs3751395 | 44;12 |
| cg0136295 | 0.205554 | 0.40917 | 16.66452 | 2.88E-07 | 0.000341 | 7.575752 | 0.306393 | 0.511947 | -0.20555 | 6 | 1.11E+08 | R | II | METTL24 | Body | opensea | Body-opens | | rs7885796 | 2 |
| cg2320754 | 0.205248 | 0.473933 | 16.6617 | 2.89E-07 | 0.000341 | 7.574616 | 0.371309 | 0.576557 | -0.20525 | 2 | 66050436 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0814071 | 0.227468 | 0.558584 | 16.6494 | 2.9E-07 | 0.000342 | 7.569648 | 0.44485 | 0.672318 | -0.22747 | 3 | 1.27E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1271 | rs5698110 | 1;10;17 |
| cg2647658 | 0.216907 | 0.611914 | 16.64172 | 2.91E-07 | 0.000342 | 7.566546 | 0.503461 | 0.720368 | -0.21691 | 1 | 2.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs5310591 | 36 |
| cg1616041 | 0.227601 | 0.496085 | 16.62001 | 2.94E-07 | 0.000342 | 7.557763 | 0.382285 | 0.609886 | -0.2276 | 8 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | rs5425783 | 1 |
| cg1994907 | 0.21574 | 0.595029 | 16.61836 | 2.94E-07 | 0.000342 | 7.557095 | 0.487159 | 0.702898 | -0.21574 | 3 | 1.86E+08 | R | II | DGKG | Body | opensea | Body-opens | | rs5422613 | 30;12 |
| cg2069907 | 0.202673 | 0.502428 | 16.60974 | 2.96E-07 | 0.000342 | 7.553602 | 0.401092 | 0.603765 | -0.20267 | 2 | 1.37E+08 | R | II | | IGR | opensea | IGR-opense | | rs605887 | r 50;35;2 |
| cg2356324 | 0.211429 | 0.472571 | 16.60834 | 2.96E-07 | 0.000342 | 7.553033 | 0.366856 | 0.578285 | -0.21143 | 7 | 15596973 | F | II | AGMO | Body | opensea | Body-opens | | | |
| cg1242571 | 0.206118 | 0.483653 | 16.58454 | 2.99E-07 | 0.000343 | 7.543379 | 0.380594 | 0.586713 | -0.20612 | 5 | 1.27E+08 | F | II | MEGF10 | Body | opensea | Body-opens | | rs5585900 | 4;47 |
| cg1448804 | 0.205644 | 0.61632 | 16.56879 | 3.01E-07 | 0.000344 | 7.536977 | 0.513498 | 0.719142 | -0.20564 | 11 | 8788397 | F | II | ST5 | 5'UTR | opensea | 5'UTR-open | | rs5312581 | 37;45 |
| cg1526979 | 0.231464 | 0.488314 | 16.56407 | 3.02E-07 | 0.000344 | 7.535058 | 0.372582 | 0.604046 | -0.23146 | 5 | 68824022 | F | II | OCLN | Body | opensea | Body-opens | | rs5370652 | 0 |
| cg0554849 | 0.241482 | 0.58895 | 16.5386 | 3.05E-07 | 0.000345 | 7.524688 | 0.468209 | 0.709691 | -0.24148 | 7 | 81320956 | F | II | LOC10012 | TSS1500 | opensea | TSS1500-op | | | |
| cg1324429 | 0.205859 | 0.479988 | 16.52737 | 3.07E-07 | 0.000345 | 7.520109 | 0.377058 | 0.582917 | -0.20586 | 3 | 25832283 | F | II | NGLY1 | TSS1500 | opensea | TSS1500-op | | rs5612198 | 1;14;26 |
| cg0929058 | 0.20714 | 0.403352 | 16.51231 | 3.09E-07 | 0.000345 | 7.513961 | 0.299782 | 0.506922 | -0.20714 | 5 | 27821960 | F | II | | IGR | opensea | IGR-opense | | rs5322509 | 38;40;44 |
| cg2310117 | 0.208466 | 0.589551 | 16.50586 | 3.1E-07 | 0.000345 | 7.511326 | 0.485318 | 0.693784 | -0.20847 | 1 | 1.59E+08 | R | II | OR6N2 | TSS1500 | opensea | TSS1500-op | | rs7454326 | 35;34 |
| cg0755306 | 0.272134 | 0.551795 | 16.49424 | 3.11E-07 | 0.000345 | 7.506574 | 0.415728 | 0.687863 | -0.27213 | 18 | 54118660 | F | II | | IGR | opensea | IGR-opense | | rs5741838 | 29;47 |
| cg2392356 | 0.20716 | 0.492891 | 16.48822 | 3.12E-07 | 0.000345 | 7.504114 | 0.38931 | 0.596471 | -0.20716 | 10 | 35243037 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0594238 | 0.212828 | 0.540994 | 16.4762 | 3.14E-07 | 0.000345 | 7.49919 | 0.43458 | 0.647408 | -0.21283 | 5 | 60960537 | F | II | LOC10192 | Body | opensea | Body-opens | | rs36032 | rs 7;8;36 |
| cg0191222 | 0.232164 | 0.590149 | 16.47325 | 3.14E-07 | 0.000345 | 7.497982 | 0.474067 | 0.706231 | -0.23216 | 2 | 1.57E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1134270 | 45;38 |
| cg1168837 | 0.237982 | 0.700126 | 16.46653 | 3.15E-07 | 0.000345 | 7.495228 | 0.581135 | 0.819117 | -0.23798 | 1 | 49238689 | F | II | BEND5 | Body | shelf | Body-shelf | chr1:4924 | rs1509334 | 1;7;10;16;18;19;27 |
| cg1505818 | 0.258392 | 0.483074 | 16.44608 | 3.18E-07 | 0.000345 | 7.486838 | 0.353878 | 0.61227 | -0.25839 | 2 | 60715593 | F | II | BCL11A | Body | opensea | Body-opens | | rs5776203 | 4 |
| cg1928209 | 0.239702 | 0.50605 | 16.43386 | 3.2E-07 | 0.000345 | 7.481817 | 0.386199 | 0.625901 | -0.2397 | 18 | 61173138 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2091237 | 0.223212 | 0.458553 | 16.43128 | 3.2E-07 | 0.000345 | 7.480757 | 0.346947 | 0.570159 | -0.22321 | 6 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs7643694 | 50 |
| cg2600268 | 0.309502 | 0.553386 | 16.42132 | 3.22E-07 | 0.000345 | 7.476662 | 0.398635 | 0.708137 | -0.3095 | 9 | 85835742 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0009810 | 0.211144 | 0.554462 | 16.41873 | 3.22E-07 | 0.000345 | 7.475594 | 0.44889 | 0.660034 | -0.21114 | 2 | 2.3E+08 | R | II | PID1 | Body | opensea | Body-opens | | rs5428015 | 2 |
| cg0564067 | 0.252053 | 0.559991 | 16.40879 | 3.24E-07 | 0.000345 | 7.471503 | 0.433964 | 0.686018 | -0.25205 | 12 | 68513016 | R | II | | IGR | opensea | IGR-opense | | rs5353636 | 34;17 |
| cg0098791 | 0.211275 | 0.447388 | 16.40158 | 3.25E-07 | 0.000345 | 7.468531 | 0.34175 | 0.553025 | -0.21127 | 6 | 30115829 | R | II | TRIM40 | 3'UTR | opensea | 3'UTR-open | | | |
| cg1721881 | 0.229634 | 0.562495 | 16.39926 | 3.25E-07 | 0.000345 | 7.467575 | 0.447678 | 0.677312 | -0.22963 | 2 | 2.17E+08 | F | II | LINC00607 | Body | opensea | Body-opens | | rs1446235 | 0;30 |
| cg2708657 | 0.218748 | 0.632672 | 16.39048 | 3.26E-07 | 0.000345 | 7.463954 | 0.523298 | 0.742046 | -0.21875 | 22 | 33093513 | F | II | SYN3 | Body | opensea | Body-opens | | rs5753825 | 0;1;9 |
| cg0140312 | 0.213655 | 0.598628 | 16.38824 | 3.27E-07 | 0.000345 | 7.463032 | 0.4918 | 0.705455 | -0.21365 | 17 | 25566446 | F | II | | IGR | opensea | IGR-opense | | rs5447275 | 28 |
| cg2555513 | 0.207254 | 0.511298 | 16.37803 | 3.28E-07 | 0.000345 | 7.458818 | 0.407671 | 0.614925 | -0.20725 | 9 | 3191504 | R | II | LINC01231 | Body | opensea | Body-opens | | rs1181323 | 7;2 |
| cg2183508 | 0.239901 | 0.601273 | 16.35736 | 3.31E-07 | 0.000345 | 7.450277 | 0.481322 | 0.721223 | -0.2399 | 1 | 2.27E+08 | F | II | CDC42BPA | Body | opensea | Body-opens | | rs5333009 | 28 |
| cg0810529 | 0.202935 | 0.588807 | 16.34832 | 3.33E-07 | 0.000345 | 7.446539 | 0.48734 | 0.690275 | -0.20294 | 3 | 8694758 | F | II | SSUH2 | TSS1500 | opensea | TSS1500-op | | rs5497792 | 34 |
| cg0715242 | 0.227058 | 0.479683 | 16.33756 | 3.34E-07 | 0.000345 | 7.442081 | 0.366153 | 0.593212 | -0.22706 | 2 | 33713297 | R | II | RASGRP3 | 5'UTR | opensea | 5'UTR-open | | rs5339412 | 6;2;1 |
| cg1120961 | 0.224757 | 0.454163 | 16.32835 | 3.36E-07 | 0.000345 | 7.438267 | 0.341784 | 0.566541 | -0.22476 | 7 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs5410183 | 28 |
| cg0356705 | 0.227258 | 0.550151 | 16.32418 | 3.36E-07 | 0.000345 | 7.436536 | 0.436522 | 0.66378 | -0.22726 | 9 | 84108400 | F | II | | IGR | opensea | IGR-opense | | rs5370476 | 1;15;37 |
| cg1181881 | 0.255675 | 0.484341 | 16.32317 | 3.36E-07 | 0.000345 | 7.436118 | 0.356503 | 0.612179 | -0.25568 | 1 | 1.52E+08 | F | II | SNX27 | Body | opensea | Body-opens | | rs5544119 | 0;9;50 |
| cg1768061 | 0.220441 | 0.508509 | 16.31704 | 3.37E-07 | 0.000345 | 7.433575 | 0.398288 | 0.618729 | -0.22044 | 19 | 16191217 | F | II | TPM4 | Body | shelf | Body-shelf | chr19:161 | rs56114854 | 4;7;11;31;41;50 |
| cg1731702 | 0.217328 | 0.551391 | 16.31518 | 3.38E-07 | 0.000345 | 7.432805 | 0.442727 | 0.660055 | -0.21733 | 2 | 86176514 | R | II | | IGR | opensea | IGR-opense | | rs5535900 | 25;2 |
| cg0426365 | 0.256355 | 0.480572 | 16.30015 | 3.4E-07 | 0.000345 | 7.426561 | 0.352394 | 0.608749 | -0.25636 | 19 | 30521287 | R | II | | IGR | opensea | IGR-opense | | rs7805828 | 44 |
| cg1505675 | 0.233953 | 0.521544 | 16.29937 | 3.4E-07 | 0.000345 | 7.426238 | 0.404568 | 0.63852 | -0.23395 | 3 | 3169441 | R | II | TRNT1 | 5'UTR | shore | 5'UTR-shor | chr3:3168 | rs7923504 | 39;38;32;20;6 |
| cg2151217 | 0.247529 | 0.466565 | 16.2909 | 3.41E-07 | 0.000345 | 7.422719 | 0.3428 | 0.590329 | -0.24753 | 2 | 85971548 | F | II | | IGR | opensea | IGR-opense | | rs1885887 | 1 |
| cg2115698 | 0.237538 | 0.602607 | 16.27685 | 3.44E-07 | 0.000345 | 7.416873 | 0.483838 | 0.721376 | -0.23754 | 1 | 1.57E+08 | R | II | NTRK1 | Body | opensea | Body-opens | | rs1742586 | 49;41;39;2 |
| cg1375818 | 0.220579 | 0.443985 | 16.27032 | 3.45E-07 | 0.000345 | 7.414155 | 0.333696 | 0.554275 | -0.22058 | 2 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0953136 | 0.220163 | 0.439138 | 16.2496 | 3.48E-07 | 0.000345 | 7.405519 | 0.329056 | 0.549219 | -0.22016 | 10 | 74436333 | F | II | | IGR | opensea | IGR-opense | | rs5569122 | 1;17;29 |
| cg0153080 | 0.225357 | 0.578758 | 16.23866 | 3.5E-07 | 0.000345 | 7.400952 | 0.46608 | 0.691437 | -0.22536 | 22 | 30877800 | R | II | SDC4P | TSS200 | opensea | TSS200-ope | | rs5627715 | 37;32 |
| cg2284218 | 0.211613 | 0.539757 | 16.23597 | 3.5E-07 | 0.000345 | 7.399829 | 0.43395 | 0.645563 | -0.21161 | 3 | 24401786 | R | II | THRB | 5'UTR | opensea | 5'UTR-open | | | |
| cg0896198 | 0.210609 | 0.580916 | 16.2297 | 3.51E-07 | 0.000345 | 7.397206 | 0.475612 | 0.686221 | -0.21061 | 11 | 1.04E+08 | R | II | PDGFD | Body | opensea | Body-opens | | rs5614896 | 42 |
| cg1862331 | 0.229682 | 0.52035 | 16.21823 | 3.53E-07 | 0.000345 | 7.392413 | 0.405508 | 0.635191 | -0.22968 | 4 | 55711209 | R | II | | IGR | opensea | IGR-opense | | rs5656072 | 51;1 |
| cg0468648 | 0.205233 | 0.459994 | 16.216 | 3.53E-07 | 0.000345 | 7.391482 | 0.357377 | 0.56261 | -0.20523 | 2 | 1.79E+08 | R | II | PDE11A | Body | opensea | Body-opens | | rs5558419 | 44;1 |
| cg0623370 | 0.200707 | 0.462696 | 16.20865 | 3.54E-07 | 0.000345 | 7.388403 | 0.362343 | 0.56305 | -0.20071 | 10 | 71768803 | R | II | | IGR | opensea | IGR-opense | | rs5439855 | 28;22 |
| cg1281236 | 0.205646 | 0.507345 | 16.20469 | 3.55E-07 | 0.000345 | 7.386745 | 0.404521 | 0.610168 | -0.20565 | 5 | 1.02E+08 | R | II | LINC00492 | Body | opensea | Body-opens | | rs5589742 | 30;2 |
| cg2606220 | 0.21995 | 0.481249 | 16.20159 | 3.56E-07 | 0.000345 | 7.38545 | 0.371274 | 0.591224 | -0.21995 | 3 | 1.51E+08 | F | II | CLRN1 | 5'UTR | opensea | 5'UTR-open | | rs5547214 | 22 |
| cg1023505 | 0.214125 | 0.517494 | 16.19975 | 3.56E-07 | 0.000345 | 7.384679 | 0.410431 | 0.624556 | -0.21413 | 3 | 1.34E+08 | R | II | SLCO2A1 | Body | opensea | Body-opens | | rs5597786 | 44;11;2 |
| cg0671739 | 0.212328 | 0.558153 | 16.18367 | 3.59E-07 | 0.000345 | 7.37794 | 0.451989 | 0.664317 | -0.21233 | 7 | 1.22E+08 | R | II | PTPRZ1 | Body | opensea | Body-opens | | rs7844136 | 34;33 |
| cg0884791 | 0.255298 | 0.470992 | 16.18253 | 3.59E-07 | 0.000345 | 7.377461 | 0.343342 | 0.598641 | -0.2553 | 1 | 25105247 | F | II | CLIC4 | Body | opensea | Body-opens | | rs7553761 | 9;10;24;29 |
| cg0807812 | 0.208037 | 0.654646 | 16.17866 | 3.59E-07 | 0.000345 | 7.375838 | 0.550627 | 0.758664 | -0.20804 | 3 | 1.57E+08 | F | II | VEPH1 | Body | opensea | Body-opens | | rs5603495 | 40 |
| cg0861487 | 0.258659 | 0.386585 | 16.17412 | 3.6E-07 | 0.000346 | 7.37393 | 0.257256 | 0.515915 | -0.25866 | 10 | 3824555 | R | II | KLF6 | Body | shore | Body-shore | chr10:382 | rs1490189 | 21;2 |
| cg0591280 | 0.205167 | 0.377454 | 16.17131 | 3.61E-07 | 0.000346 | 7.372752 | 0.27487 | 0.480038 | -0.20517 | 9 | 37378390 | F | II | | IGR | opensea | IGR-opense | | rs5759998 | 27 |
| cg1797184 | 0.225011 | 0.679014 | 16.16667 | 3.61E-07 | 0.000346 | 7.370805 | 0.566508 | 0.791519 | -0.22501 | 2 | 1.92E+08 | F | II | MYO1B | 5'UTR | opensea | 5'UTR-open | | rs1114378 | 0;9 |
| cg2760937 | 0.247198 | 0.493853 | 16.16314 | 3.62E-07 | 0.000346 | 7.369322 | 0.370254 | 0.617452 | -0.2472 | 2 | 1.87E+08 | R | II | | IGR | opensea | IGR-opense | | rs1446080 | 47;18 |
| cg2300164 | 0.219569 | 0.594291 | 16.13038 | 3.67E-07 | 0.000348 | 7.355539 | 0.484506 | 0.704076 | -0.21957 | 3 | 1.72E+08 | R | II | TMEM212 | TSS1500 | opensea | TSS1500-op | | rs1501486 | 43;17 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1005317 | 0.264075 | 0.538391 | 16.12601 | 3.68E-07 | 0.000348 | 7.353698 | 0.406354 | 0.670429 | -0.26408 | 20 | 48924790 | R | II | LINC01270 | Body | opensea | Body-opens | rs5403083 | 48 | | |
| cg1965921 | 0.208254 | 0.458125 | 16.12179 | 3.69E-07 | 0.000348 | 7.351919 | 0.353998 | 0.562252 | -0.20825 | 12 | 21488180 | R | II | SLCO1A2 | 5'UTR | opensea | 5'UTR-open | | | | |
| cg1335547 | 0.235673 | 0.483451 | 16.11771 | 3.7E-07 | 0.000348 | 7.350201 | 0.365614 | 0.601287 | -0.23567 | 6 | 17431988 | R | II | CAP2 | Body | opensea | Body-opens | rs1884508 | 34;2 | | |
| cg2481404 | 0.241679 | 0.499786 | 16.11381 | 3.7E-07 | 0.000348 | 7.348554 | 0.378946 | 0.620625 | -0.24168 | 1 | 44550872 | F | II | | IGR | opensea | IGR-opense | rs1399423 | 0;46 | | |
| cg0981126 | 0.243096 | 0.518095 | 16.10574 | 3.72E-07 | 0.000348 | 7.345151 | 0.396547 | 0.639643 | -0.2431 | 20 | 20477152 | R | II | RALGAPA2 | Body | opensea | Body-opens | rs5434792 | 34 | | |
| cg1433204 | 0.220282 | 0.581573 | 16.07591 | 3.77E-07 | 0.000349 | 7.332542 | 0.471432 | 0.691714 | -0.22028 | 6 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | rs1174476 | 46;14;2;1 | | |
| cg1384445 | 0.204343 | 0.487407 | 16.07488 | 3.77E-07 | 0.000349 | 7.33211 | 0.385236 | 0.589579 | -0.20434 | 17 | 41650882 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg2611327 | 0.234929 | 0.515831 | 16.0699 | 3.78E-07 | 0.000349 | 7.330002 | 0.398367 | 0.633295 | -0.23493 | 1 | 54484669 | R | II | LDLRAD1 | TSS1500 | opensea | TSS1500-op | rs2000641 | 51;49;2;1 | | |
| cg0321923 | 0.21985 | 0.442889 | 16.05228 | 3.81E-07 | 0.000349 | 7.322536 | 0.332964 | 0.552814 | -0.21985 | 14 | 88336254 | R | II | | IGR | opensea | IGR-opense | rs1924528 | 32 | | |
| cg0069092 | 0.221374 | 0.506752 | 16.0501 | 3.81E-07 | 0.000349 | 7.321611 | 0.396065 | 0.617439 | -0.22137 | 1 | 9118237 | F | II | SLC2A5 | Body | opensea | Body-opens | rs5354539 | 1;10;15 | | |
| cg1133635 | 0.213357 | 0.582938 | 16.04549 | 3.82E-07 | 0.000349 | 7.319658 | 0.476259 | 0.689616 | -0.21336 | 1 | 1.6E+08 | R | II | NHLH1 | 5'UTR | shelf | 5'UTR-shelf | chr1:16034 | | | |
| cg2436679 | 0.253285 | 0.510911 | 16.03888 | 3.83E-07 | 0.000349 | 7.316853 | 0.384268 | 0.637553 | -0.25328 | 17 | 55884705 | F | II | | IGR | opensea | IGR-opense | rs5328610 | 10;40;49 | | |
| cg1156488 | 0.238091 | 0.425271 | 16.038 | 3.83E-07 | 0.000349 | 7.316481 | 0.306225 | 0.544317 | -0.23809 | 9 | 71040282 | R | II | PGM5 | Body | opensea | Body-opens | | | | |
| cg1063175 | 0.23231 | 0.628701 | 16.0361 | 3.84E-07 | 0.000349 | 7.315674 | 0.512545 | 0.744856 | -0.23231 | 13 | 52985702 | F | II | | IGR | opensea | IGR-opense | rs1136012 | 21;43 | | |
| cg1960840 | 0.201443 | 0.58603 | 16.02668 | 3.85E-07 | 0.000349 | 7.311674 | 0.485309 | 0.686752 | -0.20144 | 6 | 49604722 | R | II | RHAG | TSS200 | opensea | TSS200-ope | rs5370302 | 34;24;19;1 | | |
| cg2279975 | 0.249052 | 0.496756 | 16.02612 | 3.86E-07 | 0.000349 | 7.311434 | 0.37223 | 0.621282 | -0.24905 | 7 | 29997642 | R | II | SCRN1 | Body | opensea | Body-opens | rs1487894 | 38;20;14 | | |
| cg0034079 | 0.25175 | 0.58353 | 16.02523 | 3.86E-07 | 0.000349 | 7.311058 | 0.457655 | 0.709405 | -0.25175 | 2 | 2.16E+08 | F | II | LINC00607 | Body | opensea | Body-opens | | | | |
| cg2763605 | 0.208446 | 0.583997 | 16.02025 | 3.87E-07 | 0.000349 | 7.308942 | 0.479774 | 0.68822 | -0.20845 | 11 | 57443308 | R | II | ZDHHC5 | Body | opensea | Body-opens | rs5466696 | 29;1 | | |
| cg1165890 | 0.215891 | 0.544317 | 16.01366 | 3.88E-07 | 0.000349 | 7.306139 | 0.436372 | 0.652263 | -0.21589 | 1 | 1.56E+08 | R | II | ASH1L | 5'UTR | opensea | 5'UTR-open | rs1902674 | 7;1 | | |
| cg0033119 | 0.206157 | 0.585862 | 15.99776 | 3.91E-07 | 0.000349 | 7.299373 | 0.482784 | 0.68894 | -0.20616 | 8 | 67638560 | F | II | C8orf44-SG | 5'UTR | opensea | 5'UTR-open | rs5377138 | 1;12 | | |
| cg1748236 | 0.238288 | 0.50068 | 15.98754 | 3.93E-07 | 0.000349 | 7.295019 | 0.381535 | 0.619824 | -0.23829 | 3 | 1.74E+08 | R | II | NLGN1 | Body | opensea | Body-opens | rs5563511 | 47;46;6;4;1 | | |
| cg0746050 | 0.224656 | 0.554453 | 15.98029 | 3.94E-07 | 0.000349 | 7.29193 | 0.442125 | 0.666781 | -0.22466 | 1 | 1.79E+08 | F | II | | IGR | opensea | IGR-opense | rs1410960 | 1;41 | | |
| cg2202944 | 0.22092 | 0.509918 | 15.9735 | 3.95E-07 | 0.000349 | 7.289032 | 0.399458 | 0.620378 | -0.22092 | 9 | 79136110 | R | II | | IGR | opensea | IGR-opense | | | | |
| cg0888183 | 0.241532 | 0.587452 | 15.97296 | 3.95E-07 | 0.000349 | 7.288801 | 0.466685 | 0.708218 | -0.24153 | 12 | 5348711 | R | II | LOC101925 | Body | opensea | Body-opens | rs3713237 | 32 | | |
| cg1842961 | 0.242191 | 0.723646 | 15.97135 | 3.95E-07 | 0.000349 | 7.288114 | 0.602551 | 0.844741 | -0.24219 | 3 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | rs5587367 | 37;21;17;16;2 | | |
| cg1653226 | 0.217158 | 0.502305 | 15.96644 | 3.96E-07 | 0.000349 | 7.286022 | 0.393726 | 0.610885 | -0.21716 | 12 | 53190908 | R | II | KRT3 | TSS1500 | opensea | TSS1500-op | rs5690568 | 26;19;1 | | |
| cg0300461 | 0.255434 | 0.514062 | 15.95727 | 3.98E-07 | 0.000349 | 7.282105 | 0.386345 | 0.641779 | -0.25543 | 2 | 2.32E+08 | R | II | ARMC9 | Body | opensea | Body-opens | rs1855918 | 47;1 | | |
| cg0049152 | 0.241296 | 0.54548 | 15.95681 | 3.98E-07 | 0.000349 | 7.281906 | 0.424832 | 0.666128 | -0.2413 | 16 | 6913336 | F | II | A2BP1 | 5'UTR | opensea | 5'UTR-open | rs1501042 | 8 | | |
| cg0155761 | 0.225538 | 0.458018 | 15.95146 | 3.99E-07 | 0.000349 | 7.279621 | 0.345249 | 0.570787 | -0.22554 | 9 | 1.37E+08 | F | II | | IGR | opensea | IGR-opense | rs5768841 | 0;8;20 | | |
| cg1157708 | 0.20793 | 0.468398 | 15.94115 | 4.01E-07 | 0.000349 | 7.275215 | 0.364433 | 0.572363 | -0.20793 | 2 | 38264725 | F | II | RMDN2-AS | TSS1500 | opensea | TSS1500-op | rs5401092 | 1;49 | | |
| cg2607167 | 0.204934 | 0.488805 | 15.93638 | 4.02E-07 | 0.000349 | 7.273171 | 0.386338 | 0.591273 | -0.20493 | 18 | 61139582 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg0248832 | 0.209498 | 0.515501 | 15.9329 | 4.03E-07 | 0.000349 | 7.271683 | 0.410753 | 0.62025 | -0.2095 | 19 | 5841442 | R | II | | IGR | shelf | IGR-shelf | chr19:5845 | | | |
| cg1434907 | 0.21479 | 0.498515 | 15.9327 | 4.03E-07 | 0.000349 | 7.271598 | 0.39112 | 0.605911 | -0.21479 | 9 | 78547359 | F | II | PCSK5 | Body | opensea | Body-opens | rs2017256 | 29 | | |
| cg1476064 | 0.201611 | 0.512401 | 15.90405 | 4.08E-07 | 0.00035 | 7.25932 | 0.411595 | 0.613207 | -0.20161 | 6 | 10965215 | F | II | SYCP2L | 3'UTR | opensea | 3'UTR-open | rs1120628 | 31;51 | | |
| cg1919237 | 0.206348 | 0.691709 | 15.90045 | 4.09E-07 | 0.00035 | 7.257776 | 0.588535 | 0.794883 | -0.20635 | 11 | 62209356 | F | II | AHNAK | Body | shelf | Body-shelf | chr11:6222 | | | |
| cg0078979 | 0.243832 | 0.487206 | 15.8903 | 4.11E-07 | 0.00035 | 7.253418 | 0.36529 | 0.609122 | -0.24383 | 2 | 1.79E+08 | F | II | MIR548N | TSS1500 | opensea | TSS1500-op | rs1447690 | 1;20 | | |
| cg0190324 | 0.22761 | 0.461036 | 15.88043 | 4.13E-07 | 0.00035 | 7.249176 | 0.347231 | 0.574841 | -0.22761 | 4 | 87373203 | F | II | MAPK10 | 5'UTR | opensea | 5'UTR-open | rs5750245 | 1;33 | | |
| cg1125825 | 0.238685 | 0.479766 | 15.88036 | 4.13E-07 | 0.00035 | 7.249145 | 0.360423 | 0.599108 | -0.23869 | 9 | 1.41E+08 | F | II | ARRDC1-AS | TSS1500 | shore | TSS1500-sh | chr9:14051 | rs1434819 | 0 | |
| cg1105491 | 0.209866 | 0.518845 | 15.87697 | 4.13E-07 | 0.00035 | 7.247689 | 0.413912 | 0.623778 | -0.20987 | 6 | 1.12E+08 | F | II | FYN | 5'UTR | opensea | 5'UTR-open | rs5584912 | 10;16;31 | | |
| cg1817949 | 0.230513 | 0.408627 | 15.84588 | 4.19E-07 | 0.000352 | 7.234301 | 0.293371 | 0.523884 | -0.23051 | 4 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | rs1408676 | 22 | | |
| cg1467521 | 0.235523 | 0.57777 | 15.83942 | 4.21E-07 | 0.000352 | 7.231515 | 0.460009 | 0.695531 | -0.23552 | 5 | 98149610 | F | II | | IGR | opensea | IGR-opense | rs5285456 | 7;18 | | |
| cg2293716 | 0.22325 | 0.524713 | 15.83093 | 4.22E-07 | 0.000353 | 7.227854 | 0.413088 | 0.636338 | -0.22325 | 1 | 2.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5441873 | 0;27;45 | | |
| cg1038913 | 0.200876 | 0.613823 | 15.82794 | 4.23E-07 | 0.000353 | 7.226561 | 0.513385 | 0.714261 | -0.20088 | 2 | 85998068 | F | II | ATOH8 | Body | opensea | Body-opens | rs5635670 | 32;35 | | |
| cg1283102 | 0.24323 | 0.498637 | 15.82292 | 4.24E-07 | 0.000353 | 7.224395 | 0.377022 | 0.620252 | -0.24323 | 1 | 1.61E+08 | R | II | | IGR | opensea | IGR-opense | rs5602811 | 1 | | |
| cg0998808 | 0.232058 | 0.502799 | 15.81984 | 4.24E-07 | 0.000353 | 7.223064 | 0.38677 | 0.618828 | -0.23206 | 2 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | rs5283931 | 31 | | |
| cg0608900 | 0.274719 | 0.534403 | 15.81242 | 4.26E-07 | 0.000353 | 7.219856 | 0.397043 | 0.671762 | -0.27472 | 15 | 50427638 | F | II | | IGR | opensea | IGR-opense | rs1749960 | 8;39 | | |
| cg0258278 | 0.262265 | 0.560271 | 15.80184 | 4.28E-07 | 0.000353 | 7.21528 | 0.429139 | 0.691403 | -0.26226 | 9 | 78291792 | F | II | MIR548H3 | Body | opensea | Body-opens | rs5726178 | 0;13;51 | | |
| cg0186289 | 0.212446 | 0.485697 | 15.79924 | 4.29E-07 | 0.000353 | 7.214157 | 0.379474 | 0.59192 | -0.21245 | 14 | 70548168 | F | II | SLC8A3 | Body | opensea | Body-opens | | | | |
| cg1728094 | 0.243626 | 0.486066 | 15.79543 | 4.29E-07 | 0.000353 | 7.212505 | 0.364253 | 0.607879 | -0.24363 | 5 | 96839154 | R | II | LINC01340 | TSS1500 | opensea | TSS1500-op | rs3537739 | 8 | | |
| cg0973045 | 0.204152 | 0.599323 | 15.79093 | 4.3E-07 | 0.000353 | 7.210557 | 0.497247 | 0.701399 | -0.20415 | 3 | 1.07E+08 | F | II | BBX | 5'UTR | opensea | 5'UTR-open | rs5727485 | 2;33 | | |
| cg1161566 | 0.222157 | 0.586083 | 15.78408 | 4.32E-07 | 0.000353 | 7.207591 | 0.475005 | 0.697162 | -0.22216 | 3 | 1.13E+08 | R | II | NAA50 | Body | shelf | Body-shelf | chr3:11346 | | | |
| cg1122813 | 0.229396 | 0.617326 | 15.78166 | 4.32E-07 | 0.000353 | 7.206541 | 0.502628 | 0.732024 | -0.2294 | 2 | 63971489 | R | II | | IGR | opensea | IGR-opense | rs5687038 | 12;8 | | |
| cg0247252 | 0.247773 | 0.687561 | 15.77691 | 4.33E-07 | 0.000353 | 7.204486 | 0.563675 | 0.811448 | -0.24777 | 1 | 1E+08 | F | II | PALMD | Body | opensea | Body-opens | rs1162021 | 47 | | |
| cg0751507 | 0.216216 | 0.665922 | 15.76274 | 4.36E-07 | 0.000353 | 7.198336 | 0.557814 | 0.77403 | -0.21622 | 12 | 42737622 | R | II | PPHLN1 | Body | opensea | Body-opens | rs1496070 | 28;12 | | |
| cg1590626 | 0.268501 | 0.428351 | 15.76239 | 4.36E-07 | 0.000353 | 7.198184 | 0.294101 | 0.562602 | -0.2685 | 3 | 1.87E+08 | F | II | SNORA4 | TSS200 | shelf | TSS200-she | chr3:18651 | rs2002600 | 0;1;11;46 | |
| cg1490857 | 0.223513 | 0.447007 | 15.75363 | 4.38E-07 | 0.000353 | 7.194383 | 0.33525 | 0.558764 | -0.22351 | 19 | 45880430 | R | II | | IGR | opensea | IGR-opense | rs1858454 | 46;22 | | |
| cg2057873 | 0.203929 | 0.57853 | 15.75033 | 4.39E-07 | 0.000353 | 7.192947 | 0.476566 | 0.680495 | -0.20393 | 2 | 1.79E+08 | F | II | OSBPL6 | Body | opensea | Body-opens | rs5350668 | 0;23;27;34 | | |
| cg0214572 | 0.214078 | 0.480739 | 15.74935 | 4.39E-07 | 0.000353 | 7.19252 | 0.3737 | 0.587778 | -0.21408 | 4 | 1.14E+08 | F | II | ANK2 | Body | opensea | Body-opens | rs5506857 | 0;18 | | |
| cg2202977 | 0.209443 | 0.593651 | 15.74849 | 4.39E-07 | 0.000353 | 7.192148 | 0.48893 | 0.698373 | -0.20944 | 2 | 95534722 | F | II | | IGR | shelf | IGR-shelf | chr2:9553 | rs6214693 | 5;24;39;41;43;47 | |
| cg2321895 | 0.2473 | 0.543996 | 15.74488 | 4.4E-07 | 0.000353 | 7.190578 | 0.420346 | 0.667645 | -0.2473 | 14 | 59109856 | R | II | DACT1 | Body | shelf | Body-shelf | chr14:591 | rs5782027 | 38;26;19 | |
| cg0232860 | 0.217773 | 0.477762 | 15.74341 | 4.4E-07 | 0.000353 | 7.189942 | 0.368876 | 0.586649 | -0.21777 | 11 | 1.3E+08 | R | II | | IGR | shelf | IGR-shelf | chr11:1295 | | | |
| cg1225692 | 0.21342 | 0.563384 | 15.74214 | 4.4E-07 | 0.000353 | 7.189389 | 0.456673 | 0.670094 | -0.21342 | 7 | 50310464 | F | II | | IGR | opensea | IGR-opense | rs1153596 | 0;12;46 | | |
| cg0940036 | 0.24945 | 0.49466 | 15.73706 | 4.41E-07 | 0.000353 | 7.18718 | 0.369935 | 0.619385 | -0.24945 | 2 | 98579411 | F | II | TMEM131 | Body | opensea | Body-opens | rs1389572 | 30 | | |
| cg2391696 | 0.200556 | 0.527969 | 15.72771 | 4.43E-07 | 0.000353 | 7.183109 | 0.42769 | 0.628247 | -0.20056 | 10 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5541079 | 42;48 | | |
| cg2131079 | 0.228703 | 0.477204 | 15.72411 | 4.44E-07 | 0.000353 | 7.181542 | 0.362852 | 0.591555 | -0.2287 | 9 | 22210418 | R | II | | IGR | opensea | IGR-opense | rs5472777 | 25 | | |
| cg2363014 | 0.201639 | 0.573216 | 15.7217 | 4.44E-07 | 0.000353 | 7.180495 | 0.472396 | 0.674035 | -0.20164 | 9 | 36144545 | R | II | GLIPR2 | Body | opensea | Body-opens | rs1863759 | 13 | | |
| cg1040863 | 0.233064 | 0.675447 | 15.70932 | 4.47E-07 | 0.000353 | 7.175099 | 0.558915 | 0.791979 | -0.23306 | 2 | 96869389 | F | II | STARD7 | Body | opensea | Body-opens | rs5636720 | 3;9;27;37;38 | | |
| cg0386774 | 0.232781 | 0.636376 | 15.70079 | 4.49E-07 | 0.000353 | 7.171379 | 0.519986 | 0.752767 | -0.23278 | 14 | 62130280 | F | II | | IGR | opensea | IGR-opense | rs5617465 | 0;2;8;41 | | |
| cg2717729 | 0.216167 | 0.641721 | 15.6906 | 4.51E-07 | 0.000353 | 7.166933 | 0.533637 | 0.749804 | -0.21617 | 3 | 1.9E+08 | R | II | CLDN1 | Body | opensea | Body-opens | rs1928739 | 34 | | |
| cg2622746 | 0.20901 | 0.508418 | 15.68813 | 4.52E-07 | 0.000353 | 7.165851 | 0.403914 | 0.612923 | -0.20901 | 12 | 68553577 | F | II | IFNG | TSS200 | opensea | TSS200-ope | | | | |
| cg0859073 | 0.249392 | 0.61333 | 15.68793 | 4.52E-07 | 0.000353 | 7.165767 | 0.488634 | 0.738026 | -0.24939 | 4 | 77624601 | F | II | SHROOM3 | Body | opensea | Body-opens | | | | |
| cg1121067 | 0.212471 | 0.54888 | 15.68521 | 4.52E-07 | 0.000353 | 7.164579 | 0.442644 | 0.655115 | -0.21247 | 1 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | rs5551855 | 17;1 | | |
| cg0198282 | 0.216703 | 0.537034 | 15.675 | 4.54E-07 | 0.000353 | 7.160114 | 0.428683 | 0.645386 | -0.2167 | 11 | 9599270 | R | II | WEE1 | Body | shelf | Body-shelf | chr11:959 | rs3727483 | 37;19;18;7;3;2 | |
| cg1585641 | 0.2105 | 0.472856 | 15.6684 | 4.56E-07 | 0.000353 | 7.157227 | 0.367606 | 0.578106 | -0.2105 | 21 | 39760881 | R | II | ERG | Body | opensea | Body-opens | | | | |
| cg0179424 | 0.253006 | 0.498363 | 15.66665 | 4.56E-07 | 0.000353 | 7.156462 | 0.37186 | 0.624866 | -0.25301 | 8 | 1.46E+08 | R | II | KIAA1688 | TSS1500 | opensea | TSS1500-op | | | | |
| cg0390251 | 0.204684 | 0.59609 | 15.6433 | 4.61E-07 | 0.000355 | 7.146238 | 0.493748 | 0.698432 | -0.20468 | 1 | 2.39E+08 | R | II | | IGR | opensea | IGR-opense | | | | |
| cg2063687 | 0.229971 | 0.567614 | 15.64153 | 4.62E-07 | 0.000355 | 7.145461 | 0.452628 | 0.682599 | -0.22997 | 17 | 59883616 | R | II | BRIP1 | Body | opensea | Body-opens | rs1126027 | 2 | | |
| cg2267202 | 0.207003 | 0.480671 | 15.63398 | 4.63E-07 | 0.000355 | 7.142152 | 0.37717 | 0.584173 | -0.207 | 10 | 14062217 | F | II | FRMD4A | Body | opensea | Body-opens | rs5337082 | 10;15;31;37 | | |
| cg1506316 | 0.202992 | 0.545842 | 15.622 | 4.66E-07 | 0.000356 | 7.136892 | 0.444346 | 0.647338 | -0.20299 | 8 | 27483086 | R | II | | IGR | opensea | IGR-opense | rs1896705 | 49;31 | | |
| cg0265051 | 0.248772 | 0.538345 | 15.62076 | 4.66E-07 | 0.000356 | 7.136348 | 0.413959 | 0.662731 | -0.24877 | 17 | 27048975 | R | II | RPL23A | Body | shore | Body-shore | chr17:270 | rs7552537 | 50;19;1 | |
| cg1417807 | 0.232427 | 0.548401 | 15.61374 | 4.68E-07 | 0.000357 | 7.133265 | 0.432187 | 0.664614 | -0.23243 | 9 | 78777801 | R | II | PCSK5 | Body | opensea | Body-opens | rs5459156 | 4;1 | | |
| cg1389044 | 0.200874 | 0.428173 | 15.59236 | 4.73E-07 | 0.000359 | 7.123864 | 0.327736 | 0.52861 | -0.20087 | 15 | 1.02E+08 | F | II | PCSK6 | Body | opensea | Body-opens | rs5448296 | 1 | | |
| cg1351919 | 0.20353 | 0.512644 | 15.58014 | 4.75E-07 | 0.00036 | 7.118479 | 0.41088 | 0.614409 | -0.20353 | 14 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | rs1490269 | 40;22;2;1 | | |
| cg1275311 | 0.216877 | 0.662888 | 15.57689 | 4.76E-07 | 0.00036 | 7.117049 | 0.55445 | 0.771326 | -0.21688 | 3 | 18996624 | R | II | | IGR | opensea | IGR-opense | rs1122092 | 15 | | |
| cg1965599 | 0.229463 | 0.49062 | 15.57222 | 4.77E-07 | 0.00036 | 7.114992 | 0.375888 | 0.605352 | -0.22946 | 2 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | rs1176338 | 40;29;3;1 | | |
| cg1797447 | 0.242412 | 0.497783 | 15.56283 | 4.79E-07 | 0.00036 | 7.110849 | 0.376577 | 0.618989 | -0.24241 | 2 | 9490525 | F | II | ASAP2 | Body | opensea | Body-opens | rs1509861 | 1;21;26;47 | | |
| cg2262959 | 0.267738 | 0.459411 | 15.55627 | 4.81E-07 | 0.00036 | 7.107951 | 0.325542 | 0.59328 | -0.26774 | 6 | 16837449 | R | II | | IGR | opensea | IGR-opense | rs5735430 | 46;14;10 | | |
| cg2176548 | 0.225766 | 0.529372 | 15.55379 | 4.81E-07 | 0.00036 | 7.10686 | 0.416489 | 0.642255 | -0.22577 | 13 | 27195650 | F | II | WASF3 | 5'UTR | opensea | 5'UTR-open | rs1919249 | 1;42;46 | | |
| cg0140234 | 0.205244 | 0.604099 | 15.54887 | 4.82E-07 | 0.00036 | 7.104687 | 0.501477 | 0.706721 | -0.20524 | 4 | 96472269 | F | II | | IGR | shore | IGR-shore | chr4:9646 | rs1387741 | 0;1;46 | |
| cg0122367 | 0.216065 | 0.555405 | 15.54451 | 4.83E-07 | 0.00036 | 7.10276 | 0.447373 | 0.663438 | -0.21606 | 11 | 15133828 | F | II | INSC | TSS200 | shelf | TSS200-she | chr11:151 | rs5539107 | 10 | |
| cg2645366 | 0.239656 | 0.543454 | 15.54146 | 4.84E-07 | 0.00036 | 7.101412 | 0.423626 | 0.663282 | -0.23966 | 10 | 90411391 | R | II | | IGR | opensea | IGR-opense | rs1384306 | 2 | | |
| cg1537615 | 0.222472 | 0.454086 | 15.53749 | 4.85E-07 | 0.00036 | 7.099657 | 0.34285 | 0.565322 | -0.22247 | 10 | 1.19E+08 | R | II | | IGR | shelf | IGR-shelf | chr10:118 | rs1428123 | 2 | |
| cg1217751 | 0.230205 | 0.544511 | 15.53719 | 4.85E-07 | 0.00036 | 7.099523 | 0.429408 | 0.659613 | -0.23021 | 6 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | rs5571034 | 9;37;49 | | |
| cg1767661 | 0.206427 | 0.558435 | 15.53229 | 4.86E-07 | 0.00036 | 7.097355 | 0.455221 | 0.661648 | -0.20643 | 10 | 80563421 | F | II | | IGR | opensea | IGR-opense | rs3724014 | 0;1;3;22 | | |
| cg2679531 | 0.215946 | 0.469225 | 15.52886 | 4.87E-07 | 0.00036 | 7.095839 | 0.361252 | 0.577198 | -0.21595 | 8 | 1.46E+08 | F | II | C8orf77 | Body | shelf | Body-shelf | chr8:14623 | rs5696390 | 7;34 | |
| cg1085327 | 0.241611 | 0.613271 | 15.52813 | 4.87E-07 | 0.00036 | 7.095514 | 0.492465 | 0.734077 | -0.24161 | 8 | 86436099 | R | II | | IGR | opensea | IGR-opense | rs1918059 | 29 | | |
| cg1874069 | 0.223632 | 0.612458 | 15.52086 | 4.89E-07 | 0.00036 | 7.092296 | 0.500642 | 0.724274 | -0.22363 | 14 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | rs7631297 | 7;21;36;39 | | |
| cg2250576 | 0.225214 | 0.536042 | 15.50503 | 4.93E-07 | 0.000361 | 7.085282 | 0.423435 | 0.648649 | -0.22521 | 13 | 1.13E+08 | F | II | LOC101925 | ExonBnd | opensea | ExonBnd-op | | | | |
| cg0047005 | 0.21851 | 0.561311 | 15.49254 | 4.96E-07 | 0.000362 | 7.079741 | 0.452056 | 0.670566 | -0.21851 | 15 | 72206554 | R | II | MYO9A | Body | opensea | Body-opens | rs5309274 | 39;20 | | |
| cg0675449 | 0.251021 | 0.482591 | 15.49041 | 4.96E-07 | 0.000362 | 7.078795 | 0.35708 | 0.608101 | -0.25102 | 10 | 52268375 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | rs5400935 | 39;22 | | |
| cg0047851 | 0.231934 | 0.51617 | 15.48878 | 4.96E-07 | 0.000362 | 7.078072 | 0.400203 | 0.632137 | -0.23193 | 2 | 1.61E+08 | R | II | ITGB6 | Body | opensea | Body-opens | rs5569174 | 7;1 | | |
| cg0460926 | 0.236792 | 0.478233 | 15.48389 | 4.98E-07 | 0.000362 | 7.075904 | 0.359837 | 0.596629 | -0.23679 | 10 | 81045085 | R | II | ZMIZ1 | Body | opensea | Body-opens | | | | |
| cg0259672 | 0.221483 | 0.515218 | 15.46689 | 5.02E-07 | 0.000363 | 7.068345 | 0.404476 | 0.62596 | -0.22148 | 11 | 76311399 | R | II | | IGR | opensea | IGR-opense | rs5577891 | 45 | | |
| cg0791011 | 0.245048 | 0.423051 | 15.46557 | 5.02E-07 | 0.000363 | 7.06776 | 0.300527 | 0.545575 | -0.24505 | 10 | 61062665 | F | II | FAM13C | Body | opensea | Body-opens | | | | |
| cg0194845 | 0.230885 | 0.566452 | 15.45837 | 5.04E-07 | 0.000363 | 7.064555 | 0.451009 | 0.681894 | -0.23089 | 5 | 17253941 | F | II | BASP1 | 5'UTR | opensea | 5'UTR-open | | | | |
| cg2377253 | 0.249877 | 0.473005 | 15.45789 | 5.04E-07 | 0.000363 | 7.064342 | 0.348066 | 0.597943 | -0.24988 | 16 | 89628650 | R | II | RPL13 | Body | shore | Body-shore | chr16:8962 | rs3751690 | 31;25;23;2 | |
| cg2147122 | 0.227317 | 0.615684 | 15.45546 | 5.04E-07 | 0.000363 | 7.063262 | 0.502026 | 0.729343 | -0.22732 | 6 | 1.37E+08 | R | II | MAP7 | TSS200 | opensea | TSS200-ope | | | | |
| cg2339701 | 0.236761 | 0.486712 | 15.45347 | 5.05E-07 | 0.000363 | 7.062377 | 0.368331 | 0.605092 | -0.23676 | 10 | 10571132 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg1082906 | 0.203667 | 0.451469 | 15.45038 | 5.06E-07 | 0.000363 | 7.060997 | 0.349636 | 0.553303 | -0.20367 | 11 | 59069567 | F | II | | IGR | opensea | IGR-opense | rs5312620 | 0;1;20;42 | | |
| cg2266956 | 0.231612 | 0.587587 | 15.44675 | 5.07E-07 | 0.000363 | 7.059382 | 0.471781 | 0.703393 | -0.23161 | 7 | 93114291 | F | II | MIR489 | TSS1500 | opensea | TSS1500-op | rs1883434 | 40;42 | | |
| cg0227242 | 0.216816 | 0.483817 | 15.44175 | 5.08E-07 | 0.000363 | 7.057155 | 0.375409 | 0.592226 | -0.21682 | 15 | 25756044 | F | II | | IGR | opensea | IGR-opense | rs5376673 | 36 | | |
| cg0366935 | 0.208312 | 0.492021 | 15.42981 | 5.11E-07 | 0.000364 | 7.05183 | 0.387865 | 0.596177 | -0.20831 | 3 | 71912936 | F | II | | IGR | opensea | IGR-opense | rs1447330 | 0;46;50 | | |
| cg0443178 | 0.222667 | 0.469769 | 15.42187 | 5.13E-07 | 0.000364 | 7.048287 | 0.358435 | 0.581103 | -0.22267 | 3 | 1.32E+08 | F | II | CCRL1 | TSS1500 | opensea | TSS1500-op | rs5567934 | 0;44 | | |
| cg1343743 | 0.226925 | 0.559856 | 15.40638 | 5.16E-07 | 0.000365 | 7.041367 | 0.446393 | 0.673319 | -0.22693 | 3 | 66354186 | R | II | SLC25A26 | Body | opensea | Body-opens | rs6224687 | 51;38;4 | | |
| cg0521480 | 0.228177 | 0.575865 | 15.39188 | 5.2E-07 | 0.000365 | 7.034882 | 0.461776 | 0.689953 | -0.22818 | 12 | 2247203 | R | II | CACNA1C | Body | opensea | Body-opens | rs5574706 | 28;26;24;23;1 | | |
| cg1246415 | 0.225407 | 0.521283 | 15.38671 | 5.21E-07 | 0.000365 | 7.032569 | 0.40858 | 0.633987 | -0.22541 | 3 | 70588826 | F | II | | IGR | opensea | IGR-opense | rs1864057 | 0 | | |
| cg0060497 | 0.211387 | 0.416894 | 15.38299 | 5.22E-07 | 0.000365 | 7.030904 | 0.311201 | 0.522588 | -0.21139 | 9 | 1.3E+08 | F | II | | IGR | shore | IGR-shore | chr9:13033 | rs3324891 | 0 | |
| cg1562517 | 0.204676 | 0.448432 | 15.37172 | 5.25E-07 | 0.000365 | 7.025852 | 0.346094 | 0.55077 | -0.20468 | 14 | 42167742 | F | II | LRFN5 | 5'UTR | opensea | 5'UTR-open | rs1423565 | 30;50 | | |
| cg2679460 | 0.244637 | 0.516972 | 15.36471 | 5.27E-07 | 0.000365 | 7.02271 | 0.394654 | 0.63929 | -0.24464 | 10 | 89942354 | R | II | | IGR | opensea | IGR-opense | rs5509443 | 28 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1208191 | 0.224489 | 0.668639 | 15.35908 | 5.28E-07 | 0.000365 | 7.020184 | 0.556394 | 0.780883 | -0.22449 | 5 | 9370475 | F | II | SEMA5A | Body | opensea | Body-opens | rs5715602 | 1;9;43;48 |
| cg2713591 | 0.206719 | 0.515665 | 15.3573 | 5.29E-07 | 0.000365 | 7.019382 | 0.412306 | 0.619025 | -0.20672 | 10 | 1.35E+08 | F | II | SYCE1 | Body | opensea | Body-opens | rs1085775 | 36;14 |
| cg0882674 | 0.245058 | 0.538857 | 15.35647 | 5.29E-07 | 0.000365 | 7.01901 | 0.416328 | 0.661385 | -0.24506 | 8 | 1.05E+08 | F | II | DPYS | 3'UTR | opensea | 3'UTR-open | rs5701781 | 22 |
| cg1289958 | 0.236164 | 0.511723 | 15.35351 | 5.3E-07 | 0.000365 | 7.017684 | 0.393641 | 0.629805 | -0.23616 | 3 | 19499616 | F | II | KCNH8 | Body | opensea | Body-opens | rs5488551 | 0;14 |
| cg0147949 | 0.214381 | 0.570793 | 15.33643 | 5.34E-07 | 0.000365 | 7.010009 | 0.463603 | 0.677983 | -0.21438 | 3 | 1.88E+08 | F | II | LPP | 5'UTR | opensea | 5'UTR-open | rs1836850 | 25 |
| cg2219904 | 0.224259 | 0.551625 | 15.32681 | 5.37E-07 | 0.000365 | 7.005683 | 0.439495 | 0.663754 | -0.22426 | 1 | 83346298 | R | II | | IGR | opensea | IGR-opense | | |
| cg1828745 | 0.221953 | 0.463865 | 15.31097 | 5.41E-07 | 0.000365 | 6.998552 | 0.352889 | 0.574842 | -0.22195 | 6 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | rs5434158 | 19;12;2 |
| cg1180086 | 0.253645 | 0.605659 | 15.30879 | 5.41E-07 | 0.000365 | 6.997568 | 0.478836 | 0.732481 | -0.25364 | 10 | 64981888 | R | II | JMJD1C | Body | opensea | Body-opens | rs5571536 | 4 |
| cg1477429 | 0.253302 | 0.537726 | 15.30347 | 5.43E-07 | 0.000365 | 6.995168 | 0.411075 | 0.664377 | -0.2533 | 8 | 1.42E+08 | F | II | PTK2 | 5'UTR | opensea | 5'UTR-open | rs3722781 | 1 |
| cg0111738 | 0.203127 | 0.411777 | 15.30324 | 5.43E-07 | 0.000365 | 6.995068 | 0.310214 | 0.51334 | -0.20313 | 20 | 56274096 | F | II | PMEPA1 | 5'UTR | opensea | 5'UTR-open | | |
| cg1216261 | 0.255486 | 0.519151 | 15.28944 | 5.46E-07 | 0.000366 | 6.988843 | 0.391408 | 0.646894 | -0.25549 | 6 | 18147472 | F | II | TPMT | Body | opensea | Body-opens | | |
| cg2425121 | 0.203426 | 0.466265 | 15.2804 | 5.49E-07 | 0.000367 | 6.984761 | 0.364552 | 0.567978 | -0.20343 | 11 | 10347429 | F | II | | IGR | opensea | IGR-opense | | |
| cg1310549 | 0.235817 | 0.515185 | 15.27263 | 5.51E-07 | 0.000367 | 6.981248 | 0.397276 | 0.633094 | -0.23582 | 11 | 73600155 | R | II | PAAF1 | 5'UTR | opensea | 5'UTR-open | rs5586483 | 19 |
| cg0684803 | 0.222665 | 0.53249 | 15.26932 | 5.52E-07 | 0.000367 | 6.979751 | 0.421157 | 0.643822 | -0.22267 | 9 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | rs5345987 | 0;2;12;42 |
| cg2589203 | 0.228071 | 0.532379 | 15.26089 | 5.54E-07 | 0.000368 | 6.975939 | 0.418343 | 0.646414 | -0.22807 | 6 | 86395559 | R | II | | IGR | opensea | IGR-opense | rs5309111 | 21;17;4 |
| cg0918599 | 0.214856 | 0.56482 | 15.25242 | 5.56E-07 | 0.000368 | 6.972107 | 0.457392 | 0.672248 | -0.21486 | 12 | 22090231 | R | II | ABCC9 | TSS1500 | shelf | TSS1500-sh | chr12:220( | rs7509213 | 30;17 |
| cg1809126 | 0.207218 | 0.359533 | 15.24482 | 5.58E-07 | 0.000368 | 6.968666 | 0.255923 | 0.463142 | -0.20722 | 15 | 66795595 | R | II | SNORD18A | Body | opensea | Body-opens | rs1128650 | 46;40;12;1 |
| cg1085960 | 0.255167 | 0.495585 | 15.24396 | 5.59E-07 | 0.000368 | 6.968274 | 0.368001 | 0.623168 | -0.25517 | 8 | 30255368 | F | II | RBPMS | Body | opensea | Body-opens | rs1119144 | 0;1;8;47 |
| cg1600838 | 0.231196 | 0.543774 | 15.24229 | 5.59E-07 | 0.000368 | 6.967517 | 0.428176 | 0.659372 | -0.2312 | 4 | 80224872 | F | II | LINC01088 | Body | opensea | Body-opens | rs5673475 | 8 |
| cg0682294 | 0.22776 | 0.587175 | 15.23453 | 5.61E-07 | 0.000368 | 6.963998 | 0.473295 | 0.701055 | -0.22776 | 3 | 1.51E+08 | R | II | CLRN1 | TSS200 | opensea | TSS200-ope | rs5422689 | 32;28;13;4;2 |
| cg0054467 | 0.211672 | 0.612148 | 15.2344 | 5.61E-07 | 0.000368 | 6.963941 | 0.506313 | 0.717984 | -0.21167 | 11 | 39689583 | F | II | | IGR | opensea | IGR-opense | rs5388797 | 0;8;10;44 |
| cg0326910 | 0.218784 | 0.534822 | 15.23293 | 5.62E-07 | 0.000368 | 6.963274 | 0.42543 | 0.644214 | -0.21878 | 4 | 98315750 | R | II | STPG2-AS1 | Body | opensea | Body-opens | | |
| cg0841521 | 0.234025 | 0.50623 | 15.23259 | 5.62E-07 | 0.000368 | 6.963119 | 0.389218 | 0.623242 | -0.23402 | 6 | 19906065 | R | II | | IGR | opensea | IGR-opense | | |
| cg0199592 | 0.219922 | 0.562749 | 15.23099 | 5.62E-07 | 0.000368 | 6.962395 | 0.452788 | 0.67271 | -0.21992 | 1 | 24257839 | F | II | | IGR | opensea | IGR-opense | rs1121014 | 40 |
| cg0237066 | 0.212078 | 0.664611 | 15.22096 | 5.65E-07 | 0.000368 | 6.957843 | 0.558572 | 0.77065 | -0.21208 | 6 | 44934650 | R | II | SUPT3H | Body | opensea | Body-opens | rs5416580 | 44;31;2 |
| cg0300437 | 0.247586 | 0.570301 | 15.21299 | 5.67E-07 | 0.000368 | 6.954226 | 0.446508 | 0.694094 | -0.24759 | 3 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | rs1144886 | 42;1 |
| cg1904535 | 0.20505 | 0.468589 | 15.2102 | 5.68E-07 | 0.000368 | 6.952957 | 0.366064 | 0.571114 | -0.20505 | 9 | 37954074 | F | II | SHB | Body | opensea | Body-opens | rs1443766 | 0;32 |
| cg0686718 | 0.203753 | 0.571205 | 15.20317 | 5.7E-07 | 0.000368 | 6.949762 | 0.469328 | 0.673081 | -0.20375 | 12 | 1.14E+08 | F | II | DTX1 | Body | opensea | Body-opens | rs1917642 | 43 |
| cg2365209 | 0.208407 | 0.532967 | 15.20189 | 5.7E-07 | 0.000368 | 6.949179 | 0.428764 | 0.637171 | -0.20841 | 11 | 75347560 | R | II | MAP6 | Body | opensea | Body-opens | | |
| cg1851615 | 0.215614 | 0.534527 | 15.20164 | 5.7E-07 | 0.000368 | 6.949066 | 0.42672 | 0.642335 | -0.21561 | 3 | 1.49E+08 | R | II | CPA3 | 3'UTR | opensea | 3'UTR-open | rs1837888 | 35;30 |
| cg0681500 | 0.222142 | 0.638068 | 15.1923 | 5.73E-07 | 0.000368 | 6.944818 | 0.526997 | 0.749139 | -0.22214 | 3 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | rs5768179 | 28 |
| cg0460306 | 0.249116 | 0.539479 | 15.19197 | 5.73E-07 | 0.000368 | 6.944668 | 0.414921 | 0.664037 | -0.24912 | 18 | 42290070 | R | II | SETBP1 | Body | opensea | Body-opens | rs5655318 | 10;9 |
| cg0335865 | 0.257779 | 0.481465 | 15.19031 | 5.73E-07 | 0.000368 | 6.943914 | 0.352575 | 0.610354 | -0.25778 | 2 | 1.69E+08 | F | II | LOC10561( | Body | opensea | Body-opens | rs1132007 | 18 |
| cg0558231 | 0.239447 | 0.509888 | 15.19004 | 5.73E-07 | 0.000368 | 6.94379 | 0.390165 | 0.629612 | -0.23945 | 4 | 5760808 | F | II | EVC | Body | opensea | Body-opens | rs5682419 | 0;31 |
| cg1301792 | 0.235178 | 0.553788 | 15.18081 | 5.76E-07 | 0.000369 | 6.939589 | 0.436198 | 0.671377 | -0.23518 | 7 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | rs7965377 | 9;19 |
| cg1031553 | 0.223132 | 0.57145 | 15.17961 | 5.76E-07 | 0.000369 | 6.939042 | 0.459884 | 0.683016 | -0.22313 | 13 | 43579592 | F | II | | IGR | opensea | IGR-opense | | |
| cg1904310 | 0.210846 | 0.635173 | 15.16847 | 5.79E-07 | 0.00037 | 6.933965 | 0.52975 | 0.740596 | -0.21085 | 6 | 1.17E+08 | R | II | RFX6 | Body | opensea | Body-opens | rs1900579 | 38 |
| cg2452746 | 0.212381 | 0.607898 | 15.15909 | 5.82E-07 | 0.00037 | 6.929686 | 0.501708 | 0.714089 | -0.21238 | 13 | 37244827 | F | II | | IGR | shelf | IGR-shelf | chr13:372( | rs5672775 | 38 |
| cg0533997 | 0.200191 | 0.601786 | 15.15224 | 5.84E-07 | 0.000371 | 6.926561 | 0.501691 | 0.701882 | -0.20019 | 2 | 64964564 | F | II | | IGR | opensea | IGR-opense | rs3728771 | 40 |
| cg0948125 | 0.225225 | 0.560592 | 15.15186 | 5.84E-07 | 0.000371 | 6.926387 | 0.44798 | 0.673204 | -0.22522 | 13 | 22260911 | F | II | FGF9 | Body | opensea | Body-opens | rs829219 | 32 |
| cg0914635 | 0.235158 | 0.412628 | 15.14658 | 5.86E-07 | 0.000371 | 6.923976 | 0.295049 | 0.530207 | -0.23516 | 11 | 8795619 | F | II | LOC10272( | Body | opensea | Body-opens | | |
| cg1332255 | 0.20039 | 0.448089 | 15.14404 | 5.86E-07 | 0.000371 | 6.922815 | 0.347894 | 0.548284 | -0.20039 | 11 | 74173518 | R | II | KCNE3 | 5'UTR | opensea | 5'UTR-open | rs5553526 | 5 |
| cg1601581 | 0.215611 | 0.648477 | 15.13464 | 5.89E-07 | 0.000371 | 6.918521 | 0.540672 | 0.756283 | -0.21561 | 1 | 2.1E+08 | F | II | | IGR | opensea | IGR-opense | rs1509832 | 14 |
| cg1232570 | 0.241853 | 0.502871 | 15.1311 | 5.9E-07 | 0.000371 | 6.916899 | 0.381945 | 0.623798 | -0.24185 | 7 | 48338551 | F | II | ABCA13 | Body | opensea | Body-opens | rs1907537 | 0 |
| cg0110216 | 0.208514 | 0.377943 | 15.13087 | 5.9E-07 | 0.000371 | 6.916796 | 0.273686 | 0.4822 | -0.20851 | 5 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | rs5979629 | 22;16 |
| cg0604837 | 0.234397 | 0.512226 | 15.12842 | 5.91E-07 | 0.000371 | 6.915673 | 0.395027 | 0.629424 | -0.2344 | 13 | 74994693 | F | II | LINC00381 | Body | opensea | Body-opens | rs1810543 | 1;38 |
| cg1099417 | 0.22623 | 0.525338 | 15.12734 | 5.91E-07 | 0.000371 | 6.915181 | 0.412223 | 0.638453 | -0.22623 | 7 | 80412899 | R | II | SEMA3C | Body | opensea | Body-opens | | |
| cg2686382 | 0.210041 | 0.496997 | 15.12406 | 5.92E-07 | 0.000371 | 6.913677 | 0.391977 | 0.602018 | -0.21004 | 16 | 3161760 | F | II | ZNF205 | TSS1500 | opensea | TSS1500-op | rs1825385 | 10 |
| cg2195220 | 0.221138 | 0.546079 | 15.1229 | 5.92E-07 | 0.000371 | 6.913149 | 0.43551 | 0.656649 | -0.22114 | 2 | 2.31E+08 | F | II | SP110 | TSS1500 | opensea | TSS1500-op | | |
| cg0141193 | 0.20922 | 0.478591 | 15.11775 | 5.94E-07 | 0.000372 | 6.910791 | 0.373981 | 0.583201 | -0.20922 | 5 | 1.51E+08 | R | II | GM2A | Body | opensea | Body-opens | rs1911263 | 41;16 |
| cg1719987 | 0.216129 | 0.610774 | 15.09585 | 6E-07 | 0.000374 | 6.900753 | 0.50271 | 0.718838 | -0.21613 | 9 | 92505134 | F | II | | IGR | opensea | IGR-opense | rs7916587 | 18;30;41 |
| cg1359920 | 0.204674 | 0.536938 | 15.08012 | 6.05E-07 | 0.000374 | 6.893533 | 0.434601 | 0.639275 | -0.20467 | 14 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | rs5631399 | 21;40 |
| cg1957438 | 0.288791 | 0.456478 | 15.07979 | 6.05E-07 | 0.000374 | 6.893384 | 0.312082 | 0.600873 | -0.28879 | 4 | 10075174 | R | II | | IGR | opensea | IGR-opense | rs1926784 | 1 |
| cg2164309 | 0.205592 | 0.510529 | 15.07974 | 6.05E-07 | 0.000374 | 6.893362 | 0.407733 | 0.613325 | -0.20559 | 11 | 1.05E+08 | F | II | CARD18 | 3'UTR | opensea | 3'UTR-open | rs1473012 | 4;9;45;50 |
| cg0298340 | 0.212471 | 0.511477 | 15.0703 | 6.08E-07 | 0.000374 | 6.889021 | 0.405242 | 0.617713 | -0.21247 | 11 | 46296193 | R | II | | IGR | shelf | IGR-shelf | chr11:462( | rs5307223 | 49;3;2 |
| cg2565552 | 0.217844 | 0.602692 | 15.05745 | 6.12E-07 | 0.000375 | 6.883113 | 0.49377 | 0.711614 | -0.21784 | 13 | 73942508 | R | II | | IGR | opensea | IGR-opense | rs1907202 | 50 |
| cg2363875 | 0.209262 | 0.488808 | 15.05178 | 6.14E-07 | 0.000375 | 6.880501 | 0.384178 | 0.593439 | -0.20926 | 5 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | rs5460078 | 28;45 |
| cg1530606 | 0.223675 | 0.527944 | 15.05143 | 6.14E-07 | 0.000375 | 6.880343 | 0.416107 | 0.639782 | -0.22367 | 22 | 39712956 | F | II | RPL3 | Body | shelf | Body-shelf | chr22:397: | rs3701033 | 0;25;34 |
| cg0232395 | 0.23347 | 0.539823 | 15.0513 | 6.14E-07 | 0.000375 | 6.880282 | 0.423088 | 0.656558 | -0.23347 | 8 | 1.31E+08 | R | II | FAM49B | 5'UTR | opensea | 5'UTR-open | rs7455088 | 2;1 |
| cg0537218 | 0.205461 | 0.486677 | 15.04708 | 6.15E-07 | 0.000375 | 6.878338 | 0.383946 | 0.589407 | -0.20546 | 3 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | rs5382653 | 21 |
| cg0685009 | 0.204833 | 0.693982 | 15.0398 | 6.17E-07 | 0.000376 | 6.874983 | 0.591565 | 0.796398 | -0.20483 | 1 | 1.83E+08 | R | II | LAMC1 | Body | opensea | Body-opens | rs5538018 | 38;33 |
| cg1331835 | 0.238448 | 0.568465 | 15.0397 | 6.17E-07 | 0.000376 | 6.874938 | 0.449242 | 0.687689 | -0.23845 | 7 | 6072034 | R | II | ANKRD61 | Body | opensea | Body-opens | rs5703818 | 45;6 |
| cg2377773 | 0.218755 | 0.692503 | 15.03273 | 6.19E-07 | 0.000376 | 6.871726 | 0.583125 | 0.80188 | -0.21875 | 1 | 1.61E+08 | R | II | ITLN1 | TSS1500 | opensea | TSS1500-op | rs7948293 | 49;45;21 |
| cg1237640 | 0.227927 | 0.469551 | 15.02769 | 6.21E-07 | 0.000376 | 6.869398 | 0.355587 | 0.583514 | -0.22793 | 14 | 21236306 | R | II | EDDM3B | TSS1500 | opensea | TSS1500-op | rs1144170 | 33;19;1 |
| cg1951555 | 0.223638 | 0.600734 | 15.02596 | 6.21E-07 | 0.000376 | 6.868599 | 0.488915 | 0.712553 | -0.22364 | 8 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | rs1420475 | 2 |
| cg2438227 | 0.214597 | 0.497888 | 15.0237 | 6.22E-07 | 0.000376 | 6.867558 | 0.390589 | 0.605186 | -0.2146 | 15 | 82204026 | R | II | | IGR | opensea | IGR-opense | rs5419843 | 9 |
| cg1918994 | 0.213382 | 0.691495 | 15.02144 | 6.23E-07 | 0.000376 | 6.866515 | 0.584804 | 0.798186 | -0.21338 | 10 | 4512423 | R | II | | IGR | opensea | IGR-opense | rs5745815 | 31 |
| cg1628445 | 0.213045 | 0.613835 | 15.0122 | 6.26E-07 | 0.000376 | 6.86225 | 0.507312 | 0.720357 | -0.21305 | 1 | 1.65E+08 | R | II | PBX1 | Body | opensea | Body-opens | rs1386340 | 1 |
| cg0977282 | 0.210098 | 0.647059 | 15.00555 | 6.28E-07 | 0.000377 | 6.859175 | 0.54201 | 0.752108 | -0.2101 | 2 | 1.97E+08 | R | II | HECW2 | 5'UTR | opensea | 5'UTR-open | | |
| cg1665534 | 0.20845 | 0.444917 | 14.99855 | 6.3E-07 | 0.000377 | 6.85594 | 0.340693 | 0.549142 | -0.20845 | 1 | 2.12E+08 | R | II | RD3 | 5'UTR | opensea | 5'UTR-open | rs5583865 | 47;22;21 |
| cg1735944 | 0.21889 | 0.567424 | 14.98101 | 6.35E-07 | 0.000379 | 6.847821 | 0.457979 | 0.676869 | -0.21889 | 5 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | rs5589379 | 48 |
| cg0464637 | 0.214581 | 0.478586 | 14.97578 | 6.37E-07 | 0.000379 | 6.845399 | 0.371295 | 0.585876 | -0.21458 | 2 | 2.09E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg0075782 | 0.274163 | 0.545957 | 14.9704 | 6.39E-07 | 0.000379 | 6.842907 | 0.408876 | 0.683039 | -0.27416 | 3 | 1.55E+08 | R | II | PLCH1 | Body | opensea | Body-opens | rs5756424 | 33 |
| cg1278806 | 0.200164 | 0.478041 | 14.96426 | 6.41E-07 | 0.000379 | 6.840061 | 0.377959 | 0.578123 | -0.20016 | 20 | 10244011 | F | II | SNAP25 | 5'UTR | opensea | 5'UTR-open | | |
| cg0438103 | 0.215771 | 0.499976 | 14.96374 | 6.41E-07 | 0.000379 | 6.839818 | 0.39209 | 0.607861 | -0.21577 | 11 | 1.18E+08 | R | II | DSCAML1 | Body | opensea | Body-opens | rs1844038 | 14;7 |
| cg1614517 | 0.208804 | 0.460419 | 14.95823 | 6.42E-07 | 0.000379 | 6.837264 | 0.356017 | 0.564821 | -0.2088 | 21 | 25596030 | F | II | | IGR | opensea | IGR-opense | rs1500489 | 0;9;28;39 |
| cg2336111 | 0.200487 | 0.601384 | 14.95569 | 6.43E-07 | 0.000379 | 6.836085 | 0.501141 | 0.701628 | -0.20049 | 7 | 1.57E+08 | F | II | PTPRN2 | Body | shelf | Body-shelf | chr7:1573( | rs1460666 | 12;40;49 |
| cg1132119 | 0.223969 | 0.420679 | 14.95495 | 6.43E-07 | 0.000379 | 6.835741 | 0.308694 | 0.532664 | -0.22397 | 3 | 37239890 | F | II | | IGR | opensea | IGR-opense | rs5445856 | 4;44 |
| cg1873661 | 0.219892 | 0.564589 | 14.95477 | 6.44E-07 | 0.000379 | 6.835658 | 0.454643 | 0.674535 | -0.21989 | 5 | 1.49E+08 | F | II | PPARGC1B | Body | opensea | Body-opens | rs1138742 | 33;38 |
| cg1323688 | 0.205551 | 0.488882 | 14.95009 | 6.45E-07 | 0.00038 | 6.833482 | 0.386106 | 0.591657 | -0.20555 | 5 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | rs5377582 | 29 |
| cg1022598 | 0.21482 | 0.660134 | 14.94278 | 6.47E-07 | 0.00038 | 6.83009 | 0.552724 | 0.767544 | -0.21482 | 11 | 64443279 | F | II | NRXN2 | Body | opensea | Body-opens | rs5659344 | 3;4;5 |
| cg2038891 | 0.202569 | 0.5246 | 14.94044 | 6.48E-07 | 0.00038 | 6.829003 | 0.423316 | 0.625885 | -0.20257 | 3 | 1.34E+08 | F | II | SLCO2A1 | Body | opensea | Body-opens | rs1449385 | 0 |
| cg1932573 | 0.200694 | 0.645351 | 14.91985 | 6.55E-07 | 0.00038 | 6.819426 | 0.545003 | 0.745698 | -0.20069 | 7 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg2563648 | 0.254614 | 0.482313 | 14.9166 | 6.56E-07 | 0.00038 | 6.81791 | 0.355006 | 0.609621 | -0.25461 | 6 | 33241410 | F | II | RPS18 | Body | shore | Body-shore | chr6:3323( | rs5345851 | 0;10 |
| cg1585747 | 0.245128 | 0.54877 | 14.90803 | 6.59E-07 | 0.00038 | 6.813918 | 0.426206 | 0.671334 | -0.24513 | 7 | 1.05E+08 | R | II | SRPK2 | Body | shelf | Body-shelf | chr7:1049( | rs5709144 | 26;25;24 |
| cg0186802 | 0.223759 | 0.52745 | 14.90642 | 6.59E-07 | 0.00038 | 6.813167 | 0.41557 | 0.639329 | -0.22376 | 11 | 8798692 | R | II | LOC10272( | Body | opensea | Body-opens | rs1379531 | 38;2 |
| cg1885677 | 0.236887 | 0.515603 | 14.89607 | 6.63E-07 | 0.00038 | 6.808341 | 0.39716 | 0.634046 | -0.23689 | 3 | 15408790 | R | II | | IGR | opensea | IGR-opense | rs1496311 | 1 |
| cg0494560 | 0.212536 | 0.55383 | 14.89437 | 6.63E-07 | 0.00038 | 6.807548 | 0.447562 | 0.660098 | -0.21254 | 20 | 43118723 | F | II | TTPAL | 3'UTR | opensea | 3'UTR-open | rs5670893 | 44 |
| cg2225231 | 0.244788 | 0.548919 | 14.88861 | 6.65E-07 | 0.00038 | 6.80486 | 0.426524 | 0.671313 | -0.24479 | 9 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | rs5401597 | 35;22 |
| cg1691705 | 0.236538 | 0.548913 | 14.8871 | 6.65E-07 | 0.00038 | 6.804159 | 0.430644 | 0.667182 | -0.23654 | 2 | 59690787 | R | II | | IGR | opensea | IGR-opense | rs5651533 | 43;29 |
| cg0064322 | 0.248067 | 0.550051 | 14.87987 | 6.68E-07 | 0.00038 | 6.80078 | 0.426017 | 0.674085 | -0.24807 | 5 | 88866084 | F | II | | IGR | opensea | IGR-opense | rs7491094 | 41 |
| cg2689427 | 0.205992 | 0.653673 | 14.87574 | 6.69E-07 | 0.00038 | 6.798853 | 0.550677 | 0.756669 | -0.20599 | 13 | 21016241 | F | II | CRYL1 | Body | opensea | Body-opens | rs5458937 | 0;20;36;37;44 |
| cg0306510 | 0.20183 | 0.422597 | 14.87069 | 6.71E-07 | 0.00038 | 6.79649 | 0.321682 | 0.523512 | -0.20183 | 2 | 31497155 | F | II | | IGR | opensea | IGR-opense | rs1498246 | 0;24 |
| cg1136794 | 0.227842 | 0.590544 | 14.86321 | 6.73E-07 | 0.00038 | 6.792996 | 0.476623 | 0.704465 | -0.22784 | 9 | 90254311 | F | II | DAPK1 | Body | opensea | Body-opens | rs5631473 | 20;32 |
| cg2543697 | 0.235076 | 0.566751 | 14.86277 | 6.74E-07 | 0.00038 | 6.792787 | 0.449213 | 0.684289 | -0.23508 | 9 | 27461655 | R | II | MOB3B | 5'UTR | opensea | 5'UTR-open | rs1096794 | 14;5;1 |
| cg2540629 | 0.210605 | 0.5524 | 14.86113 | 6.74E-07 | 0.00038 | 6.79202 | 0.447097 | 0.657702 | -0.2106 | 14 | 61070289 | R | II | | IGR | opensea | IGR-opense | rs5654230 | 51;42;6 |
| cg1211699 | 0.209393 | 0.529313 | 14.85549 | 6.76E-07 | 0.00038 | 6.789384 | 0.424617 | 0.63401 | -0.20939 | 8 | 1.31E+08 | F | II | GSDMC | Body | opensea | Body-opens | | |
| cg1575870 | 0.216277 | 0.609088 | 14.85312 | 6.77E-07 | 0.00038 | 6.788272 | 0.50095 | 0.717227 | -0.21628 | 12 | 25707667 | R | II | IFLTD1 | TSS1500 | opensea | TSS1500-op | rs5559275 | 46;29;18 |
| cg1778651 | 0.219166 | 0.547279 | 14.84984 | 6.78E-07 | 0.00038 | 6.786735 | 0.437696 | 0.656862 | -0.21917 | 3 | 46410422 | F | II | CCR5 | TSS1500 | opensea | TSS1500-op | rs5771138 | 11 |
| cg0715542 | 0.243886 | 0.492413 | 14.84363 | 6.8E-07 | 0.00038 | 6.783828 | 0.37047 | 0.614356 | -0.24389 | 1 | 12114402 | R | II | | IGR | opensea | IGR-opense | | |
| cg0077998 | 0.223027 | 0.527842 | 14.84344 | 6.8E-07 | 0.00038 | 6.783738 | 0.416328 | 0.639355 | -0.22303 | 22 | 39862809 | F | II | MGAT3 | 5'UTR | opensea | 5'UTR-open | rs5719715 | 44 |
| cg2700134 | 0.219383 | 0.516964 | 14.84126 | 6.81E-07 | 0.00038 | 6.782717 | 0.407272 | 0.626656 | -0.21938 | 19 | 30855603 | F | II | | IGR | opensea | IGR-opense | rs5774801 | 0;11;22;24;48 |
| cg2728896 | 0.229514 | 0.568123 | 14.83439 | 6.83E-07 | 0.00038 | 6.779496 | 0.453366 | 0.682879 | -0.22951 | 21 | 34106765 | R | II | C21orf66 | 3'UTR | opensea | 3'UTR-open | | |
| cg0766389 | 0.213091 | 0.411965 | 14.83189 | 6.84E-07 | 0.00038 | 6.778323 | 0.30542 | 0.518511 | -0.21309 | 4 | 1.22E+08 | F | II | TNIP3 | Body | opensea | Body-opens | rs5769055 | 1 |
| cg0773984 | 0.213515 | 0.592765 | 14.82735 | 6.86E-07 | 0.00038 | 6.776194 | 0.486008 | 0.699523 | -0.21351 | 6 | 1.6E+08 | R | II | FNDC1 | Body | shelf | Body-shelf | chr6:1596( | rs5304354 | 29 |
| cg1940579 | 0.22352 | 0.602341 | 14.82733 | 6.86E-07 | 0.00038 | 6.776184 | 0.490581 | 0.714101 | -0.22352 | 2 | 1.62E+08 | R | II | | IGR | opensea | IGR-opense | rs1892078 | 32 |
| cg0842105 | 0.235388 | 0.571678 | 14.82264 | 6.87E-07 | 0.00038 | 6.773986 | 0.453984 | 0.689372 | -0.23539 | 3 | 1.49E+08 | F | II | CPA3 | Body | opensea | Body-opens | rs1150547 | 13;25 |
| cg0549443 | 0.241619 | 0.528193 | 14.82239 | 6.87E-07 | 0.00038 | 6.773867 | 0.407384 | 0.649003 | -0.24162 | 6 | 1.56E+08 | R | II | NOX3 | Body | opensea | Body-opens | rs5381981 | 41;9;2 |
| cg2622453 | 0.226051 | 0.677593 | 14.82037 | 6.88E-07 | 0.00038 | 6.772919 | 0.564568 | 0.790619 | -0.22605 | 3 | 1.56E+08 | R | II | TIPARP | Body | opensea | Body-opens | rs1488327 | 9 |
| cg0385766 | 0.217235 | 0.525339 | 14.82037 | 6.88E-07 | 0.00038 | 6.772918 | 0.416722 | 0.633957 | -0.21723 | 5 | 1.72E+08 | R | II | SH3PXD2B | Body | opensea | Body-opens | rs1852336 | 37;2 |
| cg2346082 | 0.235282 | 0.363733 | 14.81803 | 6.89E-07 | 0.00038 | 6.771819 | 0.246092 | 0.481374 | -0.23528 | 3 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | rs5580877 | 18;7;2 |
| cg1555507 | 0.219849 | 0.634274 | 14.81196 | 6.91E-07 | 0.00038 | 6.768971 | 0.524349 | 0.744198 | -0.21985 | 3 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | rs5471755 | 2 |
| cg0813326 | 0.201165 | 0.555383 | 14.799 | 6.95E-07 | 0.000381 | 6.762878 | 0.4548 | 0.655965 | -0.20116 | 17 | 78061119 | F | II | CCDC40 | Body | opensea | Body-opens | rs1115083 | 22;51 |
| cg2273651 | 0.218728 | 0.578671 | 14.78539 | 7E-07 | 0.000381 | 6.756471 | 0.469307 | 0.688035 | -0.21873 | 11 | 10089331 | R | II | SBF2 | Body | opensea | Body-opens | rs5755318 | 34;28;13 |
| cg1399638 | 0.210835 | 0.488619 | 14.78435 | 7E-07 | 0.000381 | 6.755983 | 0.383201 | 0.594037 | -0.21084 | 2 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | rs7640536 | 34;31;14;4;1 |
| cg0418843 | 0.248537 | 0.517205 | 14.78035 | 7.02E-07 | 0.000381 | 6.754099 | 0.392936 | 0.641473 | -0.24854 | 20 | 24500288 | F | II | SYNDIG1 | 5'UTR | opensea | 5'UTR-open | rs5491396 | 1 |
| cg0346062 | 0.216524 | 0.66995 | 14.78004 | 7.02E-07 | 0.000381 | 6.753955 | 0.561688 | 0.778212 | -0.21652 | 11 | 1.2E+08 | F | II | PVRL1 | Body | opensea | Body-opens | rs5698581 | 0;1 |
| cg1246900 | 0.229151 | 0.460815 | 14.77602 | 7.03E-07 | 0.000381 | 6.752058 | 0.34624 | 0.575391 | -0.22915 | 7 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | rs5489640 | 12;1 |
| cg1649650 | 0.233809 | 0.433395 | 14.75785 | 7.1E-07 | 0.000381 | 6.74349 | 0.316491 | 0.5503 | -0.23381 | 16 | 9063534 | F | II | | IGR | opensea | IGR-opense | rs5356464 | 16 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1457513 | 0.221978 | 0.568132 | 14.75667 | 7.1E-07 | 0.000381 | 6.742933 | 0.457143 | 0.679121 | -0.22198 | 22 | 31933466 | R | II | SFI1 | Body | opensea | Body-opens | | rs5365868 | 18 | | |
| cg2253128 | 0.206549 | 0.549101 | 14.75335 | 7.11E-07 | 0.000381 | 6.741369 | 0.445826 | 0.652375 | -0.20655 | 7 | 1.32E+08 | F | II | PLXNA4 | Body | opensea | Body-opens | | | | | |
| cg1334986 | 0.239067 | 0.623967 | 14.74805 | 7.13E-07 | 0.000381 | 6.738865 | 0.504433 | 0.743501 | -0.23907 | 18 | 74781909 | R | II | MBP | Body | opensea | Body-opens | | rs5658853 | 21;18;6;1 | | |
| cg0485565 | 0.217355 | 0.407212 | 14.74349 | 7.15E-07 | 0.000381 | 6.736709 | 0.298534 | 0.515889 | -0.21736 | 3 | 1.34E+08 | F | II | RAB6B | Body | opensea | Body-opens | | | | | |
| cg1664952 | 0.227419 | 0.427745 | 14.74295 | 7.15E-07 | 0.000381 | 6.736454 | 0.314035 | 0.541454 | -0.22742 | 5 | 1.51E+08 | R | II | SPARC | 3'UTR | opensea | 3'UTR-open | | rs5651697 | 24 | | |
| cg1901013 | 0.204266 | 0.512975 | 14.73856 | 7.17E-07 | 0.000381 | 6.734382 | 0.410842 | 0.615108 | -0.20427 | 3 | 41695019 | R | II | ULK4 | Body | opensea | Body-opens | | rs1474753 | 51;29 | | |
| cg0280547 | 0.216944 | 0.628725 | 14.73452 | 7.18E-07 | 0.000381 | 6.732472 | 0.520253 | 0.737197 | -0.21694 | 1 | 23787236 | R | II | ASAP3 | Body | opensea | Body-opens | | | | | |
| cg1735449 | 0.219529 | 0.47516 | 14.73261 | 7.19E-07 | 0.000381 | 6.731566 | 0.365395 | 0.584925 | -0.21953 | 8 | 74037307 | F | II | | IGR | opensea | IGR-opense | | rs5458792 | 37;42 | | |
| cg1598515 | 0.212903 | 0.446877 | 14.73248 | 7.19E-07 | 0.000381 | 6.731507 | 0.340426 | 0.553329 | -0.2129 | 6 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs5345485 | 0;23 | | |
| cg0983683 | 0.248229 | 0.56521 | 14.72693 | 7.21E-07 | 0.000381 | 6.728878 | 0.441095 | 0.689325 | -0.24823 | 18 | 77723602 | R | II | HSBP1L1 | TSS1500 | shore | TSS1500-sh | chr18:777 | rs5501489 | 21;4 | | |
| cg2572082 | 0.215544 | 0.559029 | 14.72359 | 7.22E-07 | 0.000381 | 6.727298 | 0.451257 | 0.666801 | -0.21554 | 1 | 2849682 | F | II | | IGR | shore | IGR-shore | chr1:2850 | rs5593219 | 0;7;10;33 | | |
| cg0968806 | 0.237381 | 0.646498 | 14.72299 | 7.22E-07 | 0.000381 | 6.727015 | 0.527808 | 0.765188 | -0.23738 | 5 | 1.46E+08 | R | II | PPP2R2B | 5'UTR | opensea | 5'UTR-open | | rs5771630 | 50;2;1 | | |
| cg1620620 | 0.222227 | 0.435851 | 14.71742 | 7.24E-07 | 0.000381 | 6.724378 | 0.324738 | 0.546964 | -0.22223 | 3 | 14307158 | F | II | | IGR | opensea | IGR-opense | | rs5690595 | 49 | | |
| cg0776749 | 0.237685 | 0.607106 | 14.71395 | 7.26E-07 | 0.000381 | 6.722734 | 0.488263 | 0.725949 | -0.23769 | 6 | 16698338 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs1876109 | 1;43 | | |
| cg0122374 | 0.235628 | 0.491051 | 14.71277 | 7.26E-07 | 0.000381 | 6.722176 | 0.373237 | 0.608866 | -0.23563 | 2 | 71309618 | R | II | | IGR | opensea | IGR-opense | | rs11222541 | 45;34;19 | | |
| cg0667097 | 0.229348 | 0.532153 | 14.71237 | 7.26E-07 | 0.000381 | 6.721988 | 0.417479 | 0.646827 | -0.22935 | 9 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs1831295 | 27;1 | | |
| cg1344283 | 0.240445 | 0.527635 | 14.71176 | 7.26E-07 | 0.000381 | 6.721698 | 0.407413 | 0.647858 | -0.24044 | 2 | 4962504 | F | II | | IGR | opensea | IGR-opense | | rs6721028 | 29;50 | | |
| cg0404563 | 0.234833 | 0.553766 | 14.71154 | 7.26E-07 | 0.000381 | 6.721596 | 0.436349 | 0.671183 | -0.23483 | 2 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs5421717 | 4;20;50 | | |
| cg2703986 | 0.237863 | 0.554991 | 14.70845 | 7.28E-07 | 0.000381 | 6.72013 | 0.43606 | 0.673922 | -0.23786 | 8 | 29357644 | R | II | | IGR | opensea | IGR-opense | | rs1513267 | 2 | | |
| cg0375923 | 0.20182 | 0.493003 | 14.70752 | 7.28E-07 | 0.000381 | 6.719691 | 0.392093 | 0.593914 | -0.20182 | 15 | 68891950 | F | II | CORO2B | Body | opensea | Body-opens | | rs1508856 | 9 | | |
| cg2715851 | 0.252857 | 0.508219 | 14.70537 | 7.29E-07 | 0.000381 | 6.718669 | 0.381791 | 0.634647 | -0.25286 | 6 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5336299 | 0 | | |
| cg1184655 | 0.207138 | 0.557391 | 14.69748 | 7.32E-07 | 0.000381 | 6.714931 | 0.453822 | 0.66096 | -0.20714 | 19 | 55788089 | R | II | HSPBP1 | Body | shelf | Body-shelf | chr19:557 | rs5620439 | 36;23;10;6 | | |
| cg1748400 | 0.206713 | 0.562007 | 14.69577 | 7.32E-07 | 0.000381 | 6.714118 | 0.45865 | 0.665364 | -0.20671 | 2 | 75700435 | R | II | | IGR | opensea | IGR-opense | | rs6760490 | 12;1 | | |
| cg2492271 | 0.205014 | 0.445006 | 14.69362 | 7.33E-07 | 0.000381 | 6.713099 | 0.342499 | 0.547513 | -0.20501 | 12 | 7954043 | R | II | | IGR | opensea | IGR-opense | | rs7301419 | 48;10;6;2 | | |
| cg0497161 | 0.232096 | 0.458487 | 14.69017 | 7.34E-07 | 0.000381 | 6.711457 | 0.342439 | 0.574535 | -0.2321 | 3 | 61506940 | R | II | | IGR | opensea | IGR-opense | | rs1915519 | 42;30;24 | | |
| cg1636218 | 0.216544 | 0.641132 | 14.68685 | 7.35E-07 | 0.000381 | 6.709882 | 0.532861 | 0.749404 | -0.21654 | 3 | 45390583 | F | II | | IGR | opensea | IGR-opense | | | | | |
| cg1310160 | 0.209739 | 0.385479 | 14.68664 | 7.36E-07 | 0.000381 | 6.709785 | 0.28061 | 0.490349 | -0.20974 | 1 | 1.11E+08 | F | II | SLC16A4 | Body | opensea | Body-opens | | | | | |
| cg0854272 | 0.256446 | 0.50079 | 14.68591 | 7.36E-07 | 0.000381 | 6.709436 | 0.372567 | 0.629013 | -0.25645 | 8 | 75010420 | R | II | | IGR | opensea | IGR-opense | | rs8024860 | 8 | | |
| cg0918933 | 0.202501 | 0.659072 | 14.67721 | 7.39E-07 | 0.000382 | 6.705304 | 0.557821 | 0.760322 | -0.2025 | 19 | 8745107 | R | II | | IGR | opensea | IGR-opense | | rs7811904 | 2 | | |
| cg1453878 | 0.216753 | 0.651398 | 14.67714 | 7.39E-07 | 0.000382 | 6.705272 | 0.543022 | 0.759775 | -0.21675 | 4 | 74402714 | R | II | | IGR | opensea | IGR-opense | | rs1858112 | 32;19;17;7 | | |
| cg0887746 | 0.213835 | 0.572417 | 14.66888 | 7.42E-07 | 0.000383 | 6.701344 | 0.465499 | 0.679334 | -0.21384 | 1 | 17520718 | R | II | | IGR | opensea | IGR-opense | | rs5617024 | 12;2 | | |
| cg2253472 | 0.229507 | 0.529636 | 14.66043 | 7.45E-07 | 0.000384 | 6.697325 | 0.414883 | 0.644389 | -0.22951 | 13 | 78358711 | F | II | | IGR | opensea | IGR-opense | | rs1870320 | 1;37 | | |
| cg2469296 | 0.207419 | 0.626293 | 14.65569 | 7.47E-07 | 0.000384 | 6.695071 | 0.522583 | 0.730002 | -0.20742 | 5 | 55555411 | R | II | | IGR | opensea | IGR-opense | | rs5511078 | 48;19 | | |
| cg2309558 | 0.20338 | 0.43452 | 14.65191 | 7.48E-07 | 0.000384 | 6.693272 | 0.33283 | 0.53621 | -0.20338 | 12 | 1.21E+08 | R | II | | IGR | shelf | IGR-shelf | chr12:120 | | | | |
| cg1327146 | 0.223895 | 0.556447 | 14.65003 | 7.49E-07 | 0.000384 | 6.692377 | 0.4445 | 0.668395 | -0.2239 | 5 | 1.24E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5319567 | 2 | | |
| cg1468887 | 0.233864 | 0.518827 | 14.64919 | 7.5E-07 | 0.000384 | 6.691974 | 0.401895 | 0.635758 | -0.23386 | 2 | 2.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs1144779 | 32 | | |
| cg0022245 | 0.200493 | 0.536309 | 14.64829 | 7.5E-07 | 0.000384 | 6.691546 | 0.436062 | 0.636555 | -0.20049 | 3 | 23632628 | F | II | MIR548AC | Body | opensea | Body-opens | | | | | |
| cg1940346 | 0.209482 | 0.502207 | 14.63793 | 7.54E-07 | 0.000385 | 6.686611 | 0.397466 | 0.606948 | -0.20948 | 12 | 1.23E+08 | R | II | LRRC43 | TSS1500 | opensea | TSS1500-op | | rs1492543 | 38;29;7;5 | | |
| cg1611698 | 0.238539 | 0.594017 | 14.63095 | 7.56E-07 | 0.000385 | 6.683281 | 0.474747 | 0.713286 | -0.23854 | 6 | 97395162 | R | II | KLHL32 | 5'UTR | opensea | 5'UTR-open | | rs5820473 | 20;2 | | |
| cg0889483 | 0.220852 | 0.520027 | 14.6276 | 7.58E-07 | 0.000385 | 6.681685 | 0.409601 | 0.630453 | -0.22085 | 10 | 5119369 | F | II | AKR1C3 | Body | opensea | Body-opens | | rs5489609 | 19 | | |
| cg1775188 | 0.22716 | 0.434291 | 14.61923 | 7.61E-07 | 0.000386 | 6.677686 | 0.320711 | 0.547871 | -0.22716 | 3 | 18141351 | F | II | LOC33986 | Body | opensea | Body-opens | | rs5337594 | 32 | | |
| cg1543175 | 0.20372 | 0.580443 | 14.61915 | 7.61E-07 | 0.000386 | 6.67765 | 0.478583 | 0.682303 | -0.20372 | 17 | 48183636 | F | II | PDK2 | 3'UTR | shore | 3'UTR-shor | chr17:481 | rs5524270 | 0;17;36 | | |
| cg0163808 | 0.246173 | 0.538573 | 14.61499 | 7.63E-07 | 0.000386 | 6.675661 | 0.415486 | 0.661659 | -0.24617 | 4 | 75185356 | R | II | | IGR | opensea | IGR-opense | | rs2846231 | 34;2;1 | | |
| cg1334094 | 0.219371 | 0.412869 | 14.61114 | 7.64E-07 | 0.000386 | 6.673824 | 0.303183 | 0.522554 | -0.21937 | 12 | 40229749 | F | II | SLC2A13 | Body | opensea | Body-opens | | rs5408403 | 4 | | |
| cg2647751 | 0.2071 | 0.443898 | 14.59793 | 7.69E-07 | 0.000387 | 6.667506 | 0.340348 | 0.547448 | -0.2071 | 1 | 47497280 | F | II | CYP4X1 | Body | opensea | Body-opens | | rs1154168 | 12;31;50 | | |
| cg1191066 | 0.209816 | 0.606226 | 14.59413 | 7.71E-07 | 0.000387 | 6.665689 | 0.501318 | 0.711134 | -0.20982 | 20 | 61812321 | F | II | | IGR | shore | IGR-shore | chr20:618 | rs5514920 | 1;36 | | |
| cg0253485 | 0.245659 | 0.608663 | 14.57892 | 7.77E-07 | 0.000388 | 6.658406 | 0.485833 | 0.731492 | -0.24566 | 12 | 66228466 | F | II | HMGA2 | Body | opensea | Body-opens | | rs5365469 | 23 | | |
| cg2086126 | 0.220141 | 0.53765 | 14.57399 | 7.79E-07 | 0.000388 | 6.656042 | 0.42758 | 0.647721 | -0.22014 | 2 | 18944917 | R | II | | IGR | opensea | IGR-opense | | rs5615764 | 51;1 | | |
| cg1476736 | 0.235309 | 0.478328 | 14.56169 | 7.83E-07 | 0.000389 | 6.650143 | 0.360674 | 0.595982 | -0.23531 | 18 | 46695469 | R | II | DYM | Body | opensea | Body-opens | | rs5758856 | 35;2 | | |
| cg1264645 | 0.264758 | 0.593645 | 14.56155 | 7.83E-07 | 0.000389 | 6.650079 | 0.461266 | 0.726024 | -0.26476 | 2 | 1.45E+08 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg0168566 | 0.208568 | 0.486633 | 14.55193 | 7.87E-07 | 0.000389 | 6.64546 | 0.382349 | 0.590917 | -0.20857 | 15 | 68905043 | R | II | CORO2B | Body | opensea | Body-opens | | rs5608896 | 48;40;27 | | |
| cg1270236 | 0.267043 | 0.553049 | 14.54979 | 7.88E-07 | 0.000389 | 6.644431 | 0.419528 | 0.686571 | -0.26704 | 1 | 86035283 | R | II | DDAH1 | 5'UTR | opensea | 5'UTR-open | | rs5689986 | 29;15;1 | | |
| cg2246882 | 0.202724 | 0.447048 | 14.54896 | 7.88E-07 | 0.000389 | 6.644033 | 0.345686 | 0.54841 | -0.20272 | 4 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs5532346 | 18;11;9 | | |
| cg2708533 | 0.234613 | 0.648384 | 14.54343 | 7.91E-07 | 0.000389 | 6.641375 | 0.531077 | 0.76569 | -0.23461 | 7 | 83784833 | R | II | SEMA3A | Body | opensea | Body-opens | | rs5575313 | 31;16;14 | | | |
| cg0209110 | 0.204798 | 0.531855 | 14.54202 | 7.91E-07 | 0.000389 | 6.640696 | 0.429456 | 0.634254 | -0.2048 | 6 | 42123029 | R | II | GUCA1A | TSS200 | opensea | TSS200-ope | | | | | |
| cg2753945 | 0.224737 | 0.723727 | 14.5391 | 7.92E-07 | 0.000389 | 6.639293 | 0.611358 | 0.836095 | -0.22474 | 9 | 88058136 | F | II | | IGR | opensea | IGR-opense | | rs5754987 | 15 | | |
| cg0648577 | 0.25943 | 0.560105 | 14.5369 | 7.93E-07 | 0.00039 | 6.638238 | 0.43039 | 0.68982 | -0.25943 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-opens | | rs1408609 | 16;15;10;9 | | | |
| cg2093759 | 0.236031 | 0.590137 | 14.5298 | 7.96E-07 | 0.000391 | 6.634821 | 0.472121 | 0.708152 | -0.23603 | 6 | 15876596 | R | II | | IGR | opensea | IGR-opense | | rs1156600 | 24 | | |
| cg0785451 | 0.215884 | 0.538818 | 14.5227 | 7.99E-07 | 0.000391 | 6.631402 | 0.430876 | 0.64676 | -0.21588 | 4 | 42893831 | R | II | GRXCR1 | TSS1500 | opensea | TSS1500-op | | rs3697709 | 36;1 | | |
| cg2110862 | 0.22254 | 0.51909 | 14.52171 | 7.99E-07 | 0.000391 | 6.630927 | 0.40782 | 0.63036 | -0.22254 | 8 | 28022272 | F | II | ELP3 | Body | opensea | Body-opens | | rs1840693 | 0;1 | | |
| cg2480926 | 0.253624 | 0.453819 | 14.52139 | 8E-07 | 0.000391 | 6.630774 | 0.327006 | 0.580631 | -0.25362 | 17 | 74260692 | F | II | FAM100B | TSS1500 | shore | TSS1500-sh | chr17:742 | rs5638810 | 50 | | |
| cg1063154 | 0.253797 | 0.570018 | 14.51737 | 8.01E-07 | 0.000391 | 6.628838 | 0.443119 | 0.696916 | -0.2538 | 4 | 1.15E+08 | F | II | | IGR | shelf | IGR-shelf | chr4:1149 | rs5359994 | 42 | | |
| cg0543936 | 0.217523 | 0.526439 | 14.51378 | 8.03E-07 | 0.000391 | 6.627108 | 0.417677 | 0.6352 | -0.21752 | 15 | 45028098 | F | II | TRIM69 | TSS1500 | opensea | TSS1500-op | | | | | |
| cg0302972 | 0.226222 | 0.520265 | 14.5069 | 8.05E-07 | 0.000391 | 6.623791 | 0.407154 | 0.633376 | -0.22622 | 16 | 18799331 | R | II | RPS15A | Body | shore | Body-shore | chr16:188 | | | | |
| cg1348303 | 0.214808 | 0.445533 | 14.50429 | 8.07E-07 | 0.000391 | 6.622533 | 0.338129 | 0.552938 | -0.21481 | 12 | 1.28E+08 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs1490893 | 11;5;2;1 | | |
| cg1457344 | 0.213448 | 0.499581 | 14.50012 | 8.08E-07 | 0.000391 | 6.620524 | 0.392857 | 0.606305 | -0.21345 | 7 | 27165187 | F | II | HOXA3 | 5'UTR | shore | 5'UTR-shor | chr7:2716 | rs5283100 | 1;34 | | |
| cg1215445 | 0.216817 | 0.532517 | 14.49015 | 8.12E-07 | 0.000392 | 6.615712 | 0.424109 | 0.640926 | -0.21682 | 6 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs1849185 | 0 | | |
| cg0141114 | 0.21977 | 0.502923 | 14.48601 | 8.14E-07 | 0.000392 | 6.61371 | 0.393038 | 0.612808 | -0.21977 | 9 | 92770209 | R | II | | IGR | opensea | IGR-opense | | rs11441215 | 5;2;1 | | |
| cg2090297 | 0.200905 | 0.443342 | 14.48253 | 8.16E-07 | 0.000392 | 6.612032 | 0.34289 | 0.543795 | -0.20091 | 8 | 11138403 | F | II | | IGR | shelf | IGR-shelf | chr8:1114 | rs5385895 | 20;41;51 | | |
| cg2203907 | 0.216564 | 0.662871 | 14.47603 | 8.18E-07 | 0.000393 | 6.608888 | 0.554589 | 0.771153 | -0.21656 | 4 | 72635221 | R | II | GC | Body | opensea | Body-opens | | rs5622825 | 2 | | |
| cg1367680 | 0.224474 | 0.539875 | 14.47 | 8.21E-07 | 0.000394 | 6.605974 | 0.427638 | 0.652112 | -0.22447 | 9 | 89722432 | R | II | | IGR | opensea | IGR-opense | | rs7590373 | 19;1 | | |
| cg1959553 | 0.222324 | 0.459029 | 14.46167 | 8.24E-07 | 0.000394 | 6.601944 | 0.347867 | 0.570191 | -0.22232 | 5 | 1.24E+08 | R | II | ZNF608 | Body | opensea | Body-opens | | rs5668573 | 1 | | |
| cg1747573 | 0.209576 | 0.533911 | 14.45889 | 8.25E-07 | 0.000394 | 6.600597 | 0.429123 | 0.638699 | -0.20958 | 1 | 96830030 | F | II | | IGR | opensea | IGR-opense | | | | | |
| cg1778166 | 0.240852 | 0.590543 | 14.45767 | 8.26E-07 | 0.000394 | 6.600006 | 0.470117 | 0.710969 | -0.24085 | 20 | 9334016 | R | II | PLCB4 | Body | opensea | Body-opens | | rs12480293 | 38;16;15;1 | | | |
| cg2105004 | 0.23773 | 0.641414 | 14.44775 | 8.3E-07 | 0.000395 | 6.595202 | 0.522549 | 0.760279 | -0.23773 | 3 | 17790877 | F | II | | IGR | opensea | IGR-opense | | rs1446885 | 19;35 | | |
| cg0709718 | 0.208248 | 0.461359 | 14.44178 | 8.33E-07 | 0.000395 | 6.592309 | 0.357235 | 0.565483 | -0.20825 | 4 | 1.54E+08 | F | II | FHDC1 | 3'UTR | shelf | 3'UTR-shelf | chr4:1153 | rs908527 | 13 | | |
| cg0171591 | 0.200106 | 0.509096 | 14.43337 | 8.36E-07 | 0.000395 | 6.588233 | 0.409042 | 0.609149 | -0.20011 | 17 | 4634022 | R | II | MED11 | TSS1500 | shore | TSS1500-sh | chr17:463 | rs11495202 | 2 | | |
| cg1524257 | 0.213661 | 0.487429 | 14.43272 | 8.37E-07 | 0.000395 | 6.587914 | 0.380598 | 0.594259 | -0.21366 | 2 | 1.37E+08 | F | II | | IGR | opensea | IGR-opense | | rs1818321 | 1;7 | | |
| cg1807393 | 0.261073 | 0.595373 | 14.43229 | 8.37E-07 | 0.000395 | 6.587709 | 0.464836 | 0.725909 | -0.26107 | 4 | 1.01E+08 | R | II | DAPP1 | 3'UTR | opensea | 3'UTR-open | | | | | |
| cg0894575 | 0.22408 | 0.462106 | 14.43115 | 8.37E-07 | 0.000395 | 6.587153 | 0.350067 | 0.574146 | -0.22408 | 6 | 54573250 | R | II | | IGR | opensea | IGR-opense | | rs7966587 | 40 | | |
| cg2749447 | 0.229607 | 0.451551 | 14.42618 | 8.39E-07 | 0.000395 | 6.584744 | 0.336748 | 0.566355 | -0.22961 | 6 | 84172561 | F | II | | IGR | opensea | IGR-opense | | rs13954088 | 8;36 | | |
| cg0689336 | 0.209443 | 0.466149 | 14.42439 | 8.4E-07 | 0.000395 | 6.583874 | 0.361427 | 0.570871 | -0.20944 | 20 | 47897124 | F | II | C20orf199 | Body | shore | Body-shore | chr20:478 | rs5279959 | 22 | | |
| cg0142016 | 0.219904 | 0.599539 | 14.41895 | 8.42E-07 | 0.000395 | 6.581232 | 0.489586 | 0.709491 | -0.2199 | 15 | 54793071 | F | II | UNC13C | Body | opensea | Body-opens | | rs5712771 | 5 | | |
| cg0113502 | 0.240583 | 0.440117 | 14.41805 | 8.43E-07 | 0.000395 | 6.580795 | 0.319825 | 0.560408 | -0.24058 | 5 | 7872175 | R | II | MTRR | Body | shelf | Body-shelf | chr5:7868 | rs7821590 | 48;45;27;1 | | |
| cg2286841 | 0.240809 | 0.494079 | 14.41466 | 8.44E-07 | 0.000395 | 6.579146 | 0.373675 | 0.614484 | -0.24081 | 4 | 15987764 | F | II | PROM1 | Body | opensea | Body-opens | | rs7688123 | 43 | | |
| cg0182280 | 0.213424 | 0.521038 | 14.40957 | 8.46E-07 | 0.000395 | 6.576675 | 0.414326 | 0.62775 | -0.21342 | 5 | 53615682 | R | II | LINC01033 | TSS1500 | opensea | TSS1500-op | | rs1146412 | 45;15;1 | | |
| cg0145718 | 0.216623 | 0.578364 | 14.40871 | 8.47E-07 | 0.000395 | 6.576254 | 0.470052 | 0.686676 | -0.21662 | 6 | 47252055 | R | II | TNFRSF21 | Body | opensea | Body-opens | | rs1465783 | 12;2;1 | | |
| cg1871197 | 0.21508 | 0.464658 | 14.40154 | 8.5E-07 | 0.000395 | 6.572768 | 0.357118 | 0.572199 | -0.21508 | 3 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs5471840 | 12;2 | | |
| cg1486825 | 0.23494 | 0.613682 | 14.40064 | 8.5E-07 | 0.000395 | 6.57233 | 0.496212 | 0.731152 | -0.23494 | 6 | 82958285 | F | II | IBTK | TSS1500 | shore | TSS1500-sh | chr6:8295 | rs5578034 | 15 | | |
| cg2201576 | 0.335975 | 0.548551 | 14.39952 | 8.51E-07 | 0.000395 | 6.571784 | 0.380564 | 0.716539 | -0.33598 | 6 | 34624127 | F | II | C6orf106 | Body | opensea | Body-opens | | rs5715076 | 0;21;39;46 | | |
| cg0145518 | 0.20081 | 0.660457 | 14.39951 | 8.51E-07 | 0.000395 | 6.571784 | 0.560052 | 0.760862 | -0.20081 | 5 | 34917095 | R | II | RAD1 | TSS1500 | shore | TSS1500-sh | chr5:3491 | | | | |
| cg1982384 | 0.227062 | 0.478465 | 14.39692 | 8.52E-07 | 0.000395 | 6.570522 | 0.364934 | 0.591996 | -0.22706 | 6 | 1.39E+08 | F | II | KIAA1244 | Body | opensea | Body-opens | | rs18779216 | 14 | | |
| cg0616460 | 0.220833 | 0.515037 | 14.39672 | 8.52E-07 | 0.000395 | 6.570423 | 0.40462 | 0.625453 | -0.22083 | 8 | 87086018 | F | II | | IGR | shelf | IGR-shelf | chr8:8708 | rs1834219 | 0;9;12;24;46 | | |
| cg0240440 | 0.229249 | 0.564529 | 14.3965 | 8.52E-07 | 0.000395 | 6.570319 | 0.449905 | 0.679154 | -0.22925 | 9 | 5480172 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg2727824 | 0.216498 | 0.627648 | 14.39381 | 8.53E-07 | 0.000395 | 6.56901 | 0.519399 | 0.735897 | -0.2165 | 2 | 2.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs3745788 | 42;1 | | |
| cg0021188 | 0.223516 | 0.564377 | 14.39175 | 8.54E-07 | 0.000395 | 6.568004 | 0.452619 | 0.676135 | -0.22352 | 3 | 1.76E+08 | F | II | | IGR | opensea | IGR-opense | | rs5523777 | 0;5;10;17;40;47 | | |
| cg2313071 | 0.215479 | 0.521957 | 14.39001 | 8.55E-07 | 0.000396 | 6.567159 | 0.414217 | 0.629696 | -0.21548 | 9 | 78526426 | R | II | PCSK5 | Body | opensea | Body-opens | | rs5771045 | 21;1 | | |
| cg0920406 | 0.231964 | 0.54614 | 14.38505 | 8.57E-07 | 0.000396 | 6.564742 | 0.430158 | 0.662122 | -0.23196 | 3 | 1.41E+08 | R | II | SPSB4 | Body | opensea | Body-opens | | rs1885349 | 2 | | |
| cg1173789 | 0.219197 | 0.705959 | 14.36595 | 8.66E-07 | 0.000397 | 6.555428 | 0.596361 | 0.815557 | -0.2192 | 5 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs5662490 | 49;2;1 | | |
| cg0088622 | 0.236853 | 0.536659 | 14.36544 | 8.66E-07 | 0.000397 | 6.555181 | 0.418233 | 0.655086 | -0.23685 | 9 | 87374383 | R | II | NTRK2 | Body | opensea | Body-opens | | | | | |
| cg1341398 | 0.222349 | 0.551223 | 14.36387 | 8.67E-07 | 0.000397 | 6.554415 | 0.440049 | 0.662398 | -0.22235 | 13 | 44868172 | F | II | | IGR | opensea | IGR-opense | | | | | |
| cg1941172 | 0.230732 | 0.484296 | 14.36347 | 8.67E-07 | 0.000397 | 6.554221 | 0.36893 | 0.599662 | -0.23073 | 17 | 34207663 | F | II | CCL5 | TSS1500 | opensea | TSS1500-op | | | | | |
| cg1124864 | 0.267126 | 0.545845 | 14.36198 | 8.67E-07 | 0.000397 | 6.553495 | 0.412282 | 0.679407 | -0.26713 | 12 | 50645711 | F | II | LIMA1 | 5'UTR | opensea | 5'UTR-open | | rs5773929 | 0 | | |
| cg1528560 | 0.206334 | 0.612622 | 14.3521 | 8.72E-07 | 0.000398 | 6.548666 | 0.509455 | 0.715789 | -0.20633 | 14 | 68466640 | F | II | RAD51B | Body | opensea | Body-opens | | rs1387527 | 4 | | |
| cg1453724 | 0.249157 | 0.548762 | 14.3435 | 8.76E-07 | 0.000399 | 6.544466 | 0.424184 | 0.673341 | -0.24916 | 9 | 1.27E+08 | R | II | DENND1A | Body | opensea | Body-opens | | rs3724937 | 38;1 | | |
| cg0103199 | 0.206775 | 0.514593 | 14.34301 | 8.76E-07 | 0.000399 | 6.544224 | 0.411206 | 0.617981 | -0.20677 | 6 | 31941361 | F | II | STK19 | Body | shore | Body-shore | chr6:3193 | rs11963820 | 10;28;29;51 | | |
| cg1593688 | 0.200932 | 0.543884 | 14.33931 | 8.78E-07 | 0.000399 | 6.542415 | 0.443418 | 0.64435 | -0.20093 | 22 | 22390113 | F | II | | IGR | opensea | IGR-opense | | rs1380607 | 1;18 | | |
| cg1974034 | 0.241826 | 0.572718 | 14.3304 | 8.82E-07 | 0.0004 | 6.538057 | 0.451805 | 0.69363 | -0.24183 | 8 | 20693391 | R | II | | IGR | opensea | IGR-opense | | rs5566613 | 17;9 | | |
| cg1590905 | 0.25481 | 0.527003 | 14.32911 | 8.82E-07 | 0.0004 | 6.537426 | 0.399598 | 0.654408 | -0.25481 | 12 | 71837175 | R | II | LGR5 | Body | shelf | Body-shelf | chr12:718 | rs5607118 | 34;1 | | |
| cg1368502 | 0.218506 | 0.549711 | 14.32623 | 8.83E-07 | 0.0004 | 6.536016 | 0.440458 | 0.658964 | -0.21851 | 1 | 79158388 | F | II | | IGR | opensea | IGR-opense | | rs1839935 | 0;13 | | |
| cg2257639 | 0.241699 | 0.574179 | 14.32149 | 8.86E-07 | 0.0004 | 6.533697 | 0.453329 | 0.695028 | -0.2417 | 13 | 24042599 | F | II | LINC00327 | TSS1500 | shore | TSS1500-sh | chr13:240 | | | | |
| cg0599901 | 0.214771 | 0.662775 | 14.32125 | 8.86E-07 | 0.0004 | 6.533575 | 0.55539 | 0.770161 | -0.21477 | 3 | 63881712 | R | II | ATXN7 | 5'UTR | opensea | 5'UTR-open | | rs5414952 | 39;10 | | |
| cg1259363 | 0.211416 | 0.494888 | 14.321 | 8.86E-07 | 0.0004 | 6.533453 | 0.38918 | 0.600596 | -0.21142 | 11 | 5143555 | F | II | OR52A4 | TSS1500 | opensea | TSS1500-op | | rs1124622 | 31 | | |
| cg1049744 | 0.241312 | 0.49695 | 14.31979 | 8.86E-07 | 0.0004 | 6.532863 | 0.376294 | 0.617606 | -0.24131 | 13 | 77427321 | F | II | | IGR | opensea | IGR-opense | | rs5759555 | 0;1;17;23;46;47 | | |
| cg0037625 | 0.206509 | 0.463254 | 14.31818 | 8.87E-07 | 0.0004 | 6.532074 | 0.359999 | 0.566508 | -0.20651 | 13 | 23946885 | R | II | SACS | 5'UTR | shelf | 5'UTR-shelf | chr13:239 | rs1131096 | 34;22;2 | | |
| cg0610555 | 0.205091 | 0.634361 | 14.31763 | 8.87E-07 | 0.0004 | 6.531804 | 0.531815 | 0.736907 | -0.20509 | 6 | 22017093 | R | II | FLJ22536 | Body | opensea | Body-opens | | | | | |
| cg1393180 | 0.243675 | 0.472392 | 14.31306 | 8.89E-07 | 0.0004 | 6.529564 | 0.350555 | 0.594229 | -0.24367 | 12 | 71983445 | F | II | | IGR | opensea | IGR-opense | | rs1180832 | 0 | | |
| cg2359419 | 0.214623 | 0.457397 | 14.30688 | 8.92E-07 | 0.0004 | 6.526535 | 0.350085 | 0.564708 | -0.21462 | 2 | 45121446 | F | II | | IGR | opensea | IGR-opense | | rs5745534 | 0;1;20;33 | | |
| cg2057672 | 0.216707 | 0.650517 | 14.30472 | 8.93E-07 | 0.0004 | 6.525476 | 0.542164 | 0.758871 | -0.21671 | 11 | 3637658 | F | II | | IGR | opensea | IGR-opense | | rs5778313 | 0;24 | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0870287 | 0.257682 | 0.558469 | 14.30182 | 8.95E-07 | 0.0004 | 6.524052 | 0.429628 | 0.68731 | -0.25768 | 10 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs1853060 | 1;32;42 |
| cg0690631 | 0.225545 | 0.528713 | 14.29748 | 8.97E-07 | 0.0004 | 6.521922 | 0.41594 | 0.641486 | -0.22555 | 6 | 74502300 | R | II | CD109 | Body | opensea | Body-opens | | rs5651457 | 23;19;10;5;1 |
| cg0146418 | 0.278602 | 0.493724 | 14.29744 | 8.97E-07 | 0.0004 | 6.521901 | 0.354423 | 0.633025 | -0.2786 | 10 | 52191661 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5672233 | 0 |
| cg1218908 | 0.253641 | 0.504656 | 14.29408 | 8.98E-07 | 0.0004 | 6.520254 | 0.377835 | 0.631477 | -0.25364 | 4 | 1.85E+08 | F | II | | IGR | opensea | IGR-opense | | rs1905910 | 0 |
| cg0544729 | 0.251994 | 0.600165 | 14.2921 | 8.99E-07 | 0.0004 | 6.51928 | 0.474168 | 0.726162 | -0.25199 | 5 | 1.58E+08 | R | II | EBF1 | Body | opensea | Body-opens | | | |
| cg2209337 | 0.221235 | 0.588192 | 14.29182 | 8.99E-07 | 0.0004 | 6.519142 | 0.477575 | 0.69881 | -0.22123 | 2 | 1.74E+08 | R | II | ZAK | Body | opensea | Body-opens | | | |
| cg1415440 | 0.205125 | 0.442048 | 14.28805 | 9.01E-07 | 0.0004 | 6.517293 | 0.339486 | 0.544611 | -0.20512 | 18 | 52792171 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5339661 | 16;2 |
| cg1985948 | 0.23034 | 0.53457 | 14.28763 | 9.01E-07 | 0.0004 | 6.517088 | 0.4194 | 0.64974 | -0.23034 | 21 | 39234433 | R | II | KCNJ6 | 5'UTR | opensea | 5'UTR-open | | rs1929960 | 37;13;12 |
| cg0519545 | 0.23131 | 0.610396 | 14.28729 | 9.01E-07 | 0.0004 | 6.516919 | 0.494741 | 0.72605 | -0.23131 | 12 | 69660384 | F | II | CPSF6 | 3'UTR | opensea | 3'UTR-open | | rs5389524 | 1;4 |
| cg0320366 | 0.210381 | 0.573988 | 14.28469 | 9.03E-07 | 0.0004 | 6.51564 | 0.468798 | 0.679179 | -0.21038 | 13 | 67946668 | R | II | LINC00364 | Body | opensea | Body-opens | | rs1781590 | 28;27 |
| cg2099820 | 0.224659 | 0.487153 | 14.28118 | 9.04E-07 | 0.0004 | 6.513916 | 0.374823 | 0.599482 | -0.22466 | 11 | 22370099 | F | II | SLC17A6 | Body | opensea | Body-opens | | rs1143591 | 0;9;28;47 |
| cg2687819 | 0.2378 | 0.675287 | 14.28102 | 9.04E-07 | 0.0004 | 6.513837 | 0.556386 | 0.794187 | -0.2378 | 5 | 1794420 | R | II | | IGR | opensea | IGR-opense | | rs5319988 | 44 |
| cg0533406 | 0.226735 | 0.523014 | 14.27652 | 9.06E-07 | 0.0004 | 6.511624 | 0.409646 | 0.636381 | -0.22674 | 15 | 36715027 | F | II | | IGR | opensea | IGR-opense | | rs5377240 | 22 |
| cg1888576 | 0.209773 | 0.452161 | 14.2729 | 9.08E-07 | 0.0004 | 6.509847 | 0.347275 | 0.557048 | -0.20977 | 14 | 1E+08 | F | II | CCDC85C | Body | opensea | Body-opens | | rs1419904 | 0;27 |
| cg0715447 | 0.257871 | 0.462498 | 14.27208 | 9.08E-07 | 0.0004 | 6.509444 | 0.333562 | 0.591433 | -0.25787 | 3 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | rs1808315 | 44;2;1 |
| cg1268002 | 0.206759 | 0.55542 | 14.27141 | 9.09E-07 | 0.0004 | 6.509113 | 0.45204 | 0.658799 | -0.20676 | 8 | 1.45E+08 | R | II | SPATC1 | Body | shelf | Body-shelf | chr8:1451( | rs5610169 | 49;17;14;2 |
| cg0048844 | 0.2693 | 0.545778 | 14.26819 | 9.1E-07 | 0.0004 | 6.50753 | 0.411128 | 0.680428 | -0.2693 | 1 | 74929641 | R | II | FPGT-TNNI | Body | opensea | Body-opens | | rs7831695 | 32;26;24 |
| cg0315439 | 0.224731 | 0.503214 | 14.26791 | 9.1E-07 | 0.0004 | 6.507391 | 0.390848 | 0.615579 | -0.22473 | 5 | 16966088 | R | II | | IGR | opensea | IGR-opense | | rs2019603 | 1 |
| cg2093190 | 0.222973 | 0.583663 | 14.26669 | 9.11E-07 | 0.0004 | 6.506792 | 0.472177 | 0.69515 | -0.22297 | 1 | 29591726 | R | II | PTPRU | Body | opensea | Body-opens | | rs5621702 | 13 |
| cg1696069 | 0.226083 | 0.600839 | 14.26538 | 9.12E-07 | 0.0004 | 6.506148 | 0.487797 | 0.71388 | -0.22608 | 2 | 2.08E+08 | F | II | CPO | Body | opensea | Body-opens | | rs5595102 | 1;37;43;49 |
| cg0136902 | 0.259901 | 0.484634 | 14.24216 | 9.23E-07 | 0.000402 | 6.494707 | 0.354684 | 0.614585 | -0.2599 | 10 | 11133829 | R | II | CELF2 | Body | opensea | Body-opens | | rs1147858 | 37;8 |
| cg1120388 | 0.227728 | 0.443754 | 14.23731 | 9.25E-07 | 0.000402 | 6.492316 | 0.329889 | 0.557618 | -0.22773 | 2 | 65547670 | F | II | SPRED2 | Body | opensea | Body-opens | | | |
| cg0004059 | 0.234134 | 0.545656 | 14.23618 | 9.25E-07 | 0.000402 | 6.491758 | 0.428589 | 0.662722 | -0.23413 | 5 | 1.45E+08 | R | II | SH3RF2 | 5'UTR | shore | 5'UTR-shor | chr5:1453 | rs5458217 | 28;24;20;9 |
| cg0519685 | 0.205606 | 0.420418 | 14.23512 | 9.26E-07 | 0.000402 | 6.491236 | 0.317615 | 0.523221 | -0.20561 | 15 | 57833021 | R | II | CGNL1 | Body | opensea | Body-opens | | rs1440240 | 27;2 |
| cg1132746 | 0.204508 | 0.538514 | 14.2299 | 9.29E-07 | 0.000402 | 6.488659 | 0.43626 | 0.640768 | -0.20451 | 22 | 29628227 | F | II | EMID1 | ExonBnd | opensea | ExonBnd-op | | rs1510036 | 1;33;37;47 |
| cg1916733 | 0.231129 | 0.594951 | 14.2232 | 9.32E-07 | 0.000402 | 6.485351 | 0.479387 | 0.710516 | -0.23113 | 8 | 62581684 | F | II | ASPH | Body | opensea | Body-opens | | rs1859688 | 15;18 |
| cg2431807 | 0.205226 | 0.504595 | 14.22079 | 9.33E-07 | 0.000402 | 6.484157 | 0.401982 | 0.607209 | -0.20523 | 17 | 18091662 | R | II | ALKBH5 | Body | shelf | Body-shelf | chr17:180 | rs7776975 | 7;1 |
| cg2017005 | 0.204956 | 0.559209 | 14.21986 | 9.33E-07 | 0.000402 | 6.483697 | 0.456731 | 0.661687 | -0.20496 | 9 | 94262767 | F | II | | IGR | opensea | IGR-opense | | rs5640769 | 18;28 |
| cg1659669 | 0.235117 | 0.623693 | 14.21141 | 9.37E-07 | 0.000403 | 6.479522 | 0.506134 | 0.741251 | -0.23512 | 19 | 41260294 | F | II | SNRPA | Body | shelf | Body-shelf | chr19:412 | rs5652021 | 1;6;19 |
| cg2035837 | 0.206642 | 0.569472 | 14.20921 | 9.39E-07 | 0.000403 | 6.478437 | 0.466151 | 0.672793 | -0.20664 | 2 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0567742 | 0.208667 | 0.410593 | 14.2066 | 9.4E-07 | 0.000403 | 6.477146 | 0.306259 | 0.514927 | -0.20867 | 12 | 39767032 | R | II | KIF21A | Body | opensea | Body-opens | | rs1112785 | 39;21;18;6;5;2;1 |
| cg2639999 | 0.225979 | 0.539117 | 14.20128 | 9.42E-07 | 0.000404 | 6.47451 | 0.426127 | 0.652106 | -0.22598 | 1 | 1.99E+08 | R | II | PTPRC | Body | opensea | Body-opens | | | |
| cg2485504 | 0.210705 | 0.564336 | 14.1967 | 9.45E-07 | 0.000404 | 6.472246 | 0.458983 | 0.669688 | -0.21071 | 10 | 18938449 | R | II | NSUN6 | Body | shelf | Body-shelf | chr10:189 | rs3718488 | 21 |
| cg0136760 | 0.205693 | 0.552526 | 14.19651 | 9.45E-07 | 0.000404 | 6.472152 | 0.44968 | 0.655372 | -0.20569 | 16 | 66938874 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2287587 | 0.261852 | 0.501171 | 14.1915 | 9.47E-07 | 0.000405 | 6.46967 | 0.370245 | 0.632097 | -0.26185 | 4 | 72978321 | F | II | NPFFR2 | 5'UTR | opensea | 5'UTR-open | | rs7639025 | 1;17;33;44 |
| cg2602945 | 0.232726 | 0.490015 | 14.19117 | 9.47E-07 | 0.000405 | 6.469508 | 0.373652 | 0.606379 | -0.23273 | 7 | 47818048 | F | II | PKD1L1 | Body | opensea | Body-opens | | rs1436480 | 0;1;49;51 |
| cg0319951 | 0.243067 | 0.626955 | 14.18654 | 9.5E-07 | 0.000406 | 6.46721 | 0.505422 | 0.748489 | -0.24307 | 5 | 71777883 | R | II | ZNF366 | 5'UTR | opensea | 5'UTR-open | | rs5334122 | 50;44;6;1 |
| cg1512017 | 0.201385 | 0.442216 | 14.18049 | 9.53E-07 | 0.000406 | 6.464216 | 0.341523 | 0.542908 | -0.20139 | 21 | 42091972 | F | II | DSCAM | Body | opensea | Body-opens | | rs1420568 | 1;32 |
| cg2581152 | 0.217694 | 0.469519 | 14.17962 | 9.53E-07 | 0.000406 | 6.463783 | 0.360672 | 0.578366 | -0.21769 | 2 | 74570564 | R | II | SLC4A5 | TSS200 | opensea | TSS200-ope | | rs5326647 | 24;1 |
| cg2102395 | 0.253559 | 0.594755 | 14.17954 | 9.53E-07 | 0.000406 | 6.463743 | 0.467975 | 0.721534 | -0.25356 | 5 | 59783035 | R | II | PDE4D | 5'UTR | opensea | 5'UTR-open | | rs1497471 | 51 |
| cg0920146 | 0.223347 | 0.61176 | 14.17499 | 9.55E-07 | 0.000406 | 6.461487 | 0.500087 | 0.723434 | -0.22335 | 7 | 65613851 | R | II | CRCP | Body | opensea | Body-opens | | rs5313859 | 16;13 |
| cg0219092 | 0.242968 | 0.593589 | 14.17421 | 9.56E-07 | 0.000406 | 6.461101 | 0.472105 | 0.715073 | -0.24297 | 8 | 90427508 | F | II | | IGR | opensea | IGR-opense | | rs5567773 | 0 |
| cg0767594 | 0.211799 | 0.406771 | 14.17358 | 9.56E-07 | 0.000406 | 6.460788 | 0.300872 | 0.512671 | -0.2118 | 15 | 62576064 | F | II | | IGR | opensea | IGR-opense | | rs1484108 | 12;33;43 |
| cg1475666 | 0.216435 | 0.441507 | 14.16797 | 9.59E-07 | 0.000407 | 6.458001 | 0.33329 | 0.549725 | -0.21644 | 5 | 26488099 | R | II | | IGR | opensea | IGR-opense | | rs5740078 | 48 |
| cg1862383 | 0.228998 | 0.548147 | 14.16431 | 9.61E-07 | 0.000407 | 6.456187 | 0.433648 | 0.662646 | -0.229 | 2 | 10261907 | F | II | RRM2 | TSS1500 | shore | TSS1500-sh | chr2:1026 | rs7254277 | 34;40 |
| cg1096011 | 0.217064 | 0.600594 | 14.16415 | 9.61E-07 | 0.000407 | 6.456109 | 0.492062 | 0.709127 | -0.21706 | 3 | 1.15E+08 | F | II | GAP43 | Body | opensea | Body-opens | | rs1483707 | 31 |
| cg2620142 | 0.226299 | 0.607495 | 14.16195 | 9.62E-07 | 0.000407 | 6.455013 | 0.494346 | 0.720644 | -0.2263 | 4 | 1.86E+08 | R | II | LVCAT8 | Body | opensea | Body-opens | | rs1148782 | 31;22;2;1 |
| cg2422848 | 0.242586 | 0.447583 | 14.15949 | 9.63E-07 | 0.000407 | 6.453794 | 0.32629 | 0.568877 | -0.24259 | 8 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5708242 | 1;15;27 |
| cg0800101 | 0.203557 | 0.463371 | 14.15723 | 9.64E-07 | 0.000407 | 6.452669 | 0.361593 | 0.56515 | -0.20356 | 11 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1819657 | 24;19 |
| cg2304990 | 0.242699 | 0.652476 | 14.15395 | 9.66E-07 | 0.000407 | 6.451041 | 0.531127 | 0.773826 | -0.2427 | 3 | 58866128 | R | II | C3orf67 | Body | opensea | Body-opens | | rs5641833 | 33;13;1 |
| cg0864474 | 0.209801 | 0.501072 | 14.15344 | 9.66E-07 | 0.000407 | 6.450786 | 0.396171 | 0.605972 | -0.2098 | 15 | 67211859 | F | II | | IGR | opensea | IGR-opense | | rs3730233 | 27 |
| cg1572623 | 0.204436 | 0.455235 | 14.15333 | 9.66E-07 | 0.000407 | 6.450732 | 0.353017 | 0.557453 | -0.20444 | 17 | 4915387 | R | II | KIF1C | Body | opensea | Body-opens | | | |
| cg1277177 | 0.208096 | 0.532302 | 14.15153 | 9.67E-07 | 0.000407 | 6.449838 | 0.428254 | 0.63635 | -0.2081 | 18 | 59057418 | F | II | | IGR | opensea | IGR-opense | | rs1924179 | 3;6;19;25 |
| cg2169065 | 0.22339 | 0.536012 | 14.14717 | 9.69E-07 | 0.000407 | 6.447672 | 0.424317 | 0.647707 | -0.22339 | 5 | 36369252 | F | II | | IGR | opensea | IGR-opense | | rs1167224 | 0 |
| cg1173707 | 0.20857 | 0.521579 | 14.14016 | 9.73E-07 | 0.000407 | 6.444183 | 0.417294 | 0.625864 | -0.20857 | 13 | 75990822 | R | II | TBC1D4 | Body | opensea | Body-opens | | rs1866204 | 34;29;1 |
| cg0474761 | 0.20961 | 0.438266 | 14.12995 | 9.78E-07 | 0.000408 | 6.439101 | 0.333461 | 0.543071 | -0.20961 | 8 | 6914838 | F | II | DEFA5 | TSS1500 | opensea | TSS1500-op | | rs5585978 | 34 |
| cg2157010 | 0.259976 | 0.479515 | 14.12746 | 9.79E-07 | 0.000408 | 6.437865 | 0.349527 | 0.609503 | -0.25998 | 1 | 1.79E+08 | F | II | | IGR | opensea | IGR-opense | | rs1407135 | 0;2;18 |
| cg2161012 | 0.213277 | 0.534748 | 14.12559 | 9.8E-07 | 0.000408 | 6.436932 | 0.428109 | 0.641387 | -0.21328 | 20 | 50146088 | R | II | NFATC2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2635504 | 0.21232 | 0.583399 | 14.12242 | 9.82E-07 | 0.000409 | 6.43535 | 0.477238 | 0.689559 | -0.21232 | 2 | 32414912 | F | II | SLC30A6 | Body | opensea | Body-opens | | rs5543297 | 1 |
| cg0681920 | 0.204348 | 0.540289 | 14.11755 | 9.84E-07 | 0.000409 | 6.432926 | 0.438115 | 0.642463 | -0.20435 | 3 | 1.25E+08 | F | II | ITGB5 | Body | opensea | Body-opens | | rs1486930 | 0;15 |
| cg0318150 | 0.220182 | 0.428124 | 14.11675 | 9.85E-07 | 0.000409 | 6.432527 | 0.318033 | 0.538215 | -0.22018 | 6 | 7468364 | F | II | | IGR | opensea | IGR-opense | | rs7758281 | 19 |
| cg0667966 | 0.264073 | 0.596504 | 14.11488 | 9.86E-07 | 0.000409 | 6.431593 | 0.464468 | 0.728541 | -0.26407 | 8 | 94966773 | F | II | | IGR | opensea | IGR-opense | | rs1837980 | 0;16 |
| cg1240788 | 0.226248 | 0.534573 | 14.11369 | 9.86E-07 | 0.000409 | 6.431 | 0.421449 | 0.647697 | -0.22625 | 6 | 1.33E+08 | F | II | MOXD1 | Body | opensea | Body-opens | | rs5304445 | 0;23;35 |
| cg0288039 | 0.217342 | 0.40408 | 14.11032 | 9.88E-07 | 0.000409 | 6.429319 | 0.295409 | 0.512751 | -0.21734 | 1 | 43313820 | F | II | ZNF691 | 5'UTR | shore | 5'UTR-shor | chr1:4331 | rs5375140 | 0;16 |
| cg1761887 | 0.216698 | 0.4421 | 14.10935 | 9.89E-07 | 0.000409 | 6.428835 | 0.333751 | 0.550449 | -0.2167 | 20 | 32235621 | R | II | CBFA2T2 | 3'UTR | shelf | 3'UTR-shelf | chr20:322 | rs5509248 | 2 |
| cg1743667 | 0.266155 | 0.532956 | 14.1093 | 9.89E-07 | 0.000409 | 6.428812 | 0.399879 | 0.666034 | -0.26615 | 4 | 1.06E+08 | F | II | ARHGEF38 | Body | opensea | Body-opens | | rs1405735 | 8;49;50 |
| cg2538101 | 0.227214 | 0.4033 | 14.10884 | 9.89E-07 | 0.000409 | 6.428581 | 0.289693 | 0.516907 | -0.22721 | 3 | 3151795 | R | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | rs2290608 | 38 |
| cg0625244 | 0.223693 | 0.433466 | 14.10648 | 9.9E-07 | 0.000409 | 6.427405 | 0.32162 | 0.545313 | -0.22369 | 11 | 1.06E+08 | F | II | AASDHPPT | Body | opensea | Body-opens | | rs5608174 | 31 |
| cg0524192 | 0.223506 | 0.445364 | 14.10022 | 9.93E-07 | 0.000409 | 6.424281 | 0.333611 | 0.557117 | -0.22351 | 9 | 1.36E+08 | F | II | RALGDS | Body | opensea | Body-opens | | rs1806968 | 1;37 |
| cg0845259 | 0.241889 | 0.596079 | 14.09734 | 9.95E-07 | 0.000409 | 6.422842 | 0.475134 | 0.717024 | -0.24189 | 2 | 55529467 | F | II | CCDC88A | Body | opensea | Body-opens | | rs1931481 | 1;13 |
| cg2611123 | 0.215196 | 0.420346 | 14.09503 | 9.96E-07 | 0.000409 | 6.421687 | 0.312748 | 0.527944 | -0.2152 | 21 | 18500534 | R | II | | IGR | opensea | IGR-opense | | rs1848198 | 45;42;41;6;2 |
| cg0267144 | 0.238051 | 0.548451 | 14.08984 | 9.99E-07 | 0.000409 | 6.419096 | 0.429425 | 0.667476 | -0.23805 | 5 | 73614960 | F | II | | IGR | opensea | IGR-opense | | rs7765994 | 40;42;48 |
| cg1963310 | 0.226668 | 0.478637 | 14.08964 | 9.99E-07 | 0.000409 | 6.418996 | 0.365303 | 0.591972 | -0.22667 | 13 | 50028789 | R | II | SETDB2 | Body | opensea | Body-opens | | rs1853041 | 1 |
| cg0287046 | 0.200163 | 0.587204 | 14.07939 | 1E-06 | 0.00041 | 6.413871 | 0.487122 | 0.687285 | -0.20016 | 9 | 37187506 | F | II | ZCCHC7 | Body | opensea | Body-opens | | rs5749864 | 0;44 |
| cg2560696 | 0.205526 | 0.655741 | 14.06911 | 1.01E-06 | 0.000411 | 6.40873 | 0.552978 | 0.758504 | -0.20553 | 1 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs7411926 | 23 |
| cg0662588 | 0.230259 | 0.609193 | 14.06585 | 1.01E-06 | 0.000411 | 6.407094 | 0.494063 | 0.724322 | -0.23026 | 3 | 1.5E+08 | F | II | RNF13 | Body | opensea | Body-opens | | rs5658027 | 1 |
| cg0009331 | 0.24285 | 0.531466 | 14.06079 | 1.01E-06 | 0.000412 | 6.404563 | 0.410041 | 0.652891 | -0.24285 | 13 | 27827907 | R | II | RPL21 | 5'UTR | shore | 5'UTR-shor | chr13:2782 | rs1386590 | 37;21 |
| cg2522382 | 0.226178 | 0.475135 | 14.05889 | 1.01E-06 | 0.000412 | 6.403611 | 0.362046 | 0.588224 | -0.22618 | 13 | 33593349 | F | II | KL | Body | shore | Body-shore | chr13:3352 | rs1919689 | 1;4 |
| cg2275613 | 0.214672 | 0.565872 | 14.05188 | 1.02E-06 | 0.000413 | 6.400096 | 0.458536 | 0.673208 | -0.21467 | 1 | 2.46E+08 | F | II | KIF26B | Body | opensea | Body-opens | | rs5523809 | 28 |
| cg2437633 | 0.249768 | 0.596345 | 14.04671 | 1.02E-06 | 0.000413 | 6.397504 | 0.471461 | 0.721229 | -0.24977 | 2 | 1.92E+08 | F | II | MYO1B | Body | opensea | Body-opens | | rs5363003 | 0;41 |
| cg2551709 | 0.225639 | 0.354923 | 14.04199 | 1.02E-06 | 0.000413 | 6.39514 | 0.242103 | 0.467742 | -0.22564 | 14 | 61154039 | F | II | | IGR | opensea | IGR-opense | | rs5487115 | 8;37 |
| cg0250900 | 0.208666 | 0.477782 | 14.04198 | 1.02E-06 | 0.000413 | 6.395132 | 0.373449 | 0.582115 | -0.20867 | 4 | 78226903 | F | II | | IGR | opensea | IGR-opense | | rs5474008 | 1 |
| cg1712558 | 0.215288 | 0.586592 | 14.03817 | 1.03E-06 | 0.000413 | 6.393221 | 0.478949 | 0.694236 | -0.21529 | 10 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs1132105 | 1;15 |
| cg0229456 | 0.23806 | 0.504904 | 14.03669 | 1.03E-06 | 0.000413 | 6.392477 | 0.385874 | 0.623934 | -0.23806 | 18 | 55732481 | R | II | NEDD4L | Body | opensea | Body-opens | | rs5733739 | 11;2;1 |
| cg2627755 | 0.211484 | 0.442604 | 14.02915 | 1.03E-06 | 0.000413 | 6.388691 | 0.336862 | 0.548346 | -0.21148 | 14 | 54507223 | F | II | | IGR | opensea | IGR-opense | | rs1143243 | 0;29 |
| cg2573492 | 0.220161 | 0.550613 | 14.02557 | 1.03E-06 | 0.000413 | 6.386894 | 0.440532 | 0.660693 | -0.22016 | 6 | 1.05E+08 | R | II | | IGR | shelf | IGR-shelf | chr6:1054 | rs1505654 | 48 |
| cg1491012 | 0.234265 | 0.45138 | 14.02462 | 1.03E-06 | 0.000413 | 6.386417 | 0.334248 | 0.568512 | -0.23426 | 14 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs1512287 | 1 |
| cg0095758 | 0.286366 | 0.525014 | 14.02067 | 1.04E-06 | 0.000413 | 6.38443 | 0.381832 | 0.668197 | -0.28637 | 15 | 86189830 | R | II | AKAP13 | Body | opensea | Body-opens | | rs5378322 | 51;27 |
| cg1300219 | 0.202762 | 0.597099 | 14.01696 | 1.04E-06 | 0.000413 | 6.382566 | 0.495718 | 0.698481 | -0.20276 | 13 | 97832207 | R | II | LINC00456 | TSS1500 | opensea | TSS1500-op | | rs5610977 | 40;16;2 |
| cg1522475 | 0.226423 | 0.550848 | 14.01595 | 1.04E-06 | 0.000413 | 6.382059 | 0.437636 | 0.664059 | -0.22642 | 13 | 91284474 | F | II | | IGR | opensea | IGR-opense | | rs5276856 | 0;30 |
| cg0394629 | 0.218054 | 0.437995 | 14.00963 | 1.04E-06 | 0.000413 | 6.378878 | 0.328968 | 0.547022 | -0.21805 | 1 | 71140689 | R | II | | IGR | opensea | IGR-opense | | rs5656799 | 17 |
| cg2069646 | 0.221498 | 0.518814 | 14.00066 | 1.05E-06 | 0.000414 | 6.374366 | 0.408065 | 0.629563 | -0.2215 | 16 | 54277492 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2736599 | 0.241006 | 0.505612 | 13.99951 | 1.05E-06 | 0.000414 | 6.373782 | 0.385109 | 0.626115 | -0.24101 | 5 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1757391 | 0.236063 | 0.682307 | 13.99763 | 1.05E-06 | 0.000414 | 6.372836 | 0.564275 | 0.800338 | -0.23606 | 3 | 1.43E+08 | F | II | SLC9A9 | Body | opensea | Body-opens | | rs1430244 | 0;12 |
| cg1626354 | 0.231859 | 0.571252 | 13.99383 | 1.05E-06 | 0.000414 | 6.370921 | 0.455322 | 0.687181 | -0.23186 | 8 | 1.16E+08 | F | II | TRPS1 | Body | opensea | Body-opens | | rs5754789 | 0;44 |
| cg2669815 | 0.207256 | 0.577133 | 13.99153 | 1.05E-06 | 0.000414 | 6.369763 | 0.473505 | 0.680761 | -0.20726 | 3 | 73450135 | R | II | PDZRN3 | Body | opensea | Body-opens | | rs3696897 | 45;29;6 |
| cg1381802 | 0.226599 | 0.648718 | 13.98848 | 1.05E-06 | 0.000414 | 6.368228 | 0.535419 | 0.762018 | -0.2266 | 8 | 18899193 | F | II | | IGR | opensea | IGR-opense | | rs1395518 | 48 |
| cg0854856 | 0.224827 | 0.530974 | 13.98486 | 1.06E-06 | 0.000414 | 6.366403 | 0.41856 | 0.643387 | -0.22483 | 9 | 4100149 | F | II | GLIS3 | Body | opensea | Body-opens | | rs5655915 | 40;44;49 |
| cg0943466 | 0.200263 | 0.458023 | 13.97632 | 1.06E-06 | 0.000414 | 6.362093 | 0.357892 | 0.558154 | -0.20026 | 15 | 67078890 | F | II | | IGR | opensea | IGR-opense | | rs7537407 | 1 |
| cg1700276 | 0.205378 | 0.426465 | 13.9726 | 1.06E-06 | 0.000414 | 6.360217 | 0.323776 | 0.529154 | -0.20538 | 1 | 22579251 | R | II | | IGR | opensea | IGR-opense | | rs7405999 | 2 |
| cg0505633 | 0.20261 | 0.49908 | 13.97049 | 1.06E-06 | 0.000414 | 6.359153 | 0.397775 | 0.600386 | -0.20261 | 8 | 35719518 | R | II | | IGR | opensea | IGR-opense | | rs5360164 | 4;1 |
| cg1154815 | 0.213111 | 0.582521 | 13.96903 | 1.06E-06 | 0.000414 | 6.358413 | 0.475965 | 0.689076 | -0.21311 | 2 | 2.02E+08 | R | II | AOX2P | Body | opensea | Body-opens | | rs1492170 | 50;13;4;1 |
| cg2743480 | 0.227304 | 0.561338 | 13.96729 | 1.06E-06 | 0.000414 | 6.357534 | 0.447686 | 0.67499 | -0.2273 | 17 | 48880966 | F | II | | IGR | opensea | IGR-opense | | rs5564592 | 28;39;46 |
| cg2441544 | 0.215695 | 0.518766 | 13.96243 | 1.07E-06 | 0.000414 | 6.355084 | 0.410918 | 0.626613 | -0.21569 | 6 | 80163855 | F | II | | IGR | opensea | IGR-opense | | rs5308577 | 42;49 |
| cg2715967 | 0.20793 | 0.503008 | 13.96121 | 1.07E-06 | 0.000414 | 6.354464 | 0.399042 | 0.606973 | -0.20793 | 9 | 1.25E+08 | R | II | DAB2IP | TSS1500 | opensea | TSS1500-op | | rs5711430 | 26 |
| cg0395087 | 0.200912 | 0.517975 | 13.95839 | 1.07E-06 | 0.000415 | 6.35304 | 0.417519 | 0.618432 | -0.20091 | 14 | 60045040 | F | II | C14orf38 | TSS1500 | shore | TSS1500-sh | chr14:600 | rs1435401 | 39 |
| cg0562438 | 0.237199 | 0.535668 | 13.95311 | 1.07E-06 | 0.000415 | 6.350369 | 0.417068 | 0.654267 | -0.2372 | 7 | 36068970 | R | II | | IGR | opensea | IGR-opense | | rs5502660 | 49;49;48;39;14 |
| cg1073305 | 0.243344 | 0.531905 | 13.9503 | 1.07E-06 | 0.000415 | 6.348951 | 0.410234 | 0.653577 | -0.24334 | 6 | 34778879 | F | II | UHRF1BP1 | Body | opensea | Body-opens | | rs5311480 | 0 |
| cg1957621 | 0.214656 | 0.670249 | 13.94842 | 1.08E-06 | 0.000415 | 6.348 | 0.562921 | 0.777577 | -0.21466 | 3 | 33402031 | F | II | FBXL2 | Body | opensea | Body-opens | | | |
| cg2009256 | 0.203036 | 0.654528 | 13.94601 | 1.08E-06 | 0.000415 | 6.346779 | 0.55301 | 0.756046 | -0.20304 | 2 | 1.22E+08 | R | II | GLI2 | Body | opensea | Body-opens | | rs1436221 | 40;1 |
| cg1551248 | 0.228907 | 0.684617 | 13.94498 | 1.08E-06 | 0.000415 | 6.346259 | 0.570164 | 0.79907 | -0.22891 | 2 | 1.11E+08 | R | II | NPHP1 | Body | opensea | Body-opens | | rs5320925 | 2;1 |
| cg0308879 | 0.230616 | 0.490577 | 13.94261 | 1.08E-06 | 0.000415 | 6.345062 | 0.375269 | 0.605885 | -0.23062 | 1 | 2.2E+08 | R | II | | IGR | opensea | IGR-opense | | rs5553475 | 19;1 |
| cg0198081 | 0.228117 | 0.502375 | 13.94096 | 1.08E-06 | 0.000415 | 6.344227 | 0.388316 | 0.616433 | -0.22812 | 4 | 1.13E+08 | F | II | | IGR | shore | IGR-shore | chr4:1132 | rs1406720 | 27 |
| cg1697338 | 0.227952 | 0.51834 | 13.93289 | 1.08E-06 | 0.000415 | 6.34014 | 0.404364 | 0.632317 | -0.22795 | 1 | 1.55E+08 | F | II | KCNN3 | Body | opensea | Body-opens | | | |
| cg1325072 | 0.204198 | 0.596114 | 13.93154 | 1.09E-06 | 0.000415 | 6.339455 | 0.494015 | 0.698213 | -0.2042 | 10 | 49490160 | R | II | | IGR | opensea | IGR-opense | | rs5533160 | 1 |
| cg0667186 | 0.226383 | 0.477071 | 13.92263 | 1.09E-06 | 0.000416 | 6.334938 | 0.36388 | 0.590263 | -0.22638 | 3 | 99316428 | R | II | MIR548G | Body | opensea | Body-opens | | | |
| cg0584843 | 0.236672 | 0.495095 | 13.91137 | 1.1E-06 | 0.000416 | 6.329228 | 0.376759 | 0.613431 | -0.23667 | 4 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1445829 | 0.213766 | 0.518267 | 13.90825 | 1.1E-06 | 0.000416 | 6.327643 | 0.411384 | 0.62515 | -0.21377 | 6 | 1.24E+08 | R | II | NKAIN2 | Body | opensea | Body-opens | | | |
| cg0487610 | 0.24269 | 0.505418 | 13.90027 | 1.1E-06 | 0.000417 | 6.323591 | 0.384073 | 0.626763 | -0.24269 | 3 | 3551638 | F | II | | IGR | opensea | IGR-opense | | rs5689076 | 0;28;34;40 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1316611 | 0.266375 | 0.470414 | 13.89992 | 1.1E-06 | 0.000417 | 6.323414 | 0.337227 | 0.603602 | -0.26637 | 3 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5403381 | 12 |
| cg2755241 | 0.260303 | 0.4552 | 13.89921 | 1.1E-06 | 0.000417 | 6.323057 | 0.325049 | 0.585352 | -0.2603 | 16 | 79762853 | R | II | MAFTRR | Body | opensea | Body-opens | rs5537948 | 49;41 |
| cg1503290 | 0.220167 | 0.510675 | 13.89776 | 1.1E-06 | 0.000417 | 6.322316 | 0.400592 | 0.620758 | -0.22017 | 5 | 1.71E+08 | F | II | RANBP17 | 3'UTR | opensea | 3'UTR-open | rs5670221 | 0;38;39 |
| cg1597620 | 0.227454 | 0.535075 | 13.89156 | 1.11E-06 | 0.000417 | 6.319167 | 0.421348 | 0.648802 | -0.22745 | 13 | 94806595 | R | II | GPC6-AS1 | Body | opensea | Body-opens | rs5757770 | 1 |
| cg0965274 | 0.209605 | 0.578958 | 13.88821 | 1.11E-06 | 0.000417 | 6.317461 | 0.474155 | 0.683761 | -0.20961 | 16 | 67225437 | F | II | E2F4 | TSS1500 | opensea | TSS1500-op | rs5731430 | 20 |
| cg2355587 | 0.216437 | 0.5237 | 13.88212 | 1.11E-06 | 0.000418 | 6.314367 | 0.415482 | 0.631919 | -0.21644 | 15 | 88990837 | F | II | | IGR | opensea | IGR-opense | rs5686454 | 22 |
| cg1772837 | 0.223032 | 0.567453 | 13.87677 | 1.12E-06 | 0.000418 | 6.311646 | 0.455937 | 0.678969 | -0.22303 | 21 | 27404776 | F | II | APP | Body | opensea | Body-opens | rs5532821 | 48 |
| cg0871767 | 0.225727 | 0.471253 | 13.87584 | 1.12E-06 | 0.000418 | 6.311173 | 0.35839 | 0.584117 | -0.22573 | 14 | 1E+08 | F | II | EML1 | Body | opensea | Body-opens | rs1147682 | 43 |
| cg1212603 | 0.263236 | 0.605583 | 13.87369 | 1.12E-06 | 0.000418 | 6.310075 | 0.473965 | 0.737201 | -0.26324 | 20 | 33658033 | F | II | TRPC4AP | Body | opensea | Body-opens | rs1841684 | 14;31 |
| cg1572703 | 0.207847 | 0.667641 | 13.87081 | 1.12E-06 | 0.000419 | 6.308608 | 0.563718 | 0.771565 | -0.20785 | 21 | 33020644 | F | II | | IGR | opensea | IGR-opense | rs5332796 | 12 |
| cg0591920 | 0.216154 | 0.465117 | 13.86753 | 1.12E-06 | 0.000419 | 6.306938 | 0.35704 | 0.573195 | -0.21615 | 4 | 5914761 | R | II | | IGR | opensea | IGR-opense | rs5412842 | 45 |
| cg1757834 | 0.201562 | 0.58461 | 13.86177 | 1.13E-06 | 0.00042 | 6.304002 | 0.48383 | 0.685391 | -0.20156 | 7 | 81420133 | F | II | | IGR | opensea | IGR-opense | rs5545652 | 27 |
| cg1076797 | 0.201439 | 0.616507 | 13.8579 | 1.13E-06 | 0.00042 | 6.302031 | 0.515787 | 0.717227 | -0.20144 | 13 | 45431256 | F | II | | IGR | opensea | IGR-opense | rs1836364 | 0;16 |
| cg0742232 | 0.254952 | 0.583731 | 13.852 | 1.13E-06 | 0.00042 | 6.299023 | 0.456255 | 0.711207 | -0.25495 | 1 | 1.87E+08 | F | II | PTGS2 | 3'UTR | opensea | 3'UTR-open | rs1848452 | 0;1 |
| cg1093052 | 0.206046 | 0.444686 | 13.84554 | 1.14E-06 | 0.000421 | 6.295729 | 0.341663 | 0.547709 | -0.20605 | 1 | 7991549 | F | II | TNFRSF9 | Body | opensea | Body-opens | rs1390706 | 0;2 |
| cg0905712 | 0.2148 | 0.61923 | 13.84179 | 1.14E-06 | 0.000421 | 6.293811 | 0.51183 | 0.72663 | -0.2148 | 1 | 1E+08 | R | II | | IGR | opensea | IGR-opense | rs5737878 | 20 |
| cg2475952 | 0.200703 | 0.502431 | 13.83998 | 1.14E-06 | 0.000421 | 6.29289 | 0.402079 | 0.602782 | -0.2007 | 3 | 1.43E+08 | F | II | | IGR | opensea | IGR-opense | rs3711001 | 45 |
| cg0757520 | 0.249438 | 0.465463 | 13.83386 | 1.14E-06 | 0.000422 | 6.289763 | 0.340744 | 0.590183 | -0.24944 | 16 | 75046592 | R | II | ZNRF1 | Body | opensea | Body-opens | rs5499192 | 12;11;2;1 |
| cg0765096 | 0.208104 | 0.636519 | 13.82926 | 1.15E-06 | 0.000422 | 6.287413 | 0.532468 | 0.740571 | -0.2081 | 18 | 40883481 | R | II | | IGR | opensea | IGR-opense | rs1477321 | 50;49 |
| cg2073479 | 0.237138 | 0.536578 | 13.82343 | 1.15E-06 | 0.000422 | 6.284431 | 0.418009 | 0.655147 | -0.23714 | 7 | 40564790 | F | II | SUGCT | Body | opensea | Body-opens | rs1831569 | 0;11 |
| cg1945782 | 0.220222 | 0.654196 | 13.82222 | 1.15E-06 | 0.000422 | 6.283812 | 0.544085 | 0.764307 | -0.22022 | 5 | 1.43E+08 | R | II | NR3C1 | Body | opensea | Body-opens | rs1411339 | 33;1 |
| cg0411410 | 0.220965 | 0.44657 | 13.82194 | 1.15E-06 | 0.000422 | 6.283672 | 0.336087 | 0.557052 | -0.22096 | 3 | 13339321 | F | II | | IGR | opensea | IGR-opense | rs6058874 | 0;4 |
| cg0985234 | 0.260352 | 0.543889 | 13.8216 | 1.15E-06 | 0.000422 | 6.283497 | 0.413714 | 0.674065 | -0.26035 | 6 | 1.12E+08 | R | II | REV3L | Body | opensea | Body-opens | rs1860621 | 1 |
| cg0426768 | 0.260856 | 0.584557 | 13.81315 | 1.16E-06 | 0.000423 | 6.279175 | 0.454129 | 0.714985 | -0.26086 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | rs1866413 | 0;24 |
| cg2688470 | 0.213581 | 0.543193 | 13.80381 | 1.16E-06 | 0.000424 | 6.274391 | 0.436402 | 0.649983 | -0.21358 | 1 | 32378506 | R | II | PTP4A2 | Body | opensea | Body-opens | | |
| cg0111221 | 0.240784 | 0.580178 | 13.79864 | 1.16E-06 | 0.000424 | 6.27174 | 0.459786 | 0.70057 | -0.24078 | 14 | 89285377 | R | II | | IGR | opensea | IGR-opense | rs5735944 | 20 |
| cg0010506 | 0.203828 | 0.616922 | 13.79614 | 1.17E-06 | 0.000424 | 6.270459 | 0.515008 | 0.718836 | -0.20383 | 7 | 1.48E+08 | R | II | CNTNAP2 | Body | opensea | Body-opens | rs1390169 | 21;2 |
| cg2613719 | 0.222169 | 0.53741 | 13.7955 | 1.17E-06 | 0.000424 | 6.270134 | 0.426326 | 0.648494 | -0.22217 | 2 | 69453290 | F | II | ANTXR1 | Body | opensea | Body-opens | rs5643436 | 38 |
| cg1935533 | 0.214595 | 0.497876 | 13.79438 | 1.17E-06 | 0.000424 | 6.269558 | 0.390578 | 0.605174 | -0.2146 | 7 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg1244328 | 0.217624 | 0.530959 | 13.79054 | 1.17E-06 | 0.000424 | 6.267589 | 0.422147 | 0.639771 | -0.21762 | 11 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | rs5703954 | 14;11;5 |
| cg2354888 | 0.225126 | 0.550119 | 13.78964 | 1.17E-06 | 0.000424 | 6.267126 | 0.437556 | 0.662682 | -0.22513 | 4 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | rs5374667 | 2 |
| cg1467645 | 0.224338 | 0.601477 | 13.78767 | 1.17E-06 | 0.000424 | 6.26612 | 0.489308 | 0.713646 | -0.22434 | 4 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg0667498 | 0.232802 | 0.480956 | 13.78765 | 1.17E-06 | 0.000424 | 6.266108 | 0.364555 | 0.597357 | -0.2328 | 7 | 89251345 | R | II | | IGR | opensea | IGR-opense | rs7370923 | 2;1 |
| cg0311642 | 0.207676 | 0.547633 | 13.78635 | 1.17E-06 | 0.000424 | 6.265441 | 0.443795 | 0.651471 | -0.20768 | 4 | 14411456 | R | II | | IGR | opensea | IGR-opense | rs3683112 | 34;2;1 |
| cg1443827 | 0.252234 | 0.492381 | 13.78605 | 1.17E-06 | 0.000424 | 6.265286 | 0.366264 | 0.618498 | -0.25223 | 5 | 1.43E+08 | F | II | NR3C1 | 5'UTR | opensea | 5'UTR-open | | |
| cg2752944 | 0.202037 | 0.539118 | 13.78336 | 1.17E-06 | 0.000424 | 6.263908 | 0.438099 | 0.640136 | -0.20204 | 6 | 33185552 | R | II | | IGR | opensea | IGR-opense | rs5502290 | 12 |
| cg0866614 | 0.216527 | 0.583559 | 13.78205 | 1.17E-06 | 0.000424 | 6.263233 | 0.475295 | 0.691822 | -0.21653 | 20 | 49952074 | R | II | | IGR | opensea | IGR-opense | rs5718245 | 20;6 |
| cg0425806 | 0.243805 | 0.523244 | 13.78152 | 1.18E-06 | 0.000424 | 6.262964 | 0.401342 | 0.645147 | -0.24381 | 4 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg0067293 | 0.215273 | 0.635996 | 13.7737 | 1.18E-06 | 0.000424 | 6.258946 | 0.52836 | 0.743632 | -0.21527 | 8 | 1.31E+08 | F | II | CCDC26 | Body | opensea | Body-opens | rs5291254 | 22;39 |
| cg0636469 | 0.204191 | 0.682501 | 13.77351 | 1.18E-06 | 0.000424 | 6.25885 | 0.580406 | 0.784597 | -0.20419 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | rs1488491 | 30 |
| cg0759973 | 0.232528 | 0.520477 | 13.77295 | 1.18E-06 | 0.000424 | 6.258562 | 0.404213 | 0.636741 | -0.23253 | 9 | 35929835 | F | II | | IGR | opensea | IGR-opense | rs5355350 | 6 |
| cg2279714 | 0.216218 | 0.543516 | 13.76816 | 1.18E-06 | 0.000425 | 6.256099 | 0.435407 | 0.651626 | -0.21622 | 6 | 88557431 | F | II | LOC10192 | Body | opensea | Body-opens | rs1896441 | 1;33 |
| cg2735231 | 0.22602 | 0.497969 | 13.76628 | 1.18E-06 | 0.000425 | 6.255136 | 0.384959 | 0.610979 | -0.22602 | 17 | 19453200 | R | II | SLC47A1 | Body | opensea | Body-opens | rs5718886 | 6;1 |
| cg0857274 | 0.214645 | 0.627068 | 13.76376 | 1.19E-06 | 0.000425 | 6.253841 | 0.519746 | 0.734391 | -0.21464 | 5 | 89664894 | R | II | | IGR | opensea | IGR-opense | rs1194810 | 23;1 |
| cg0413740 | 0.213352 | 0.396057 | 13.76244 | 1.19E-06 | 0.000425 | 6.253162 | 0.289381 | 0.502733 | -0.21335 | 14 | 62414451 | R | II | | IGR | opensea | IGR-opense | rs3750408 | 16 |
| cg1576126 | 0.277283 | 0.498994 | 13.7566 | 1.19E-06 | 0.000426 | 6.250159 | 0.360352 | 0.637635 | -0.27728 | 11 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | rs5636425 | 8;46 |
| cg0111083 | 0.226334 | 0.53959 | 13.75403 | 1.19E-06 | 0.000426 | 6.248836 | 0.426423 | 0.652758 | -0.22633 | 13 | 50383231 | R | II | | IGR | opensea | IGR-opense | rs1999409 | 27;1 |
| cg2721143 | 0.238408 | 0.510816 | 13.74416 | 1.2E-06 | 0.000427 | 6.243753 | 0.391612 | 0.63002 | -0.23841 | 15 | 71095215 | F | II | | IGR | opensea | IGR-opense | rs1114452 | 4 |
| cg1828803 | 0.232932 | 0.604494 | 13.74322 | 1.2E-06 | 0.000427 | 6.24327 | 0.488028 | 0.72096 | -0.23293 | 5 | 1.58E+08 | F | II | EBF1 | Body | opensea | Body-opens | rs5305717 | 0;22;30 |
| cg2591888 | 0.239702 | 0.575784 | 13.73902 | 1.2E-06 | 0.000427 | 6.241107 | 0.455933 | 0.695635 | -0.2397 | 17 | 36576950 | R | II | | IGR | shore | IGR-shore | chr17:365 | rs5555333 | 10;1 |
| cg0071851 | 0.233335 | 0.528769 | 13.73849 | 1.2E-06 | 0.000427 | 6.240834 | 0.412101 | 0.645437 | -0.23334 | 2 | 89215272 | R | II | | IGR | opensea | IGR-opense | rs1458485 | 1 |
| cg0930471 | 0.208045 | 0.565054 | 13.73756 | 1.2E-06 | 0.000427 | 6.240355 | 0.461031 | 0.669076 | -0.20804 | 5 | 60712031 | F | II | ZSWIM6 | Body | opensea | Body-opens | rs5651363 | 16;43 |
| cg0696885 | 0.227169 | 0.520935 | 13.73443 | 1.21E-06 | 0.000427 | 6.238742 | 0.407351 | 0.63452 | -0.22717 | 2 | 80724209 | F | II | CTNNA2 | Body | opensea | Body-opens | | |
| cg1148441 | 0.232363 | 0.505494 | 13.72984 | 1.21E-06 | 0.000427 | 6.236377 | 0.389312 | 0.621676 | -0.23236 | 11 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | rs1465307 | 0;1;22 |
| cg1043453 | 0.250224 | 0.572098 | 13.72907 | 1.21E-06 | 0.000427 | 6.23598 | 0.446986 | 0.69721 | -0.25022 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | rs5329185 | 29 |
| cg0840856 | 0.312624 | 0.518635 | 13.72859 | 1.21E-06 | 0.000427 | 6.235732 | 0.362323 | 0.674946 | -0.31262 | 5 | 67067213 | R | II | | IGR | opensea | IGR-opense | rs5292816 | 45;2 |
| cg0456297 | 0.205283 | 0.637178 | 13.72221 | 1.21E-06 | 0.000428 | 6.232443 | 0.534536 | 0.739819 | -0.20528 | 16 | 30459538 | R | II | | IGR | shelf | IGR-shelf | chr16:304 | rs5508574 | 45;31;9 |
| cg2460310 | 0.233302 | 0.526795 | 13.72107 | 1.21E-06 | 0.000428 | 6.231855 | 0.410144 | 0.643446 | -0.2333 | 8 | 1.19E+08 | F | II | EXT1 | Body | opensea | Body-opens | rs1923670 | 0;27;50 |
| cg0633917 | 0.210223 | 0.441876 | 13.71896 | 1.22E-06 | 0.000428 | 6.230764 | 0.336765 | 0.546987 | -0.21022 | 3 | 61873593 | F | II | PTPRG | Body | opensea | Body-opens | rs1901962 | 1;47;47 |
| cg2228244 | 0.200037 | 0.418663 | 13.7136 | 1.22E-06 | 0.000429 | 6.228 | 0.318645 | 0.518681 | -0.20004 | 5 | 1.1E+08 | F | II | TMEM232 | Body | opensea | Body-opens | rs6237608 | 16;49;50 |
| cg1812182 | 0.248303 | 0.485209 | 13.71225 | 1.22E-06 | 0.000429 | 6.227304 | 0.361058 | 0.60936 | -0.2483 | 11 | 8705790 | R | II | RPL27A | Body | shore | Body-shore | chr11:870 | rs1496398 | 4 |
| cg0550472 | 0.207917 | 0.508524 | 13.71089 | 1.22E-06 | 0.000429 | 6.226601 | 0.404565 | 0.612482 | -0.20792 | 16 | 89399490 | F | II | ANKRD11 | 5'UTR | opensea | 5'UTR-open | | |
| cg1083838 | 0.267067 | 0.616002 | 13.70823 | 1.22E-06 | 0.000429 | 6.225224 | 0.482468 | 0.749535 | -0.26707 | 10 | 1156113 | R | I | WDR37 | Body | opensea | Body-opens | rs5400188 | 35;6 |
| cg1131562 | 0.259761 | 0.492516 | 13.69879 | 1.23E-06 | 0.00043 | 6.220347 | 0.362635 | 0.622396 | -0.25976 | 17 | 57829517 | R | II | VMP1 | Body | opensea | Body-opens | rs5682089 | 49;34;15;1 |
| cg0580948 | 0.214887 | 0.625534 | 13.69675 | 1.23E-06 | 0.00043 | 6.219291 | 0.518091 | 0.732978 | -0.21489 | 1 | 1.57E+08 | F | II | ISG20L2 | Body | shore | Body-shore | chr1:1566 | rs1823711 | 5;25 |
| cg0236508 | 0.221732 | 0.57585 | 13.69474 | 1.23E-06 | 0.00043 | 6.218255 | 0.464984 | 0.686716 | -0.22173 | 1 | 27701171 | R | II | FCN3 | Body | opensea | Body-opens | rs5465843 | 8;7;1 |
| cg2555650 | 0.209453 | 0.480046 | 13.68973 | 1.23E-06 | 0.00043 | 6.215662 | 0.375319 | 0.584772 | -0.20945 | 13 | 25766431 | F | II | | IGR | opensea | IGR-opense | | |
| cg0694330 | 0.227734 | 0.578557 | 13.68764 | 1.24E-06 | 0.00043 | 6.214582 | 0.46469 | 0.692424 | -0.22773 | 1 | 1.63E+08 | R | II | | IGR | shore | IGR-shore | chr1:1633 | rs5583261 | 45 |
| cg0784606 | 0.257307 | 0.469349 | 13.68719 | 1.24E-06 | 0.00043 | 6.214346 | 0.340695 | 0.598002 | -0.25731 | 16 | 74732434 | F | II | MLKL | 5'UTR | shore | 5'UTR-shor | chr16:747 | rs1179046 | 4 |
| cg0010015 | 0.212025 | 0.581349 | 13.68645 | 1.24E-06 | 0.00043 | 6.213968 | 0.475336 | 0.687361 | -0.21202 | 5 | 42873127 | F | II | | IGR | opensea | IGR-opense | rs5708244 | 11;47;48 |
| cg1696029 | 0.241728 | 0.483807 | 13.68493 | 1.24E-06 | 0.00043 | 6.213179 | 0.362943 | 0.604671 | -0.24173 | 7 | 50663419 | F | II | GRB10 | Body | opensea | Body-opens | rs1155562 | 26 |
| cg0166972 | 0.231676 | 0.441046 | 13.68488 | 1.24E-06 | 0.00043 | 6.213153 | 0.325208 | 0.556884 | -0.23168 | 14 | 55155256 | R | II | SAMD4A | Body | opensea | Body-opens | rs5678832 | 39;11;2 |
| cg0974327 | 0.200397 | 0.547188 | 13.68084 | 1.24E-06 | 0.000431 | 6.211062 | 0.44699 | 0.647387 | -0.2004 | 1 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | rs5475963 | 46 |
| cg2733813 | 0.20267 | 0.431439 | 13.68033 | 1.24E-06 | 0.000431 | 6.210796 | 0.330103 | 0.532774 | -0.20267 | 2 | 95939667 | R | II | PROM2 | TSS1500 | opensea | TSS1500-op | rs5514338 | 1 |
| cg1412218 | 0.25646 | 0.600507 | 13.67575 | 1.24E-06 | 0.000431 | 6.208425 | 0.472276 | 0.728737 | -0.25646 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | rs5596979 | 1;5;44 |
| cg2671266 | 0.237293 | 0.434708 | 13.67513 | 1.24E-06 | 0.000431 | 6.208105 | 0.316062 | 0.553355 | -0.23729 | 11 | 1.21E+08 | R | II | TECTA | Body | opensea | Body-opens | rs5503063 | 39;29;17;1 |
| cg2237217 | 0.262212 | 0.525957 | 13.67438 | 1.24E-06 | 0.000431 | 6.207716 | 0.39485 | 0.657063 | -0.26221 | 20 | 24941563 | F | II | | IGR | opensea | IGR-opense | rs1466871 | 0;42 |
| cg2593923 | 0.223118 | 0.460782 | 13.67383 | 1.24E-06 | 0.000431 | 6.20743 | 0.349223 | 0.572342 | -0.22312 | 18 | 6967140 | R | II | LAMA1 | Body | opensea | Body-opens | | |
| cg1631831 | 0.237884 | 0.603669 | 13.65998 | 1.25E-06 | 0.000432 | 6.200249 | 0.484727 | 0.722611 | -0.23788 | 12 | 96113161 | R | II | NTN4 | Body | opensea | Body-opens | | |
| cg1757944 | 0.214826 | 0.525575 | 13.6577 | 1.26E-06 | 0.000432 | 6.19907 | 0.418162 | 0.632988 | -0.21483 | 17 | 7217367 | R | II | GPS2 | Body | shore | Body-shore | chr17:721 | rs2015341 | 47;29;27;4;2 |
| cg2713620 | 0.234686 | 0.52731 | 13.65706 | 1.26E-06 | 0.000432 | 6.198736 | 0.409966 | 0.644653 | -0.23469 | 1 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | rs1501856 | 45;44;34;30 |
| cg2319552 | 0.212044 | 0.553076 | 13.64541 | 1.26E-06 | 0.000434 | 6.192691 | 0.447054 | 0.659099 | -0.21204 | 11 | 85775563 | F | II | PICALM | 5'UTR | opensea | 5'UTR-open | rs1169264 | 20;26;40 |
| cg1411779 | 0.230062 | 0.548974 | 13.64298 | 1.27E-06 | 0.000434 | 6.191426 | 0.433942 | 0.664005 | -0.23006 | 7 | 1.21E+08 | R | II | CPED1 | Body | opensea | Body-opens | rs5315564 | 43;21 |
| cg0088332 | 0.222037 | 0.454325 | 13.64192 | 1.27E-06 | 0.000434 | 6.190877 | 0.343306 | 0.565343 | -0.22204 | 17 | 33204221 | F | II | | IGR | opensea | IGR-opense | | |
| cg2347390 | 0.210514 | 0.514518 | 13.64038 | 1.27E-06 | 0.000434 | 6.190073 | 0.409261 | 0.619775 | -0.21051 | 6 | 3523483 | F | II | | IGR | opensea | IGR-opense | rs5736365 | 0;30;48 |
| cg2404408 | 0.202608 | 0.646573 | 13.63904 | 1.27E-06 | 0.000434 | 6.189381 | 0.545269 | 0.747877 | -0.20261 | 17 | 41930333 | F | II | CD300LG | Body | opensea | Body-opens | rs1460424 | 0;1;40 |
| cg0694067 | 0.210721 | 0.512227 | 13.63835 | 1.27E-06 | 0.000434 | 6.189021 | 0.406867 | 0.617587 | -0.21072 | 20 | 4528299 | F | II | | IGR | opensea | IGR-opense | rs5712967 | 46;47 |
| cg1124367 | 0.222612 | 0.621539 | 13.63596 | 1.27E-06 | 0.000434 | 6.18778 | 0.510233 | 0.732845 | -0.22261 | 5 | 1.65E+08 | F | II | | IGR | opensea | IGR-opense | rs1820373 | 0 |
| cg1866188 | 0.269048 | 0.55146 | 13.63594 | 1.27E-06 | 0.000434 | 6.187767 | 0.416936 | 0.685984 | -0.26905 | 4 | 833876 | R | II | | IGR | opensea | IGR-opense | rs5406829 | 24;1 |
| cg2363851 | 0.256471 | 0.515808 | 13.63475 | 1.27E-06 | 0.000434 | 6.187149 | 0.387572 | 0.644044 | -0.25647 | 6 | 39080067 | F | II | C6orf64 | Body | shelf | Body-shelf | chr6:3908 | rs1415820 | 15;32;49 |
| cg0950104 | 0.242218 | 0.550152 | 13.63421 | 1.27E-06 | 0.000434 | 6.18687 | 0.429043 | 0.671261 | -0.24222 | 1 | 1.65E+08 | R | II | PBX1 | Body | opensea | Body-opens | rs1897560 | 18 |
| cg0216474 | 0.265839 | 0.407002 | 13.63265 | 1.27E-06 | 0.000434 | 6.186056 | 0.274082 | 0.539921 | -0.26584 | 6 | 76206048 | F | II | | IGR | opensea | IGR-opense | rs1172187 | 1 |
| cg0234365 | 0.282126 | 0.528344 | 13.62866 | 1.28E-06 | 0.000435 | 6.18398 | 0.387281 | 0.669407 | -0.28213 | 21 | 30476730 | R | II | MAP3K7CL | 5'UTR | opensea | 5'UTR-open | | |
| cg0735311 | 0.236556 | 0.492349 | 13.62834 | 1.28E-06 | 0.000435 | 6.183816 | 0.374072 | 0.610627 | -0.23656 | 8 | 29028701 | R | II | KIF13B | Body | opensea | Body-opens | rs5781544 | 34;26;23;1 |
| cg1959048 | 0.211253 | 0.427659 | 13.62783 | 1.28E-06 | 0.000435 | 6.183549 | 0.322032 | 0.533286 | -0.21125 | 19 | 36623725 | R | II | | IGR | opensea | IGR-opense | rs5692523 | 29;1 |
| cg0062543 | 0.264275 | 0.530272 | 13.62629 | 1.28E-06 | 0.000435 | 6.182748 | 0.398134 | 0.66241 | -0.26428 | 11 | 34706961 | R | II | | IGR | opensea | IGR-opense | rs5525057 | 48;42;1 |
| cg2143825 | 0.211104 | 0.733011 | 13.62487 | 1.28E-06 | 0.000435 | 6.182012 | 0.627459 | 0.838563 | -0.2111 | 1 | 28904846 | F | II | TRNAU1AP | Body | shelf | Body-shelf | chr1:2890 | rs5289206 | 40;47;50 |
| cg1458016 | 0.254872 | 0.578689 | 13.62447 | 1.28E-06 | 0.000435 | 6.181801 | 0.451253 | 0.706125 | -0.25487 | 12 | 26286940 | R | II | | IGR | opensea | IGR-opense | | |
| cg0016767 | 0.222373 | 0.496358 | 13.62386 | 1.28E-06 | 0.000435 | 6.181483 | 0.385172 | 0.607544 | -0.22237 | 4 | 13922944 | R | II | | IGR | opensea | IGR-opense | rs7379853 | 51;2 |
| cg0655191 | 0.22081 | 0.58338 | 13.61825 | 1.28E-06 | 0.000436 | 6.178566 | 0.472975 | 0.693785 | -0.22081 | 4 | 1.09E+08 | F | II | SGMS2 | 5'UTR | opensea | 5'UTR-open | rs1840247 | 35 |
| cg0554769 | 0.212266 | 0.562733 | 13.61736 | 1.28E-06 | 0.000436 | 6.178101 | 0.4566 | 0.668866 | -0.21227 | 9 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | rs1901437 | 1;7;27 |
| cg1073741 | 0.230586 | 0.533863 | 13.61665 | 1.28E-06 | 0.000436 | 6.177733 | 0.41857 | 0.649156 | -0.23059 | 15 | 34190524 | F | II | AVEN | Body | opensea | Body-opens | rs1148690 | 0;25;34 |
| cg2047008 | 0.211438 | 0.519901 | 13.61225 | 1.29E-06 | 0.000436 | 6.175439 | 0.414183 | 0.62562 | -0.21144 | 12 | 1.13E+08 | R | II | MIR1302-1 | TSS1500 | opensea | TSS1500-op | | |
| cg0563820 | 0.216701 | 0.486403 | 13.61128 | 1.29E-06 | 0.000436 | 6.174933 | 0.378053 | 0.594753 | -0.2167 | 5 | 41372068 | R | II | PLCXD3 | Body | opensea | Body-opens | | |
| cg1525389 | 0.21243 | 0.411908 | 13.6096 | 1.29E-06 | 0.000436 | 6.174059 | 0.305693 | 0.518123 | -0.21243 | 6 | 1.51E+08 | F | II | MTHFD1L | Body | opensea | Body-opens | | |
| cg1036884 | 0.201963 | 0.54077 | 13.60948 | 1.29E-06 | 0.000436 | 6.173997 | 0.439788 | 0.641751 | -0.20196 | 10 | 1.16E+08 | F | II | PLEKHS1 | 1stExon | opensea | 1stExon-op | rs1900998 | 4;7;24;35;46;50 |
| cg1329062 | 0.235866 | 0.661923 | 13.60292 | 1.29E-06 | 0.000436 | 6.170578 | 0.54399 | 0.779856 | -0.23587 | 15 | 68840772 | R | II | | IGR | opensea | IGR-opense | rs5448290 | 37;2;1 |
| cg0941579 | 0.245598 | 0.483545 | 13.60091 | 1.29E-06 | 0.000436 | 6.169529 | 0.360747 | 0.606344 | -0.2456 | 3 | 23800187 | F | II | | IGR | opensea | IGR-opense | rs5727585 | 4;17 |
| cg2608180 | 0.227041 | 0.571841 | 13.59543 | 1.3E-06 | 0.000436 | 6.16667 | 0.45832 | 0.685361 | -0.22704 | 3 | 1.01E+08 | R | II | ABI3BP | Body | opensea | Body-opens | rs7761511 | 17;6;2;1 |
| cg1199606 | 0.220743 | 0.67621 | 13.59346 | 1.3E-06 | 0.000436 | 6.165646 | 0.565839 | 0.786582 | -0.22074 | 9 | 93635561 | R | II | SYK | Body | opensea | Body-opens | rs3749133 | 1 |
| cg2722690 | 0.246651 | 0.653204 | 13.58746 | 1.3E-06 | 0.000436 | 6.162512 | 0.529879 | 0.77653 | -0.24665 | 4 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | rs1405181 | 22;1 |
| cg1391263 | 0.217773 | 0.6176 | 13.58523 | 1.31E-06 | 0.000436 | 6.161348 | 0.508714 | 0.726487 | -0.21777 | 5 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | rs1383841 | 12 |
| cg1463790 | 0.218021 | 0.485569 | 13.58411 | 1.31E-06 | 0.000436 | 6.160766 | 0.376559 | 0.59458 | -0.21802 | 10 | 1.04E+08 | F | II | C10orf76 | Body | opensea | Body-opens | rs1872004 | 18;28;41 |
| cg1176439 | 0.230789 | 0.569399 | 13.57649 | 1.31E-06 | 0.000438 | 6.156782 | 0.454005 | 0.684794 | -0.23079 | 21 | 47864791 | F | II | PCNT | Body | opensea | Body-opens | rs1512361 | 0;4;22;25;32;47 |
| cg2591613 | 0.222756 | 0.43127 | 13.57167 | 1.32E-06 | 0.000438 | 6.154266 | 0.319892 | 0.542648 | -0.22276 | 2 | 59071761 | F | II | | IGR | opensea | IGR-opense | rs5364716 | 0;24;47 |
| cg0777642 | 0.210141 | 0.533868 | 13.5704 | 1.32E-06 | 0.000438 | 6.1536 | 0.428798 | 0.638939 | -0.21014 | 10 | 5713058 | R | II | | IGR | opensea | IGR-opense | rs5572781 | 42;2;1 |
| cg0702868 | 0.254747 | 0.603784 | 13.56991 | 1.32E-06 | 0.000438 | 6.153346 | 0.47641 | 0.731157 | -0.25475 | 6 | 1.14E+08 | F | II | LOC10192 | Body | opensea | Body-opens | rs1427248 | 26;47 |
| cg1850601 | 0.204577 | 0.589363 | 13.5576 | 1.33E-06 | 0.000439 | 6.146903 | 0.487074 | 0.691651 | -0.20458 | 19 | 44285974 | F | II | KCNN4 | TSS1500 | opensea | TSS1500-op | rs5745012 | 5;13;27;31 |
| cg0842866 | 0.210945 | 0.44033 | 13.55694 | 1.33E-06 | 0.000439 | 6.146562 | 0.334857 | 0.545802 | -0.21094 | 16 | 28011265 | F | II | GSG1L | Body | opensea | Body-opens | rs1424953 | 0;8 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1230507 | 0.220054 | 0.516792 | 13.55332 | 1.33E-06 | 0.00044 | 6.144664 | 0.406765 | 0.626819 | -0.22005 | 7 | 78368756 | F | II | MAGI2 | Body | opensea | Body-opens | | rs5655999 | 43 |
| cg1646195 | 0.201971 | 0.5412 | 13.55001 | 1.33E-06 | 0.00044 | 6.142933 | 0.440214 | 0.642185 | -0.20197 | 16 | 58936076 | F | II | | IGR | opensea | IGR-opense | | rs1897237 | 0 |
| cg2469968 | 0.25952 | 0.610765 | 13.54955 | 1.33E-06 | 0.00044 | 6.142689 | 0.481005 | 0.740525 | -0.25952 | 1 | 95268325 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1693496 | 0.252705 | 0.451735 | 13.54887 | 1.33E-06 | 0.00044 | 6.142335 | 0.325383 | 0.578088 | -0.2527 | 2 | 1.74E+08 | R | II | RAPGEF4 | Body | opensea | Body-opens | | rs1851433 | 36 |
| cg0734841 | 0.23723 | 0.567626 | 13.53714 | 1.34E-06 | 0.000442 | 6.136186 | 0.449011 | 0.686241 | -0.23723 | 1 | 44903330 | F | II | RNF220 | Body | opensea | Body-opens | | rs5603200 | 17;50 |
| cg2423267 | 0.204395 | 0.630394 | 13.53617 | 1.34E-06 | 0.000442 | 6.135678 | 0.528196 | 0.732591 | -0.20439 | 1 | 2.19E+08 | R | II | LYPLAL1-AS | Body | opensea | Body-opens | | rs5563090 | 25;2;1 |
| cg1689009 | 0.207714 | 0.497215 | 13.53577 | 1.34E-06 | 0.000442 | 6.135466 | 0.393358 | 0.601072 | -0.20771 | 13 | 96162551 | R | II | CLDN10-AS | Body | opensea | Body-opens | | rs1487420 | 26 |
| cg2525296 | 0.252045 | 0.489168 | 13.52832 | 1.35E-06 | 0.000442 | 6.13156 | 0.363146 | 0.615191 | -0.25204 | 12 | 8695028 | F | II | CLEC4E | TSS1500 | opensea | TSS1500-op | | | |
| cg1371996 | 0.213052 | 0.36382 | 13.52378 | 1.35E-06 | 0.000443 | 6.129175 | 0.257294 | 0.470346 | -0.21305 | 8 | 1.34E+08 | R | II | MIR7848 | TSS200 | opensea | TSS200-ope | | rs1126474 | 42;2 |
| cg1083408 | 0.223214 | 0.568885 | 13.52058 | 1.35E-06 | 0.000443 | 6.127499 | 0.457278 | 0.680492 | -0.22321 | 15 | 80500594 | R | II | | IGR | opensea | IGR-opense | | rs5698519 | 29;2;1 |
| cg2406430 | 0.203721 | 0.574889 | 13.51431 | 1.36E-06 | 0.000444 | 6.124202 | 0.473029 | 0.676749 | -0.20372 | 8 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5681487 | 0;2 |
| cg1900584 | 0.2177 | 0.476601 | 13.51047 | 1.36E-06 | 0.000444 | 6.122183 | 0.367751 | 0.585451 | -0.2177 | 6 | 29399774 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1705548 | 0.215227 | 0.44791 | 13.50868 | 1.36E-06 | 0.000444 | 6.121243 | 0.340296 | 0.555523 | -0.21523 | 6 | 1.44E+08 | R | II | LOC28574( | Body | opensea | Body-opens | | rs1461213 | 1 |
| cg0887749 | 0.229285 | 0.620075 | 13.50696 | 1.36E-06 | 0.000445 | 6.120343 | 0.505433 | 0.734718 | -0.22928 | 8 | 77895589 | R | II | PEX2 | Body | opensea | Body-opens | | | |
| cg2659627 | 0.218571 | 0.426805 | 13.5047 | 1.36E-06 | 0.000445 | 6.119151 | 0.317519 | 0.53609 | -0.21857 | 1 | 2.06E+08 | R | II | AVPR1B | Body | shelf | Body-shelf | chr1:2062 | rs5333455 | 10 |
| cg0868389 | 0.215698 | 0.588581 | 13.49653 | 1.37E-06 | 0.000445 | 6.114854 | 0.480732 | 0.69643 | -0.2157 | 12 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs1163038 | 2 |
| cg1557429 | 0.257351 | 0.488898 | 13.49567 | 1.37E-06 | 0.000445 | 6.1144 | 0.360223 | 0.617573 | -0.25735 | 7 | 25590861 | F | II | | IGR | opensea | IGR-opense | | rs1778270 | 29;47 |
| cg2684898 | 0.236932 | 0.537667 | 13.49119 | 1.37E-06 | 0.000445 | 6.112044 | 0.419201 | 0.656133 | -0.23693 | 1 | 1.86E+08 | F | II | HMCN1 | Body | opensea | Body-opens | | rs1401494 | 0;31 |
| cg2191019 | 0.20868 | 0.559592 | 13.49079 | 1.37E-06 | 0.000445 | 6.111834 | 0.455252 | 0.663932 | -0.20868 | 14 | 72402619 | F | II | RGS6 | 5'UTR | shelf | 5'UTR-shelf | chr14:723 | rs1995191 | 40 |
| cg1984122 | 0.259673 | 0.55996 | 13.48428 | 1.38E-06 | 0.000446 | 6.108404 | 0.430123 | 0.689796 | -0.25967 | 6 | 1.12E+08 | F | II | FYN | 5'UTR | opensea | 5'UTR-open | | rs7563665 | 49 |
| cg0325433 | 0.227427 | 0.529957 | 13.48227 | 1.38E-06 | 0.000446 | 6.107345 | 0.416244 | 0.643671 | -0.22743 | 10 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs5484135 | 6 |
| cg0507224 | 0.236789 | 0.626009 | 13.4808 | 1.38E-06 | 0.000446 | 6.106571 | 0.507615 | 0.744404 | -0.23679 | 6 | 27781799 | R | II | HIST1H2BN | TSS1500 | shore | TSS1500-sh | chr6:2778 | rs3709405 | 14;1 |
| cg2659144 | 0.208586 | 0.484437 | 13.47721 | 1.38E-06 | 0.000446 | 6.104681 | 0.380144 | 0.588729 | -0.20859 | 10 | 61366602 | F | II | | IGR | opensea | IGR-opense | | rs1903495 | 23 |
| cg0775890 | 0.210376 | 0.491636 | 13.47021 | 1.39E-06 | 0.000447 | 6.100987 | 0.386448 | 0.596824 | -0.21038 | 15 | 31523838 | F | II | LOC28371( | TSS1500 | opensea | TSS1500-op | | rs3736801 | 0 |
| cg2709776 | 0.254997 | 0.514017 | 13.46989 | 1.39E-06 | 0.000447 | 6.10082 | 0.386518 | 0.641515 | -0.255 | 14 | 21923087 | R | II | | IGR | shore | IGR-shore | chr14:219 | rs7912057 | 9 |
| cg1035214 | 0.207601 | 0.502354 | 13.46978 | 1.39E-06 | 0.000447 | 6.100762 | 0.398554 | 0.606154 | -0.2076 | 18 | 57052410 | R | II | | IGR | opensea | IGR-opense | | rs5693219 | 1 |
| cg1356446 | 0.250773 | 0.615126 | 13.46372 | 1.39E-06 | 0.000448 | 6.097563 | 0.489739 | 0.740512 | -0.25077 | 3 | 1.86E+08 | R | II | LOC25357: | Body | opensea | Body-opens | | rs1164472 | 9;2 |
| cg1060127 | 0.216797 | 0.487985 | 13.46255 | 1.4E-06 | 0.000448 | 6.096947 | 0.379587 | 0.596384 | -0.2168 | 1 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1869738 | 46 |
| cg2089747 | 0.214675 | 0.559167 | 13.4598 | 1.4E-06 | 0.000448 | 6.095495 | 0.451829 | 0.666504 | -0.21468 | 11 | 12292577 | R | II | | IGR | opensea | IGR-opense | | rs1388526 | 38;2 |
| cg2437971 | 0.239192 | 0.570817 | 13.45805 | 1.4E-06 | 0.000448 | 6.094572 | 0.451221 | 0.690413 | -0.23919 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5541648 | 1;8;9;10;45 |
| cg2622431 | 0.230055 | 0.556318 | 13.45736 | 1.4E-06 | 0.000448 | 6.094207 | 0.441291 | 0.671345 | -0.23005 | 13 | 81746461 | F | II | | IGR | opensea | IGR-opense | | rs1386506 | 19;25 |
| cg0207074 | 0.206285 | 0.681744 | 13.45511 | 1.4E-06 | 0.000448 | 6.093016 | 0.578602 | 0.784887 | -0.20628 | 1 | 1.47E+08 | R | II | CHD1L | Body | opensea | Body-opens | | rs3753423 | 48;22;5;2;1 |
| cg0059709 | 0.210508 | 0.490362 | 13.44687 | 1.41E-06 | 0.000449 | 6.088665 | 0.385108 | 0.595616 | -0.21051 | 16 | 76839538 | R | II | | IGR | opensea | IGR-opense | | rs1902602 | 34;25;20;11 |
| cg1533448 | 0.221847 | 0.536485 | 13.44654 | 1.41E-06 | 0.000449 | 6.088493 | 0.425562 | 0.647409 | -0.22185 | 1 | 64578142 | F | II | ROR1-AS1 | Body | opensea | Body-opens | | | |
| cg2078216 | 0.222548 | 0.559316 | 13.43989 | 1.41E-06 | 0.000449 | 6.084976 | 0.448041 | 0.67059 | -0.22255 | 4 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs1919654 | 24 |
| cg1263923 | 0.209508 | 0.591507 | 13.43871 | 1.41E-06 | 0.000449 | 6.08435 | 0.486753 | 0.696261 | -0.20951 | 8 | 18248964 | F | II | NAT2 | 5'UTR | shelf | 5'UTR-shelf | chr8:1824 | rs5423625 | 0;18;32 |
| cg1297559 | 0.24092 | 0.622552 | 13.43817 | 1.41E-06 | 0.000449 | 6.084067 | 0.502092 | 0.743012 | -0.24092 | 6 | 22897079 | F | II | | IGR | opensea | IGR-opense | | rs5654362 | 0 |
| cg2330542 | 0.262959 | 0.449821 | 13.43571 | 1.42E-06 | 0.000449 | 6.082764 | 0.318341 | 0.5813 | -0.26296 | 11 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5731021 | 51;32;31;2 |
| cg1596231 | 0.215245 | 0.576248 | 13.42032 | 1.43E-06 | 0.000451 | 6.074615 | 0.468626 | 0.683871 | -0.21525 | 11 | 1.27E+08 | R | II | KIRREL3 | Body | opensea | Body-opens | | rs1473837 | 9;2 |
| cg1419104 | 0.20868 | 0.571739 | 13.41771 | 1.43E-06 | 0.000451 | 6.07323 | 0.467399 | 0.676078 | -0.20868 | 10 | 96745681 | R | II | CYP2C9 | Body | opensea | Body-opens | | rs1834552 | 50;42;35;2 |
| cg1138195 | 0.233401 | 0.534879 | 13.41644 | 1.43E-06 | 0.000451 | 6.072558 | 0.418179 | 0.65158 | -0.2334 | 4 | 1.02E+08 | F | II | PPP3CA | Body | opensea | Body-opens | | rs5776410 | 3;35 |
| cg0519850 | 0.226204 | 0.419849 | 13.41184 | 1.43E-06 | 0.000451 | 6.070119 | 0.306747 | 0.532951 | -0.2262 | 5 | 1.39E+08 | R | II | SPATA24 | Body | opensea | Body-opens | | rs7891733 | 37;25;1 |
| cg0801791 | 0.271808 | 0.682409 | 13.41178 | 1.44E-06 | 0.000451 | 6.070088 | 0.546505 | 0.818313 | -0.27181 | 4 | 84526934 | R | II | AGPAT9 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0215619 | 0.212458 | 0.621279 | 13.41058 | 1.44E-06 | 0.000451 | 6.069453 | 0.51505 | 0.727509 | -0.21246 | 20 | 11668904 | F | II | | IGR | shore | IGR-shore | chr20:116 | rs5319090 | 28 |
| cg2396941 | 0.20223 | 0.414566 | 13.40913 | 1.44E-06 | 0.000451 | 6.068682 | 0.313451 | 0.51568 | -0.20223 | 2 | 5313194 | R | II | | IGR | opensea | IGR-opense | | rs1404616 | 51;28;2 |
| cg1677277 | 0.204538 | 0.455498 | 13.40812 | 1.44E-06 | 0.000451 | 6.06815 | 0.353229 | 0.557767 | -0.20454 | 14 | 62721064 | R | II | | IGR | opensea | IGR-opense | | rs5579411 | 23;11;1 |
| cg0742919 | 0.212529 | 0.523374 | 13.40795 | 1.44E-06 | 0.000451 | 6.068056 | 0.41711 | 0.629639 | -0.21253 | 5 | 9918811 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0802385 | 0.210193 | 0.513853 | 13.40694 | 1.44E-06 | 0.000451 | 6.067522 | 0.408757 | 0.61895 | -0.21019 | 3 | 65864381 | F | II | MAGI1 | Body | opensea | Body-opens | | rs1488223 | 45;46 |
| cg0342632 | 0.20307 | 0.490705 | 13.40655 | 1.44E-06 | 0.000451 | 6.067318 | 0.38917 | 0.59224 | -0.20307 | 21 | 39627382 | R | II | KCNJ15 | TSS1500 | opensea | TSS1500-op | | rs7654592 | 7 |
| cg0405506 | 0.223944 | 0.542202 | 13.40083 | 1.44E-06 | 0.000451 | 6.064279 | 0.43023 | 0.654174 | -0.22394 | 3 | 25382277 | F | II | RARB | TSS200 | opensea | TSS200-ope | | rs1459922 | 25 |
| cg1826409 | 0.200464 | 0.518544 | 13.40069 | 1.44E-06 | 0.000451 | 6.064209 | 0.418312 | 0.618776 | -0.20046 | 10 | 6183575 | F | II | | IGR | shelf | IGR-shelf | chr10:618 | rs7998593 | 0;17;28 |
| cg0378798 | 0.200361 | 0.592833 | 13.39985 | 1.44E-06 | 0.000451 | 6.063761 | 0.492653 | 0.693013 | -0.20036 | 11 | 10602522 | F | II | MRVI1 | Body | opensea | Body-opens | | rs5780562 | 2;48 |
| cg2758254 | 0.213953 | 0.541938 | 13.39581 | 1.45E-06 | 0.000451 | 6.061614 | 0.434961 | 0.648914 | -0.21395 | 1 | 1062237 | R | II | | IGR | opensea | IGR-opense | | rs5771966 | 32 |
| cg1494799 | 0.204792 | 0.492289 | 13.39448 | 1.45E-06 | 0.000451 | 6.06091 | 0.389893 | 0.594685 | -0.20479 | 6 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs8029972 | 18 |
| cg1596769 | 0.23087 | 0.53039 | 13.39418 | 1.45E-06 | 0.000451 | 6.060753 | 0.414955 | 0.645825 | -0.23087 | 14 | 1.01E+08 | F | II | SNHG24 | Body | opensea | Body-opens | | | |
| cg2281371 | 0.213426 | 0.504566 | 13.38824 | 1.45E-06 | 0.000452 | 6.057596 | 0.397853 | 0.611279 | -0.21343 | 1 | 87595171 | F | II | LOC33952( | TSS1500 | shelf | TSS1500-sh | chr1:8759 | rs1447539 | 36;42 |
| cg0488447 | 0.220949 | 0.476628 | 13.38748 | 1.45E-06 | 0.000452 | 6.05719 | 0.366153 | 0.587102 | -0.22095 | 17 | 60266252 | F | II | | IGR | opensea | IGR-opense | | rs1852967 | 1 |
| cg0933585 | 0.246108 | 0.47597 | 13.38578 | 1.46E-06 | 0.000452 | 6.056288 | 0.352916 | 0.599024 | -0.24611 | 3 | 5307317 | R | II | | IGR | opensea | IGR-opense | | rs5388905 | 1 |
| cg0298628 | 0.223077 | 0.689451 | 13.38483 | 1.46E-06 | 0.000452 | 6.055786 | 0.577913 | 0.80099 | -0.22308 | 11 | 2798509 | R | II | KCNQ1 | Body | opensea | Body-opens | | | |
| cg0191966 | 0.202521 | 0.596485 | 13.38436 | 1.46E-06 | 0.000452 | 6.055534 | 0.495224 | 0.697745 | -0.20252 | 11 | 62782872 | R | II | SLC22A8 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0319103 | 0.223938 | 0.592634 | 13.38296 | 1.46E-06 | 0.000452 | 6.054789 | 0.480665 | 0.704603 | -0.22394 | 3 | 1.86E+08 | R | II | | IGR | opensea | IGR-opense | | rs1141473 | 35 |
| cg0271199 | 0.266039 | 0.508263 | 13.38251 | 1.46E-06 | 0.000452 | 6.05455 | 0.375243 | 0.641283 | -0.26604 | 4 | 70716021 | F | II | SULT1E1 | Body | opensea | Body-opens | | rs1157377 | 1;48 |
| cg0805005 | 0.205091 | 0.572512 | 13.37889 | 1.46E-06 | 0.000452 | 6.052628 | 0.469967 | 0.675057 | -0.20509 | 3 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs3400587 | 48;36;31;20;10 |
| cg1262485 | 0.221326 | 0.598949 | 13.3713 | 1.47E-06 | 0.000454 | 6.048591 | 0.488286 | 0.709612 | -0.22133 | 19 | 16231013 | R | II | RAB8A | Body | opensea | Body-opens | | rs5691306 | 9;2 |
| cg2098666 | 0.223 | 0.474908 | 13.36761 | 1.47E-06 | 0.000454 | 6.046628 | 0.363408 | 0.586408 | -0.223 | 1 | 22552245 | R | II | | IGR | opensea | IGR-opense | | rs1414776 | 38 |
| cg1615890 | 0.296041 | 0.542502 | 13.36592 | 1.47E-06 | 0.000454 | 6.045726 | 0.394481 | 0.690522 | -0.29604 | 7 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs1416447 | 24;2 |
| cg0567350 | 0.258601 | 0.560047 | 13.36233 | 1.47E-06 | 0.000455 | 6.043813 | 0.430747 | 0.689348 | -0.2586 | 14 | 97176849 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1563945 | 0.202062 | 0.554342 | 13.36191 | 1.47E-06 | 0.000455 | 6.04359 | 0.453311 | 0.655373 | -0.20206 | 9 | 19377072 | R | II | RPS6 | Body | shelf | Body-shelf | chr9:1937 | rs5386515 | 33;28 |
| cg2299401 | 0.236348 | 0.60723 | 13.3601 | 1.48E-06 | 0.000455 | 6.042626 | 0.489056 | 0.725403 | -0.23635 | 11 | 10044327 | F | II | SBF2 | Body | opensea | Body-opens | | rs5703060 | 0;1 |
| cg0698629 | 0.244923 | 0.52428 | 13.35865 | 1.48E-06 | 0.000455 | 6.041855 | 0.401818 | 0.646741 | -0.24492 | 8 | 1.31E+08 | R | II | CCDC26 | Body | opensea | Body-opens | | rs1881361 | 46 |
| cg0049637 | 0.210319 | 0.499815 | 13.35548 | 1.48E-06 | 0.000455 | 6.040166 | 0.394656 | 0.604975 | -0.21032 | 1 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1752905 | 0.222582 | 0.490984 | 13.35541 | 1.48E-06 | 0.000455 | 6.040131 | 0.379693 | 0.602275 | -0.22258 | 17 | 72886179 | R | II | FADS6 | Body | shelf | Body-shelf | chr17:728 | rs5369868 | 39;2 |
| cg1876334 | 0.222744 | 0.476479 | 13.35273 | 1.48E-06 | 0.000455 | 6.0387 | 0.365107 | 0.587852 | -0.22274 | 2 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | rs5723109 | 0;11;33;43;47 |
| cg0181867 | 0.241413 | 0.591411 | 13.34874 | 1.49E-06 | 0.000456 | 6.036572 | 0.470705 | 0.712117 | -0.24141 | 4 | 8257758 | R | II | | IGR | opensea | IGR-opense | | rs1313854 | 48;1 |
| cg0363445 | 0.218189 | 0.453791 | 13.34595 | 1.49E-06 | 0.000456 | 6.035085 | 0.344696 | 0.562885 | -0.21819 | 15 | 71626380 | F | II | THSD4 | Body | opensea | Body-opens | | rs5602230 | 1;5;9 |
| cg0296589 | 0.213516 | 0.455633 | 13.34269 | 1.49E-06 | 0.000456 | 6.033345 | 0.348875 | 0.562391 | -0.21352 | 11 | 5020172 | F | II | OR51L1 | TSS200 | opensea | TSS200-ope | | rs1418062 | 6;17 |
| cg2621968 | 0.230914 | 0.465424 | 13.34139 | 1.49E-06 | 0.000456 | 6.032652 | 0.349967 | 0.580881 | -0.23091 | 2 | 58568596 | F | II | | IGR | opensea | IGR-opense | | rs1812388 | 8;15;29 |
| cg1578234 | 0.226855 | 0.484 | 13.33814 | 1.49E-06 | 0.000456 | 6.03092 | 0.370572 | 0.597428 | -0.22686 | 2 | 69016925 | R | II | ARHGAP25 | Body | opensea | Body-opens | | rs5694987 | 27 |
| cg0366689 | 0.28318 | 0.613098 | 13.33341 | 1.5E-06 | 0.000456 | 6.028393 | 0.471508 | 0.754688 | -0.28318 | 11 | 76847277 | R | II | MYO7A | Body | shore | Body-shore | chr11:768 | rs1841666 | 37 |
| cg1111414 | 0.229882 | 0.524354 | 13.33103 | 1.5E-06 | 0.000456 | 6.027124 | 0.409413 | 0.639295 | -0.22988 | 2 | 2.07E+08 | F | II | NRP2 | Body | opensea | Body-opens | | rs7972957 | 46;50 |
| cg1725378 | 0.2515 | 0.635624 | 13.3244 | 1.51E-06 | 0.000456 | 6.023585 | 0.509874 | 0.761374 | -0.2515 | 8 | 67587258 | F | II | C8orf44 | TSS1500 | opensea | TSS1500-op | | rs5315788 | 0;1;3;9 |
| cg0174076 | 0.248058 | 0.634788 | 13.32387 | 1.51E-06 | 0.000456 | 6.023298 | 0.510759 | 0.758817 | -0.24806 | 3 | 15541901 | R | II | COLQ | Body | opensea | Body-opens | | | |
| cg1465512 | 0.201339 | 0.660634 | 13.31462 | 1.51E-06 | 0.000457 | 6.018353 | 0.559964 | 0.761304 | -0.20134 | 1 | 21970665 | R | II | RAP1GAP | Body | opensea | Body-opens | | rs5277795 | 49;35;25;23;1 |
| cg1769193 | 0.229884 | 0.507255 | 13.3143 | 1.51E-06 | 0.000457 | 6.018185 | 0.392313 | 0.622197 | -0.22988 | 7 | 48568677 | R | II | ABCA13 | Body | opensea | Body-opens | | rs1842984 | 46;18;15;2;1 |
| cg2382102 | 0.283746 | 0.482484 | 13.31254 | 1.52E-06 | 0.000457 | 6.017241 | 0.340611 | 0.624357 | -0.28375 | 13 | 99962835 | F | II | UBAC2 | Body | opensea | Body-opens | | | |
| cg0363480 | 0.226669 | 0.567069 | 13.30594 | 1.52E-06 | 0.000458 | 6.013713 | 0.453735 | 0.680404 | -0.22667 | 18 | 54777662 | F | II | | IGR | opensea | IGR-opense | | rs5771064 | 37 |
| cg0293509 | 0.213571 | 0.579609 | 13.30427 | 1.52E-06 | 0.000458 | 6.012819 | 0.472824 | 0.686394 | -0.21357 | 1 | 92414782 | F | II | BRDT | TSS200 | island | TSS200-isla | chr1:9241 | rs1806778 | 0;25;41;49 |
| cg2684911 | 0.236712 | 0.542983 | 13.30287 | 1.52E-06 | 0.000458 | 6.012066 | 0.424627 | 0.661339 | -0.23671 | 3 | 1.24E+08 | F | II | KALRN | 3'UTR | opensea | 3'UTR-open | | rs1906726 | 0;1;25 |
| cg0084995 | 0.215293 | 0.613398 | 13.30271 | 1.52E-06 | 0.000458 | 6.011982 | 0.505751 | 0.721045 | -0.21529 | 6 | 1.12E+08 | F | II | FYN | 5'UTR | opensea | 5'UTR-open | | rs5778525 | 15 |
| cg0846984 | 0.204579 | 0.539783 | 13.30104 | 1.52E-06 | 0.000458 | 6.01109 | 0.437494 | 0.642073 | -0.20458 | 17 | 39676096 | R | II | KRT15 | TSS1500 | opensea | TSS1500-op | | rs5767407 | 47;40;10;7 |
| cg1899189 | 0.239014 | 0.539423 | 13.30094 | 1.53E-06 | 0.000458 | 6.011034 | 0.419916 | 0.65893 | -0.23901 | 3 | 1.23E+08 | F | II | SEMA5B | Body | opensea | Body-opens | | rs5280798 | 0;10;14;22 |
| cg2610446 | 0.200168 | 0.557205 | 13.3 | 1.53E-06 | 0.000458 | 6.010533 | 0.457121 | 0.65729 | -0.20017 | 9 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs1145435 | 1;23 |
| cg1168652 | 0.206574 | 0.435231 | 13.29874 | 1.53E-06 | 0.000458 | 6.009855 | 0.331944 | 0.538518 | -0.20657 | 5 | 24554038 | F | II | CDH10 | Body | opensea | Body-opens | | rs1414052 | 9;11 |
| cg0764559 | 0.214976 | 0.472442 | 13.2986 | 1.53E-06 | 0.000458 | 6.009783 | 0.364954 | 0.579929 | -0.21498 | 2 | 1.55E+08 | R | II | LOC10014( | TSS1500 | opensea | TSS1500-op | | rs5287913 | 34 |
| cg1588328 | 0.21805 | 0.498781 | 13.2968 | 1.53E-06 | 0.000458 | 6.008817 | 0.389757 | 0.607806 | -0.21805 | 14 | 85853554 | R | II | | IGR | opensea | IGR-opense | | rs1459251 | 4 |
| cg0745449 | 0.230434 | 0.600003 | 13.29439 | 1.53E-06 | 0.000458 | 6.007527 | 0.484786 | 0.71522 | -0.23043 | 6 | 31665801 | F | II | ABHD16A | Body | opensea | Body-opens | | rs5301782 | 3 |
| cg1869174 | 0.216972 | 0.550928 | 13.29091 | 1.53E-06 | 0.000459 | 6.005663 | 0.442443 | 0.659414 | -0.21697 | 9 | 83264554 | R | II | | IGR | opensea | IGR-opense | | rs1461765 | 13;9 |
| cg1392620 | 0.223348 | 0.478049 | 13.2838 | 1.54E-06 | 0.00046 | 6.001851 | 0.366375 | 0.589724 | -0.22335 | 4 | 15239597 | R | II | LOC10192( | Body | opensea | Body-opens | | rs1835845 | 40;6 |
| cg1593690 | 0.242758 | 0.569355 | 13.2806 | 1.54E-06 | 0.00046 | 6.000136 | 0.447976 | 0.690734 | -0.24276 | 17 | 30024653 | F | II | | IGR | opensea | IGR-opense | | rs1413264 | 31 |
| cg1955303 | 0.24754 | 0.544674 | 13.27856 | 1.54E-06 | 0.000461 | 5.999042 | 0.420904 | 0.668444 | -0.24754 | 4 | 26196680 | F | II | | IGR | opensea | IGR-opense | | rs5390600 | 0;1;10;48 |
| cg0701959 | 0.275544 | 0.460061 | 13.2773 | 1.55E-06 | 0.000461 | 5.998366 | 0.322289 | 0.597834 | -0.27554 | 17 | 34207481 | R | II | CCL5 | TSS200 | opensea | TSS200-ope | | rs5359131 | 1 |
| cg2340567 | 0.233237 | 0.515586 | 13.27469 | 1.55E-06 | 0.000461 | 5.996961 | 0.398967 | 0.632204 | -0.23324 | 20 | 14690830 | F | II | MACROD2 | Body | opensea | Body-opens | | rs5441572 | 18;22;34 |
| cg0217392 | 0.218329 | 0.559182 | 13.27111 | 1.55E-06 | 0.000461 | 5.995044 | 0.450017 | 0.668346 | -0.21833 | 20 | 44769380 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0183376 | 0.242069 | 0.537296 | 13.27101 | 1.55E-06 | 0.000461 | 5.994989 | 0.416262 | 0.65833 | -0.24207 | 9 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs1917919 | 21;1 |
| cg1315620 | 0.215179 | 0.506532 | 13.2663 | 1.55E-06 | 0.000462 | 5.992458 | 0.398943 | 0.614122 | -0.21518 | 2 | 28873060 | R | II | | IGR | opensea | IGR-opense | | rs1378763 | 49;13 |
| cg0259644 | 0.21275 | 0.596955 | 13.26011 | 1.56E-06 | 0.000462 | 5.989136 | 0.49058 | 0.70333 | -0.21275 | 14 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs7560170 | 40 |
| cg2077409 | 0.222744 | 0.526379 | 13.25937 | 1.56E-06 | 0.000462 | 5.988738 | 0.415007 | 0.637751 | -0.22274 | 20 | 23087608 | R | II | | IGR | opensea | IGR-opense | | rs1832262 | 1 |
| cg1405756 | 0.208337 | 0.441249 | 13.2578 | 1.56E-06 | 0.000462 | 5.98789 | 0.337081 | 0.545418 | -0.20834 | 2 | 17305179 | F | II | | IGR | opensea | IGR-opense | | rs1443950 | 0;28;32 |
| cg0001641 | 0.224901 | 0.677089 | 13.25667 | 1.56E-06 | 0.000462 | 5.987287 | 0.564639 | 0.78954 | -0.2249 | 5 | 82840805 | F | II | VCAN | Body | opensea | Body-opens | | rs1816685 | 38 |
| cg2542336 | 0.259125 | 0.563246 | 13.25605 | 1.56E-06 | 0.000462 | 5.986952 | 0.433683 | 0.692808 | -0.25912 | 14 | 73480891 | R | II | ZFYVE1 | Body | opensea | Body-opens | | rs1393819 | 50 |
| cg1606021 | 0.2275 | 0.503464 | 13.25217 | 1.57E-06 | 0.000463 | 5.984864 | 0.389714 | 0.617214 | -0.2275 | 4 | 86936666 | F | II | MAPK10 | 3'UTR | opensea | 3'UTR-open | | rs1382285 | 1;4 |
| cg1988860 | 0.208079 | 0.489727 | 13.25107 | 1.57E-06 | 0.000463 | 5.984273 | 0.385687 | 0.593767 | -0.20808 | 6 | 22443354 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1384635 | 0.255109 | 0.502194 | 13.2475 | 1.57E-06 | 0.000463 | 5.982352 | 0.37464 | 0.629749 | -0.25511 | 3 | 1.51E+08 | R | II | MIR548H2 | Body | opensea | Body-opens | | rs5719518 | 1 |
| cg0897342 | 0.210038 | 0.635078 | 13.24506 | 1.57E-06 | 0.000463 | 5.981042 | 0.530059 | 0.740097 | -0.21004 | 21 | 40401238 | F | II | | IGR | opensea | IGR-opense | | rs1132281 | 27 |
| cg1393150 | 0.233137 | 0.599888 | 13.24325 | 1.57E-06 | 0.000463 | 5.980065 | 0.48332 | 0.716457 | -0.23314 | 2 | 1.7E+08 | F | II | ABCB11 | ExonBnd | opensea | ExonBnd-op | | rs1815336 | 0 |
| cg1064265 | 0.216907 | 0.506778 | 13.24255 | 1.58E-06 | 0.000463 | 5.979688 | 0.398324 | 0.615231 | -0.21691 | 1 | 76077469 | R | II | SLC44A5 | TSS1500 | shelf | TSS1500-sh | chr1:7608 | rs1843122 | 35 |
| cg2359676 | 0.250353 | 0.4858 | 13.23997 | 1.58E-06 | 0.000463 | 5.978303 | 0.360624 | 0.610976 | -0.25035 | 8 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs5430849 | 6 |
| cg0538340 | 0.238933 | 0.661597 | 13.23714 | 1.58E-06 | 0.000463 | 5.976775 | 0.54213 | 0.781063 | -0.23893 | 15 | 65319353 | R | II | MTFMT | Body | shelf | Body-shelf | chr15:653 | rs2021922 | 50;22;6 |
| cg1923628 | 0.208359 | 0.556406 | 13.2356 | 1.58E-06 | 0.000464 | 5.975946 | 0.452226 | 0.660585 | -0.20836 | 20 | 23215597 | F | II | | IGR | opensea | IGR-opense | | rs7267349 | 19;44 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0229647 | 0.240295 | 0.518303 | 13.22833 | 1.59E-06 | 0.000464 | 5.972034 | 0.398155 | 0.638451 | -0.2403 | 8 | 1.04E+08 | R | II | AZIN1-AS1 | Body | opensea | Body-opens | | rs5525803 | 32;10 |
| cg2343227 | 0.211958 | 0.654274 | 13.22818 | 1.59E-06 | 0.000464 | 5.97195 | 0.548295 | 0.760253 | -0.21196 | 3 | 19431834 | R | II | KCNH8 | Body | opensea | Body-opens | | | |
| cg1681883 | 0.200239 | 0.474608 | 13.22799 | 1.59E-06 | 0.000464 | 5.971848 | 0.374489 | 0.574728 | -0.20024 | 17 | 37379606 | F | II | STAC2 | Body | shore | Body-shore | chr17:3737 | rs5544646 | 10;22 |
| cg1052984 | 0.218258 | 0.421015 | 13.22652 | 1.59E-06 | 0.000464 | 5.971057 | 0.311886 | 0.530144 | -0.21826 | 16 | 49522337 | R | II | | IGR | shelf | IGR-shelf | chr16:4951 | rs3727160 | 51;32;2;1 |
| cg0849819 | 0.212524 | 0.501821 | 13.22583 | 1.59E-06 | 0.000464 | 5.970682 | 0.395559 | 0.608083 | -0.21252 | 7 | 83271654 | F | II | SEMA3E | TSS1500 | opensea | TSS1500-op | | rs5382559 | 45 |
| cg1943713 | 0.229693 | 0.461474 | 13.22025 | 1.59E-06 | 0.000464 | 5.967677 | 0.346627 | 0.576321 | -0.22969 | 22 | 42015675 | F | II | XRCC6 | TSS1500 | shore | TSS1500-sh | chr22:4201 | rs7254742 | 32 |
| cg2527017 | 0.216811 | 0.476357 | 13.21791 | 1.6E-06 | 0.000464 | 5.966411 | 0.367951 | 0.584762 | -0.21681 | 22 | 44293765 | F | II | | IGR | opensea | IGR-opense | | rs1152022 | 0;22;49 |
| cg2286795 | 0.212924 | 0.575635 | 13.21718 | 1.6E-06 | 0.000464 | 5.966021 | 0.469173 | 0.682097 | -0.21292 | 8 | 9274794 | R | II | | IGR | opensea | IGR-opense | | rs5370310 | 35 |
| cg0612819 | 0.202127 | 0.52623 | 13.21693 | 1.6E-06 | 0.000464 | 5.965885 | 0.425167 | 0.627294 | -0.20213 | 5 | 1.68E+08 | F | II | | IGR | opensea | IGR-opense | | rs1145056 | 0;18;19;36;48 |
| cg1339872 | 0.209038 | 0.555847 | 13.2166 | 1.6E-06 | 0.000464 | 5.965707 | 0.451328 | 0.660366 | -0.20904 | 20 | 47405977 | R | II | PREX1 | Body | opensea | Body-opens | | | |
| cg0728277 | 0.230747 | 0.566279 | 13.2124 | 1.6E-06 | 0.000465 | 5.963441 | 0.450906 | 0.681653 | -0.23075 | 10 | 80391121 | R | II | | IGR | opensea | IGR-opense | | rs5763727 | 23;1 |
| cg0076349 | 0.200794 | 0.579682 | 13.20609 | 1.61E-06 | 0.000465 | 5.960034 | 0.479285 | 0.680079 | -0.20079 | 4 | 22714863 | R | II | GBA3 | TSS1500 | opensea | TSS1500-op | | rs2863469 | 29 |
| cg0605760 | 0.202094 | 0.52401 | 13.2046 | 1.61E-06 | 0.000465 | 5.959233 | 0.422963 | 0.625057 | -0.20209 | 11 | 79322178 | R | II | | IGR | opensea | IGR-opense | | rs1775717 | 49;35 |
| cg2666795 | 0.212205 | 0.692367 | 13.20074 | 1.61E-06 | 0.000465 | 5.957143 | 0.586265 | 0.798469 | -0.2122 | 10 | 11362901 | R | II | CELF2-AS1 | Body | opensea | Body-opens | | rs1857024 | 42 |
| cg1237261 | 0.21559 | 0.497574 | 13.2004 | 1.61E-06 | 0.000465 | 5.956963 | 0.389779 | 0.605369 | -0.21559 | 1 | 2.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5493077 | 48;47;44 |
| cg0259309 | 0.22472 | 0.529885 | 13.19869 | 1.61E-06 | 0.000465 | 5.95604 | 0.417526 | 0.642245 | -0.22472 | 1 | 27011393 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0982838 | 0.230236 | 0.569266 | 13.19818 | 1.61E-06 | 0.000465 | 5.955765 | 0.454148 | 0.684384 | -0.23024 | 12 | 63177404 | R | II | PPM1H | Body | opensea | Body-opens | | rs5478263 | 2;1 |
| cg1141199 | 0.25581 | 0.491085 | 13.19067 | 1.62E-06 | 0.000466 | 5.951701 | 0.36318 | 0.61899 | -0.25581 | 10 | 90878257 | F | II | | IGR | opensea | IGR-opense | | rs5370986 | 46 |
| cg1766271 | 0.200427 | 0.534761 | 13.18753 | 1.62E-06 | 0.000466 | 5.950006 | 0.434548 | 0.634975 | -0.20043 | 8 | 24261632 | R | II | ADAMDEC1 | Body | opensea | Body-opens | | rs1380687 | 32;2 |
| cg1867012 | 0.205251 | 0.63405 | 13.18488 | 1.63E-06 | 0.000467 | 5.94857 | 0.531424 | 0.736675 | -0.20525 | 4 | 5865698 | F | II | CRMP1 | Body | opensea | Body-opens | | rs5452239 | 0;8;21 |
| cg1379532 | 0.219386 | 0.446764 | 13.18182 | 1.63E-06 | 0.000467 | 5.946913 | 0.337072 | 0.556457 | -0.21939 | 15 | 71398102 | R | II | | IGR | opensea | IGR-opense | | rs8040775 | 25 |
| cg2650930 | 0.208773 | 0.695836 | 13.18132 | 1.63E-06 | 0.000467 | 5.946646 | 0.59145 | 0.800223 | -0.20877 | 2 | 28083763 | F | II | RBKS | Body | opensea | Body-opens | | rs1416994 | 23 |
| cg2152610 | 0.242716 | 0.499516 | 13.17997 | 1.63E-06 | 0.000467 | 5.945917 | 0.378158 | 0.620874 | -0.24272 | 15 | 32392647 | R | II | CHRNA7 | Body | opensea | Body-opens | | | |
| cg2010263 | 0.253142 | 0.589359 | 13.17585 | 1.63E-06 | 0.000467 | 5.943683 | 0.462788 | 0.71593 | -0.25314 | 4 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs309388 | 40 |
| cg1464559 | 0.214903 | 0.549554 | 13.17129 | 1.64E-06 | 0.000467 | 5.941215 | 0.442103 | 0.657006 | -0.2149 | 8 | 21595402 | F | II | GFRA2 | Body | opensea | Body-opens | | rs5281585 | 50 |
| cg2266899 | 0.221807 | 0.537675 | 13.17006 | 1.64E-06 | 0.000467 | 5.940548 | 0.426772 | 0.648579 | -0.22181 | 3 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | rs5307477 | 1;20 |
| cg0321442 | 0.207961 | 0.590958 | 13.16958 | 1.64E-06 | 0.000467 | 5.940292 | 0.486978 | 0.694939 | -0.20796 | 19 | 44257589 | R | II | C19orf61 | 5'UTR | shore | 5'UTR-shor | chr19:4421 | rs5405488 | 49;15;7 |
| cg1338368 | 0.235923 | 0.599922 | 13.16924 | 1.64E-06 | 0.000467 | 5.940104 | 0.481961 | 0.717884 | -0.23592 | 2 | 1.12E+08 | R | II | LOC400997 | TSS200 | shore | TSS200-shc | chr2:1118 | rs5601839 | 41;7;1 |
| cg1584409 | 0.240816 | 0.594957 | 13.16715 | 1.64E-06 | 0.000467 | 5.938972 | 0.474549 | 0.715365 | -0.24082 | 4 | 1.24E+08 | F | II | IL21 | Body | opensea | Body-opens | | | |
| cg0715138 | 0.256195 | 0.515019 | 13.16701 | 1.64E-06 | 0.000467 | 5.938896 | 0.386921 | 0.643117 | -0.2562 | 5 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5715783 | 40 |
| cg0178546 | 0.212833 | 0.545458 | 13.16664 | 1.64E-06 | 0.000467 | 5.938696 | 0.439041 | 0.651874 | -0.21283 | 2 | 40066183 | R | II | | IGR | opensea | IGR-opense | | rs5451667 | 33;28;19;8;6 |
| cg0664565 | 0.262226 | 0.591399 | 13.16564 | 1.64E-06 | 0.000467 | 5.938154 | 0.460287 | 0.722512 | -0.26223 | 2 | 1.53E+08 | F | II | CACNB4 | Body | opensea | Body-opens | | rs1488132 | 0;1;30;36;43;51 |
| cg1353759 | 0.293762 | 0.574349 | 13.16323 | 1.65E-06 | 0.000467 | 5.936849 | 0.427467 | 0.72123 | -0.29376 | 12 | 26451968 | R | II | | IGR | opensea | IGR-opense | | rs5385523 | 48;1 |
| cg0852998 | 0.218223 | 0.569089 | 13.16259 | 1.65E-06 | 0.000467 | 5.936499 | 0.459978 | 0.678201 | -0.21822 | 14 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1620640 | 0.209045 | 0.458491 | 13.15605 | 1.65E-06 | 0.000469 | 5.932954 | 0.353969 | 0.563013 | -0.20904 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs1879432 | 18;23 |
| cg0624256 | 0.226458 | 0.523543 | 13.15171 | 1.66E-06 | 0.000469 | 5.930602 | 0.410314 | 0.636772 | -0.22646 | 2 | 2.25E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0148521 | 0.256761 | 0.545865 | 13.1502 | 1.66E-06 | 0.000469 | 5.929779 | 0.417484 | 0.674245 | -0.25676 | 10 | 93557062 | F | II | TNKS2 | TSS1500 | shore | TSS1500-sh | chr10:9355 | rs5538520 | 13;50 |
| cg0123544 | 0.209004 | 0.590351 | 13.14988 | 1.66E-06 | 0.000469 | 5.929609 | 0.485849 | 0.694853 | -0.209 | 14 | 51940896 | R | II | FRMD6-AS2 | Body | opensea | Body-opens | | rs5760060 | 2 |
| cg0470047 | 0.208309 | 0.524597 | 13.14958 | 1.66E-06 | 0.000469 | 5.929442 | 0.420442 | 0.628751 | -0.20831 | 6 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs6933588 | 43;31 |
| cg0224029 | 0.237101 | 0.541064 | 13.14401 | 1.66E-06 | 0.000469 | 5.926422 | 0.422513 | 0.659615 | -0.2371 | 17 | 59883075 | R | II | BRIP1 | Body | opensea | Body-opens | | | |
| cg0456751 | 0.247448 | 0.665088 | 13.14009 | 1.67E-06 | 0.000469 | 5.924292 | 0.541364 | 0.788812 | -0.24745 | 5 | 71035990 | R | II | | IGR | opensea | IGR-opense | | rs1424137 | 45;3 |
| cg2388037 | 0.202813 | 0.470919 | 13.13988 | 1.67E-06 | 0.000469 | 5.924176 | 0.369513 | 0.572326 | -0.20281 | 10 | 1.24E+08 | R | II | BTBD16 | Body | opensea | Body-opens | | rs1894388 | 6;2 |
| cg0115580 | 0.201546 | 0.500145 | 13.13877 | 1.67E-06 | 0.000469 | 5.923576 | 0.399372 | 0.600918 | -0.20155 | 6 | 54905378 | F | II | | IGR | opensea | IGR-opense | | rs1386069 | 1;24;38;49 |
| cg2632726 | 0.25353 | 0.630583 | 13.1376 | 1.67E-06 | 0.000469 | 5.92294 | 0.503818 | 0.757348 | -0.25353 | 15 | 48710196 | F | II | FBN1 | Body | opensea | Body-opens | | rs1430775 | 0;3;14;16 |
| cg2523733 | 0.245655 | 0.570295 | 13.13708 | 1.67E-06 | 0.000469 | 5.922657 | 0.447467 | 0.693123 | -0.24566 | 6 | 17993827 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0062729 | 0.231037 | 0.601532 | 13.13642 | 1.67E-06 | 0.000469 | 5.922302 | 0.486013 | 0.71705 | -0.23104 | 14 | 1.01E+08 | F | II | SNHG24 | Body | opensea | Body-opens | | rs5551177 | 0;32;35 |
| cg1300849 | 0.261347 | 0.553884 | 13.13606 | 1.67E-06 | 0.000469 | 5.922101 | 0.42321 | 0.684558 | -0.26135 | 3 | 1.19E+08 | R | II | POPDC2 | Body | opensea | Body-opens | | rs5292043 | 2 |
| cg0437394 | 0.221709 | 0.503086 | 13.13503 | 1.67E-06 | 0.000469 | 5.921546 | 0.392232 | 0.61394 | -0.22171 | 12 | 90806795 | F | II | | IGR | opensea | IGR-opense | | rs5704448 | 1;3;45 |
| cg0845203 | 0.256826 | 0.51763 | 13.13282 | 1.67E-06 | 0.00047 | 5.920343 | 0.389217 | 0.646043 | -0.25683 | 22 | 28426107 | F | II | TTC28 | Body | opensea | Body-opens | | rs5692076 | 1;21 |
| cg2632586 | 0.206802 | 0.454092 | 13.12861 | 1.68E-06 | 0.00047 | 5.918056 | 0.350691 | 0.557493 | -0.2068 | 6 | 41398693 | F | II | | IGR | shelf | IGR-shelf | chr6:4139 | rs1121964 | 9;41;49 |
| cg1366330 | 0.227175 | 0.593321 | 13.12494 | 1.68E-06 | 0.00047 | 5.916057 | 0.479734 | 0.706909 | -0.22718 | 5 | 35046992 | F | II | AGXT2 | Body | opensea | Body-opens | | rs5414041 | 38 |
| cg2288665 | 0.232614 | 0.472224 | 13.12042 | 1.69E-06 | 0.00047 | 5.913602 | 0.355917 | 0.588531 | -0.23261 | 6 | 498807 | R | II | EXOC2 | Body | opensea | Body-opens | | rs5451429 | 1 |
| cg0468358 | 0.208558 | 0.458537 | 13.11638 | 1.69E-06 | 0.00047 | 5.911401 | 0.354258 | 0.562816 | -0.20856 | 9 | 37679969 | R | II | FRMPD1 | 5'UTR | opensea | 5'UTR-open | | rs5490864 | 46;10 |
| cg2423852 | 0.205404 | 0.444209 | 13.11391 | 1.69E-06 | 0.00047 | 5.910056 | 0.341507 | 0.546911 | -0.2054 | 6 | 56597743 | F | II | RNU6-71P | Body | opensea | Body-opens | | rs5694198 | 0 |
| cg2359805 | 0.210233 | 0.495485 | 13.1125 | 1.69E-06 | 0.00047 | 5.909289 | 0.390368 | 0.600602 | -0.21023 | 4 | 1.77E+08 | R | II | SPCS3 | Body | shore | Body-shore | chr4:1772 | rs1394977 | 8 |
| cg0479413 | 0.2048 | 0.585462 | 13.10816 | 1.7E-06 | 0.00047 | 5.906926 | 0.483062 | 0.687862 | -0.2048 | 18 | 60750880 | F | II | | IGR | opensea | IGR-opense | | rs5434339 | 27;42;45;49 |
| cg0008981 | 0.200592 | 0.61749 | 13.10708 | 1.7E-06 | 0.00047 | 5.906339 | 0.517194 | 0.717786 | -0.20059 | 3 | 72641008 | R | II | | IGR | opensea | IGR-opense | | rs5618881 | 16;2;1 |
| cg0298611 | 0.210025 | 0.473605 | 13.10597 | 1.7E-06 | 0.00047 | 5.905731 | 0.368593 | 0.578618 | -0.21002 | 15 | 59785759 | R | II | FAM81A | Body | opensea | Body-opens | | rs7600966 | 51;11 |
| cg1159152 | 0.209391 | 0.528606 | 13.10492 | 1.7E-06 | 0.00047 | 5.905162 | 0.42391 | 0.633301 | -0.20939 | 4 | 1.24E+08 | F | II | IL21 | TSS200 | opensea | TSS200-ope | | rs1462051 | 43 |
| cg1121459 | 0.220347 | 0.611341 | 13.10305 | 1.7E-06 | 0.00047 | 5.904144 | 0.501168 | 0.721515 | -0.22035 | 5 | 28287931 | F | II | | IGR | opensea | IGR-opense | | rs5466210 | 5;6;27 |
| cg1551810 | 0.203245 | 0.459164 | 13.10062 | 1.7E-06 | 0.00047 | 5.902814 | 0.357542 | 0.560786 | -0.20324 | 3 | 53836983 | R | II | CACNA1D | Body | opensea | Body-opens | | rs2359132 | 48;32;2 |
| cg2315923 | 0.206161 | 0.685151 | 13.09962 | 1.71E-06 | 0.00047 | 5.902271 | 0.58207 | 0.788231 | -0.20616 | 22 | 46571660 | F | II | PPARA | 5'UTR | opensea | 5'UTR-open | | rs5535064 | 8;36 |
| cg1822709 | 0.232119 | 0.527381 | 13.09953 | 1.71E-06 | 0.00047 | 5.902223 | 0.411322 | 0.643441 | -0.23212 | 18 | 36854676 | R | II | LINC00669 | Body | opensea | Body-opens | | rs5333694 | 47;36;18;14;8 |
| cg0144088 | 0.240364 | 0.481379 | 13.09386 | 1.71E-06 | 0.00047 | 5.899133 | 0.361197 | 0.601561 | -0.24036 | 16 | 54169984 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1424183 | 0.228446 | 0.57084 | 13.09376 | 1.71E-06 | 0.00047 | 5.899076 | 0.456617 | 0.685063 | -0.22845 | 7 | 48124921 | R | II | | IGR | shelf | IGR-shelf | chr7:4812 | rs5325277 | 1 |
| cg2553185 | 0.205215 | 0.438954 | 13.09289 | 1.71E-06 | 0.00047 | 5.898603 | 0.336346 | 0.541561 | -0.20522 | 20 | 47897451 | F | II | C20orf199 | Body | shelf | Body-shelf | chr20:4785 | rs1393377 | 0;15;35 |
| cg0437525 | 0.246493 | 0.395163 | 13.09128 | 1.71E-06 | 0.00047 | 5.897723 | 0.271916 | 0.518409 | -0.24649 | 5 | 66241308 | F | II | MAST4 | Body | opensea | Body-opens | | rs1150686 | 0;23;42 |
| cg1285706 | 0.203694 | 0.531876 | 13.09042 | 1.71E-06 | 0.00047 | 5.897252 | 0.43003 | 0.633723 | -0.20369 | 8 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5779529 | 0;27 |
| cg2632961 | 0.209371 | 0.491653 | 13.08892 | 1.72E-06 | 0.00047 | 5.896435 | 0.386968 | 0.596339 | -0.20937 | 5 | 36302704 | F | II | RANBP3L | TSS1500 | opensea | TSS1500-op | | rs5647919 | 7 |
| cg2482429 | 0.201428 | 0.479518 | 13.08678 | 1.72E-06 | 0.00047 | 5.895266 | 0.378804 | 0.580232 | -0.20143 | 8 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5444816 | 15;2 |
| cg2358540 | 0.244755 | 0.641538 | 13.08636 | 1.72E-06 | 0.00047 | 5.895037 | 0.51916 | 0.763916 | -0.24476 | 2 | 38243638 | R | II | RMDN2 | Body | opensea | Body-opens | | rs5293081 | 47;40;1 |
| cg1358082 | 0.210138 | 0.547329 | 13.08582 | 1.72E-06 | 0.00047 | 5.894745 | 0.44226 | 0.652398 | -0.21014 | 9 | 72081155 | F | II | APBA1 | Body | opensea | Body-opens | | | |
| cg0864299 | 0.206148 | 0.510547 | 13.08293 | 1.72E-06 | 0.00047 | 5.893166 | 0.407473 | 0.613621 | -0.20615 | 2 | 66914032 | R | II | LOC100507 | Body | opensea | Body-opens | | rs1762856 | 10;2;1 |
| cg0240107 | 0.217012 | 0.444112 | 13.0819 | 1.72E-06 | 0.00047 | 5.892605 | 0.335606 | 0.552618 | -0.21701 | 10 | 49660642 | F | II | ARHGAP22 | Body | shore | Body-shore | chr10:4961 | rs1511527 | 0;1 |
| cg0672513 | 0.222315 | 0.526612 | 13.08007 | 1.72E-06 | 0.00047 | 5.891606 | 0.415454 | 0.63777 | -0.22232 | 21 | 36044374 | F | II | CLIC6 | Body | shore | Body-shore | chr21:360 | | |
| cg0570272 | 0.229814 | 0.475198 | 13.07721 | 1.73E-06 | 0.00047 | 5.890043 | 0.360291 | 0.590105 | -0.22981 | 4 | 1.12E+08 | R | II | PITX2 | TSS1500 | shelf | TSS1500-sh | chr4:1115 | rs5411311 | 29;1 |
| cg1312395 | 0.206389 | 0.543121 | 13.07637 | 1.73E-06 | 0.00047 | 5.889583 | 0.439927 | 0.646316 | -0.20639 | 2 | 2.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5386987 | 32;46 |
| cg0703339 | 0.223016 | 0.57526 | 13.0748 | 1.73E-06 | 0.00047 | 5.888729 | 0.463752 | 0.686769 | -0.22302 | 1 | 28906538 | R | II | SNHG12 | Body | shore | Body-shore | chr1:2890 | rs1926234 | 2 |
| cg0399333 | 0.254496 | 0.52509 | 13.07475 | 1.73E-06 | 0.00047 | 5.8887 | 0.397842 | 0.652338 | -0.2545 | 16 | 24863047 | R | II | SLC5A11 | 5'UTR | opensea | 5'UTR-open | | rs1178622 | 2 |
| cg2668918 | 0.228235 | 0.568013 | 13.07399 | 1.73E-06 | 0.00047 | 5.888286 | 0.453895 | 0.68213 | -0.22824 | 7 | 33301429 | F | II | BBS9 | Body | opensea | Body-opens | | rs1830557 | 35 |
| cg2763394 | 0.200467 | 0.61903 | 13.07077 | 1.73E-06 | 0.000471 | 5.886524 | 0.518797 | 0.719263 | -0.20047 | 2 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5343530 | 40 |
| cg0173130 | 0.207141 | 0.448685 | 13.07009 | 1.73E-06 | 0.000471 | 5.886152 | 0.345115 | 0.552256 | -0.20714 | 9 | 85164256 | F | II | | IGR | opensea | IGR-opense | | rs1135072 | 0;5;30 |
| cg0076122 | 0.224933 | 0.566822 | 13.06573 | 1.74E-06 | 0.000471 | 5.883769 | 0.454356 | 0.679289 | -0.22493 | 13 | 25851201 | R | II | MTMR6 | Body | opensea | Body-opens | | rs1461722 | 38;19 |
| cg1095514 | 0.224813 | 0.423749 | 13.06461 | 1.74E-06 | 0.000471 | 5.88316 | 0.311342 | 0.536155 | -0.22481 | 4 | 90790505 | R | II | | IGR | opensea | IGR-opense | | rs1916283 | 24 |
| cg0218696 | 0.22196 | 0.574524 | 13.06398 | 1.74E-06 | 0.000471 | 5.882815 | 0.463544 | 0.685504 | -0.22196 | 14 | 68996759 | F | II | RAD51B | Body | opensea | Body-opens | | rs1909867 | 0 |
| cg1386103 | 0.258312 | 0.497421 | 13.06388 | 1.74E-06 | 0.000471 | 5.882758 | 0.368265 | 0.626576 | -0.25831 | 11 | 5385322 | R | II | OR51B5 | Body | opensea | Body-opens | | rs1846079 | 49;32 |
| cg0118993 | 0.256439 | 0.60871 | 13.06376 | 1.74E-06 | 0.000471 | 5.882694 | 0.48049 | 0.736929 | -0.25644 | 13 | 43385958 | R | II | LINC01050 | ExonBnd | opensea | ExonBnd-op | | rs1919289 | 45;24;1 |
| cg2671274 | 0.209945 | 0.393188 | 13.06154 | 1.74E-06 | 0.000471 | 5.881481 | 0.288215 | 0.498161 | -0.20995 | 10 | 1E+08 | F | II | PYROXD2 | Body | opensea | Body-opens | | rs1844302 | 0;19 |
| cg2632895 | 0.218188 | 0.484732 | 13.05891 | 1.74E-06 | 0.000471 | 5.88004 | 0.375638 | 0.593826 | -0.21819 | 1 | 28906514 | R | II | SNHG12 | Body | shore | Body-shore | chr1:2890 | | |
| cg1919076 | 0.201292 | 0.508917 | 13.05671 | 1.75E-06 | 0.000471 | 5.878834 | 0.408271 | 0.609562 | -0.20129 | 13 | 44806055 | R | II | | IGR | opensea | IGR-opense | | rs5654910 | 2 |
| cg1488340 | 0.239253 | 0.479845 | 13.05399 | 1.75E-06 | 0.000471 | 5.877345 | 0.360218 | 0.599471 | -0.23925 | 4 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1459529 | 0.208725 | 0.441108 | 13.05077 | 1.75E-06 | 0.000472 | 5.875583 | 0.336745 | 0.545471 | -0.20873 | 11 | 35993855 | F | II | LDLRAD3 | 5'UTR | opensea | 5'UTR-open | | rs5563810 | 13;42 |
| cg1516049 | 0.222486 | 0.576604 | 13.04956 | 1.75E-06 | 0.000472 | 5.874923 | 0.465361 | 0.687847 | -0.22249 | 1 | 68346041 | R | II | GNG12-AS1 | Body | opensea | Body-opens | | rs5639797 | 42;10;2;1 |
| cg1190240 | 0.207956 | 0.57302 | 13.04677 | 1.76E-06 | 0.000472 | 5.873396 | 0.469042 | 0.676998 | -0.20796 | 3 | 14859299 | F | II | FGD5 | TSS1500 | opensea | TSS1500-op | | rs1925837 | 1;19;26 |
| cg0815404 | 0.243971 | 0.482986 | 13.04464 | 1.76E-06 | 0.000472 | 5.872226 | 0.361 | 0.604971 | -0.24397 | 7 | 1.05E+08 | F | II | ATXN7L1 | Body | opensea | Body-opens | | rs5725654 | 41 |
| cg1648675 | 0.231281 | 0.664558 | 13.03905 | 1.76E-06 | 0.000472 | 5.869162 | 0.548917 | 0.780198 | -0.23128 | 7 | 5624786 | R | II | | IGR | opensea | IGR-opense | | rs5480984 | 36;17;8;1 |
| cg1348046 | 0.249672 | 0.503531 | 13.02261 | 1.78E-06 | 0.000474 | 5.860147 | 0.378695 | 0.628366 | -0.24967 | 4 | 16795757 | F | II | LDB2 | Body | opensea | Body-opens | | rs5746426 | 0;5;11 |
| cg1389638 | 0.218089 | 0.506271 | 13.02096 | 1.78E-06 | 0.000474 | 5.859242 | 0.397227 | 0.615316 | -0.21809 | 11 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754021 | 42;28 |
| cg2310304 | 0.211417 | 0.541875 | 13.0152 | 1.79E-06 | 0.000475 | 5.856078 | 0.436167 | 0.647584 | -0.21142 | 17 | 69646723 | F | II | | IGR | opensea | IGR-opense | | rs1864745 | 35;41;45 |
| cg2724441 | 0.216254 | 0.593374 | 13.00384 | 1.8E-06 | 0.000477 | 5.849838 | 0.485247 | 0.701501 | -0.21625 | 10 | 78045133 | F | II | C10orf11 | Body | opensea | Body-opens | | rs5629782 | 0;42 |
| cg2519123 | 0.219879 | 0.410308 | 13.0036 | 1.8E-06 | 0.000477 | 5.849704 | 0.300368 | 0.520248 | -0.21988 | 12 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | rs1861873 | 51;38;1 |
| cg0414523 | 0.202653 | 0.489551 | 13.00353 | 1.8E-06 | 0.000477 | 5.849667 | 0.388224 | 0.590878 | -0.20265 | 13 | 98854715 | R | II | FARP1 | 5'UTR | opensea | 5'UTR-open | | rs5295191 | 29 |
| cg1494508 | 0.220671 | 0.493801 | 12.9957 | 1.81E-06 | 0.000477 | 5.845357 | 0.383465 | 0.604136 | -0.22067 | 18 | 2657780 | R | II | SMCHD1 | Body | shore | Body-shore | chr18:265 | rs5403109 | 49;26;16 |
| cg0950695 | 0.202229 | 0.65852 | 12.99379 | 1.81E-06 | 0.000477 | 5.844309 | 0.557405 | 0.759634 | -0.20223 | 19 | 13841688 | R | II | | IGR | opensea | IGR-opense | | rs1480241 | 49;5 |
| cg0072278 | 0.231921 | 0.603041 | 12.99276 | 1.81E-06 | 0.000477 | 5.843741 | 0.48708 | 0.719001 | -0.23192 | 6 | 22008819 | R | II | CASC15 | Body | opensea | Body-opens | | rs1878181 | 1 |
| cg2310201 | 0.207236 | 0.399099 | 12.99271 | 1.81E-06 | 0.000477 | 5.843712 | 0.295481 | 0.502717 | -0.20724 | 15 | 70574295 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2390210 | 0.249144 | 0.544153 | 12.99233 | 1.81E-06 | 0.000477 | 5.843505 | 0.419581 | 0.668725 | -0.24914 | 6 | 22009091 | F | II | FLJ22536 | Body | opensea | Body-opens | | rs5421717 | 1;19 |
| cg0549381 | 0.200938 | 0.528081 | 12.98945 | 1.81E-06 | 0.000477 | 5.841919 | 0.427612 | 0.62855 | -0.20094 | 21 | 47157612 | R | II | | IGR | opensea | IGR-opense | | rs1901306 | 25 |
| cg1757201 | 0.229211 | 0.625104 | 12.98916 | 1.81E-06 | 0.000477 | 5.841759 | 0.510498 | 0.739709 | -0.22921 | 5 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs5345037 | 0;42 |
| cg0081273 | 0.206787 | 0.438292 | 12.98727 | 1.82E-06 | 0.000477 | 5.840719 | 0.334899 | 0.541686 | -0.20679 | 4 | 77679152 | R | II | SHROOM3 | Body | opensea | Body-opens | | rs5586544 | 36 |
| cg1507068 | 0.205975 | 0.52398 | 12.98582 | 1.82E-06 | 0.000477 | 5.839918 | 0.420993 | 0.626968 | -0.20597 | 4 | 83209071 | R | II | | IGR | shelf | IGR-shelf | chr4:8320 | rs5337055 | 51;3 |
| cg1725171 | 0.218538 | 0.427875 | 12.98189 | 1.82E-06 | 0.000477 | 5.837754 | 0.318606 | 0.537144 | -0.21854 | 18 | 61443038 | F | II | SERPINB7 | 5'UTR | opensea | 5'UTR-open | | rs1905693 | 0;45 |
| cg2299294 | 0.2056 | 0.480644 | 12.97997 | 1.82E-06 | 0.000477 | 5.836698 | 0.377844 | 0.583444 | -0.2056 | 8 | 30354402 | R | II | RBPMS | Body | opensea | Body-opens | | rs1762796 | 28;26;16;2 |
| cg2548125 | 0.265004 | 0.496963 | 12.9791 | 1.82E-06 | 0.000477 | 5.836218 | 0.36446 | 0.629465 | -0.265 | 7 | 1.42E+08 | F | II | TAS2R38 | 1stExon | opensea | 1stExon-op | | rs1411968 | 0;1;13;14 |
| cg1179840 | 0.247969 | 0.574099 | 12.97259 | 1.83E-06 | 0.000477 | 5.832632 | 0.450114 | 0.698083 | -0.24797 | 21 | 40145361 | R | II | NCRNA001 | Body | opensea | Body-opens | | rs5352195 | 15 |
| cg0186125 | 0.210218 | 0.525493 | 12.96965 | 1.83E-06 | 0.000477 | 5.831011 | 0.420383 | 0.630602 | -0.21022 | 2 | 2.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs5717819 | 47 |
| cg0539294 | 0.256067 | 0.560231 | 12.9673 | 1.84E-06 | 0.000478 | 5.82971 | 0.432197 | 0.688264 | -0.25607 | 13 | 77091333 | R | II | | IGR | opensea | IGR-opense | | rs1905198 | 46;44;38;2 |
| cg2718340 | 0.224288 | 0.398669 | 12.9648 | 1.84E-06 | 0.000478 | 5.82833 | 0.286525 | 0.510813 | -0.22429 | 18 | 47315112 | R | II | ACAA2 | Body | opensea | Body-opens | | | |
| cg1184878 | 0.218999 | 0.535982 | 12.9628 | 1.84E-06 | 0.000478 | 5.827232 | 0.426482 | 0.645481 | -0.219 | 1 | 39041399 | F | II | | IGR | shelf | IGR-shelf | chr1:3904 | rs5455271 | 7 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1549361 | 0.239108 | 0.524258 | 12.96183 | 1.84E-06 | 0.000478 | 5.826694 | 0.404704 | 0.643812 | -0.23911 | 3 | 1.43E+08 | F | II | SLC9A9 | Body | opensea | Body-opens | rs5545630 | 37 | | | | |
| cg1922816 | 0.218099 | 0.51009 | 12.96116 | 1.84E-06 | 0.000478 | 5.826327 | 0.401041 | 0.61914 | -0.2181 | 12 | 13100222 | R | II | GPRC5D | Body | opensea | Body-opens | rs1410230 | 4;1 | | | | |
| cg1288198 | 0.24168 | 0.542342 | 12.96084 | 1.84E-06 | 0.000478 | 5.82615 | 0.421502 | 0.663183 | -0.24168 | 4 | 13915406 | F | II | LINC01182 | Body | opensea | Body-opens | rs1858916 | 27 | | | | |
| cg1466071 | 0.208761 | 0.768743 | 12.95913 | 1.85E-06 | 0.000478 | 5.825204 | 0.664362 | 0.873123 | -0.20876 | 18 | 42217877 | F | II | | IGR | opensea | IGR-opense | rs5329342 | 0 | | | | |
| cg0331707 | 0.226334 | 0.587995 | 12.95786 | 1.85E-06 | 0.000478 | 5.824502 | 0.474828 | 0.701162 | -0.22633 | 4 | 80928989 | F | II | ANTXR2 | Body | opensea | Body-opens | rs5327060 | 0;3;7;48 | | | | |
| cg1613368 | 0.242156 | 0.52457 | 12.95333 | 1.85E-06 | 0.000479 | 5.822003 | 0.403492 | 0.645648 | -0.24216 | 9 | 79039563 | R | II | | IGR | opensea | IGR-opense | rs5675232 | 2 | | | | |
| cg1628628 | 0.20596 | 0.483051 | 12.95308 | 1.85E-06 | 0.000479 | 5.821863 | 0.380071 | 0.586031 | -0.20596 | 5 | 1.24E+08 | R | II | ZNF608 | Body | opensea | Body-opens | | | | | | |
| cg0761049 | 0.21794 | 0.439644 | 12.94465 | 1.86E-06 | 0.00048 | 5.817206 | 0.330674 | 0.548614 | -0.21794 | 10 | 6312774 | R | II | | IGR | opensea | IGR-opense | rs7972136 | 45;36;20;1 | | | | |
| cg0602410 | 0.245751 | 0.467432 | 12.94386 | 1.86E-06 | 0.00048 | 5.816768 | 0.344557 | 0.590308 | -0.24575 | 1 | 1.54E+08 | F | II | SNAPIN | TSS1500 | shore | TSS1500-sh | chr1:15363 | | | | | |
| cg1939081 | 0.209927 | 0.570623 | 12.94312 | 1.86E-06 | 0.00048 | 5.816361 | 0.46566 | 0.675587 | -0.20993 | 10 | 71001680 | R | II | HKDC1 | Body | opensea | Body-opens | rs5590203 | 1 | | | | |
| cg2058787 | 0.218069 | 0.434559 | 12.9414 | 1.86E-06 | 0.00048 | 5.815408 | 0.325525 | 0.543593 | -0.21807 | 2 | 1.79E+08 | F | II | MIR548N | Body | opensea | Body-opens | rs5776743 | 0;7 | | | | |
| cg0832127 | 0.22538 | 0.571813 | 12.93865 | 1.87E-06 | 0.00048 | 5.81389 | 0.459122 | 0.684503 | -0.22538 | 6 | 89928426 | F | II | GABRR1 | TSS1500 | opensea | TSS1500-op | rs1420232 | 0 | | | | |
| cg2410884 | 0.205189 | 0.553673 | 12.93737 | 1.87E-06 | 0.00048 | 5.813178 | 0.451079 | 0.656268 | -0.20519 | 20 | 39651831 | R | II | | IGR | opensea | IGR-opense | rs5452803 | 37;19 | | | | |
| cg0032537 | 0.210341 | 0.509174 | 12.93422 | 1.87E-06 | 0.000481 | 5.811436 | 0.404003 | 0.614344 | -0.21034 | 5 | 56797893 | R | II | | IGR | opensea | IGR-opense | rs5696474 | 42 | | | | |
| cg0065993 | 0.208439 | 0.628464 | 12.93016 | 1.88E-06 | 0.000481 | 5.809193 | 0.524244 | 0.732683 | -0.20844 | 15 | 1.02E+08 | R | II | PCSK6 | Body | opensea | Body-opens | rs1391393 | 26;1 | | | | |
| cg0003321 | 0.215481 | 0.50553 | 12.92778 | 1.88E-06 | 0.000481 | 5.807874 | 0.397789 | 0.61327 | -0.21548 | 10 | 7773345 | R | II | ITIH2 | Body | opensea | Body-opens | rs5408954 | 24 | | | | |
| cg1864660 | 0.213849 | 0.521446 | 12.92299 | 1.88E-06 | 0.000481 | 5.805219 | 0.414521 | 0.62837 | -0.21385 | 6 | 1.47E+08 | R | II | STXBP5-AS1 | Body | opensea | Body-opens | rs1810092 | 48;31;23;1 | | | | |
| cg0916880 | 0.217555 | 0.47123 | 12.92196 | 1.88E-06 | 0.000482 | 5.804649 | 0.362452 | 0.580007 | -0.21755 | 8 | 97056373 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1966979 | 0.211774 | 0.5414 | 12.92131 | 1.89E-06 | 0.000482 | 5.80429 | 0.435513 | 0.647287 | -0.21177 | 1 | 57154147 | F | II | PRKAA2 | Body | opensea | Body-opens | | | | | | |
| cg2478404 | 0.235323 | 0.410989 | 12.9191 | 1.89E-06 | 0.000482 | 5.803064 | 0.293327 | 0.52865 | -0.23532 | 3 | 33034475 | F | II | | IGR | opensea | IGR-opense | rs5465351 | 1;4;25;36;49 | | | | |
| cg1033807 | 0.213417 | 0.685461 | 12.91818 | 1.89E-06 | 0.000482 | 5.802555 | 0.578753 | 0.79217 | -0.21342 | 11 | 63302736 | F | II | | IGR | opensea | IGR-opense | rs1828207 | 12;22 | | | | |
| cg1267518 | 0.21721 | 0.449257 | 12.90732 | 1.9E-06 | 0.000484 | 5.796537 | 0.340652 | 0.557861 | -0.21721 | 11 | 1.33E+08 | F | II | OPCML | Body | opensea | Body-opens | rs3733347 | 3;32 | | | | |
| cg1952637 | 0.205856 | 0.510294 | 12.90542 | 1.9E-06 | 0.000484 | 5.795485 | 0.407365 | 0.613222 | -0.20586 | 21 | 31130470 | R | II | GRIK1-AS1 | Body | opensea | Body-opens | rs1395360 | 41;1 | | | | |
| cg0613436 | 0.273228 | 0.634025 | 12.89857 | 1.91E-06 | 0.000484 | 5.791679 | 0.497411 | 0.770639 | -0.27323 | 3 | 1.25E+08 | F | II | SLC12A8 | Body | opensea | Body-opens | rs5506197 | 1;5;13;48 | | | | |
| cg1166730 | 0.212589 | 0.610015 | 12.89703 | 1.91E-06 | 0.000484 | 5.790825 | 0.503721 | 0.716309 | -0.21259 | 2 | 2.03E+08 | R | II | SNORD70 | Body | opensea | Body-opens | rs2014848 | 42;36;27;22;20;2;1 | | | | |
| cg0886490 | 0.201777 | 0.501747 | 12.89614 | 1.91E-06 | 0.000484 | 5.790333 | 0.400859 | 0.602635 | -0.20178 | 8 | 79472625 | R | II | PKIA | 5'UTR | opensea | 5'UTR-open | rs5754158 | 25;2 | | | | |
| cg0040453 | 0.249452 | 0.531449 | 12.8942 | 1.91E-06 | 0.000484 | 5.789254 | 0.406723 | 0.656175 | -0.24945 | 20 | 8702075 | F | II | PLCB1 | Body | opensea | Body-opens | rs5583118 | 27;28;40;48 | | | | |
| cg1716401 | 0.212203 | 0.498534 | 12.89226 | 1.92E-06 | 0.000484 | 5.788177 | 0.392433 | 0.604636 | -0.2122 | 8 | 1.11E+08 | F | II | | IGR | shelf | IGR-shelf | chr8:11109 | rs56244410 | 0 | | | |
| cg0847771 | 0.227683 | 0.548608 | 12.89197 | 1.92E-06 | 0.000484 | 5.788015 | 0.434767 | 0.66245 | -0.22768 | 17 | 41671170 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1730289 | 0.20974 | 0.513509 | 12.89037 | 1.92E-06 | 0.000484 | 5.78713 | 0.408639 | 0.618379 | -0.20974 | 5 | 1.5E+08 | F | II | | IGR | shelf | IGR-shelf | chr5:14954 | rs54785201 | 42 | | | |
| cg1894088 | 0.235842 | 0.478769 | 12.8885 | 1.92E-06 | 0.000484 | 5.786092 | 0.360848 | 0.59669 | -0.23584 | 8 | 62800933 | R | II | | IGR | opensea | IGR-opense | rs5393993 | 42;41;25 | | | | |
| cg1454301 | 0.20465 | 0.386229 | 12.88698 | 1.92E-06 | 0.000484 | 5.785247 | 0.283904 | 0.488554 | -0.20465 | 20 | 44573011 | R | II | PCIF1 | Body | shore | Body-shore | chr20:4457 | rs54912274 | 44;17;1 | | | | |
| cg0235836 | 0.233067 | 0.538027 | 12.88564 | 1.92E-06 | 0.000485 | 5.784502 | 0.421493 | 0.654561 | -0.23307 | 5 | 1.72E+08 | R | II | NEURL1B | Body | shore | Body-shore | chr5:17205 | rs1444149 | 9 | | | |
| cg0587810 | 0.201965 | 0.518442 | 12.88357 | 1.93E-06 | 0.000485 | 5.783352 | 0.41746 | 0.619425 | -0.20196 | 13 | 63057588 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0789872 | 0.26033 | 0.514476 | 12.88241 | 1.93E-06 | 0.000485 | 5.782707 | 0.384311 | 0.644641 | -0.26033 | 5 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | rs5609340 | 14;2;1 | | | | |
| cg1269377 | 0.213554 | 0.541791 | 12.8759 | 1.93E-06 | 0.000485 | 5.779086 | 0.435014 | 0.648567 | -0.21355 | 7 | 20572677 | R | II | | IGR | opensea | IGR-opense | rs1841477 | 23;13 | | | | |
| cg1749995 | 0.267745 | 0.486775 | 12.87091 | 1.94E-06 | 0.000486 | 5.776308 | 0.352903 | 0.620648 | -0.26775 | 12 | 40562179 | F | II | | IGR | opensea | IGR-opense | rs5725517 | 0;15;39 | | | | |
| cg2603683 | 0.224672 | 0.611911 | 12.86786 | 1.94E-06 | 0.000486 | 5.77461 | 0.499574 | 0.724247 | -0.22467 | 10 | 13723418 | F | II | FRMD4A | Body | opensea | Body-opens | rs1414371 | 0 | | | | |
| cg1596509 | 0.211407 | 0.410702 | 12.86785 | 1.94E-06 | 0.000486 | 5.774608 | 0.304998 | 0.516406 | -0.21141 | 9 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | rs7435796 | 1;42;48 | | | | |
| cg0931965 | 0.200965 | 0.588373 | 12.86727 | 1.94E-06 | 0.000486 | 5.774282 | 0.48789 | 0.688855 | -0.20096 | 1 | 2.05E+08 | R | II | KLHDC8A | 5'UTR | shelf | 5'UTR-shelf | chr1:2053 | rs5551829 | 36;10;2 | | | |
| cg1157642 | 0.226738 | 0.40592 | 12.86343 | 1.95E-06 | 0.000486 | 5.772145 | 0.292552 | 0.519289 | -0.22674 | 5 | 1.32E+08 | F | II | C5orf56 | 5'UTR | shelf | 5'UTR-shelf | chr5:13174 | | | | | |
| cg1239967 | 0.220313 | 0.684078 | 12.86234 | 1.95E-06 | 0.000487 | 5.771541 | 0.573921 | 0.794234 | -0.22031 | 2 | 2.09E+08 | R | II | | IGR | opensea | IGR-opense | rs1828354 | 40;18;8 | | | | |
| cg1870074 | 0.276513 | 0.402938 | 12.84924 | 1.96E-06 | 0.000488 | 5.764241 | 0.264682 | 0.541195 | -0.27651 | 12 | 1.13E+08 | R | II | NAA25 | Body | opensea | Body-opens | | | | | | |
| cg0690695 | 0.255217 | 0.549925 | 12.84828 | 1.97E-06 | 0.000488 | 5.763703 | 0.422317 | 0.677534 | -0.25522 | 5 | 71614854 | R | II | PTCD2 | TSS1500 | shore | TSS1500-sh | chr5:7161( | rs56696376 | 6 | | | |
| cg2460449 | 0.201462 | 0.569444 | 12.84782 | 1.97E-06 | 0.000488 | 5.76345 | 0.468713 | 0.670175 | -0.20146 | 3 | 31752002 | F | II | OSBPL10-A | Body | opensea | Body-opens | rs5316077 | 35 | | | | |
| cg1159481 | 0.256056 | 0.509773 | 12.84324 | 1.97E-06 | 0.000488 | 5.760892 | 0.381745 | 0.637801 | -0.25606 | 11 | 1.15E+08 | F | II | CADM1 | Body | opensea | Body-opens | rs3774602 | 2;14;20;21;23 | | | | |
| cg1241854 | 0.216811 | 0.523667 | 12.84304 | 1.97E-06 | 0.000488 | 5.760781 | 0.415261 | 0.632073 | -0.21681 | 1 | 2.08E+08 | F | II | | IGR | opensea | IGR-opense | rs1470586 | 0 | | | | |
| cg1459780 | 0.245378 | 0.607948 | 12.8426 | 1.97E-06 | 0.000488 | 5.760538 | 0.485259 | 0.730637 | -0.24538 | 5 | 1.32E+08 | R | II | RAD50 | Body | opensea | Body-opens | rs5387155 | 47;2 | | | | |
| cg0692942 | 0.20449 | 0.537907 | 12.84213 | 1.97E-06 | 0.000488 | 5.760272 | 0.435662 | 0.640152 | -0.20449 | 7 | 84315906 | F | II | | IGR | opensea | IGR-opense | rs5566819 | 0;1;4;9;40 | | | | |
| cg0894620 | 0.208018 | 0.520764 | 12.84167 | 1.97E-06 | 0.000488 | 5.760019 | 0.416755 | 0.624773 | -0.20802 | 18 | 10169877 | F | II | | IGR | opensea | IGR-opense | rs1147123 | 1 | | | | |
| cg1686204 | 0.200313 | 0.43179 | 12.84034 | 1.97E-06 | 0.000488 | 5.759276 | 0.331634 | 0.531947 | -0.20031 | 4 | 11705905 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2080808 | 0.243928 | 0.515248 | 12.83999 | 1.97E-06 | 0.000488 | 5.759078 | 0.393284 | 0.637213 | -0.24393 | 2 | 6962835 | R | II | | IGR | opensea | IGR-opense | rs1834726 | 25;14;1 | | | | |
| cg1554998 | 0.203615 | 0.433366 | 12.83874 | 1.98E-06 | 0.000488 | 5.758384 | 0.331559 | 0.535173 | -0.20361 | 4 | 1.39E+08 | R | II | LINC00616 | Body | opensea | Body-opens | rs7974621 | 1 | | | | |
| cg2529610 | 0.271443 | 0.490284 | 12.83848 | 1.98E-06 | 0.000488 | 5.758237 | 0.354563 | 0.626006 | -0.27144 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | rs5374792 | 46;43;21 | | | | |
| cg0539421 | 0.205691 | 0.515695 | 12.83333 | 1.98E-06 | 0.000488 | 5.755361 | 0.41285 | 0.618541 | -0.20569 | 11 | 31130488 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2009805 | 0.203175 | 0.610435 | 12.82818 | 1.99E-06 | 0.000489 | 5.752488 | 0.508847 | 0.712022 | -0.20317 | 17 | 53325360 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0534223 | 0.239832 | 0.609571 | 12.82596 | 1.99E-06 | 0.000489 | 5.751247 | 0.489655 | 0.729488 | -0.23983 | 10 | 70426406 | R | II | TET1 | Body | opensea | Body-opens | rs5412749 | 35 | | | | |
| cg0298761 | 0.200108 | 0.546037 | 12.82471 | 1.99E-06 | 0.000489 | 5.750547 | 0.445983 | 0.646091 | -0.20011 | 10 | 30054988 | R | II | | IGR | opensea | IGR-opense | rs5310867 | 26;22;2 | | | | |
| cg2528657 | 0.209934 | 0.484561 | 12.82164 | 2E-06 | 0.00049 | 5.748836 | 0.379594 | 0.589527 | -0.20993 | 1 | 56069436 | R | II | | IGR | opensea | IGR-opense | rs5569243 | 47;45;13;1 | | | | |
| cg0655815 | 0.205418 | 0.681013 | 12.81782 | 2E-06 | 0.00049 | 5.746697 | 0.578304 | 0.783722 | -0.20542 | 8 | 64144576 | F | II | | IGR | opensea | IGR-opense | rs5473866 | 44 | | | | |
| cg0405862 | 0.226612 | 0.452186 | 12.81686 | 2E-06 | 0.00049 | 5.74616 | 0.33888 | 0.565492 | -0.22661 | 20 | 48285160 | F | II | B4GALT5 | Body | opensea | Body-opens | | | | | | |
| cg2258181 | 0.205636 | 0.576854 | 12.81336 | 2E-06 | 0.00049 | 5.744205 | 0.474036 | 0.679673 | -0.20564 | 13 | 43815115 | F | II | ENOX1 | Body | opensea | Body-opens | rs1846153 | 1;8;26;51 | | | | |
| cg0800092 | 0.20825 | 0.698553 | 12.80878 | 2.01E-06 | 0.00049 | 5.741639 | 0.594428 | 0.802678 | -0.20825 | 7 | 26676945 | F | II | C7orf71 | TSS1500 | opensea | TSS1500-op | rs1419815 | 14;34 | | | | |
| cg0946360 | 0.209713 | 0.420909 | 12.80705 | 2.01E-06 | 0.00049 | 5.740674 | 0.316053 | 0.525766 | -0.20971 | 1 | 84255079 | R | II | LOC10192 | Body | opensea | Body-opens | rs1139648 | 34 | | | | |
| cg0348736 | 0.245911 | 0.521693 | 12.80671 | 2.01E-06 | 0.00049 | 5.740482 | 0.398737 | 0.644648 | -0.24591 | 12 | 50643418 | R | II | LIMA1 | 5'UTR | opensea | 5'UTR-open | rs5521908 | 37;1 | | | | |
| cg1396472 | 0.20921 | 0.49713 | 12.80468 | 2.01E-06 | 0.00049 | 5.739347 | 0.392525 | 0.601735 | -0.20921 | 9 | 71062328 | R | II | PGM5 | Body | opensea | Body-opens | rs1884635 | 2 | | | | |
| cg2419631 | 0.239554 | 0.559406 | 12.79511 | 2.03E-06 | 0.000491 | 5.733985 | 0.439629 | 0.679183 | -0.23955 | 21 | 33086923 | F | II | SCAF4 | Body | opensea | Body-opens | rs5496552 | 1;25;38;42 | | | | |
| cg1768500 | 0.247945 | 0.535749 | 12.78883 | 2.03E-06 | 0.000492 | 5.730467 | 0.411777 | 0.659721 | -0.24794 | 2 | 2.17E+08 | R | II | | IGR | opensea | IGR-opense | rs5281621 | 19;8;2;1 | | | | |
| cg0700071 | 0.249676 | 0.456577 | 12.78826 | 2.03E-06 | 0.000492 | 5.730148 | 0.331739 | 0.581415 | -0.24968 | 12 | 62463441 | R | II | FAM19A2 | 5'UTR | opensea | 5'UTR-open | rs348645 | 31 | | | | |
| cg0466933 | 0.209613 | 0.473815 | 12.78607 | 2.04E-06 | 0.000492 | 5.728923 | 0.369009 | 0.578621 | -0.20961 | 2 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | rs4018100 | 8;17;19;25;26 | | | | |
| cg1535912 | 0.216272 | 0.362616 | 12.78331 | 2.04E-06 | 0.000492 | 5.727373 | 0.25448 | 0.470752 | -0.21627 | 11 | 1.14E+08 | R | II | ZBTB16 | Body | opensea | Body-opens | rs5371618 | 14 | | | | |
| cg2464755 | 0.202883 | 0.677206 | 12.78279 | 2.04E-06 | 0.000492 | 5.727079 | 0.575764 | 0.778647 | -0.20288 | 1 | 1.71E+08 | F | II | PRRX1 | Body | opensea | Body-opens | | | | | | |
| cg0537474 | 0.23077 | 0.635997 | 12.78223 | 2.04E-06 | 0.000492 | 5.726768 | 0.520612 | 0.751382 | -0.23077 | 10 | 13770043 | F | II | FRMD4A | Body | opensea | Body-opens | rs6602676 | 22 | | | | |
| cg1975365 | 0.225861 | 0.553596 | 12.78113 | 2.04E-06 | 0.000492 | 5.726147 | 0.440666 | 0.666527 | -0.22586 | 8 | 38584462 | F | II | TACC1 | TSS1500 | opensea | TSS1500-op | rs1131941 | 14;51 | | | | |
| cg0982740 | 0.258065 | 0.456682 | 12.77897 | 2.04E-06 | 0.000492 | 5.724937 | 0.32765 | 0.585715 | -0.25807 | 3 | 1.95E+08 | F | II | | IGR | opensea | IGR-opense | rs7788498 | 17;48 | | | | |
| cg1044898 | 0.216625 | 0.546541 | 12.77881 | 2.04E-06 | 0.000492 | 5.724847 | 0.438228 | 0.654854 | -0.21663 | 14 | 86041336 | R | II | FLRT2 | 5'UTR | opensea | 5'UTR-open | rs4899873 | 45;39 | | | | |
| cg2619051 | 0.251558 | 0.476931 | 12.77868 | 2.04E-06 | 0.000492 | 5.724778 | 0.351152 | 0.60271 | -0.25156 | 3 | 1.09E+08 | F | II | MORC1 | Body | opensea | Body-opens | rs1115950 | 16;26 | | | | |
| cg2191982 | 0.222239 | 0.473307 | 12.77847 | 2.05E-06 | 0.000492 | 5.724656 | 0.362187 | 0.584427 | -0.22224 | 7 | 28081543 | F | II | JAZF1 | Body | opensea | Body-opens | rs1503020 | 0;7 | | | | |
| cg1368319 | 0.218676 | 0.522817 | 12.77793 | 2.05E-06 | 0.000492 | 5.724357 | 0.413478 | 0.632155 | -0.21868 | 9 | 1.04E+08 | R | II | C9orf125 | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg2610620 | 0.227825 | 0.548447 | 12.77752 | 2.05E-06 | 0.000492 | 5.724125 | 0.434535 | 0.66236 | -0.22782 | 1 | 1.93E+08 | R | II | RGS13 | Body | opensea | Body-opens | rs5531883 | 35;14 | | | | |
| cg0966597 | 0.268642 | 0.552047 | 12.77651 | 2.05E-06 | 0.000492 | 5.723558 | 0.417726 | 0.686368 | -0.26864 | 2 | 1.73E+08 | F | II | SLC25A12 | Body | opensea | Body-opens | rs5507590 | 0 | | | | |
| cg0522477 | 0.234722 | 0.498642 | 12.77329 | 2.05E-06 | 0.000492 | 5.72175 | 0.381281 | 0.616004 | -0.23472 | 12 | 68553819 | R | II | IFNG | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg1527837 | 0.235414 | 0.466291 | 12.7732 | 2.05E-06 | 0.000492 | 5.721699 | 0.348584 | 0.583997 | -0.23541 | 12 | 1.32E+08 | F | I | GPR133 | Body | shelf | Body-shelf | chr12:1315 | rs7346876 | 0;6;18;37;40 | | | |
| cg1768949 | 0.260133 | 0.49822 | 12.76898 | 2.06E-06 | 0.000493 | 5.71933 | 0.368153 | 0.628286 | -0.26013 | 10 | 1.29E+08 | F | II | DOCK1 | Body | opensea | Body-opens | | | | | | |
| cg2266425 | 0.262985 | 0.5115 | 12.76333 | 2.06E-06 | 0.000494 | 5.716159 | 0.380007 | 0.642992 | -0.26299 | 12 | 25836256 | R | II | | IGR | opensea | IGR-opense | rs1236732 | 41 | | | | |
| cg0697069 | 0.220139 | 0.538699 | 12.76172 | 2.06E-06 | 0.000494 | 5.715254 | 0.42863 | 0.648769 | -0.22014 | 7 | 2117046 | R | II | MAD1L1 | Body | shore | Body-shore | chr7:2116 | rs5768059 | 29;27 | | | |
| cg2049537 | 0.244984 | 0.350003 | 12.76026 | 2.07E-06 | 0.000494 | 5.714432 | 0.227511 | 0.472495 | -0.24498 | 14 | 23266481 | F | II | SLC7A7 | Body | opensea | Body-opens | rs1428133 | 0;7;23;41;44;45 | | | | |
| cg1789494 | 0.226028 | 0.62614 | 12.75812 | 2.07E-06 | 0.000494 | 5.713229 | 0.513126 | 0.739154 | -0.22603 | 14 | 67600512 | R | II | GPHN | Body | opensea | Body-opens | rs5728979 | 23;1 | | | | |
| cg2150728 | 0.202083 | 0.588404 | 12.75762 | 2.07E-06 | 0.000494 | 5.712949 | 0.487363 | 0.689445 | -0.20208 | 14 | 59992203 | F | II | CCDC175 | Body | opensea | Body-opens | rs5697248 | 1;17 | | | | |
| cg1039558 | 0.21393 | 0.554681 | 12.7562 | 2.07E-06 | 0.000494 | 5.712151 | 0.447716 | 0.661646 | -0.21393 | 14 | 32964719 | R | II | AKAP6 | Body | opensea | Body-opens | rs5533906 | 9;2 | | | | |
| cg0799434 | 0.20668 | 0.503449 | 12.75465 | 2.07E-06 | 0.000494 | 5.711275 | 0.400109 | 0.606789 | -0.20668 | 7 | 19969042 | R | II | LOC10192 | Body | opensea | Body-opens | rs1913321 | 41;38;7 | | | | |
| cg2018245 | 0.20296 | 0.37605 | 12.75431 | 2.07E-06 | 0.000494 | 5.711088 | 0.27457 | 0.47753 | -0.20296 | 10 | 7662882 | F | II | ITIH5 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg2185896 | 0.244664 | 0.694101 | 12.75295 | 2.08E-06 | 0.000494 | 5.710323 | 0.571769 | 0.816433 | -0.24466 | 6 | 52148119 | F | II | MCM3 | Body | shore | Body-shore | chr6:5214 | | | | | |
| cg0438546 | 0.231983 | 0.505219 | 12.75272 | 2.08E-06 | 0.000494 | 5.710191 | 0.389227 | 0.62121 | -0.23198 | 4 | 55796460 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1735734 | 0.264372 | 0.428438 | 12.75031 | 2.08E-06 | 0.000494 | 5.708838 | 0.296251 | 0.560624 | -0.26437 | 2 | 58603854 | F | II | | IGR | opensea | IGR-opense | rs5549182 | 0;1;29 | | | | |
| cg1108959 | 0.227166 | 0.421538 | 12.7458 | 2.08E-06 | 0.000494 | 5.706302 | 0.307955 | 0.535121 | -0.22717 | 6 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | rs1816465 | 48;47;40 | | | | |
| cg0137458 | 0.225042 | 0.552041 | 12.74559 | 2.08E-06 | 0.000494 | 5.706182 | 0.43952 | 0.664562 | -0.22504 | 15 | 62521056 | F | II | | IGR | opensea | IGR-opense | rs5484915 | 0;4 | | | | |
| cg1171460 | 0.233269 | 0.53969 | 12.74262 | 2.09E-06 | 0.000494 | 5.704507 | 0.423056 | 0.656325 | -0.23327 | 5 | 1.32E+08 | R | II | RAD50 | Body | opensea | Body-opens | rs5550471 | 50;39;7;4 | | | | |
| cg0435054 | 0.209907 | 0.606589 | 12.74078 | 2.09E-06 | 0.000494 | 5.703471 | 0.501635 | 0.711542 | -0.20991 | 4 | 33937903 | F | II | LOC10192 | Body | opensea | Body-opens | rs5576123 | 1;16 | | | | |
| cg1772759 | 0.248297 | 0.453567 | 12.73386 | 2.1E-06 | 0.000494 | 5.699574 | 0.329418 | 0.577716 | -0.2483 | 5 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1410635 | 0.20306 | 0.568622 | 12.73317 | 2.1E-06 | 0.000494 | 5.699189 | 0.467093 | 0.670152 | -0.20306 | 4 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | rs5324613 | 11;4;3;1 | | | | |
| cg1884558 | 0.23691 | 0.512775 | 12.73288 | 2.1E-06 | 0.000494 | 5.699023 | 0.39432 | 0.631231 | -0.23691 | 9 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | rs5415831 | 21 | | | | |
| cg1911164 | 0.203913 | 0.595352 | 12.73229 | 2.1E-06 | 0.000494 | 5.698692 | 0.493395 | 0.697308 | -0.20391 | 1 | 2.18E+08 | R | II | LOC10192 | TSS200 | opensea | TSS200-ope | rs5375190 | 44;30;21;1 | | | | |
| cg2421959 | 0.225807 | 0.636172 | 12.7305 | 2.1E-06 | 0.000494 | 5.697683 | 0.523269 | 0.749076 | -0.22581 | 1 | 1.83E+08 | F | II | | IGR | opensea | IGR-opense | rs5752094 | 8;16;18 | | | | |
| cg2194756 | 0.233709 | 0.564585 | 12.72633 | 2.11E-06 | 0.000494 | 5.695332 | 0.44773 | 0.68144 | -0.23371 | 20 | 37650634 | R | II | DHX35 | Body | opensea | Body-opens | rs3679595 | 34 | | | | |
| cg1996482 | 0.249557 | 0.593166 | 12.72613 | 2.11E-06 | 0.000494 | 5.695217 | 0.468387 | 0.717945 | -0.24956 | 2 | 1.83E+08 | F | II | PPP1R1C | Body | opensea | Body-opens | rs5542558 | 0;11;49 | | | | |
| cg1805372 | 0.217311 | 0.476139 | 12.71814 | 2.12E-06 | 0.000495 | 5.690715 | 0.367484 | 0.584795 | -0.21731 | 12 | 47788146 | R | II | | IGR | opensea | IGR-opense | rs5340433 | 45;8;7 | | | | |
| cg0287102 | 0.217997 | 0.543388 | 12.71708 | 2.12E-06 | 0.000495 | 5.690115 | 0.434389 | 0.652387 | -0.218 | 11 | 10715715 | R | II | MRVI1 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg2162220 | 0.206166 | 0.648093 | 12.71592 | 2.12E-06 | 0.000495 | 5.689463 | 0.54501 | 0.751176 | -0.20617 | 2 | 1.74E+08 | F | II | CDCA7 | Body | shelf | Body-shelf | chr2:1742 | | | | | |
| cg2417691 | 0.220849 | 0.536716 | 12.71464 | 2.12E-06 | 0.000495 | 5.688741 | 0.426292 | 0.64714 | -0.22085 | 12 | 42522401 | R | II | GXYLT1 | Body | opensea | Body-opens | rs1425515 | 2 | | | | |
| cg0310911 | 0.213488 | 0.471208 | 12.71211 | 2.12E-06 | 0.000495 | 5.687311 | 0.364464 | 0.577952 | -0.21349 | 14 | 71647081 | F | II | | IGR | opensea | IGR-opense | rs4902911 | 37;51 | | | | |
| cg1034232 | 0.247793 | 0.470327 | 12.70981 | 2.13E-06 | 0.000495 | 5.686009 | 0.346431 | 0.594224 | -0.24779 | 14 | 52171238 | F | II | FRMD6 | Body | opensea | Body-opens | rs5523043 | 0;1;28;45;50 | | | | |
| cg2201555 | 0.234838 | 0.529461 | 12.7091 | 2.13E-06 | 0.000495 | 5.685611 | 0.412042 | 0.64688 | -0.23484 | 15 | 78358486 | F | II | TBC1D2B | Body | opensea | Body-opens | rs5443766 | 1 | | | | |
| cg1645443 | 0.237667 | 0.588598 | 12.70646 | 2.13E-06 | 0.000495 | 5.684118 | 0.469764 | 0.707432 | -0.23767 | 2 | 2.36E+08 | R | II | | IGR | opensea | IGR-opense | rs5457479 | 8 | | | | |
| cg1507897 | 0.263562 | 0.588481 | 12.70424 | 2.13E-06 | 0.000495 | 5.682866 | 0.4567 | 0.720261 | -0.26356 | 11 | 85958536 | F | II | EED | Body | shelf | Body-shelf | chr11:859 | rs7932677 | 6 | | | |
| cg0093571 | 0.240072 | 0.502911 | 12.70272 | 2.14E-06 | 0.000495 | 5.682008 | 0.382875 | 0.622947 | -0.24007 | 8 | 40432238 | F | II | ZMAT4 | Body | opensea | Body-opens | | | | | | |
| cg0082663 | 0.302607 | 0.508574 | 12.70238 | 2.14E-06 | 0.000495 | 5.681814 | 0.357271 | 0.659878 | -0.30261 | 19 | 46969832 | F | II | PNMAL1 | 3'UTR | opensea | 3'UTR-open | rs5392116 | 0;15 | | | | |
| cg1415402 | 0.246262 | 0.603506 | 12.70108 | 2.14E-06 | 0.000495 | 5.68108 | 0.480375 | 0.726638 | -0.24626 | 21 | 26800400 | F | II | LINC00158 | Body | opensea | Body-opens | rs5343394 | 4 | | | | |
| cg1671391 | 0.232192 | 0.519459 | 12.69961 | 2.14E-06 | 0.000495 | 5.680252 | 0.403363 | 0.635555 | -0.23219 | 10 | 4289162 | R | II | | IGR | opensea | IGR-opense | rs3717233 | 47 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1377140 | 0.22391 | 0.519847 | 12.69611 | 2.14E-06 | 0.000496 | 5.678271 | 0.407891 | 0.631802 | -0.22391 | 15 | 82172817 | R | II | | IGR | opensea | IGR-opense | | rs1396732 | 51;33;32;20;11;2 |
| cg1675590 | 0.232781 | 0.524934 | 12.69281 | 2.15E-06 | 0.000496 | 5.676404 | 0.408543 | 0.641325 | -0.23278 | 10 | 44567089 | F | II | | IGR | opensea | IGR-opense | | rs5622879 | 0 |
| cg1858092 | 0.208815 | 0.588474 | 12.69131 | 2.15E-06 | 0.000496 | 5.675559 | 0.484066 | 0.692882 | -0.20882 | 17 | 45336851 | F | II | ITGB3 | Body | opensea | Body-opens | | | |
| cg2376265 | 0.216956 | 0.398367 | 12.691 | 2.15E-06 | 0.000496 | 5.67538 | 0.289889 | 0.506845 | -0.21696 | 1 | 20914109 | R | II | CDA | TSS1500 | opensea | TSS1500-op | | | |
| cg0325222 | 0.245974 | 0.53403 | 12.68444 | 2.16E-06 | 0.000497 | 5.671671 | 0.411043 | 0.657017 | -0.24597 | 9 | 22214533 | R | II | | IGR | opensea | IGR-opense | | rs5750912 | 1 |
| cg0022024 | 0.215656 | 0.656471 | 12.68349 | 2.16E-06 | 0.000497 | 5.671133 | 0.548643 | 0.764299 | -0.21566 | 15 | 38164845 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0593378 | 0.247146 | 0.468252 | 12.68264 | 2.16E-06 | 0.000497 | 5.670655 | 0.344679 | 0.591825 | -0.24715 | 2 | 97190408 | F | II | | IGR | shelf | IGR-shelf | chr2:9719 | rs5493021 | 0;42;45 |
| cg0667392 | 0.223513 | 0.487094 | 12.6816 | 2.16E-06 | 0.000497 | 5.670065 | 0.375337 | 0.59885 | -0.22351 | 10 | 13130374 | F | II | CCDC3 | 5'UTR | opensea | 5'UTR-open | | rs3387966 | 0;5;15 |
| cg1508029 | 0.203148 | 0.413418 | 12.6775 | 2.17E-06 | 0.000498 | 5.667743 | 0.311844 | 0.514992 | -0.20315 | 22 | 27619629 | R | II | | IGR | opensea | IGR-opense | | rs5539595 | 50;41;25 |
| cg0782625 | 0.233074 | 0.530451 | 12.67558 | 2.17E-06 | 0.000498 | 5.666653 | 0.413914 | 0.646988 | -0.23307 | 17 | 48243707 | R | II | SGCA | Body | opensea | Body-opens | | rs3755041 | 47;33 |
| cg0500748 | 0.241972 | 0.45237 | 12.67457 | 2.17E-06 | 0.000498 | 5.666081 | 0.331384 | 0.573356 | -0.24197 | 19 | 31399134 | F | II | | IGR | opensea | IGR-opense | | rs5544075 | 0;1;44 |
| cg2741724 | 0.263542 | 0.558366 | 12.67059 | 2.18E-06 | 0.000498 | 5.66383 | 0.426595 | 0.690137 | -0.26354 | 7 | 20323695 | F | II | | IGR | opensea | IGR-opense | | rs2529019 | 10 |
| cg0849255 | 0.234652 | 0.497154 | 12.67042 | 2.18E-06 | 0.000498 | 5.663734 | 0.379827 | 0.61448 | -0.23465 | 12 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs5707240 | 20;2 |
| cg1449397 | 0.201351 | 0.532065 | 12.66976 | 2.18E-06 | 0.000498 | 5.663359 | 0.43139 | 0.632741 | -0.20135 | 11 | 63879234 | R | II | FLRT1 | 5'UTR | opensea | 5'UTR-open | | rs5441288 | 37;1 |
| cg2035054 | 0.231834 | 0.46953 | 12.66949 | 2.18E-06 | 0.000498 | 5.663205 | 0.353612 | 0.585447 | -0.23183 | 3 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs5740788 | 36 |
| cg2665295 | 0.258927 | 0.444013 | 12.66899 | 2.18E-06 | 0.000498 | 5.662922 | 0.314549 | 0.573476 | -0.25893 | 8 | 24823645 | R | II | | IGR | opensea | IGR-opense | | rs5708701 | 6;1 |
| cg1169795 | 0.206444 | 0.586451 | 12.6679 | 2.18E-06 | 0.000498 | 5.662307 | 0.483229 | 0.689673 | -0.20644 | 2 | 40332823 | F | II | SLC8A1-AS1 | Body | opensea | Body-opens | | rs5636610 | 18;28;47 |
| cg0723974 | 0.210106 | 0.583663 | 12.66723 | 2.18E-06 | 0.000498 | 5.661924 | 0.47861 | 0.688716 | -0.21011 | 4 | 19757311 | F | II | | IGR | opensea | IGR-opense | | rs1405355 | 1;14 |
| cg1081194 | 0.207851 | 0.60281 | 12.66721 | 2.18E-06 | 0.000498 | 5.661911 | 0.498885 | 0.706736 | -0.20785 | 1 | 1.57E+08 | R | II | SH2D2A | Body | shore | Body-shore | chr1:1567 | rs3773306 | 50;2 |
| cg2730500 | 0.223813 | 0.510635 | 12.66448 | 2.18E-06 | 0.000499 | 5.660367 | 0.398728 | 0.622542 | -0.22381 | 2 | 1.75E+08 | R | II | WIPF1 | 5'UTR | opensea | 5'UTR-open | | rs1416899 | 12 |
| cg0390607 | 0.228752 | 0.512524 | 12.66247 | 2.19E-06 | 0.000499 | 5.659225 | 0.398148 | 0.6269 | -0.22875 | 7 | 22894898 | F | II | SNORD93 | TSS1500 | shore | TSS1500-sh | chr7:2289 | rs57686265 | 5 |
| cg1515884 | 0.226987 | 0.564052 | 12.65968 | 2.19E-06 | 0.000499 | 5.657643 | 0.450559 | 0.677545 | -0.22699 | 8 | 53021899 | F | II | | IGR | opensea | IGR-opense | | rs1503000 | 0;1;38;45 |
| cg1104285 | 0.219508 | 0.55229 | 12.65842 | 2.19E-06 | 0.000499 | 5.65693 | 0.442536 | 0.662045 | -0.21951 | 1 | 91524842 | F | II | | IGR | opensea | IGR-opense | | rs5461138 | 16;41 |
| cg1459898 | 0.206551 | 0.407444 | 12.65575 | 2.19E-06 | 0.000499 | 5.655412 | 0.304169 | 0.51072 | -0.20655 | 1 | 68819247 | F | II | | IGR | opensea | IGR-opense | | rs1828373 | 5;8;47;51 |
| cg0446688 | 0.215022 | 0.55163 | 12.65182 | 2.2E-06 | 0.000499 | 5.653185 | 0.444119 | 0.659141 | -0.21502 | 7 | 19064177 | F | II | | IGR | opensea | IGR-opense | | rs5542940 | 17;27;47 |
| cg0475630 | 0.217082 | 0.465883 | 12.64775 | 2.2E-06 | 0.0005 | 5.650872 | 0.357342 | 0.574424 | -0.21708 | 4 | 1.71E+08 | F | II | | IGR | opensea | IGR-opense | | rs1435162 | 43 |
| cg1617579 | 0.248564 | 0.514484 | 12.64722 | 2.21E-06 | 0.0005 | 5.650572 | 0.390202 | 0.638766 | -0.24856 | 1 | 1.2E+08 | R | II | HSD3B1 | Body | opensea | Body-opens | | rs3751422 | 29;13;12;1 |
| cg0816166 | 0.209549 | 0.464146 | 12.64457 | 2.21E-06 | 0.0005 | 5.649069 | 0.359372 | 0.568921 | -0.20955 | 11 | 13034897 | F | II | | IGR | shelf | IGR-shelf | chr11:130 | rs1895698 | 2 |
| cg2624913 | 0.212044 | 0.507688 | 12.64222 | 2.21E-06 | 0.0005 | 5.647734 | 0.401667 | 0.61371 | -0.21204 | 6 | 32026147 | R | II | TNXB | Body | opensea | Body-opens | | rs5362265 | 49;42;2 |
| cg2385234 | 0.202761 | 0.653984 | 12.63961 | 2.22E-06 | 0.000501 | 5.64625 | 0.552604 | 0.755365 | -0.20276 | 11 | 1.04E+08 | R | II | PDGFD | Body | shelf | Body-shelf | chr11:104 | rs5611737 | 50;43;21;13 |
| cg1671935 | 0.239158 | 0.488646 | 12.63698 | 2.22E-06 | 0.000501 | 5.644757 | 0.369067 | 0.608225 | -0.23916 | 1 | 92218200 | F | II | TGFBR3 | Body | opensea | Body-opens | | rs1757348 | 45 |
| cg0513394 | 0.23187 | 0.571421 | 12.63648 | 2.22E-06 | 0.000501 | 5.644472 | 0.455486 | 0.687356 | -0.23187 | 14 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1902060 | 0.208346 | 0.510326 | 12.63509 | 2.22E-06 | 0.000501 | 5.643683 | 0.406153 | 0.614499 | -0.20835 | 2 | 30974108 | F | II | CAPN13 | ExonBnd | opensea | ExonBnd-op | | rs1820813 | 0;8;49 |
| cg1494892 | 0.201624 | 0.562164 | 12.63447 | 2.22E-06 | 0.000501 | 5.643327 | 0.461353 | 0.662976 | -0.20162 | 17 | 43453180 | F | II | | IGR | shelf | IGR-shelf | chr17:434 | rs5555452 | 0 |
| cg2704142 | 0.223969 | 0.472952 | 12.63269 | 2.22E-06 | 0.000501 | 5.642315 | 0.360968 | 0.584937 | -0.22397 | 12 | 6232979 | F | II | VWF | 5'UTR | opensea | 5'UTR-open | | rs1812516 | 1 |
| cg0071840 | 0.211779 | 0.615116 | 12.63195 | 2.22E-06 | 0.000501 | 5.641895 | 0.509226 | 0.721005 | -0.21178 | 6 | 41131863 | R | II | TREM2 | TSS1500 | opensea | TSS1500-op | | rs1382223 | 42;23;1 |
| cg0992466 | 0.228895 | 0.58807 | 12.63041 | 2.23E-06 | 0.000501 | 5.64102 | 0.473623 | 0.702518 | -0.22889 | 1 | 31976989 | F | II | | IGR | opensea | IGR-opense | | rs5277479 | 1;12 |
| cg2217812 | 0.214914 | 0.590846 | 12.62833 | 2.23E-06 | 0.000501 | 5.639838 | 0.483389 | 0.698303 | -0.21491 | 4 | 25022049 | F | II | LGI2 | Body | opensea | Body-opens | | rs5368579 | 0 |
| cg0143989 | 0.229849 | 0.505313 | 12.62661 | 2.23E-06 | 0.000501 | 5.638857 | 0.390389 | 0.620238 | -0.22985 | 11 | 72949060 | F | II | P2RY2 | 3'UTR | shelf | 3'UTR-shelf | chr11:7294 | | |
| cg0753579 | 0.266184 | 0.517361 | 12.62648 | 2.23E-06 | 0.000501 | 5.638782 | 0.384269 | 0.650454 | -0.26618 | 3 | 1.15E+08 | R | II | ZBTB20 | Body | opensea | Body-opens | | rs1060854 | 3 |
| cg2256631 | 0.257453 | 0.520459 | 12.62193 | 2.24E-06 | 0.000501 | 5.636196 | 0.391733 | 0.649186 | -0.25745 | 7 | 40515317 | F | II | SUGCT | Body | opensea | Body-opens | | | |
| cg2189452 | 0.266133 | 0.608423 | 12.61818 | 2.24E-06 | 0.000502 | 5.634058 | 0.475357 | 0.74149 | -0.26613 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-opens | | rs5773163 | 40 |
| cg0819749 | 0.222219 | 0.48277 | 12.61717 | 2.24E-06 | 0.000502 | 5.633483 | 0.371661 | 0.593879 | -0.22222 | 11 | 82838289 | R | II | | IGR | opensea | IGR-opense | | rs1922466 | 47;38 |
| cg2082269 | 0.219152 | 0.519346 | 12.61687 | 2.24E-06 | 0.000502 | 5.633315 | 0.40977 | 0.628922 | -0.21915 | 2 | 2.31E+08 | R | II | SLC16A14 | TSS1500 | shore | TSS1500-sh | chr2:2309 | rs5721295 | 39;32;9 |
| cg1813195 | 0.244301 | 0.592457 | 12.61492 | 2.25E-06 | 0.000502 | 5.632206 | 0.470307 | 0.714608 | -0.2443 | 2 | 1.06E+08 | R | II | FHL2 | 5'UTR | opensea | 5'UTR-open | | rs5466022 | 16;1 |
| cg0735868 | 0.216213 | 0.655715 | 12.61347 | 2.25E-06 | 0.000502 | 5.631379 | 0.547609 | 0.763822 | -0.21621 | 17 | 7948375 | F | II | ALOX15B | Body | opensea | Body-opens | | rs3392147 | 0;1;3;50 |
| cg1255177 | 0.217089 | 0.668362 | 12.61098 | 2.25E-06 | 0.000502 | 5.629958 | 0.559818 | 0.776906 | -0.21709 | 13 | 75939861 | R | II | TBC1D4 | Body | opensea | Body-opens | | rs5343833 | 37;32;15 |
| cg1454236 | 0.208311 | 0.560102 | 12.61017 | 2.25E-06 | 0.000502 | 5.6295 | 0.455946 | 0.664257 | -0.20831 | 9 | 12704964 | R | II | TYRP1 | Body | opensea | Body-opens | | rs5358841 | 23 |
| cg0210287 | 0.207166 | 0.506376 | 12.6092 | 2.25E-06 | 0.000502 | 5.628949 | 0.402793 | 0.609959 | -0.20717 | 4 | 79338837 | R | II | FRAS1 | Body | opensea | Body-opens | | rs5371754 | 51;44;38 |
| cg2599294 | 0.212709 | 0.537594 | 12.60401 | 2.26E-06 | 0.000503 | 5.625989 | 0.431239 | 0.643948 | -0.21271 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs1464663 | 44;16;1 |
| cg0285142 | 0.225358 | 0.489295 | 12.60327 | 2.26E-06 | 0.000503 | 5.625568 | 0.376616 | 0.601974 | -0.22536 | 18 | 75272747 | F | II | | IGR | opensea | IGR-opense | | rs7614663 | 7;43 |
| cg0170897 | 0.209443 | 0.641981 | 12.59975 | 2.27E-06 | 0.000503 | 5.623559 | 0.53726 | 0.746702 | -0.20944 | 2 | 1.83E+08 | R | II | | IGR | opensea | IGR-opense | | rs5671963 | 34;7 |
| cg2586738 | 0.26545 | 0.51274 | 12.59951 | 2.27E-06 | 0.000503 | 5.623422 | 0.380015 | 0.645464 | -0.26545 | 8 | 27936225 | R | II | NUGGC | 5'UTR | opensea | 5'UTR-open | | rs5599172 | 6;2;1 |
| cg0832329 | 0.22679 | 0.520682 | 12.59833 | 2.27E-06 | 0.000503 | 5.622747 | 0.407287 | 0.634077 | -0.22679 | 13 | 80563028 | R | II | | IGR | opensea | IGR-opense | | rs5279103 | 12;1 |
| cg2507813 | 0.207686 | 0.540104 | 12.59503 | 2.27E-06 | 0.000503 | 5.620866 | 0.436261 | 0.643948 | -0.20769 | 17 | 46698598 | R | II | HOXB9 | 3'UTR | shore | 3'UTR-shor | chr17:466 | rs5688627 | 2 |
| cg1615611 | 0.235752 | 0.571519 | 12.59292 | 2.28E-06 | 0.000503 | 5.619665 | 0.453644 | 0.689395 | -0.23575 | 2 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs1417181 | 45 |
| cg0991444 | 0.240396 | 0.537632 | 12.58575 | 2.29E-06 | 0.000505 | 5.615571 | 0.417434 | 0.65783 | -0.2404 | 1 | 46972183 | F | II | DMBX1 | TSS1500 | opensea | TSS1500-op | | rs5537484 | 1;31;46 |
| cg1652994 | 0.246227 | 0.667358 | 12.58167 | 2.29E-06 | 0.000506 | 5.613241 | 0.544244 | 0.790472 | -0.24623 | 10 | 98896466 | F | II | SLIT1 | Body | opensea | Body-opens | | rs1427190 | 0;45 |
| cg1960210 | 0.263622 | 0.594133 | 12.57781 | 2.3E-06 | 0.000506 | 5.611037 | 0.462321 | 0.725944 | -0.26362 | 4 | 90800500 | F | II | | IGR | opensea | IGR-opense | | rs1893177 | 27 |
| cg0605737 | 0.219802 | 0.356256 | 12.57708 | 2.3E-06 | 0.000506 | 5.610616 | 0.246355 | 0.466158 | -0.2198 | 1 | 89507082 | R | II | | IGR | opensea | IGR-opense | | rs1508799 | 32 |
| cg0244969 | 0.200797 | 0.62793 | 12.57657 | 2.3E-06 | 0.000506 | 5.610327 | 0.527532 | 0.728329 | -0.2008 | 1 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | rs5413744 | 43;40;1 |
| cg2538832 | 0.253959 | 0.513327 | 12.57473 | 2.3E-06 | 0.000506 | 5.609275 | 0.386348 | 0.640307 | -0.25396 | 14 | 32461050 | F | II | | IGR | opensea | IGR-opense | | rs1497213 | 11;15 |
| cg2661327 | 0.23415 | 0.625189 | 12.57409 | 2.3E-06 | 0.000506 | 5.608906 | 0.508114 | 0.742263 | -0.23415 | 8 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs1472481 | 39;31;7 |
| cg2539299 | 0.229473 | 0.540486 | 12.57375 | 2.3E-06 | 0.000506 | 5.608715 | 0.425749 | 0.655222 | -0.22947 | 22 | 50625926 | R | II | TRABD | 5'UTR | shore | 5'UTR-shor | chr22:506 | | |
| cg1129186 | 0.256129 | 0.512281 | 12.56953 | 2.31E-06 | 0.000506 | 5.606303 | 0.384216 | 0.640345 | -0.25613 | 2 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | | rs7640536 | 31;28;11;1 |
| cg0625205 | 0.235811 | 0.578027 | 12.56474 | 2.31E-06 | 0.000507 | 5.603561 | 0.460121 | 0.695932 | -0.23581 | 11 | 68923361 | F | I | LOC338694 | Body | shore | Body-shore | chr11:689 | rs5729407 | 26;28;31;43 |
| cg0030342 | 0.213642 | 0.462376 | 12.5639 | 2.31E-06 | 0.000507 | 5.603084 | 0.355555 | 0.569197 | -0.21364 | 2 | 2.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs1505899 | 44 |
| cg0481141 | 0.270663 | 0.377747 | 12.56221 | 2.32E-06 | 0.000507 | 5.602113 | 0.242415 | 0.513079 | -0.27066 | 1 | 1.74E+08 | R | II | SNORD80 | TSS1500 | shelf | TSS1500-sh | chr1:1738 | rs5374956 | 24;7;2 |
| cg2432934 | 0.214069 | 0.596028 | 12.56167 | 2.32E-06 | 0.000507 | 5.601803 | 0.488994 | 0.703063 | -0.21407 | 5 | 7822907 | R | II | ADCY2 | Body | opensea | Body-opens | | rs5331038 | 2 |
| cg1282317 | 0.224919 | 0.604897 | 12.5609 | 2.32E-06 | 0.000507 | 5.601364 | 0.492438 | 0.717357 | -0.22492 | 16 | 78930322 | R | II | WWOX | Body | opensea | Body-opens | | rs5395586 | 37;32;26;17 |
| cg0684445 | 0.217064 | 0.608791 | 12.55983 | 2.32E-06 | 0.000507 | 5.600753 | 0.50026 | 0.717323 | -0.21706 | 2 | 1.59E+08 | F | II | CCDC148-A | TSS1500 | opensea | TSS1500-op | | rs1441109 | 1;49 |
| cg0905838 | 0.211538 | 0.562116 | 12.55781 | 2.32E-06 | 0.000507 | 5.599596 | 0.456347 | 0.667885 | -0.21154 | 13 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs5449910 | 50;49;44;15;1 |
| cg0717553 | 0.267491 | 0.482076 | 12.55558 | 2.33E-06 | 0.000507 | 5.59832 | 0.34833 | 0.615821 | -0.26749 | 16 | 15991691 | F | II | | IGR | opensea | IGR-opense | | rs5528229 | 0 |
| cg1301362 | 0.205858 | 0.708509 | 12.5555 | 2.33E-06 | 0.000507 | 5.598274 | 0.60558 | 0.811438 | -0.20586 | 1 | 1.7E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:1700 | rs5300714 | 9;1 |
| cg1114179 | 0.247364 | 0.550155 | 12.5486 | 2.34E-06 | 0.000507 | 5.594319 | 0.426473 | 0.673837 | -0.24736 | 4 | 57967183 | R | II | IGFBP7 | Body | opensea | Body-opens | | rs5537207 | 2 |
| cg0757910 | 0.223241 | 0.584804 | 12.5465 | 2.34E-06 | 0.000508 | 5.593119 | 0.473184 | 0.696424 | -0.22324 | 15 | 53910786 | R | II | WDR72 | Body | opensea | Body-opens | | rs5676651 | 44;42 |
| cg2068419 | 0.25413 | 0.466197 | 12.54426 | 2.34E-06 | 0.000508 | 5.591834 | 0.339133 | 0.593262 | -0.25413 | 5 | 1.42E+08 | F | II | FGF1 | 5'UTR | opensea | 5'UTR-open | | rs1880151 | 47;51 |
| cg2223911 | 0.213543 | 0.556464 | 12.53952 | 2.35E-06 | 0.000509 | 5.589116 | 0.449693 | 0.663236 | -0.21354 | 4 | 92370268 | F | II | CCSER1 | Body | opensea | Body-opens | | rs5644317 | 0;26 |
| cg0581245 | 0.204197 | 0.45632 | 12.53634 | 2.35E-06 | 0.000509 | 5.587292 | 0.354221 | 0.558418 | -0.2042 | 3 | 1.68E+08 | F | II | EGFEM1P | Body | opensea | Body-opens | | rs5344868 | 17;31 |
| cg2702232 | 0.232298 | 0.623245 | 12.53609 | 2.35E-06 | 0.000509 | 5.58715 | 0.507096 | 0.739394 | -0.2323 | 14 | 1.02E+08 | F | II | PPP2R5C | 3'UTR | shore | 3'UTR-shor | chr14:102 | rs1850586 | 1;8;29;46 |
| cg0955115 | 0.246208 | 0.54509 | 12.53539 | 2.35E-06 | 0.000509 | 5.586745 | 0.421986 | 0.668194 | -0.24621 | 1 | 2.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5762574 | 0;10;41 |
| cg0423459 | 0.252878 | 0.541693 | 12.53191 | 2.36E-06 | 0.00051 | 5.584752 | 0.415254 | 0.668132 | -0.25288 | 5 | 3851581 | R | II | | IGR | shelf | IGR-shelf | chr5:3854 | rs5374055 | 6 |
| cg0361901 | 0.225221 | 0.508768 | 12.52805 | 2.36E-06 | 0.000511 | 5.582533 | 0.396157 | 0.621378 | -0.22522 | 18 | 53536662 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0660205 | 0.204337 | 0.453552 | 12.5272 | 2.36E-06 | 0.000511 | 5.582048 | 0.351384 | 0.555721 | -0.20434 | 10 | 73409742 | F | II | CDH23 | Body | opensea | Body-opens | | rs5289018 | 0;8;23 |
| cg1689091 | 0.221402 | 0.395161 | 12.52411 | 2.37E-06 | 0.000511 | 5.580274 | 0.28446 | 0.505861 | -0.2214 | 5 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs1470751 | 0 |
| cg1178407 | 0.239952 | 0.573303 | 12.52073 | 2.37E-06 | 0.000512 | 5.578331 | 0.453327 | 0.693279 | -0.23995 | 7 | 79125480 | R | II | | IGR | opensea | IGR-opense | | rs5515014 | 21;13;2;1 |
| cg1800712 | 0.251887 | 0.594361 | 12.51939 | 2.38E-06 | 0.000512 | 5.577565 | 0.468417 | 0.720304 | -0.25189 | 3 | 1.55E+08 | F | II | PLCH1 | TSS1500 | opensea | TSS1500-op | | | |
| cg0649086 | 0.251881 | 0.538774 | 12.51347 | 2.38E-06 | 0.000513 | 5.57416 | 0.412833 | 0.664715 | -0.25188 | 10 | 79725233 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2018704 | 0.264481 | 0.514816 | 12.51306 | 2.38E-06 | 0.000513 | 5.573924 | 0.382575 | 0.647056 | -0.26448 | 3 | 28982939 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1538547 | 0.214711 | 0.592852 | 12.51214 | 2.39E-06 | 0.000513 | 5.573398 | 0.485496 | 0.700207 | -0.21471 | 1 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0830795 | 0.206084 | 0.629745 | 12.50753 | 2.39E-06 | 0.000513 | 5.570744 | 0.526703 | 0.732786 | -0.20608 | 15 | 99329769 | R | II | IGF1R | Body | opensea | Body-opens | | rs3756299 | 13;11 |
| cg2618953 | 0.241471 | 0.473909 | 12.49579 | 2.41E-06 | 0.000515 | 5.563988 | 0.353173 | 0.594644 | -0.24147 | 18 | 56791106 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0524182 | 0.253849 | 0.540464 | 12.49576 | 2.41E-06 | 0.000515 | 5.56397 | 0.41354 | 0.667388 | -0.25385 | 4 | 85648511 | R | II | WDFY3 | Body | opensea | Body-opens | | rs5579855 | 48;36 |
| cg2493700 | 0.210555 | 0.526129 | 12.49535 | 2.41E-06 | 0.000515 | 5.563738 | 0.420851 | 0.631407 | -0.21056 | 17 | 56783942 | F | II | RAD51C | Body | opensea | Body-opens | | rs5504479 | 29 |
| cg1495224 | 0.219388 | 0.624306 | 12.49419 | 2.41E-06 | 0.000515 | 5.563068 | 0.514612 | 0.734 | -0.21939 | 12 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs1834661 | 32;23;1 |
| cg2108053 | 0.224569 | 0.514207 | 12.49278 | 2.41E-06 | 0.000515 | 5.562258 | 0.401923 | 0.626492 | -0.22457 | 6 | 49755105 | R | II | PGK2 | TSS200 | opensea | TSS200-ope | | rs1470929 | 49;33;18 |
| cg1213475 | 0.23816 | 0.419045 | 12.49271 | 2.41E-06 | 0.000515 | 5.562219 | 0.299965 | 0.538125 | -0.23816 | 19 | 5249431 | R | II | PTPRS | Body | shore | Body-shore | chr19:525 | | |
| cg0327843 | 0.200946 | 0.54 | 12.49117 | 2.41E-06 | 0.000515 | 5.561328 | 0.439526 | 0.640473 | -0.20095 | 4 | 1.83E+08 | R | II | | IGR | opensea | IGR-opense | | rs5444408 | 47;27 |
| cg1568714 | 0.205882 | 0.522156 | 12.48854 | 2.42E-06 | 0.000515 | 5.559816 | 0.419215 | 0.625097 | -0.20588 | 4 | 91570600 | F | II | FAM190A | Body | opensea | Body-opens | | rs5290941 | 1;47 |
| cg0355697 | 0.246435 | 0.557998 | 12.48751 | 2.42E-06 | 0.000515 | 5.55922 | 0.43478 | 0.681215 | -0.24643 | 13 | 24249366 | F | II | TNFRSF19 | 3'UTR | opensea | 3'UTR-open | | rs5426259 | 0 |
| cg0951245 | 0.217757 | 0.46521 | 12.48728 | 2.42E-06 | 0.000515 | 5.559091 | 0.356332 | 0.574088 | -0.21776 | 11 | 62120239 | R | II | ASRGL1 | Body | opensea | Body-opens | | | |
| cg1020569 | 0.204774 | 0.597685 | 12.486 | 2.42E-06 | 0.000515 | 5.558348 | 0.495298 | 0.700072 | -0.20477 | 3 | 1.73E+08 | R | II | NLGN1 | Body | opensea | Body-opens | | rs6776920 | 50;1 |
| cg0429245 | 0.228971 | 0.521562 | 12.48508 | 2.42E-06 | 0.000515 | 5.55782 | 0.407076 | 0.636047 | -0.22897 | 5 | 14444521 | R | II | TRIO | Body | opensea | Body-opens | | rs5448693 | 39;16 |
| cg1645512 | 0.202692 | 0.482575 | 12.48497 | 2.42E-06 | 0.000515 | 5.557759 | 0.381229 | 0.583921 | -0.20269 | 19 | 54903669 | F | II | | IGR | opensea | IGR-opense | | rs5679651 | 14;15;36 |
| cg1004051 | 0.201082 | 0.466119 | 12.48408 | 2.42E-06 | 0.000515 | 5.557244 | 0.365578 | 0.56666 | -0.20108 | 2 | 2.06E+08 | F | II | PARD3B | Body | opensea | Body-opens | | rs1413005 | 13;16 |
| cg1264556 | 0.264082 | 0.4391 | 12.47896 | 2.43E-06 | 0.000516 | 5.554295 | 0.307059 | 0.571141 | -0.26408 | 1 | 51339561 | R | II | FAF1 | Body | opensea | Body-opens | | rs1921246 | 37;2 |
| cg1748173 | 0.202864 | 0.542883 | 12.47789 | 2.43E-06 | 0.000516 | 5.553674 | 0.441451 | 0.644315 | -0.20286 | 11 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs1807190 | 24;14 |
| cg0959775 | 0.242602 | 0.410443 | 12.47733 | 2.43E-06 | 0.000516 | 5.553351 | 0.289142 | 0.531744 | -0.2426 | 14 | 74162875 | R | II | DNAL1 | 3'UTR | opensea | 3'UTR-open | | rs8003105 | 32;30;27 |
| cg0828850 | 0.218432 | 0.620501 | 12.47702 | 2.43E-06 | 0.000516 | 5.553172 | 0.511285 | 0.729717 | -0.21843 | 3 | 16889869 | F | II | | IGR | opensea | IGR-opense | | rs5722420 | 14;41 |
| cg2664967 | 0.203645 | 0.494674 | 12.47159 | 2.44E-06 | 0.000516 | 5.55004 | 0.392852 | 0.596497 | -0.20365 | 2 | 2.29E+08 | R | II | SLC19A3 | 3'UTR | opensea | 3'UTR-open | | rs1129571 | 50;29 |
| cg0897367 | 0.200001 | 0.372167 | 12.4677 | 2.45E-06 | 0.000517 | 5.547795 | 0.272167 | 0.472168 | -0.2 | 3 | 87210807 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1039390 | 0.202352 | 0.530198 | 12.4673 | 2.45E-06 | 0.000517 | 5.547567 | 0.429023 | 0.631374 | -0.20235 | 12 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5428273 | 0;18 |
| cg1555249 | 0.20922 | 0.469008 | 12.46148 | 2.46E-06 | 0.000518 | 5.544202 | 0.364398 | 0.573618 | -0.20922 | 2 | 1.02E+08 | R | II | MAP4K4 | Body | opensea | Body-opens | | rs5380878 | 2 |
| cg0016345 | 0.275269 | 0.562105 | 12.4596 | 2.46E-06 | 0.000518 | 5.543119 | 0.42447 | 0.699739 | -0.27527 | 20 | 10411528 | R | II | MKKS | 5'UTR | shelf | 5'UTR-shelf | chr20:104 | | |
| cg1946604 | 0.239532 | 0.454322 | 12.45685 | 2.46E-06 | 0.000518 | 5.541532 | 0.334556 | 0.574088 | -0.23953 | 12 | 1.19E+08 | F | II | TAOK3 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0239230 | 0.207988 | 0.393278 | 12.45581 | 2.47E-06 | 0.000518 | 5.54093 | 0.289284 | 0.497272 | -0.20799 | 10 | 99781741 | F | II | CRTAC1 | Body | opensea | Body-opens | | rs5558096 | 3;23;49 |
| cg1559208 | 0.237297 | 0.512323 | 12.45335 | 2.47E-06 | 0.000518 | 5.539507 | 0.393674 | 0.630971 | -0.2373 | 16 | 49683803 | R | II | ZNF423 | Body | opensea | Body-opens | | rs7593493 | 37;25 |
| cg1450006 | 0.219897 | 0.66865 | 12.45086 | 2.47E-06 | 0.000518 | 5.538071 | 0.558702 | 0.778599 | -0.2199 | 5 | 82656554 | F | II | | IGR | opensea | IGR-opense | | rs1480356 | 11;31;39;46 |
| cg1377996 | 0.210725 | 0.553228 | 12.45083 | 2.47E-06 | 0.000518 | 5.538052 | 0.447866 | 0.658591 | -0.21072 | 6 | 17903072 | R | II | KIF13A | Body | opensea | Body-opens | | rs5383663 | 46;1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0627179 | 0.213381 | 0.621143 | 12.44768 | 2.48E-06 | 0.000519 | 5.53623 | 0.514452 | 0.727833 | -0.21338 | 1 | 84409003 | F | II | TTLL7 | Body | opensea | Body-opens | | rs7646997 | 46;51 |
| cg1969380 | 0.207074 | 0.643129 | 12.44719 | 2.48E-06 | 0.000519 | 5.535946 | 0.539592 | 0.746666 | -0.20707 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | opensea | TSS1500-op | | rs5747966 | 34;11;1 |
| cg2230094 | 0.250403 | 0.541894 | 12.44503 | 2.48E-06 | 0.000519 | 5.534696 | 0.416692 | 0.667095 | -0.2504 | 3 | 35710038 | F | II | ARPP21 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2104493 | 0.214199 | 0.52488 | 12.44265 | 2.48E-06 | 0.000519 | 5.533323 | 0.41778 | 0.63198 | -0.2142 | 14 | 58442152 | F | II | | IGR | opensea | IGR-opense | | rs5449148 | 0;11;25;37 |
| cg2663244 | 0.250156 | 0.463162 | 12.44105 | 2.49E-06 | 0.00052 | 5.532396 | 0.338084 | 0.58824 | -0.25016 | 11 | 18302340 | F | II | HPS5 | Body | opensea | Body-opens | | | |
| cg0834360 | 0.26319 | 0.501879 | 12.43946 | 2.49E-06 | 0.00052 | 5.531472 | 0.370284 | 0.633474 | -0.26319 | 10 | 43894095 | F | II | HNRNPF | 5'UTR | shore | 5'UTR-shor | chr10:4385 | rs5523722 | 1;13;17;37 |
| cg2103363 | 0.259234 | 0.528491 | 12.43734 | 2.49E-06 | 0.00052 | 5.530245 | 0.398874 | 0.658107 | -0.25923 | 5 | 64486421 | F | II | ADAMTS6 | Body | opensea | Body-opens | | rs5699740 | 1;22 |
| cg0449678 | 0.240996 | 0.497538 | 12.43618 | 2.49E-06 | 0.00052 | 5.529578 | 0.37704 | 0.618036 | -0.241 | 3 | 31741190 | F | II | OSBPL10 | Body | opensea | Body-opens | | rs1130016 | 37 |
| cg0075719 | 0.26821 | 0.430957 | 12.43574 | 2.49E-06 | 0.00052 | 5.52932 | 0.296853 | 0.565062 | -0.26821 | 3 | 1.85E+08 | F | II | IGF2BP2 | Body | opensea | Body-opens | | rs1811918 | 1 |
| cg0928642 | 0.225735 | 0.467096 | 12.43357 | 2.5E-06 | 0.00052 | 5.528067 | 0.354229 | 0.579964 | -0.22574 | 4 | 55339975 | F | II | | IGR | opensea | IGR-opense | | rs1414050 | 0;1;20 |
| cg0691891 | 0.205693 | 0.555117 | 12.43331 | 2.5E-06 | 0.00052 | 5.527917 | 0.452271 | 0.657964 | -0.20569 | 10 | 11547855 | R | II | USP6NL | Body | opensea | Body-opens | | rs5579903 | 34;1 |
| cg1678976 | 0.228999 | 0.398346 | 12.43162 | 2.5E-06 | 0.00052 | 5.526938 | 0.283847 | 0.512846 | -0.229 | 14 | 89066213 | F | II | ZC3H14 | Body | opensea | Body-opens | | rs7145665 | 48 |
| cg1951536 | 0.260771 | 0.523776 | 12.43002 | 2.5E-06 | 0.00052 | 5.526007 | 0.39339 | 0.654161 | -0.26077 | 3 | 1.56E+08 | R | II | KCNAB1 | Body | opensea | Body-opens | | rs5580411 | 37;36;12;2;1 |
| cg1174325 | 0.247048 | 0.508282 | 12.4299 | 2.5E-06 | 0.00052 | 5.525942 | 0.384758 | 0.631806 | -0.24705 | 4 | 14784843 | F | II | LINC00504 | Body | opensea | Body-opens | | rs5578152 | 0;40;50 |
| cg2547879 | 0.245118 | 0.617235 | 12.42646 | 2.51E-06 | 0.00052 | 5.523945 | 0.494676 | 0.739794 | -0.24512 | 8 | 1.41E+08 | R | II | TRAPPC9 | Body | opensea | Body-opens | | rs5703298 | 34;30;10 |
| cg1090054 | 0.22304 | 0.568329 | 12.41919 | 2.52E-06 | 0.000521 | 5.519734 | 0.456809 | 0.679849 | -0.22304 | 4 | 1.69E+08 | R | II | PALLD | Body | opensea | Body-opens | | rs1127052 | 2 |
| cg0808941 | 0.207767 | 0.608147 | 12.41916 | 2.52E-06 | 0.000521 | 5.519718 | 0.504263 | 0.71203 | -0.20777 | 7 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0010324 | 0.212288 | 0.601808 | 12.41735 | 2.52E-06 | 0.000521 | 5.518668 | 0.495664 | 0.707952 | -0.21229 | 1 | 2.37E+08 | R | II | RYR2 | Body | opensea | Body-opens | | rs5638006 | 29;21 |
| cg0434091 | 0.23324 | 0.506804 | 12.41547 | 2.52E-06 | 0.000521 | 5.517576 | 0.390185 | 0.623424 | -0.23324 | 8 | 19577028 | R | II | | IGR | opensea | IGR-opense | | rs1495708 | 42 |
| cg2528383 | 0.242189 | 0.536256 | 12.4127 | 2.53E-06 | 0.000521 | 5.515968 | 0.415161 | 0.65735 | -0.24219 | 11 | 92132845 | R | II | FAT3 | Body | opensea | Body-opens | | | |
| cg0188619 | 0.202733 | 0.512253 | 12.41148 | 2.53E-06 | 0.000521 | 5.515259 | 0.410886 | 0.613619 | -0.20273 | 13 | 73976090 | R | II | | IGR | opensea | IGR-opense | | rs1147952 | 12;3;1 |
| cg0668961 | 0.234635 | 0.668711 | 12.41056 | 2.53E-06 | 0.000521 | 5.514725 | 0.551394 | 0.786029 | -0.23463 | 4 | 99935464 | R | II | METAP1 | Body | opensea | Body-opens | | rs5309003 | 29;2;1 |
| cg1953867 | 0.220691 | 0.536598 | 12.4096 | 2.53E-06 | 0.000521 | 5.514173 | 0.426253 | 0.646944 | -0.22069 | 3 | 27575726 | F | II | | IGR | opensea | IGR-opense | | rs3737936 | 13;32;33 |
| cg1460992 | 0.210018 | 0.466089 | 12.40537 | 2.54E-06 | 0.000522 | 5.511718 | 0.36108 | 0.571098 | -0.21002 | 1 | 2.2E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0106085 | 0.223554 | 0.447959 | 12.40147 | 2.54E-06 | 0.000522 | 5.509452 | 0.336182 | 0.559736 | -0.22355 | 6 | 37227779 | R | II | TBC1D22B | Body | shelf | Body-shelf | chr6:3722 | | |
| cg2251201 | 0.22576 | 0.480548 | 12.40021 | 2.55E-06 | 0.000522 | 5.508722 | 0.367668 | 0.593428 | -0.22576 | 13 | 77402717 | F | II | | IGR | opensea | IGR-opense | | rs1473678 | 0;1 |
| cg2144677 | 0.215174 | 0.55146 | 12.3977 | 2.55E-06 | 0.000522 | 5.507264 | 0.443873 | 0.659047 | -0.21517 | 2 | 2.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs5305531 | 2 |
| cg1520078 | 0.20877 | 0.520322 | 12.39446 | 2.56E-06 | 0.000523 | 5.505378 | 0.415937 | 0.624707 | -0.20877 | 10 | 79285311 | R | II | KCNMA1 | Body | opensea | Body-opens | | | |
| cg2488790 | 0.202975 | 0.58608 | 12.39423 | 2.56E-06 | 0.000523 | 5.505243 | 0.484593 | 0.687568 | -0.20298 | 12 | 4124630 | F | II | | IGR | opensea | IGR-opense | | rs5618800 | 4;14 |
| cg2101092 | 0.208418 | 0.628453 | 12.39296 | 2.56E-06 | 0.000523 | 5.504506 | 0.524245 | 0.732662 | -0.20842 | 11 | 44659065 | F | II | | IGR | opensea | IGR-opense | | rs1390885 | 0 |
| cg2255650 | 0.246123 | 0.479453 | 12.38881 | 2.56E-06 | 0.000523 | 5.502094 | 0.356392 | 0.602515 | -0.24612 | 7 | 1.48E+08 | R | II | CNTNAP2 | Body | opensea | Body-opens | | rs5278384 | 48;2 |
| cg1487909 | 0.276103 | 0.545629 | 12.38747 | 2.57E-06 | 0.000523 | 5.501317 | 0.407578 | 0.683681 | -0.2761 | 1 | 1.85E+08 | F | II | FAM129A | Body | opensea | Body-opens | | rs5294297 | 1;4;11;24;44 |
| cg0701441 | 0.219573 | 0.366244 | 12.38361 | 2.57E-06 | 0.000523 | 5.49907 | 0.256458 | 0.47603 | -0.21957 | 2 | 38396113 | R | II | CYP1B1-AS | Body | opensea | Body-opens | | rs5480533 | 25;1 |
| cg0946822 | 0.201448 | 0.387245 | 12.3813 | 2.58E-06 | 0.000524 | 5.497725 | 0.286521 | 0.487969 | -0.20145 | 2 | 2.32E+08 | R | II | | IGR | opensea | IGR-opense | | rs3714545 | 50;5 |
| cg1884269 | 0.206791 | 0.568422 | 12.37924 | 2.58E-06 | 0.000524 | 5.496527 | 0.465026 | 0.671817 | -0.20679 | 11 | 60112913 | F | II | | IGR | opensea | IGR-opense | | rs3724330 | 20;38 |
| cg1297382 | 0.210184 | 0.566646 | 12.37868 | 2.58E-06 | 0.000524 | 5.496203 | 0.461555 | 0.671738 | -0.21018 | 10 | 73795916 | F | II | | IGR | opensea | IGR-opense | | rs5462227 | 1 |
| cg2534578 | 0.206916 | 0.375548 | 12.37719 | 2.58E-06 | 0.000524 | 5.495337 | 0.27209 | 0.479005 | -0.20692 | 8 | 50425076 | F | II | | IGR | opensea | IGR-opense | | rs1327952 | 1;16;41 |
| cg1074958 | 0.208217 | 0.590457 | 12.37524 | 2.58E-06 | 0.000524 | 5.494199 | 0.486349 | 0.694566 | -0.20822 | 7 | 80253343 | R | II | CD36 | 5'UTR | opensea | 5'UTR-open | | rs5513450 | 19;17;14 |
| cg0560042 | 0.227391 | 0.551183 | 12.37478 | 2.59E-06 | 0.000524 | 5.493932 | 0.437488 | 0.664879 | -0.22739 | 11 | 30597981 | F | II | MPPED2 | Body | opensea | Body-opens | | rs5697113 | 0 |
| cg2178638 | 0.200263 | 0.370602 | 12.37466 | 2.59E-06 | 0.000524 | 5.493861 | 0.270471 | 0.470734 | -0.20026 | 5 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | | rs5457259 | 51 |
| cg2605851 | 0.205763 | 0.536245 | 12.36751 | 2.6E-06 | 0.000525 | 5.489701 | 0.433363 | 0.639127 | -0.20576 | 15 | 88260042 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0840302 | 0.224714 | 0.593299 | 12.36527 | 2.6E-06 | 0.000525 | 5.488393 | 0.480942 | 0.705656 | -0.22471 | 15 | 65361131 | F | II | RASL12 | TSS1500 | shore | TSS1500-sh | chr15:653 | rs5352876 | 10;16;41;47 |
| cg1838544 | 0.24868 | 0.419003 | 12.36448 | 2.6E-06 | 0.000525 | 5.487935 | 0.294663 | 0.543343 | -0.24868 | 10 | 1.06E+08 | R | II | GSTO2 | TSS1500 | shore | TSS1500-sh | chr10:106 | rs5625682 | 24;15;13 |
| cg0880667 | 0.223182 | 0.563143 | 12.36307 | 2.6E-06 | 0.000525 | 5.487109 | 0.451552 | 0.674733 | -0.22318 | 10 | 80383717 | F | II | | IGR | opensea | IGR-opense | | rs1418948 | 1;38;44 |
| cg2389549 | 0.220283 | 0.495515 | 12.36202 | 2.6E-06 | 0.000525 | 5.486502 | 0.385373 | 0.605656 | -0.22028 | 7 | 47539837 | F | II | TNS3 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0048206 | 0.211553 | 0.628561 | 12.36139 | 2.61E-06 | 0.000525 | 5.486135 | 0.522784 | 0.734337 | -0.21155 | 1 | 61478983 | F | II | | IGR | opensea | IGR-opense | | rs1486563 | 23;29 |
| cg0932503 | 0.243934 | 0.486739 | 12.36026 | 2.61E-06 | 0.000525 | 5.485476 | 0.364772 | 0.608706 | -0.24393 | 17 | 32307434 | R | II | ASIC2 | Body | opensea | Body-opens | | rs5307188 | 37;36;2 |
| cg0255072 | 0.201134 | 0.48105 | 12.36001 | 2.61E-06 | 0.000525 | 5.485327 | 0.380484 | 0.581617 | -0.20113 | 6 | 32048679 | F | II | TNXB | Body | shore | Body-shore | chr6:3204 | rs1389520 | 1 |
| cg2044907 | 0.224741 | 0.489844 | 12.35992 | 2.61E-06 | 0.000525 | 5.485276 | 0.377473 | 0.602214 | -0.22474 | 7 | 10658637 | F | II | | IGR | opensea | IGR-opense | | rs1139827 | 0;10;18;51 |
| cg1323720 | 0.287302 | 0.487719 | 12.35808 | 2.61E-06 | 0.000525 | 5.484202 | 0.344068 | 0.63137 | -0.2873 | 13 | 98192250 | F | II | | IGR | opensea | IGR-opense | | rs5746394 | 1 |
| cg0086445 | 0.207718 | 0.63226 | 12.35435 | 2.62E-06 | 0.000525 | 5.482028 | 0.528401 | 0.736119 | -0.20772 | 8 | 56985462 | R | II | RPS20 | Body | shore | Body-shore | chr8:5698 | rs1164726 | 51;42;13 |
| cg2380665 | 0.251271 | 0.499377 | 12.35203 | 2.62E-06 | 0.000526 | 5.480675 | 0.373741 | 0.625013 | -0.25127 | 7 | 1.11E+08 | R | II | IMMP2L | Body | opensea | Body-opens | | rs1150644 | 46 |
| cg0563579 | 0.206217 | 0.59036 | 12.35121 | 2.62E-06 | 0.000526 | 5.480197 | 0.487252 | 0.693469 | -0.20622 | 18 | 573825 | R | II | | IGR | opensea | IGR-opense | | rs5600412 | 43 |
| cg2710004 | 0.243035 | 0.537942 | 12.34881 | 2.63E-06 | 0.000526 | 5.478796 | 0.416424 | 0.659459 | -0.24304 | 20 | 49311875 | F | II | | IGR | opensea | IGR-opense | | rs5286891 | 0;1;2;26;26;29 |
| cg1268735 | 0.240221 | 0.564837 | 12.34571 | 2.63E-06 | 0.000526 | 5.476989 | 0.444726 | 0.684947 | -0.24022 | 3 | 6937063 | R | II | GRM7-AS2 | TSS1500 | opensea | TSS1500-op | | rs5580675 | 21 |
| cg1803815 | 0.281335 | 0.511564 | 12.34541 | 2.63E-06 | 0.000526 | 5.476812 | 0.370896 | 0.652232 | -0.28134 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1564307 | 0.220577 | 0.51464 | 12.34533 | 2.63E-06 | 0.000526 | 5.476764 | 0.404352 | 0.624929 | -0.22058 | 12 | 22562854 | R | II | | IGR | opensea | IGR-opense | | rs5322045 | 42 |
| cg0687157 | 0.201285 | 0.470421 | 12.34513 | 2.63E-06 | 0.000526 | 5.476648 | 0.369779 | 0.571064 | -0.20129 | 1 | 1.12E+08 | R | II | LINC01160 | Body | opensea | Body-opens | | rs5553117 | 11;2 |
| cg0541703 | 0.234743 | 0.457906 | 12.34371 | 2.63E-06 | 0.000527 | 5.475819 | 0.340534 | 0.575277 | -0.23474 | 2 | 18150633 | F | II | | IGR | opensea | IGR-opense | | rs5776842 | 30 |
| cg0380295 | 0.241732 | 0.512445 | 12.34214 | 2.64E-06 | 0.000527 | 5.474904 | 0.391579 | 0.633311 | -0.24173 | 2 | 45411645 | R | II | LINC01121 | Body | opensea | Body-opens | | rs1703916 | 24;5;1 |
| cg1077746 | 0.221666 | 0.649971 | 12.34051 | 2.64E-06 | 0.000527 | 5.473948 | 0.539138 | 0.760804 | -0.22167 | 5 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0355649 | 0.26673 | 0.56953 | 12.33488 | 2.65E-06 | 0.000528 | 5.470664 | 0.436165 | 0.702895 | -0.26673 | 3 | 1.85E+08 | F | II | EHHADH | Body | opensea | Body-opens | | rs5299869 | 32 |
| cg0601916 | 0.244891 | 0.603591 | 12.33329 | 2.65E-06 | 0.000528 | 5.469735 | 0.481146 | 0.726037 | -0.24489 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1138755 | 49;24 |
| cg0247627 | 0.245291 | 0.604817 | 12.33312 | 2.65E-06 | 0.000528 | 5.469631 | 0.482171 | 0.727462 | -0.24529 | 1 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1842924 | 50 |
| cg1983404 | 0.242951 | 0.538451 | 12.33255 | 2.65E-06 | 0.000528 | 5.469301 | 0.416975 | 0.659926 | -0.24295 | 3 | 1.6E+08 | R | II | SCHIP1 | Body | opensea | Body-opens | | rs5479757 | 49;46;36;19;1 |
| cg1692288 | 0.220131 | 0.496381 | 12.33241 | 2.65E-06 | 0.000528 | 5.469219 | 0.386315 | 0.606446 | -0.22013 | 3 | 14825290 | R | II | | IGR | opensea | IGR-opense | | rs829192 | 38;21;9 |
| cg2423732 | 0.227931 | 0.532526 | 12.33109 | 2.65E-06 | 0.000528 | 5.468444 | 0.41856 | 0.646491 | -0.22793 | 14 | 70007511 | R | II | | IGR | opensea | IGR-opense | | rs1441235 | 27 |
| cg1066239 | 0.260166 | 0.573891 | 12.32967 | 2.65E-06 | 0.000528 | 5.467619 | 0.443808 | 0.703974 | -0.26017 | 1 | 24046776 | R | II | | IGR | opensea | IGR-opense | | rs1150834 | 14;2 |
| cg2025632 | 0.205895 | 0.58252 | 12.32882 | 2.66E-06 | 0.000528 | 5.467119 | 0.479572 | 0.685468 | -0.2059 | 11 | 28679066 | R | II | | IGR | opensea | IGR-opense | | rs1882407 | 14;7 |
| cg0239364 | 0.235696 | 0.457564 | 12.32867 | 2.66E-06 | 0.000528 | 5.467031 | 0.339716 | 0.575412 | -0.2357 | 7 | 1.36E+08 | F | II | LUZP6 | 5'UTR | shore | 5'UTR-shor | chr7:1356 | rs5641132 | 29 |
| cg0078623 | 0.204065 | 0.483373 | 12.32714 | 2.66E-06 | 0.000528 | 5.466137 | 0.381341 | 0.585405 | -0.20406 | 3 | 1.54E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:1541 | rs7798497 | 48;26;23;14;2 |
| cg2313423 | 0.200742 | 0.487504 | 12.32515 | 2.66E-06 | 0.000528 | 5.464975 | 0.387133 | 0.587875 | -0.20074 | 3 | 1.5E+08 | R | II | | IGR | opensea | IGR-opense | | rs5615278 | 37;2;1 |
| cg0039025 | 0.216548 | 0.611953 | 12.31651 | 2.68E-06 | 0.00053 | 5.459917 | 0.503679 | 0.720227 | -0.21655 | 3 | 50241300 | F | II | SLC38A3 | TSS1500 | shore | TSS1500-sh | chr3:5024 | rs5761197 | 0 |
| cg1785788 | 0.210174 | 0.397567 | 12.31441 | 2.68E-06 | 0.00053 | 5.458691 | 0.292481 | 0.502654 | -0.21017 | 19 | 49993008 | R | II | RPL13A | 5'UTR | shore | 5'UTR-shor | chr19:499 | rs5284760 | 42;12;6 |
| cg0538088 | 0.22203 | 0.526454 | 12.31221 | 2.68E-06 | 0.00053 | 5.457402 | 0.415439 | 0.637469 | -0.22203 | 1 | 1.83E+08 | F | II | NMNAT2 | Body | opensea | Body-opens | | rs5776214 | 23 |
| cg2496545 | 0.235914 | 0.543552 | 12.30994 | 2.69E-06 | 0.00053 | 5.456073 | 0.425595 | 0.661509 | -0.23591 | 2 | 7578495 | F | II | LOC10050 | Body | opensea | Body-opens | | rs5498317 | 46 |
| cg1930614 | 0.20827 | 0.595256 | 12.30928 | 2.69E-06 | 0.00053 | 5.455683 | 0.491121 | 0.699391 | -0.20827 | 7 | 1.34E+08 | F | II | EXOC4 | Body | opensea | Body-opens | | rs5314338 | 0 |
| cg1513737 | 0.225318 | 0.517683 | 12.30893 | 2.69E-06 | 0.00053 | 5.455481 | 0.405023 | 0.630342 | -0.22532 | 12 | 23729510 | F | II | SOX5 | Body | opensea | Body-opens | | rs1860090 | 0;1 |
| cg1828500 | 0.229857 | 0.548129 | 12.30711 | 2.69E-06 | 0.00053 | 5.454414 | 0.433201 | 0.663058 | -0.22986 | 10 | 11873962 | R | II | PROSER2 | 5'UTR | opensea | 5'UTR-open | | rs5371935 | 14 |
| cg2454471 | 0.215585 | 0.485697 | 12.30678 | 2.69E-06 | 0.00053 | 5.454222 | 0.377905 | 0.59349 | -0.21558 | 14 | 88339690 | R | II | | IGR | opensea | IGR-opense | | rs5602415 | 48 |
| cg2395696 | 0.20483 | 0.549083 | 12.30597 | 2.69E-06 | 0.00053 | 5.453745 | 0.446668 | 0.651498 | -0.20483 | 7 | 79758274 | F | II | | IGR | opensea | IGR-opense | | rs5459771 | 0 |
| cg1482573 | 0.237685 | 0.485278 | 12.30553 | 2.69E-06 | 0.00053 | 5.453486 | 0.366436 | 0.604121 | -0.23768 | 5 | 1.42E+08 | R | II | FGF1 | TSS1500 | opensea | TSS1500-op | | | |
| cg1407641 | 0.215168 | 0.5994 | 12.30421 | 2.7E-06 | 0.00053 | 5.452714 | 0.491816 | 0.706984 | -0.21517 | 5 | 43412601 | F | II | CCL28 | TSS200 | opensea | TSS200-ope | | rs3750556 | 3;7;27;34;51 |
| cg2025600 | 0.206695 | 0.671997 | 12.30399 | 2.7E-06 | 0.00053 | 5.452586 | 0.568649 | 0.775344 | -0.2067 | 1 | 1.53E+08 | F | II | S100A8 | 5'UTR | opensea | 5'UTR-open | | rs1495738 | 1;27;42 |
| cg1641519 | 0.220811 | 0.668711 | 12.29909 | 2.7E-06 | 0.000531 | 5.449712 | 0.558305 | 0.779116 | -0.22081 | 17 | 33408053 | R | II | RFFL | Body | opensea | Body-opens | | rs1828087 | 31 |
| cg0017029 | 0.206268 | 0.471043 | 12.29724 | 2.71E-06 | 0.000531 | 5.448632 | 0.367909 | 0.574177 | -0.20627 | 6 | 46720370 | F | II | LOC10028 | Body | opensea | Body-opens | | rs1817823 | 0 |
| cg0790031 | 0.24423 | 0.607542 | 12.29696 | 2.71E-06 | 0.000531 | 5.448465 | 0.485427 | 0.729657 | -0.24423 | 22 | 36362528 | R | II | RBFOX2 | Body | opensea | Body-opens | | rs5418011 | 51;27;4;1 |
| cg0376422 | 0.22834 | 0.517414 | 12.29558 | 2.71E-06 | 0.000531 | 5.44766 | 0.403245 | 0.631584 | -0.22834 | 20 | 30942880 | F | II | | IGR | shelf | IGR-shelf | chr20:309 | rs1437152 | 26;38 |
| cg1230017 | 0.245085 | 0.508877 | 12.28666 | 2.72E-06 | 0.000532 | 5.442424 | 0.386335 | 0.63142 | -0.24508 | 3 | 70362865 | R | II | | IGR | opensea | IGR-opense | | rs5688947 | 51;29;24;21;1 |
| cg1647310 | 0.232974 | 0.539595 | 12.28417 | 2.73E-06 | 0.000533 | 5.440961 | 0.423108 | 0.656082 | -0.23297 | 5 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs5610944 | 1;23;30 |
| cg0693457 | 0.208021 | 0.630089 | 12.28358 | 2.73E-06 | 0.000533 | 5.440614 | 0.526078 | 0.734099 | -0.20802 | 2 | 9458925 | R | II | ASAP2 | Body | shore | Body-shore | chr2:9459 | | |
| cg0131990 | 0.233848 | 0.666414 | 12.28333 | 2.73E-06 | 0.000533 | 5.440472 | 0.54949 | 0.783338 | -0.23385 | 1 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0424368 | 0.234655 | 0.634274 | 12.2812 | 2.73E-06 | 0.000533 | 5.43922 | 0.516946 | 0.751601 | -0.23466 | 6 | 86395706 | F | II | | IGR | opensea | IGR-opense | | rs5544356 | 0;1;7;25;39 |
| cg0276710 | 0.209644 | 0.640319 | 12.2811 | 2.73E-06 | 0.000533 | 5.439161 | 0.535497 | 0.745141 | -0.20964 | 10 | 34793792 | F | II | PARD3 | Body | opensea | Body-opens | | rs5367342 | 0;41;42;43 |
| cg1669858 | 0.252207 | 0.580304 | 12.27989 | 2.73E-06 | 0.000533 | 5.438452 | 0.454201 | 0.706407 | -0.25221 | 9 | 1.08E+08 | R | II | | IGR | shelf | IGR-shelf | chr9:1077 | | |
| cg0281326 | 0.229539 | 0.540774 | 12.27958 | 2.73E-06 | 0.000533 | 5.438265 | 0.426005 | 0.655544 | -0.22954 | 2 | 10670665 | R | II | | IGR | shelf | IGR-shelf | chr2:1066 | rs1641139 | 49;1 |
| cg1400128 | 0.226494 | 0.531996 | 12.2795 | 2.74E-06 | 0.000533 | 5.438219 | 0.418749 | 0.645243 | -0.22649 | 14 | 72978188 | F | II | RGS6 | Body | opensea | Body-opens | | rs1883641 | 15;29;37 |
| cg0665891 | 0.200745 | 0.606135 | 12.27683 | 2.74E-06 | 0.000533 | 5.436651 | 0.505762 | 0.706507 | -0.20074 | 6 | 1.18E+08 | R | II | ROS1 | TSS1500 | opensea | TSS1500-op | | rs1475969 | 1 |
| cg0002527 | 0.205026 | 0.591446 | 12.27607 | 2.74E-06 | 0.000533 | 5.436206 | 0.488933 | 0.693958 | -0.20503 | 11 | 17429271 | R | II | ABCC8 | Body | opensea | Body-opens | | rs5732361 | 50;8;1 |
| cg2513297 | 0.24542 | 0.632035 | 12.27162 | 2.75E-06 | 0.000534 | 5.433591 | 0.509325 | 0.754745 | -0.24542 | 12 | 94403370 | R | II | | IGR | opensea | IGR-opense | | rs1924857 | 35 |
| cg2366092 | 0.202084 | 0.569045 | 12.27128 | 2.75E-06 | 0.000534 | 5.43339 | 0.468002 | 0.670087 | -0.20208 | 1 | 2.42E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:2420 | rs5758907 | 0;1;13;14 |
| cg2249308 | 0.2076 | 0.634006 | 12.2671 | 2.76E-06 | 0.000535 | 5.430933 | 0.530206 | 0.737807 | -0.2076 | 5 | 1.58E+08 | R | II | EBF1 | Body | opensea | Body-opens | | rs5387253 | 31;2 |
| cg0871775 | 0.216121 | 0.444665 | 12.26534 | 2.76E-06 | 0.000535 | 5.429898 | 0.336604 | 0.552726 | -0.21612 | 13 | 37881008 | F | II | | IGR | opensea | IGR-opense | | rs1912434 | 1;44 |
| cg0715804 | 0.228777 | 0.564995 | 12.26425 | 2.76E-06 | 0.000535 | 5.42926 | 0.450606 | 0.679383 | -0.22878 | 2 | 1.91E+08 | R | II | HIBCH | TSS1500 | shore | TSS1500-sh | chr2:1911 | | |
| cg2270285 | 0.203996 | 0.409891 | 12.26311 | 2.76E-06 | 0.000535 | 5.428588 | 0.307893 | 0.511889 | -0.204 | 12 | 4269985 | R | II | | IGR | shelf | IGR-shelf | chr12:427 | rs5466354 | 6;1 |
| cg1102966 | 0.244584 | 0.53274 | 12.261 | 2.77E-06 | 0.000536 | 5.427347 | 0.410448 | 0.655032 | -0.24458 | 11 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs5676464 | 0;1;32 |
| cg1911501 | 0.209289 | 0.530326 | 12.25989 | 2.77E-06 | 0.000536 | 5.426693 | 0.425682 | 0.634971 | -0.20929 | 11 | 15229502 | F | II | INSC | Body | opensea | Body-opens | | rs7675458 | 33 |
| cg0386177 | 0.235437 | 0.571214 | 12.25728 | 2.77E-06 | 0.000536 | 5.425156 | 0.453496 | 0.688932 | -0.23544 | 3 | 31796070 | F | II | OSBPL10 | Body | opensea | Body-opens | | rs5748557 | 20 |
| cg1606257 | 0.213063 | 0.383079 | 12.25607 | 2.77E-06 | 0.000536 | 5.424444 | 0.276547 | 0.48961 | -0.21306 | 12 | 69491491 | F | II | | IGR | opensea | IGR-opense | | rs3717578 | 1;47 |
| cg0142010 | 0.255844 | 0.506703 | 12.25602 | 2.77E-06 | 0.000536 | 5.424415 | 0.378781 | 0.634625 | -0.25584 | 5 | 94237541 | R | II | MCTP1 | Body | opensea | Body-opens | | rs1440062 | 13;2 |
| cg1603809 | 0.20087 | 0.57005 | 12.25535 | 2.77E-06 | 0.000536 | 5.424023 | 0.469615 | 0.670486 | -0.20087 | 15 | 79087784 | R | II | ADAMTS7 | Body | opensea | Body-opens | | | |
| cg2453800 | 0.236743 | 0.587984 | 12.25501 | 2.78E-06 | 0.000536 | 5.423819 | 0.469612 | 0.706356 | -0.23674 | 1 | 17558947 | R | II | PADI1 | Body | opensea | Body-opens | | rs5626957 | 39;30;29;2 |
| cg0265937 | 0.269913 | 0.648779 | 12.25299 | 2.78E-06 | 0.000536 | 5.422632 | 0.513823 | 0.783736 | -0.26991 | 2 | 1.91E+08 | F | II | PMS1 | ExonBnd | opensea | ExonBnd-op | | | |
| cg0390213 | 0.210192 | 0.621044 | 12.25042 | 2.78E-06 | 0.000536 | 5.421121 | 0.515949 | 0.72614 | -0.21019 | 3 | 13672669 | R | II | FBLN2 | Body | opensea | Body-opens | | rs5566371 | 51;50;41;2 |
| cg0675529 | 0.237002 | 0.536865 | 12.24955 | 2.78E-06 | 0.000536 | 5.420604 | 0.418364 | 0.655366 | -0.237 | 15 | 98199925 | F | II | | IGR | shelf | IGR-shelf | chr15:981 | rs7999971 | 15;19 |
| cg0461659 | 0.20963 | 0.56061 | 12.24567 | 2.79E-06 | 0.000537 | 5.418322 | 0.455795 | 0.665425 | -0.20963 | 8 | 50042978 | R | II | | IGR | opensea | IGR-opense | | rs5632845 | 34;6 |
| cg2237196 | 0.238726 | 0.476012 | 12.24393 | 2.79E-06 | 0.000537 | 5.417294 | 0.356649 | 0.595375 | -0.23873 | 1 | 1.69E+08 | F | II | NME7 | Body | opensea | Body-opens | | rs5699895 | 0;1 |
| cg1035105 | 0.208634 | 0.547429 | 12.2439 | 2.79E-06 | 0.000537 | 5.417281 | 0.443112 | 0.651746 | -0.20863 | 5 | 39703340 | F | II | | IGR | opensea | IGR-opense | | rs5773205 | 2;29 |
| cg2570899 | 0.206253 | 0.576515 | 12.23746 | 2.8E-06 | 0.000538 | 5.413481 | 0.473388 | 0.679641 | -0.20625 | 1 | 2.03E+08 | F | II | PRELP | TSS1500 | opensea | TSS1500-op | | rs5530721 | 50 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0179622 | 0.236555 | 0.603257 | 12.23574 | 2.81E-06 | 0.000538 | 5.412465 | 0.48498 | 0.721535 | -0.23656 | 11 | 89954258 | R | II | CHORDC1 | Body | shore | Body-shore | chr11:899 | rs5706306 | 47;44;37;28;26;6 |
| cg2013488 | 0.218818 | 0.451993 | 12.23569 | 2.81E-06 | 0.000538 | 5.412439 | 0.342584 | 0.561402 | -0.21882 | 7 | 5622551 | F | II | | IGR | opensea | IGR-opense | | rs5409319 | 0;1 |
| cg2461595 | 0.213903 | 0.397419 | 12.23156 | 2.81E-06 | 0.000539 | 5.410003 | 0.290468 | 0.504371 | -0.2139 | 17 | 29253798 | R | II | ADAP2 | Body | shelf | Body-shelf | chr17:292 | rs4402375 | 7 |
| cg2089185 | 0.2211 | 0.632743 | 12.22915 | 2.82E-06 | 0.000539 | 5.40858 | 0.522193 | 0.743293 | -0.2211 | 10 | 1.19E+08 | R | II | SHTN1 | Body | opensea | Body-opens | | rs5321389 | 47;15;2 |
| cg2757160 | 0.208153 | 0.514008 | 12.22828 | 2.82E-06 | 0.000539 | 5.408069 | 0.409931 | 0.618084 | -0.20815 | 10 | 80722277 | R | II | ZMIZ1-AS1 | Body | opensea | Body-opens | | rs7563087 | 17;16;2 |
| cg0891979 | 0.239217 | 0.453332 | 12.22354 | 2.83E-06 | 0.00054 | 5.405268 | 0.333724 | 0.572941 | -0.23922 | 1 | 1.74E+08 | F | II | RABGAP1L | 5'UTR | opensea | 5'UTR-open | | | |
| cg0664451 | 0.217834 | 0.389214 | 12.21981 | 2.83E-06 | 0.000541 | 5.403066 | 0.280297 | 0.49813 | -0.21783 | 1 | 1.74E+08 | R | II | SNORD47 | TSS1500 | shelf | TSS1500-sh | chr1:1738 | rs5368350 | 15 |
| cg0875273 | 0.242298 | 0.438388 | 12.21798 | 2.84E-06 | 0.000541 | 5.401985 | 0.31724 | 0.559537 | -0.2423 | 22 | 32313898 | F | II | | IGR | opensea | IGR-opense | | rs5339811 | 28;35;43 |
| cg1526895 | 0.200055 | 0.42035 | 12.21547 | 2.84E-06 | 0.000541 | 5.400504 | 0.320322 | 0.520377 | -0.20005 | 2 | 1.89E+08 | F | II | GULP1 | Body | opensea | Body-opens | | rs5755538 | 26 |
| cg0141639 | 0.235949 | 0.43484 | 12.21455 | 2.84E-06 | 0.000541 | 5.399961 | 0.316865 | 0.552814 | -0.23595 | 20 | 55806433 | R | II | BMP7 | Body | opensea | Body-opens | | rs5555885 | 36;14 |
| cg2354251 | 0.217122 | 0.539415 | 12.21161 | 2.85E-06 | 0.000542 | 5.398222 | 0.430854 | 0.647976 | -0.21712 | 7 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5408492 | 2 |
| cg0224285 | 0.246352 | 0.581036 | 12.21052 | 2.85E-06 | 0.000542 | 5.39758 | 0.45786 | 0.704212 | -0.24635 | 10 | 13768464 | F | II | FRMD4A | Body | opensea | Body-opens | | | |
| cg1244399 | 0.206424 | 0.524657 | 12.20727 | 2.86E-06 | 0.000542 | 5.395658 | 0.421445 | 0.627868 | -0.20642 | 10 | 52610612 | R | II | A1CF | Body | opensea | Body-opens | | rs5371524 | 22;3 |
| cg1775502 | 0.238958 | 0.589534 | 12.20421 | 2.86E-06 | 0.000543 | 5.393851 | 0.470055 | 0.709013 | -0.23896 | 3 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs5613843 | 14;18;46;47 |
| cg1817038 | 0.211565 | 0.523393 | 12.19526 | 2.88E-06 | 0.000544 | 5.388554 | 0.417611 | 0.629175 | -0.21156 | 10 | 330411 | F | II | DIP2C | Body | opensea | Body-opens | | rs5610125 | 2;25 |
| cg2440171 | 0.256821 | 0.522577 | 12.19233 | 2.88E-06 | 0.000545 | 5.386819 | 0.394166 | 0.650987 | -0.25682 | 9 | 71532723 | F | II | PIP5K1B | Body | opensea | Body-opens | | rs1398280 | 1;16;31 |
| cg0865681 | 0.235735 | 0.370794 | 12.19085 | 2.88E-06 | 0.000545 | 5.385945 | 0.252926 | 0.488661 | -0.23573 | 17 | 34207454 | R | II | CCL5 | TSS200 | opensea | TSS200-ope | | rs2280788 | 51;50 |
| cg0521588 | 0.219898 | 0.589723 | 12.19035 | 2.88E-06 | 0.000545 | 5.385649 | 0.479774 | 0.699672 | -0.2199 | 15 | 58670807 | R | II | | IGR | opensea | IGR-opense | | rs5281284 | 16;14;1 |
| cg1809126 | 0.245548 | 0.601247 | 12.18979 | 2.89E-06 | 0.000545 | 5.385318 | 0.478473 | 0.724021 | -0.24555 | 17 | 63822838 | R | II | CCDC46 | TSS200 | opensea | TSS200-ope | | rs5713764 | 14;12;10;9;2;1 |
| cg0501921 | 0.203837 | 0.432558 | 12.18567 | 2.89E-06 | 0.000545 | 5.382877 | 0.330639 | 0.534476 | -0.20384 | 22 | 33343603 | F | II | SYN3 | Body | opensea | Body-opens | | rs5635371 | 11 |
| cg1171126 | 0.228436 | 0.535625 | 12.18531 | 2.89E-06 | 0.000545 | 5.382661 | 0.421407 | 0.649843 | -0.22844 | 19 | 528571 | F | II | | IGR | shelf | IGR-shelf | chr19:531 | rs5740459 | 0;20;33 |
| cg2427808 | 0.20482 | 0.609228 | 12.18508 | 2.89E-06 | 0.000545 | 5.382525 | 0.506818 | 0.711637 | -0.20482 | 11 | 65904369 | R | II | PACS1 | Body | opensea | Body-opens | | rs5650765 | 2 |
| cg0923660 | 0.226378 | 0.380235 | 12.18162 | 2.9E-06 | 0.000546 | 5.380473 | 0.267046 | 0.493424 | -0.22638 | 7 | 35559711 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0969010 | 0.216992 | 0.431615 | 12.18046 | 2.9E-06 | 0.000546 | 5.379788 | 0.323119 | 0.540111 | -0.21699 | 4 | 14603924 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2572386 | 0.201543 | 0.629675 | 12.17919 | 2.9E-06 | 0.000546 | 5.379038 | 0.528904 | 0.730446 | -0.20154 | 15 | 50483002 | F | II | SLC27A2 | Body | opensea | Body-opens | | rs5668995 | 51 |
| cg2666567 | 0.205011 | 0.553539 | 12.1787 | 2.9E-06 | 0.000546 | 5.378747 | 0.451034 | 0.656045 | -0.20501 | 5 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | | rs5485519 | 32;44 |
| cg1984081 | 0.211214 | 0.498876 | 12.17776 | 2.91E-06 | 0.000546 | 5.378186 | 0.393269 | 0.604483 | -0.21121 | 10 | 80764672 | F | II | ZMIZ1-AS1 | Body | opensea | Body-opens | | | |
| cg0796525 | 0.250566 | 0.525478 | 12.17556 | 2.91E-06 | 0.000546 | 5.376883 | 0.400195 | 0.650761 | -0.25057 | 15 | 38342973 | R | II | LOC101928 | Body | opensea | Body-opens | | | |
| cg0541049 | 0.204128 | 0.471636 | 12.1746 | 2.91E-06 | 0.000546 | 5.376311 | 0.369572 | 0.5737 | -0.20413 | 6 | 56825978 | R | II | BEND6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2009047 | 0.205458 | 0.469586 | 12.1726 | 2.91E-06 | 0.000546 | 5.375126 | 0.366857 | 0.572315 | -0.20546 | 2 | 9403086 | R | II | ASAP2 | Body | opensea | Body-opens | | rs5320819 | 33 |
| cg1837953 | 0.217095 | 0.417058 | 12.17176 | 2.92E-06 | 0.000546 | 5.374632 | 0.30851 | 0.525605 | -0.21709 | 20 | 17973048 | F | II | | IGR | opensea | IGR-opense | | rs5660656 | 12 |
| cg2691356 | 0.261361 | 0.576276 | 12.17014 | 2.92E-06 | 0.000546 | 5.37367 | 0.445595 | 0.706956 | -0.26136 | 5 | 1.73E+08 | F | II | C5orf41 | Body | opensea | Body-opens | | rs5624478 | 15;21 |
| cg2303242 | 0.208791 | 0.502722 | 12.16969 | 2.92E-06 | 0.000546 | 5.373399 | 0.398326 | 0.607117 | -0.20879 | 3 | 3152038 | F | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | rs5736176 | 6 |
| cg0744005 | 0.204661 | 0.347628 | 12.16752 | 2.92E-06 | 0.000546 | 5.372114 | 0.245297 | 0.449958 | -0.20466 | 17 | 69899186 | R | II | | IGR | opensea | IGR-opense | | rs9898912 | 35;24 |
| cg1531947 | 0.248254 | 0.515692 | 12.16686 | 2.92E-06 | 0.000546 | 5.371723 | 0.391565 | 0.639819 | -0.24825 | 12 | 62546183 | R | II | FAM19A2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2580792 | 0.220283 | 0.607604 | 12.16661 | 2.93E-06 | 0.000546 | 5.371572 | 0.497463 | 0.717745 | -0.22028 | 14 | 47663593 | R | II | MDGA2 | Body | opensea | Body-opens | | rs1455626 | 48;41;36;16;6 |
| cg2639179 | 0.235601 | 0.419946 | 12.16608 | 2.93E-06 | 0.000546 | 5.371258 | 0.302146 | 0.537747 | -0.2356 | 13 | 49323899 | R | II | | IGR | opensea | IGR-opense | | rs1917753 | 40 |
| cg0195007 | 0.221815 | 0.469225 | 12.16515 | 2.93E-06 | 0.000546 | 5.370708 | 0.358317 | 0.580133 | -0.22182 | 6 | 1.1E+08 | F | II | | IGR | shore | IGR-shore | chr6:1096 | rs3700363 | 16;29;37 |
| cg1170089 | 0.248238 | 0.482404 | 12.1642 | 2.93E-06 | 0.000546 | 5.370143 | 0.358285 | 0.606523 | -0.24824 | 7 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0785156 | 0.273308 | 0.537373 | 12.16367 | 2.93E-06 | 0.000546 | 5.36983 | 0.400719 | 0.674026 | -0.27331 | 18 | 48695911 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2145022 | 0.204167 | 0.654055 | 12.16364 | 2.93E-06 | 0.000546 | 5.369813 | 0.551971 | 0.756138 | -0.20417 | 3 | 23727711 | R | II | | IGR | opensea | IGR-opense | | rs5640644 | 2 |
| cg1873597 | 0.238349 | 0.485458 | 12.16058 | 2.94E-06 | 0.000546 | 5.367993 | 0.366283 | 0.604632 | -0.23835 | 1 | 2.08E+08 | R | II | CD46 | Body | shelf | Body-shelf | chr1:2079 | rs1178757 | 26;1 |
| cg0932086 | 0.227054 | 0.634582 | 12.1603 | 2.94E-06 | 0.000546 | 5.367829 | 0.521055 | 0.748109 | -0.22705 | 5 | 1.09E+08 | R | II | | IGR | shore | IGR-shore | chr5:1092 | rs1890273 | 2;1 |
| cg0496677 | 0.217962 | 0.572944 | 12.15856 | 2.94E-06 | 0.000546 | 5.366795 | 0.463963 | 0.681925 | -0.21796 | 20 | 35483358 | F | II | SOGA1 | Body | opensea | Body-opens | | rs3768439 | 0 |
| cg0332694 | 0.241463 | 0.610122 | 12.15625 | 2.94E-06 | 0.000546 | 5.365423 | 0.489391 | 0.730854 | -0.24146 | 9 | 1E+08 | F | II | LOC28635 | TSS1500 | opensea | TSS1500-op | | rs5340745 | 1;5;45 |
| cg0192661 | 0.215973 | 0.416114 | 12.15586 | 2.94E-06 | 0.000546 | 5.365192 | 0.308127 | 0.524101 | -0.21597 | 11 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5650529 | 0 |
| cg2007303 | 0.205045 | 0.551951 | 12.15554 | 2.94E-06 | 0.000546 | 5.364998 | 0.449429 | 0.654474 | -0.20504 | 16 | 8774580 | F | II | ABAT | 5'UTR | opensea | 5'UTR-open | | rs5518878 | 7 |
| cg2509012 | 0.260069 | 0.537504 | 12.15491 | 2.95E-06 | 0.000546 | 5.364627 | 0.407469 | 0.667539 | -0.26007 | 17 | 43407096 | R | II | | IGR | opensea | IGR-opense | | rs5696653 | 40;39;1 |
| cg0593990 | 0.218608 | 0.522763 | 12.15458 | 2.95E-06 | 0.000546 | 5.36443 | 0.413459 | 0.632067 | -0.21861 | 11 | 45346903 | R | II | | IGR | opensea | IGR-opense | | rs5518508 | 44;2 |
| cg0212291 | 0.206158 | 0.657535 | 12.15255 | 2.95E-06 | 0.000546 | 5.363225 | 0.554456 | 0.760614 | -0.20616 | 2 | 30359207 | R | II | | IGR | opensea | IGR-opense | | rs5507642 | 23 |
| cg0842731 | 0.203749 | 0.618538 | 12.14947 | 2.96E-06 | 0.000547 | 5.361394 | 0.516664 | 0.720413 | -0.20375 | 4 | 1.42E+08 | F | II | RNF150 | Body | opensea | Body-opens | | rs5696306 | 0;10;18 |
| cg0823910 | 0.203061 | 0.55444 | 12.14535 | 2.96E-06 | 0.000547 | 5.358942 | 0.452909 | 0.65597 | -0.20306 | 11 | 16623818 | F | II | | IGR | shelf | IGR-shelf | chr11:166 | rs5465365 | 1;39 |
| cg0009078 | 0.20963 | 0.550506 | 12.1452 | 2.96E-06 | 0.000547 | 5.358855 | 0.445691 | 0.655321 | -0.20963 | 15 | 66795345 | R | II | RPL4 | Body | opensea | Body-opens | | rs5646791 | 50;32 |
| cg2389809 | 0.23995 | 0.628644 | 12.14476 | 2.96E-06 | 0.000547 | 5.358595 | 0.508669 | 0.748619 | -0.23995 | 6 | 1.67E+08 | R | II | | IGR | opensea | IGR-opense | | rs5578234 | 2 |
| cg1992710 | 0.207975 | 0.499048 | 12.14453 | 2.96E-06 | 0.000547 | 5.358459 | 0.39506 | 0.603035 | -0.20797 | 15 | 68902085 | R | II | CORO2B | Body | opensea | Body-opens | | rs5333926 | 49;15;2 |
| cg0085442 | 0.219566 | 0.570402 | 12.14449 | 2.96E-06 | 0.000547 | 5.358431 | 0.460619 | 0.680185 | -0.21957 | 7 | 65520870 | R | II | | IGR | opensea | IGR-opense | | rs5778363 | 39 |
| cg1358352 | 0.200536 | 0.565613 | 12.14393 | 2.97E-06 | 0.000547 | 5.358102 | 0.465345 | 0.665882 | -0.20054 | 5 | 24764190 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0603513 | 0.206492 | 0.476777 | 12.13972 | 2.97E-06 | 0.000548 | 5.355598 | 0.373531 | 0.580023 | -0.20649 | 8 | 93108556 | F | II | RUNX1T1 | TSS1500 | opensea | TSS1500-op | | rs5609561 | 15 |
| cg2346182 | 0.255009 | 0.578695 | 12.13712 | 2.98E-06 | 0.000548 | 5.354049 | 0.451191 | 0.7062 | -0.25501 | 7 | 1.35E+08 | R | II | CALD1 | Body | opensea | Body-opens | | | |
| cg1989077 | 0.201012 | 0.662263 | 12.13449 | 2.98E-06 | 0.000548 | 5.352481 | 0.561757 | 0.762768 | -0.20101 | 11 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs1121227 | 41;3 |
| cg2232520 | 0.210499 | 0.469394 | 12.13425 | 2.98E-06 | 0.000548 | 5.352342 | 0.364145 | 0.574644 | -0.2105 | 20 | 48785237 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2469337 | 0.216969 | 0.605211 | 12.13327 | 2.98E-06 | 0.000548 | 5.351758 | 0.496726 | 0.713695 | -0.21697 | 10 | 77541764 | R | II | C10orf11 | TSS1500 | opensea | TSS1500-op | | rs1862959 | 11;2;1 |
| cg0966893 | 0.235338 | 0.557725 | 12.13007 | 2.99E-06 | 0.000549 | 5.349852 | 0.440056 | 0.675394 | -0.23534 | 1 | 49196418 | F | II | BEND5 | Body | opensea | Body-opens | | | |
| cg0680522 | 0.210791 | 0.587612 | 12.12961 | 2.99E-06 | 0.000549 | 5.349579 | 0.482217 | 0.693008 | -0.21079 | 12 | 1.31E+08 | F | II | RIMBP2 | 5'UTR | opensea | 5'UTR-open | | rs5522926 | 0;37;46 |
| cg1313973 | 0.200369 | 0.618316 | 12.12835 | 2.99E-06 | 0.000549 | 5.34883 | 0.518132 | 0.7185 | -0.20037 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | rs5450720 | 1;22;32 |
| cg0801055 | 0.207291 | 0.455191 | 12.1276 | 2.99E-06 | 0.000549 | 5.348381 | 0.351545 | 0.558837 | -0.20729 | 22 | 26146031 | R | II | MYO18B | 5'UTR | opensea | 5'UTR-open | | rs1447005 | 24 |
| cg2195874 | 0.231671 | 0.553926 | 12.125 | 3E-06 | 0.000549 | 5.346831 | 0.438091 | 0.669761 | -0.23167 | 12 | 79832188 | F | II | SYT1 | Body | opensea | Body-opens | | | |
| cg2070167 | 0.229786 | 0.418033 | 12.12407 | 3E-06 | 0.000549 | 5.34628 | 0.30314 | 0.532927 | -0.22979 | 2 | 64782942 | F | II | AFTPH | Body | opensea | Body-opens | | rs5682482 | 9;20 |
| cg0238148 | 0.20732 | 0.513849 | 12.12395 | 3E-06 | 0.000549 | 5.346204 | 0.410189 | 0.617509 | -0.20732 | 10 | 80679729 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0742707 | 0.2778 | 0.481477 | 12.12293 | 3E-06 | 0.000549 | 5.345599 | 0.342577 | 0.620377 | -0.2778 | 3 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs5750090 | 10 |
| cg1950469 | 0.217489 | 0.514203 | 12.12196 | 3E-06 | 0.000549 | 5.345024 | 0.405458 | 0.622948 | -0.21749 | 10 | 98474121 | R | II | PIK3AP1 | Body | opensea | Body-opens | | rs5557920 | 33;33;19 |
| cg0763889 | 0.249841 | 0.474905 | 12.12162 | 3.01E-06 | 0.000549 | 5.344816 | 0.349984 | 0.599825 | -0.24984 | 5 | 1.24E+08 | R | II | ZNF608 | Body | opensea | Body-opens | | rs5313074 | 31 |
| cg2344467 | 0.232893 | 0.534221 | 12.12117 | 3.01E-06 | 0.000549 | 5.344548 | 0.417774 | 0.650667 | -0.23289 | 9 | 96617890 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0017471 | 0.215157 | 0.514657 | 12.11938 | 3.01E-06 | 0.00055 | 5.343486 | 0.407079 | 0.622236 | -0.21516 | 6 | 47136110 | R | II | | IGR | opensea | IGR-opense | | rs5596330 | 41;5;2 |
| cg0192938 | 0.217716 | 0.51999 | 12.11808 | 3.01E-06 | 0.00055 | 5.34271 | 0.411132 | 0.628848 | -0.21772 | 12 | 71631626 | F | II | | IGR | opensea | IGR-opense | | rs7539868 | 1;20 |
| cg0364650 | 0.207039 | 0.510269 | 12.11705 | 3.01E-06 | 0.00055 | 5.342092 | 0.406749 | 0.613788 | -0.20704 | 3 | 16145303 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2709656 | 0.247135 | 0.566219 | 12.11563 | 3.02E-06 | 0.00055 | 5.341249 | 0.442651 | 0.689787 | -0.24714 | 1 | 33419301 | R | II | RNF19B | Body | opensea | Body-opens | | rs5327542 | 2;1 |
| cg0720394 | 0.205368 | 0.664066 | 12.11195 | 3.02E-06 | 0.00055 | 5.339055 | 0.561382 | 0.76675 | -0.20537 | 4 | 99976972 | R | II | METAP1 | Body | opensea | Body-opens | | rs3678976 | 16;1 |
| cg1311613 | 0.210417 | 0.598986 | 12.11144 | 3.02E-06 | 0.00055 | 5.33875 | 0.493777 | 0.704194 | -0.21042 | 12 | 51582638 | R | II | POU6F1 | 3'UTR | opensea | 3'UTR-open | | rs5439318 | 50;43;14 |
| cg1017229 | 0.220793 | 0.632069 | 12.10665 | 3.03E-06 | 0.00055 | 5.335889 | 0.521673 | 0.742465 | -0.22079 | 2 | 2.01E+08 | F | II | SPATS2L | 5'UTR | opensea | 5'UTR-open | | | |
| cg0519290 | 0.209227 | 0.562459 | 12.10596 | 3.03E-06 | 0.00055 | 5.335479 | 0.457845 | 0.667072 | -0.20923 | 6 | 25910691 | R | II | | IGR | opensea | IGR-opense | | rs7671058 | 36;2;1 |
| cg1583832 | 0.206097 | 0.631338 | 12.10489 | 3.04E-06 | 0.00055 | 5.334839 | 0.52829 | 0.734387 | -0.2061 | 20 | 49461129 | R | II | BCAS4 | Body | shelf | Body-shelf | chr20:4944 | rs1873228 | 44;7 |
| cg2119784 | 0.207274 | 0.678413 | 12.10473 | 3.04E-06 | 0.00055 | 5.334747 | 0.574776 | 0.78205 | -0.20727 | 8 | 86959593 | R | II | | IGR | opensea | IGR-opense | | rs5749833 | 46;7;2 |
| cg1359080 | 0.217783 | 0.436984 | 12.10446 | 3.04E-06 | 0.00055 | 5.334582 | 0.328093 | 0.545876 | -0.21778 | 18 | 57369634 | R | II | | IGR | opensea | IGR-opense | | rs5288077 | 1 |
| cg2047508 | 0.21573 | 0.604116 | 12.10311 | 3.04E-06 | 0.00055 | 5.333778 | 0.496251 | 0.711981 | -0.21573 | 2 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | rs1390073 | 2 |
| cg0919961 | 0.240566 | 0.437716 | 12.10286 | 3.04E-06 | 0.00055 | 5.33363 | 0.317432 | 0.557999 | -0.24057 | 5 | 56946761 | R | II | LOC101928 | Body | opensea | Body-opens | | rs5338328 | 1 |
| cg2071048 | 0.2158 | 0.614861 | 12.09643 | 3.05E-06 | 0.000551 | 5.329789 | 0.506961 | 0.722761 | -0.2158 | 4 | 42462320 | R | II | ATP8A1 | Body | opensea | Body-opens | | rs1118653 | 13;3;1 |
| cg2509657 | 0.226646 | 0.650194 | 12.09515 | 3.05E-06 | 0.000552 | 5.329023 | 0.536871 | 0.763517 | -0.22665 | 14 | 74937693 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1406739 | 0.234502 | 0.494627 | 12.09489 | 3.05E-06 | 0.000552 | 5.328867 | 0.377376 | 0.611878 | -0.2345 | 22 | 37644539 | F | II | | IGR | opensea | IGR-opense | | rs1504825 | 0 |
| cg2557668 | 0.215602 | 0.63567 | 12.09244 | 3.06E-06 | 0.000552 | 5.327406 | 0.527869 | 0.743471 | -0.2156 | 6 | 1.32E+08 | R | II | ENPP3 | Body | opensea | Body-opens | | rs1492663 | 43;40;39;18;17;10 |
| cg0893605 | 0.203981 | 0.60137 | 12.08901 | 3.06E-06 | 0.000553 | 5.325354 | 0.49938 | 0.703361 | -0.20398 | 12 | 4511796 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1106907 | 0.23027 | 0.479784 | 12.0889 | 3.06E-06 | 0.000553 | 5.325291 | 0.364649 | 0.594919 | -0.23027 | 14 | 1.02E+08 | R | II | MIR496 | TSS1500 | opensea | TSS1500-op | | rs1176270 | 43 |
| cg1212026 | 0.279491 | 0.458537 | 12.08663 | 3.07E-06 | 0.000553 | 5.323932 | 0.318791 | 0.598283 | -0.27949 | 5 | 1.26E+08 | F | II | ALDH7A1 | Body | opensea | Body-opens | | rs1437451 | 0;29;32 |
| cg0516987 | 0.21437 | 0.473963 | 12.08035 | 3.08E-06 | 0.000554 | 5.320174 | 0.366778 | 0.581147 | -0.21437 | 12 | 96199841 | F | II | | IGR | opensea | IGR-opense | | rs1736836 | 41 |
| cg0101951 | 0.226831 | 0.590834 | 12.07922 | 3.08E-06 | 0.000554 | 5.3195 | 0.477418 | 0.70425 | -0.22683 | 18 | 36276187 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0561296 | 0.200177 | 0.476298 | 12.0787 | 3.08E-06 | 0.000554 | 5.319189 | 0.376209 | 0.576386 | -0.20018 | 10 | 88106244 | F | II | GRID1 | Body | opensea | Body-opens | | rs1854215 | 1;6;17;19 |
| cg2326487 | 0.208037 | 0.411891 | 12.06508 | 3.11E-06 | 0.000557 | 5.311033 | 0.307873 | 0.51591 | -0.20804 | 13 | 92210112 | R | II | GPC5 | Body | opensea | Body-opens | | rs1469974 | 37 |
| cg0044676 | 0.221403 | 0.55837 | 12.06428 | 3.11E-06 | 0.000557 | 5.310558 | 0.447668 | 0.669072 | -0.2214 | 3 | 1.25E+08 | R | II | MUC13 | 3'UTR | opensea | 3'UTR-open | | rs5483293 | 50;18;2 |
| cg2736557 | 0.248259 | 0.546134 | 12.0642 | 3.11E-06 | 0.000557 | 5.310505 | 0.422005 | 0.670263 | -0.24826 | 2 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | | rs5407420 | 0;18;51 |
| cg1073478 | 0.251062 | 0.491828 | 12.0636 | 3.11E-06 | 0.000557 | 5.310151 | 0.366297 | 0.617359 | -0.25106 | 8 | 19833012 | F | II | | IGR | opensea | IGR-opense | | rs5616270 | 0;14;49 |
| cg0074614 | 0.262798 | 0.60214 | 12.06343 | 3.11E-06 | 0.000557 | 5.310044 | 0.470741 | 0.733539 | -0.2628 | 20 | 39551744 | F | II | | IGR | opensea | IGR-opense | | rs1864539 | 47 |
| cg1517559 | 0.218491 | 0.552643 | 12.05739 | 3.12E-06 | 0.000557 | 5.306426 | 0.443397 | 0.661888 | -0.21849 | 20 | 11833806 | F | II | LINC00687 | Body | opensea | Body-opens | | | |
| cg0314052 | 0.217327 | 0.628353 | 12.0568 | 3.12E-06 | 0.000557 | 5.30607 | 0.51969 | 0.737017 | -0.21733 | 18 | 70663038 | R | II | | IGR | opensea | IGR-opense | | rs5652413 | 34;2 |
| cg2353300 | 0.203933 | 0.625384 | 12.05305 | 3.13E-06 | 0.000557 | 5.303825 | 0.523418 | 0.727351 | -0.20393 | 11 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1103558 | 0.220697 | 0.398658 | 12.05175 | 3.13E-06 | 0.000557 | 5.303043 | 0.288309 | 0.509006 | -0.2207 | 21 | 33613069 | R | II | | IGR | opensea | IGR-opense | | rs1490327 | 1 |
| cg2278616 | 0.209135 | 0.498925 | 12.05154 | 3.13E-06 | 0.000557 | 5.302917 | 0.394357 | 0.603492 | -0.20914 | 7 | 82701979 | R | II | PCLO | Body | opensea | Body-opens | | rs5489647 | 1 |
| cg0016906 | 0.235428 | 0.514651 | 12.05144 | 3.13E-06 | 0.000557 | 5.302857 | 0.396938 | 0.632365 | -0.23543 | 12 | 66089047 | R | II | | IGR | opensea | IGR-opense | | rs1117586 | 27;7 |
| cg2070828 | 0.273959 | 0.567427 | 12.05075 | 3.14E-06 | 0.000557 | 5.302445 | 0.430448 | 0.704407 | -0.27396 | 5 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs1147652 | 1 |
| cg1503632 | 0.2259 | 0.466817 | 12.05063 | 3.14E-06 | 0.000557 | 5.302371 | 0.353867 | 0.579766 | -0.2259 | 17 | 27048708 | F | II | RPL23A | Body | shore | Body-shore | chr17:270 | rs1418104 | 1 |
| cg1581418 | 0.210182 | 0.718516 | 12.04989 | 3.14E-06 | 0.000557 | 5.301931 | 0.613425 | 0.823607 | -0.21018 | 7 | 39726374 | F | II | RALA | ExonBnd | opensea | ExonBnd-op | | | |
| cg1254855 | 0.200584 | 0.634691 | 12.04761 | 3.14E-06 | 0.000557 | 5.300558 | 0.534399 | 0.734983 | -0.20058 | 2 | 42411128 | F | II | EML4 | Body | opensea | Body-opens | | rs1394893 | 0;40;42 |
| cg1441216 | 0.235154 | 0.597356 | 12.04739 | 3.14E-06 | 0.000557 | 5.300429 | 0.479779 | 0.714933 | -0.23515 | 4 | 81957210 | R | II | BMP3 | Body | opensea | Body-opens | | rs1003156 | 26;1 |
| cg2053821 | 0.250902 | 0.58313 | 12.04536 | 3.15E-06 | 0.000557 | 5.29921 | 0.457679 | 0.708581 | -0.2509 | 4 | 58027287 | R | II | | IGR | shelf | IGR-shelf | chr4:5802 | rs1493992 | 47;46;35;2 |
| cg1256916 | 0.202785 | 0.538537 | 12.04205 | 3.15E-06 | 0.000557 | 5.297225 | 0.437144 | 0.639929 | -0.20279 | 3 | 1.75E+08 | R | II | NAALADL2 | TSS1500 | opensea | TSS1500-op | | | |
| cg1770905 | 0.245289 | 0.503836 | 12.04187 | 3.15E-06 | 0.000557 | 5.297117 | 0.381192 | 0.62648 | -0.24529 | 4 | 95238351 | F | II | HPGDS | Body | opensea | Body-opens | | rs5526325 | 5;22 |
| cg0231666 | 0.218106 | 0.687738 | 12.04187 | 3.15E-06 | 0.000557 | 5.297113 | 0.578684 | 0.796791 | -0.21811 | 3 | 1.82E+08 | R | II | | IGR | opensea | IGR-opense | | rs923341;r | 49;42;1 |
| cg1048965 | 0.200002 | 0.385393 | 12.04164 | 3.15E-06 | 0.000557 | 5.296978 | 0.285392 | 0.485394 | -0.2 | 18 | 3512188 | R | II | DLGAP1 | Body | opensea | Body-opens | | | |
| cg0532314 | 0.208722 | 0.568131 | 12.04092 | 3.15E-06 | 0.000557 | 5.296546 | 0.46377 | 0.672492 | -0.20872 | 20 | 52592404 | F | II | BCAS1 | Body | opensea | Body-opens | | rs1899145 | 1;8 |
| cg0799602 | 0.267326 | 0.553334 | 12.04086 | 3.16E-06 | 0.000557 | 5.29651 | 0.419671 | 0.686997 | -0.26733 | 12 | 6270392 | R | II | | IGR | opensea | IGR-opense | | rs5383760 | 44;43;28;22;13 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1342383 | 0.263861 | 0.46737 | 12.04077 | 3.16E-06 | 0.000557 | 5.296456 | 0.335439 | 0.5993 | -0.26386 | 10 | 4818881 | F | II | | IGR | opensea | IGR-opense | | rs1408021 | 31 |
| cg0792195 | 0.217977 | 0.652935 | 12.03844 | 3.16E-06 | 0.000557 | 5.295055 | 0.543947 | 0.761924 | -0.21798 | 12 | 14107199 | F | II | GRIN2B | 5'UTR | opensea | 5'UTR-open | | rs5560964 | 19 |
| cg0922012 | 0.212553 | 0.490527 | 12.03535 | 3.17E-06 | 0.000558 | 5.293201 | 0.384251 | 0.596803 | -0.21255 | 1 | 1.17E+08 | F | II | CD58 | Body | opensea | Body-open | | | | | |
| cg0186272 | 0.212735 | 0.643861 | 12.03129 | 3.17E-06 | 0.000559 | 5.290761 | 0.537494 | 0.750229 | -0.21274 | 1 | 1.58E+08 | R | II | CD1D | TSS1500 | shore | TSS1500-sh | chr1:1581! | rs5510497 | 10 | |
| cg1784747 | 0.220681 | 0.519745 | 12.03121 | 3.17E-06 | 0.000559 | 5.29071 | 0.409405 | 0.630086 | -0.22068 | 16 | 78802628 | F | II | WWOX | Body | opensea | Body-open | | rs1460566 | 45 | | |
| cg1973227 | 0.230078 | 0.419499 | 12.03084 | 3.17E-06 | 0.000559 | 5.290492 | 0.30446 | 0.534538 | -0.23008 | 17 | 8856818 | F | II | PIK3R5 | 5'UTR | opensea | 5'UTR-open | | | | | |
| cg0623543 | 0.21818 | 0.445353 | 12.02823 | 3.18E-06 | 0.000559 | 5.288921 | 0.336263 | 0.554443 | -0.21818 | 16 | 30485966 | F | II | ITGAL | Body | shore | Body-shore | chr16:3041 | rs5437776 | 3;47 | | |
| cg2620159 | 0.204316 | 0.482325 | 12.02786 | 3.18E-06 | 0.000559 | 5.288699 | 0.380167 | 0.584483 | -0.20432 | 10 | 766041 | F | II | | IGR | opensea | IGR-opense | | rs5445642 | 18;22;44 | | |
| cg2594416 | 0.224231 | 0.644002 | 12.02533 | 3.18E-06 | 0.000559 | 5.287179 | 0.531886 | 0.756117 | -0.22423 | 2 | 88862221 | F | II | EIF2AK3 | Body | opensea | Body-open | | rs1997527 | 20;40 | | |
| cg2481332 | 0.227451 | 0.477129 | 12.02287 | 3.19E-06 | 0.000559 | 5.285698 | 0.363404 | 0.590855 | -0.22745 | 12 | 63242527 | F | II | PPM1H | Body | opensea | Body-open | | rs7912170 | 1;40 | | |
| cg2573412 | 0.225604 | 0.672882 | 12.0215 | 3.19E-06 | 0.000559 | 5.284876 | 0.56008 | 0.785684 | -0.2256 | 2 | 1.67E+08 | R | II | LOC10192! | Body | opensea | Body-open | | rs6008473 | 37;2 | | |
| cg0707109 | 0.214264 | 0.5916 | 12.02013 | 3.19E-06 | 0.00056 | 5.284051 | 0.484468 | 0.698732 | -0.21426 | 14 | 58461392 | F | II | | IGR | opensea | IGR-opense | | rs2747095 | 11 | | |
| cg1268281 | 0.265449 | 0.468144 | 12.01724 | 3.2E-06 | 0.00056 | 5.282309 | 0.335419 | 0.600869 | -0.26545 | 2 | 1.69E+08 | R | II | STK39 | Body | opensea | Body-open | | rs1861657 | 42 | | |
| cg1115656 | 0.23489 | 0.460331 | 12.01689 | 3.2E-06 | 0.00056 | 5.282102 | 0.342886 | 0.577776 | -0.23489 | 17 | 42816286 | R | II | DBF4B | Body | opensea | Body-open | | rs1495850 | 38;15 | | |
| cg0585947 | 0.214885 | 0.540297 | 12.01621 | 3.2E-06 | 0.00056 | 5.281694 | 0.432855 | 0.647739 | -0.21488 | 21 | 42600919 | F | II | BACE2 | Body | opensea | Body-open | | rs5976047 | 15;51 | | |
| cg1722059 | 0.20614 | 0.587018 | 12.00688 | 3.22E-06 | 0.000562 | 5.276076 | 0.483949 | 0.690088 | -0.20614 | 4 | 26522849 | R | II | | IGR | opensea | IGR-opense | | rs5767219 | 2 | | |
| cg1959835 | 0.204645 | 0.635278 | 12.00669 | 3.22E-06 | 0.000562 | 5.275958 | 0.532955 | 0.7376 | -0.20465 | 20 | 33556046 | F | II | MYH7B | 5'UTR | opensea | 5'UTR-open | | rs5312238 | 0 | | |
| cg1908300 | 0.208342 | 0.636919 | 12.00299 | 3.23E-06 | 0.000563 | 5.27373 | 0.532748 | 0.741091 | -0.20834 | 6 | 46293862 | R | II | RCAN2 | TSS1500 | opensea | TSS1500-op | | rs1155800 | 49;25 | | |
| cg1630950 | 0.20009 | 0.579968 | 12.00189 | 3.23E-06 | 0.000563 | 5.273066 | 0.479923 | 0.680013 | -0.20009 | 12 | 60651018 | F | II | | IGR | opensea | IGR-opense | | rs5403461 | 19;49 | | |
| cg1018119 | 0.210857 | 0.530891 | 12.00172 | 3.23E-06 | 0.000563 | 5.272964 | 0.425462 | 0.636319 | -0.21086 | 1 | 56840643 | R | II | | IGR | opensea | IGR-opense | | rs1437660 | 48 | | |
| cg0245852 | 0.218028 | 0.622507 | 12.0014 | 3.23E-06 | 0.000563 | 5.272774 | 0.513493 | 0.731521 | -0.21803 | 14 | 24166813 | R | II | | IGR | opensea | IGR-opense | | rs6071922 | 50;35;1 | | |
| cg0789347 | 0.203803 | 0.528012 | 11.99918 | 3.24E-06 | 0.000563 | 5.271431 | 0.42611 | 0.629913 | -0.2038 | 3 | 1.96E+08 | R | II | C3orf43 | TSS200 | opensea | TSS200-ope | | rs5492922 | 1 | | |
| cg1587121 | 0.202602 | 0.565779 | 11.99815 | 3.24E-06 | 0.000563 | 5.270815 | 0.464478 | 0.66708 | -0.2026 | 7 | 37939591 | R | II | NME8 | 3'UTR | opensea | 3'UTR-open | | rs5691420 | 3;2;1 | | |
| cg0909719 | 0.24294 | 0.432298 | 11.994 | 3.25E-06 | 0.000564 | 5.26831 | 0.310829 | 0.553768 | -0.24294 | 22 | 26145960 | R | II | MYO18B | 5'UTR | opensea | 5'UTR-open | | rs5439446 | 2 | | |
| cg0129997 | 0.240807 | 0.593403 | 11.99277 | 3.25E-06 | 0.000564 | 5.267568 | 0.473 | 0.713807 | -0.24081 | 1 | 1.87E+08 | R | II | | IGR | opensea | IGR-opense | | rs5354874 | 50;1 | | |
| cg0857356 | 0.204452 | 0.485056 | 11.98976 | 3.25E-06 | 0.000565 | 5.265753 | 0.38283 | 0.587282 | -0.20445 | 6 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs9457586 | 18;33 | | |
| cg0135953 | 0.233642 | 0.456588 | 11.98973 | 3.25E-06 | 0.000565 | 5.265733 | 0.339767 | 0.573409 | -0.23364 | 15 | 75045126 | F | II | CYP1A2 | Body | opensea | Body-open | | rs5685129 | 13;19;22 | | |
| cg2082131 | 0.252891 | 0.48948 | 11.98869 | 3.26E-06 | 0.000565 | 5.265108 | 0.363035 | 0.615926 | -0.25289 | 2 | 10950732 | F | II | PDIA6 | Body | shore | Body-shore | chr2:1095: | rs1136054 | 10 | | |
| cg1027487 | 0.241138 | 0.297094 | 11.98545 | 3.26E-06 | 0.000566 | 5.26315 | 0.176525 | 0.417663 | -0.24114 | 18 | 57469286 | F | II | | IGR | opensea | IGR-opense | | rs5566038 | 0;2;34;47 | | |
| cg1695968 | 0.261129 | 0.548178 | 11.98107 | 3.27E-06 | 0.000566 | 5.260511 | 0.417613 | 0.678742 | -0.26113 | 12 | 77350297 | R | II | | IGR | opensea | IGR-opense | | rs7754387 | 32;8 | | |
| cg1456679 | 0.201229 | 0.619814 | 11.97966 | 3.27E-06 | 0.000566 | 5.259656 | 0.519199 | 0.720428 | -0.20123 | 20 | 20186234 | R | II | CFAP61 | Body | opensea | Body-open | | | | | |
| cg0093423 | 0.203829 | 0.653234 | 11.97833 | 3.28E-06 | 0.000567 | 5.258854 | 0.55132 | 0.755149 | -0.20383 | 8 | 1.04E+08 | R | II | BAALC | Body | opensea | Body-open | | rs5275041 | 2;1 | | |
| cg1927272 | 0.209455 | 0.493808 | 11.97381 | 3.29E-06 | 0.000567 | 5.256123 | 0.38908 | 0.598535 | -0.20946 | 1 | 2.04E+08 | R | II | PLEKHA6 | 5'UTR | opensea | 5'UTR-open | | rs3704024 | 23 | | |
| cg0182513 | 0.213166 | 0.509887 | 11.97318 | 3.29E-06 | 0.000567 | 5.255744 | 0.403305 | 0.61647 | -0.21317 | 9 | 38360365 | F | II | | IGR | opensea | IGR-opense | | rs1392485 | 1;40 | | |
| cg1729397 | 0.22321 | 0.601713 | 11.973 | 3.29E-06 | 0.000567 | 5.255635 | 0.490108 | 0.713318 | -0.22321 | 2 | 39948248 | F | II | | IGR | opensea | IGR-opense | | rs1832524 | 21 | | |
| cg0908827 | 0.26019 | 0.541301 | 11.97067 | 3.29E-06 | 0.000568 | 5.254228 | 0.411206 | 0.671396 | -0.26019 | 17 | 25609077 | F | II | | IGR | opensea | IGR-opense | | rs4794872 | 20 | | |
| cg1293727 | 0.234071 | 0.575793 | 11.97044 | 3.29E-06 | 0.000568 | 5.254085 | 0.458757 | 0.692828 | -0.23407 | 7 | 47925161 | R | II | PKD1L1 | Body | opensea | Body-open | | rs5546554 | 51;36 | | |
| cg0878600 | 0.258147 | 0.584917 | 11.97007 | 3.29E-06 | 0.000568 | 5.253861 | 0.455844 | 0.713991 | -0.25815 | 1 | 1.58E+08 | R | II | FCRL3 | TSS200 | opensea | TSS200-ope | | rs1893792 | 50;2;1 | | |
| cg2508595 | 0.206957 | 0.659667 | 11.96793 | 3.3E-06 | 0.000568 | 5.252567 | 0.556188 | 0.763145 | -0.20696 | 1 | 28692779 | R | II | | IGR | shelf | IGR-shelf | chr1:2869( | rs5326994 | 19;1 | | |
| cg0129419 | 0.20638 | 0.467759 | 11.96103 | 3.31E-06 | 0.000569 | 5.248399 | 0.364569 | 0.570949 | -0.20638 | 1 | 71368022 | F | II | PTGER3 | 3'UTR | opensea | 3'UTR-open | | rs1161229 | 45 | | |
| cg2047500 | 0.243493 | 0.594041 | 11.95955 | 3.31E-06 | 0.000569 | 5.2475 | 0.472295 | 0.715788 | -0.24349 | 7 | 1.23E+08 | R | II | WASL | Body | opensea | Body-open | | | | | |
| cg0559687 | 0.201998 | 0.507392 | 11.95892 | 3.32E-06 | 0.000569 | 5.24712 | 0.406393 | 0.608392 | -0.202 | 15 | 29969720 | R | II | | IGR | shelf | IGR-shelf | chr15:299( | rs5522949 | 1 | | |
| cg0249336 | 0.255732 | 0.396848 | 11.95868 | 3.32E-06 | 0.000569 | 5.246978 | 0.268982 | 0.524714 | -0.25573 | 19 | 36204278 | R | II | ZBTB32 | 5'UTR | shelf | 5'UTR-shelf | chr19:362( | rs5393570 | 2 | | |
| cg2078184 | 0.235733 | 0.605274 | 11.95854 | 3.32E-06 | 0.000569 | 5.246889 | 0.487407 | 0.72314 | -0.23573 | 19 | 55067917 | F | II | | IGR | opensea | IGR-opense | | rs8111581 | 1;4;16;42 | | |
| cg1325220 | 0.223863 | 0.610771 | 11.95781 | 3.32E-06 | 0.000569 | 5.24645 | 0.49884 | 0.722703 | -0.22386 | 8 | 16970768 | R | II | EFHA2 | Body | opensea | Body-open | | rs5663466 | 33;7 | | |
| cg0030562 | 0.206093 | 0.578053 | 11.9571 | 3.32E-06 | 0.000569 | 5.24602 | 0.475007 | 0.6811 | -0.20609 | 19 | 2237672 | F | II | PLEKHJ1 | TSS1500 | shore | TSS1500-sh | chr19:223( | rs5701175 | 28;39 | | |
| cg0732047 | 0.211752 | 0.640834 | 11.95605 | 3.32E-06 | 0.000569 | 5.245383 | 0.534958 | 0.74671 | -0.21175 | 7 | 41857293 | R | II | | IGR | opensea | IGR-opense | | rs7928731 | 51;36;1 | | |
| cg2207053 | 0.217168 | 0.637299 | 11.95439 | 3.32E-06 | 0.000569 | 5.244382 | 0.528714 | 0.745883 | -0.21717 | 4 | 1.78E+08 | F | II | | IGR | opensea | IGR-opense | | | | | |
| cg0978165 | 0.207655 | 0.483136 | 11.95338 | 3.33E-06 | 0.000569 | 5.243768 | 0.379308 | 0.586963 | -0.20765 | 16 | 66285054 | F | II | | IGR | opensea | IGR-opense | | rs5543153 | 40;43 | | |
| cg2039409 | 0.230452 | 0.466697 | 11.95219 | 3.33E-06 | 0.000569 | 5.243048 | 0.351471 | 0.581923 | -0.23045 | 22 | 26361316 | R | II | MYO18B | Body | opensea | Body-open | | rs5534232 | 10;2 | | |
| cg0956048 | 0.238427 | 0.430235 | 11.9514 | 3.33E-06 | 0.00057 | 5.242566 | 0.311022 | 0.549449 | -0.23843 | 8 | 1.07E+08 | F | II | OXR1 | 5'UTR | opensea | 5'UTR-open | | rs7489222 | 51 | | |
| cg0846287 | 0.20461 | 0.570283 | 11.95034 | 3.33E-06 | 0.00057 | 5.24193 | 0.467978 | 0.672588 | -0.20461 | 1 | 66458116 | F | II | PDE4B | Body | opensea | Body-open | | rs1113486 | 26 | | |
| cg2226401 | 0.21723 | 0.528273 | 11.95011 | 3.33E-06 | 0.00057 | 5.241786 | 0.419658 | 0.636889 | -0.21723 | 18 | 1774470 | F | II | | IGR | opensea | IGR-opense | | rs5412068 | 23;40 | | |
| cg2584009 | 0.219495 | 0.551392 | 11.9501 | 3.33E-06 | 0.00057 | 5.241783 | 0.441645 | 0.66114 | -0.2195 | 1 | 1.97E+08 | R | II | CFHR5 | TSS1500 | opensea | TSS1500-op | | | | | |
| cg0335825 | 0.251881 | 0.519135 | 11.94975 | 3.33E-06 | 0.00057 | 5.241571 | 0.393194 | 0.645075 | -0.25188 | 2 | 1.83E+08 | R | II | PPP1R1C | Body | opensea | Body-open | | rs1146932 | 28;2 | | |
| cg2469383 | 0.209666 | 0.569641 | 11.94492 | 3.34E-06 | 0.000571 | 5.238642 | 0.464808 | 0.674474 | -0.20967 | 7 | 85260179 | R | II | | IGR | opensea | IGR-opense | | rs7370391 | 9 | | |
| cg0050264 | 0.23764 | 0.557521 | 11.94464 | 3.34E-06 | 0.000571 | 5.238477 | 0.438701 | 0.676341 | -0.23764 | 2 | 1.65E+08 | F | II | | IGR | opensea | IGR-opense | | rs5434351 | 29;38 | | |
| cg1006630 | 0.226061 | 0.467298 | 11.94138 | 3.35E-06 | 0.000571 | 5.236497 | 0.354267 | 0.580329 | -0.22606 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-open | | rs5452132 | 35;28;22 | | |
| cg0251038 | 0.202316 | 0.347556 | 11.93954 | 3.35E-06 | 0.000571 | 5.235384 | 0.246398 | 0.448714 | -0.20232 | 2 | 25815015 | R | II | DTNB | Body | opensea | Body-open | | | | | |
| cg1041486 | 0.211237 | 0.590497 | 11.93761 | 3.36E-06 | 0.000571 | 5.234214 | 0.484878 | 0.696115 | -0.21124 | 1 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | | rs1510838 | 36;27 | | |
| cg0936174 | 0.210877 | 0.582242 | 11.93717 | 3.36E-06 | 0.000571 | 5.233949 | 0.476803 | 0.68768 | -0.21088 | 7 | 71682306 | R | II | CALN1 | Body | opensea | Body-open | | rs5673275 | 46 | | |
| cg0855455 | 0.220647 | 0.489913 | 11.93632 | 3.36E-06 | 0.000571 | 5.233433 | 0.37959 | 0.600237 | -0.22065 | 20 | 62330618 | F | II | ARFRP1 | 3'UTR | shelf | 3'UTR-shelf | chr20:623( | rs1930438 | 0;22;33;34 | | |
| cg2702702 | 0.206643 | 0.516947 | 11.93544 | 3.36E-06 | 0.000571 | 5.232898 | 0.413626 | 0.620268 | -0.20664 | 18 | 53756914 | F | II | LINC01539 | Body | opensea | Body-open | | rs5481666 | 0;1;20 | | |
| cg0783346 | 0.253675 | 0.532959 | 11.93537 | 3.36E-06 | 0.000571 | 5.232856 | 0.406121 | 0.659796 | -0.25367 | 12 | 11716844 | R | II | LINC01252 | Body | opensea | Body-open | | rs5761767 | 17;6 | | |
| cg1189979 | 0.232356 | 0.647463 | 11.93521 | 3.36E-06 | 0.000571 | 5.232757 | 0.531285 | 0.763641 | -0.23236 | 18 | 53297089 | F | II | TCF4 | Body | opensea | Body-open | | rs5681957 | 4;8;49 | | |
| cg2417844 | 0.226323 | 0.614996 | 11.93483 | 3.36E-06 | 0.000571 | 5.232532 | 0.501835 | 0.728157 | -0.22632 | 3 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs1828597 | 15 | | |
| cg0668587 | 0.20248 | 0.476327 | 11.92588 | 3.38E-06 | 0.000572 | 5.227099 | 0.375087 | 0.577567 | -0.20248 | 21 | 47170388 | R | II | | IGR | shelf | IGR-shelf | chr21:471( | rs1497875 | 33 | | |
| cg2438565 | 0.231006 | 0.528161 | 11.92523 | 3.38E-06 | 0.000572 | 5.226702 | 0.412658 | 0.643664 | -0.23101 | 10 | 50329828 | R | II | | IGR | opensea | IGR-opense | | rs5742252 | 6 | | |
| cg0551627 | 0.225844 | 0.598424 | 11.92456 | 3.39E-06 | 0.000572 | 5.226297 | 0.485502 | 0.711346 | -0.22584 | 10 | 60237728 | R | II | | IGR | opensea | IGR-opense | | rs5423898 | 11 | | |
| cg1173365 | 0.200563 | 0.60266 | 11.92446 | 3.39E-06 | 0.000572 | 5.226238 | 0.502378 | 0.702941 | -0.20056 | 3 | 1.23E+08 | F | II | ADCY5 | Body | opensea | Body-open | | rs5612065 | 1 | | |
| cg1104932 | 0.22742 | 0.536668 | 11.92343 | 3.39E-06 | 0.000572 | 5.225612 | 0.422958 | 0.650378 | -0.22742 | 8 | 77492619 | F | II | | IGR | opensea | IGR-opense | | rs1905965 | 1;11;22 | | |
| cg0067126 | 0.209493 | 0.465262 | 11.92096 | 3.39E-06 | 0.000572 | 5.224112 | 0.360515 | 0.570008 | -0.20949 | 4 | 21792865 | F | II | KCNIP4 | 5'UTR | opensea | 5'UTR-open | | rs5643437 | 9 | | |
| cg0676046 | 0.211429 | 0.563547 | 11.92009 | 3.39E-06 | 0.000572 | 5.223585 | 0.457832 | 0.669261 | -0.21143 | 6 | 29496514 | F | II | | IGR | opensea | IGR-opense | | rs1395917 | 0;28 | | |
| cg1821172 | 0.217487 | 0.589097 | 11.91993 | 3.4E-06 | 0.000572 | 5.223489 | 0.480353 | 0.697841 | -0.21749 | 18 | 55832105 | R | II | NEDD4L | Body | opensea | Body-open | | rs1824183 | 46;35;28;10 | | |
| cg0785557 | 0.213458 | 0.496981 | 11.91809 | 3.4E-06 | 0.000572 | 5.222371 | 0.390253 | 0.60371 | -0.21346 | 5 | 25393894 | R | II | | IGR | opensea | IGR-opense | | rs5717252 | 28;2;1 | | |
| cg2332475 | 0.230039 | 0.576217 | 11.91793 | 3.4E-06 | 0.000572 | 5.222271 | 0.461198 | 0.691237 | -0.23004 | 18 | 31384904 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg0425408 | 0.202726 | 0.57104 | 11.91585 | 3.4E-06 | 0.000572 | 5.221008 | 0.469677 | 0.672403 | -0.20273 | 13 | 51899383 | R | II | | IGR | opensea | IGR-opense | | rs1470810 | 48 | | |
| cg1902718 | 0.237981 | 0.575561 | 11.91218 | 3.41E-06 | 0.000572 | 5.218779 | 0.45657 | 0.694552 | -0.23798 | 2 | 2.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs5752790 | 3 | | |
| cg2075237 | 0.25226 | 0.452739 | 11.91176 | 3.41E-06 | 0.000572 | 5.218525 | 0.326609 | 0.578869 | -0.25226 | 11 | 34645224 | F | II | EHF | 5'UTR | opensea | 5'UTR-open | | rs1486289 | 37 | | |
| cg2045424 | 0.221881 | 0.59503 | 11.91166 | 3.41E-06 | 0.000572 | 5.218463 | 0.48409 | 0.705971 | -0.22188 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs1875421 | 49 | | |
| cg1097376 | 0.204006 | 0.45383 | 11.91032 | 3.42E-06 | 0.000572 | 5.217647 | 0.351827 | 0.555833 | -0.20401 | 15 | 48625931 | R | II | DUT | Body | shore | Body-shore | chr15:486( | rs1501363 | 43;3 | | |
| cg0924761 | 0.20385 | 0.444366 | 11.91017 | 3.42E-06 | 0.000572 | 5.217558 | 0.342441 | 0.54629 | -0.20385 | 1 | 1.99E+08 | F | II | PTPRC | Body | opensea | Body-open | | rs5658577 | 0;8 | | |
| cg1006804 | 0.226331 | 0.430427 | 11.90971 | 3.42E-06 | 0.000572 | 5.217278 | 0.317262 | 0.543593 | -0.22633 | 20 | 8721036 | F | II | PLCB1 | Body | opensea | Body-open | | rs2021992 | 0 | | |
| cg1366429 | 0.250112 | 0.485632 | 11.90944 | 3.42E-06 | 0.000572 | 5.217111 | 0.360576 | 0.610688 | -0.25011 | 11 | 9587813 | F | II | | IGR | opensea | IGR-opense | | rs1502162 | 0 | | |
| cg2610636 | 0.241078 | 0.537361 | 11.9086 | 3.42E-06 | 0.000572 | 5.216604 | 0.416823 | 0.6579 | -0.24108 | 19 | 38530902 | F | II | SIPA1L3 | 5'UTR | opensea | 5'UTR-open | | | | | |
| cg0165597 | 0.219342 | 0.562146 | 11.90734 | 3.42E-06 | 0.000572 | 5.215838 | 0.452475 | 0.671817 | -0.21934 | 2 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs5776112 | 20 | | |
| cg1410981 | 0.22477 | 0.526128 | 11.90451 | 3.43E-06 | 0.000573 | 5.214119 | 0.413743 | 0.638513 | -0.22477 | 3 | 69963596 | F | II | MITF | Body | opensea | Body-open | | rs5379503 | 0 | | |
| cg0585605 | 0.211898 | 0.615283 | 11.90352 | 3.43E-06 | 0.000573 | 5.213516 | 0.509334 | 0.721232 | -0.2119 | 17 | 3989372 | R | II | ZZEF1 | Body | opensea | Body-open | | | | | |
| cg2722153 | 0.213333 | 0.597307 | 11.90311 | 3.43E-06 | 0.000573 | 5.213263 | 0.490641 | 0.703974 | -0.21333 | 6 | 51154725 | R | II | | IGR | opensea | IGR-opense | | | | | |
| cg0860608 | 0.231989 | 0.500658 | 11.90114 | 3.43E-06 | 0.000573 | 5.212069 | 0.384663 | 0.616652 | -0.23199 | 3 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs5671365 | 13 | | |
| cg2478011 | 0.210752 | 0.580839 | 11.90106 | 3.43E-06 | 0.000573 | 5.212021 | 0.475463 | 0.686215 | -0.21075 | 3 | 1.46E+08 | F | II | | IGR | opensea | IGR-opense | | rs7653582 | 1 | | |
| cg2667824 | 0.269022 | 0.590773 | 11.90036 | 3.44E-06 | 0.000573 | 5.211589 | 0.456262 | 0.725284 | -0.26902 | 4 | 88876673 | R | II | | IGR | opensea | IGR-opense | | rs5613737 | 43;27 | | |
| cg2592475 | 0.204914 | 0.747247 | 11.89985 | 3.44E-06 | 0.000573 | 5.211279 | 0.64479 | 0.849704 | -0.20491 | 3 | 1.94E+08 | F | II | | IGR | opensea | IGR-opense | | rs1461456 | 0;4;11;25;49;50 | | |
| cg0606613 | 0.215176 | 0.648878 | 11.89981 | 3.44E-06 | 0.000573 | 5.211257 | 0.54129 | 0.756466 | -0.21518 | 13 | 24325453 | F | II | MIPEP | Body | opensea | Body-open | | rs1415071 | 24 | | |
| cg2632425 | 0.20952 | 0.402757 | 11.89432 | 3.45E-06 | 0.000574 | 5.207915 | 0.297997 | 0.507517 | -0.20952 | 20 | 40612816 | R | II | | IGR | opensea | IGR-opense | | rs5746162 | 9 | | |
| cg0938427 | 0.209377 | 0.523028 | 11.89051 | 3.46E-06 | 0.000574 | 5.205594 | 0.41834 | 0.627717 | -0.20938 | 1 | 39738033 | F | II | MACF1 | Body | opensea | Body-open | | | | | |
| cg0490660 | 0.241925 | 0.663758 | 11.88974 | 3.46E-06 | 0.000574 | 5.205127 | 0.542795 | 0.78472 | -0.24192 | 15 | 88670452 | F | II | NTRK3 | ExonBnd | opensea | ExonBnd-op | | rs1436171 | 0;1;24;25;29;47 | | |
| cg1351376 | 0.22567 | 0.645654 | 11.88894 | 3.46E-06 | 0.000574 | 5.204642 | 0.53282 | 0.758489 | -0.22567 | 3 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5696451 | 47 | | |
| cg0626699 | 0.234701 | 0.442279 | 11.88891 | 3.46E-06 | 0.000574 | 5.204625 | 0.324929 | 0.55963 | -0.2347 | 2 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | rs1888201 | 18 | | |
| cg0459915 | 0.219483 | 0.65951 | 11.88835 | 3.46E-06 | 0.000574 | 5.204279 | 0.549769 | 0.769252 | -0.21948 | 1 | 50763351 | F | II | | IGR | opensea | IGR-opense | | rs9147760 | 0 | | |
| cg1423115 | 0.21938 | 0.516724 | 11.8869 | 3.46E-06 | 0.000574 | 5.203399 | 0.407034 | 0.626414 | -0.21938 | 1 | 2.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs1457584 | 25 | | |
| cg0075313 | 0.207076 | 0.641595 | 11.88672 | 3.46E-06 | 0.000574 | 5.203288 | 0.538057 | 0.745133 | -0.20708 | 3 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5422065 | 51;11;1 | | |
| cg2181199 | 0.201932 | 0.636212 | 11.88134 | 3.48E-06 | 0.000575 | 5.200012 | 0.535246 | 0.737178 | -0.20193 | 4 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | rs5466790 | 45;1 | | |
| cg0945954 | 0.222066 | 0.619197 | 11.8808 | 3.48E-06 | 0.000575 | 5.199684 | 0.508164 | 0.73023 | -0.22207 | 5 | 1.2E+08 | F | II | PRR16 | Body | opensea | Body-open | | rs1524562 | 30;34;36 | | |
| cg0981151 | 0.230283 | 0.692447 | 11.88058 | 3.48E-06 | 0.000575 | 5.199546 | 0.577306 | 0.807589 | -0.23028 | 3 | 1.6E+08 | F | II | SCHIP1 | Body | opensea | Body-open | | | | | |
| cg1570487 | 0.248642 | 0.481429 | 11.87965 | 3.48E-06 | 0.000575 | 5.198982 | 0.357108 | 0.60575 | -0.24864 | 2 | 1.03E+08 | R | II | SLC9A2 | Body | shelf | Body-shelf | chr2:1032( | rs1833148 | 16;1 | | |
| cg1846163 | 0.205117 | 0.523614 | 11.87928 | 3.48E-06 | 0.000575 | 5.198757 | 0.421056 | 0.626173 | -0.20512 | 3 | 46990143 | R | II | CCDC12 | Body | opensea | Body-open | | | | | |
| cg1236700 | 0.260616 | 0.420723 | 11.87782 | 3.48E-06 | 0.000575 | 5.197868 | 0.290416 | 0.551031 | -0.26062 | 18 | 55673626 | F | II | | IGR | opensea | IGR-opense | | rs1821329 | 21 | | |
| cg1507366 | 0.224773 | 0.386876 | 11.87695 | 3.49E-06 | 0.000575 | 5.197336 | 0.274489 | 0.499262 | -0.22477 | 11 | 66659874 | F | II | PC | 5'UTR | opensea | 5'UTR-open | | rs1428603 | 13 | | |
| cg0954506 | 0.219048 | 0.451913 | 11.87694 | 3.49E-06 | 0.000575 | 5.197332 | 0.342389 | 0.561437 | -0.21905 | 11 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1425546 | 22;5;2 | | |
| cg2018127 | 0.217712 | 0.594082 | 11.87259 | 3.49E-06 | 0.000575 | 5.194676 | 0.485226 | 0.702938 | -0.21771 | 7 | 20147323 | F | II | LOC10192 | Body | opensea | Body-open | | rs5633761 | 14;18 | | |
| cg0917806 | 0.257016 | 0.522962 | 11.87252 | 3.5E-06 | 0.000575 | 5.194631 | 0.394454 | 0.65147 | -0.25702 | 3 | 34437393 | R | II | | IGR | opensea | IGR-opense | | rs1511982 | 2;1 | | |
| cg1821569 | 0.203063 | 0.551748 | 11.87219 | 3.5E-06 | 0.000575 | 5.194433 | 0.450216 | 0.653279 | -0.20306 | 7 | 30890848 | F | II | FAM188B | Body | opensea | Body-open | | rs1505083 | 0;7 | | |
| cg0864427 | 0.238276 | 0.490615 | 11.87171 | 3.5E-06 | 0.000575 | 5.194137 | 0.371478 | 0.609753 | -0.23828 | 2 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5466826 | 30;25;1 | | |
| cg1775002 | 0.24987 | 0.497716 | 11.87131 | 3.5E-06 | 0.000575 | 5.193897 | 0.372781 | 0.622651 | -0.24987 | 1 | 1.76E+08 | R | II | TNR | 5'UTR | opensea | 5'UTR-open | | rs5577201 | 18;9 | | |
| cg0386559 | 0.223637 | 0.529485 | 11.86944 | 3.5E-06 | 0.000575 | 5.192754 | 0.417666 | 0.641303 | -0.22364 | 6 | 39792251 | R | II | DAAM2 | 5'UTR | opensea | 5'UTR-open | | rs5691648 | 39;31;2;1 | | |
| cg0052807 | 0.209101 | 0.403835 | 11.86904 | 3.5E-06 | 0.000575 | 5.192512 | 0.299285 | 0.508386 | -0.2091 | 16 | 10060873 | R | II | GRIN2A | Body | opensea | Body-open | | rs1925348 | 14;1 | | |
| cg2466387 | 0.227791 | 0.566628 | 11.8688 | 3.5E-06 | 0.000575 | 5.192361 | 0.452733 | 0.680524 | -0.22779 | 5 | 32692179 | F | II | | IGR | opensea | IGR-opense | | rs7274062 | 41 | | |
| cg2333439 | 0.205395 | 0.488633 | 11.86284 | 3.52E-06 | 0.000576 | 5.188724 | 0.385935 | 0.591331 | -0.2054 | 2 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs5646429 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0151664 | 0.268573 | 0.553262 | 11.85852 | 3.53E-06 | 0.000577 | 5.186086 | 0.418976 | 0.687549 | -0.26857 | 1 | 28471495 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2760639 | 0.239642 | 0.557886 | 11.85792 | 3.53E-06 | 0.000577 | 5.18572 | 0.438066 | 0.677707 | -0.23964 | 2 | 1.73E+08 | R | II | | IGR | opensea | IGR-opense | | rs1140498 | 51;24;2;1 | | | | | |
| cg1035216 | 0.208946 | 0.437396 | 11.85749 | 3.53E-06 | 0.000577 | 5.185461 | 0.332923 | 0.541869 | -0.20895 | 4 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs3545190 | 8;47 | | | | | |
| cg1105786 | 0.236182 | 0.613273 | 11.85725 | 3.53E-06 | 0.000577 | 5.185309 | 0.495182 | 0.731364 | -0.23618 | 1 | 92414793 | F | II | BRDT | TSS200 | island | TSS200-isla | chr1:9241 | rs5283840 | 14;30;38;43;46 | | | | | |
| cg1941954 | 0.220004 | 0.585577 | 11.85687 | 3.53E-06 | 0.000577 | 5.185079 | 0.475575 | 0.695579 | -0.22 | 11 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2761724 | 0.203581 | 0.638609 | 11.85541 | 3.53E-06 | 0.000577 | 5.184188 | 0.536818 | 0.740399 | -0.20358 | 3 | 1.24E+08 | R | II | KALRN | TSS1500 | opensea | TSS1500-op | | rs5331345 | 46;16;1 | | | | | |
| cg2238860 | 0.223694 | 0.581052 | 11.85527 | 3.53E-06 | 0.000577 | 5.184105 | 0.469205 | 0.692899 | -0.22369 | 6 | 49917254 | F | II | DEFB133 | TSS200 | opensea | TSS200-ope | | rs9369926 | 10 | | | | | |
| cg1147433 | 0.221553 | 0.678407 | 11.85527 | 3.53E-06 | 0.000577 | 5.184105 | 0.56763 | 0.789183 | -0.22155 | 3 | 1.79E+08 | R | II | | IGR | opensea | IGR-opense | | rs7305470 | 17 | | | | | |
| cg2305105 | 0.221662 | 0.58299 | 11.85251 | 3.54E-06 | 0.000577 | 5.182419 | 0.47216 | 0.693821 | -0.22166 | 8 | 89072565 | R | II | MMP16 | Body | opensea | Body-opens | | rs5700754 | 1 | | | | | |
| cg0148083 | 0.257143 | 0.468137 | 11.84877 | 3.55E-06 | 0.000578 | 5.180133 | 0.339566 | 0.596709 | -0.25714 | 3 | 1.14E+08 | F | II | ZBTB20 | Body | opensea | Body-opens | | | | | | | | |
| cg2080080 | 0.222338 | 0.481945 | 11.84661 | 3.55E-06 | 0.000578 | 5.178811 | 0.370776 | 0.593114 | -0.22234 | 1 | 1.13E+08 | F | II | CAPZA1 | Body | shore | Body-shore | chr1:1131 | | | | | | | |
| cg2241600 | 0.204108 | 0.579235 | 11.84579 | 3.55E-06 | 0.000578 | 5.17831 | 0.477181 | 0.681289 | -0.20411 | 22 | 39713062 | R | II | RPL3 | Body | shelf | Body-shelf | chr22:397 | rs5376181 | 45;2 | | | | | |
| cg1348438 | 0.203982 | 0.580239 | 11.84513 | 3.55E-06 | 0.000578 | 5.177903 | 0.478248 | 0.68223 | -0.20398 | 1 | 88865486 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2247831 | 0.206628 | 0.426654 | 11.84221 | 3.56E-06 | 0.000578 | 5.176118 | 0.32334 | 0.529968 | -0.20663 | 2 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5479719 | 2 | | | | | |
| cg0425883 | 0.258877 | 0.540491 | 11.84104 | 3.56E-06 | 0.000579 | 5.175406 | 0.411052 | 0.669929 | -0.25888 | 2 | 1.03E+08 | F | II | IL1R1 | 5'UTR | opensea | 5'UTR-open | | rs7462859 | 33;42;50 | | | | | |
| cg1090454 | 0.232811 | 0.513085 | 11.84058 | 3.56E-06 | 0.000579 | 5.175124 | 0.396679 | 0.62949 | -0.23281 | 15 | 58262083 | F | II | ALDH1A2 | Body | opensea | Body-opens | | rs5339963 | 0;1;18 | | | | | |
| cg0849631 | 0.214282 | 0.510782 | 11.83597 | 3.57E-06 | 0.000579 | 5.172302 | 0.403641 | 0.617924 | -0.21428 | 4 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs5566420 | 0;3 | | | | | |
| cg0302648 | 0.21734 | 0.634378 | 11.83534 | 3.58E-06 | 0.000579 | 5.171915 | 0.525707 | 0.743048 | -0.21734 | 17 | 40404781 | R | II | STAT5B | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg1363859 | 0.202935 | 0.464907 | 11.83148 | 3.58E-06 | 0.00058 | 5.169552 | 0.36344 | 0.566375 | -0.20294 | 13 | 67240484 | R | II | PCDH9 | Body | opensea | Body-opens | | rs5529964 | 33;2;1 | | | | | |
| cg0460133 | 0.261272 | 0.519094 | 11.83054 | 3.59E-06 | 0.00058 | 5.168977 | 0.388457 | 0.64973 | -0.26127 | 12 | 26209446 | R | II | RASSF8 | Body | opensea | Body-opens | | rs5428438 | 2;1 | | | | | |
| cg1796966 | 0.244268 | 0.583936 | 11.82943 | 3.59E-06 | 0.00058 | 5.168295 | 0.461801 | 0.70607 | -0.24427 | 1 | 2.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754031 | 26;7;6 | | | | | |
| cg0463459 | 0.241735 | 0.435613 | 11.82933 | 3.59E-06 | 0.00058 | 5.168237 | 0.314746 | 0.556481 | -0.24173 | 20 | 21417020 | R | II | | IGR | opensea | IGR-opense | | rs1841806 | 2;1 | | | | | |
| cg1453036 | 0.215079 | 0.652307 | 11.82875 | 3.59E-06 | 0.00058 | 5.167882 | 0.544767 | 0.759847 | -0.21508 | 8 | 1.07E+08 | R | II | ZFPM2 | Body | opensea | Body-opens | | rs1388776 | 49;37;29;19;1 | | | | | |
| cg0465414 | 0.237917 | 0.607913 | 11.8287 | 3.59E-06 | 0.00058 | 5.16785 | 0.488954 | 0.726871 | -0.23792 | 9 | 1.34E+08 | R | II | ABL1 | Body | opensea | Body-opens | | rs5404333 | 30;1 | | | | | |
| cg2566088 | 0.230606 | 0.592725 | 11.82803 | 3.59E-06 | 0.00058 | 5.167436 | 0.477422 | 0.708028 | -0.23061 | 18 | 57324466 | R | II | CCBE1 | Body | opensea | Body-opens | | rs3722289 | 41;40;36;13;2 | | | | | |
| cg1699668 | 0.225362 | 0.522079 | 11.82706 | 3.59E-06 | 0.00058 | 5.166844 | 0.409398 | 0.63476 | -0.22536 | 1 | 71830814 | R | II | | IGR | opensea | IGR-opense | | rs1425663 | 48;40;32;23;10 | | | | | |
| cg1222439 | 0.219384 | 0.49238 | 11.82702 | 3.59E-06 | 0.00058 | 5.166824 | 0.382688 | 0.602072 | -0.21938 | 14 | 79084021 | R | II | NRXN3 | 5'UTR | opensea | 5'UTR-open | | rs5629127 | 51;46;43;42 | | | | | |
| cg0608004 | 0.203547 | 0.691497 | 11.82629 | 3.6E-06 | 0.00058 | 5.166374 | 0.589724 | 0.793271 | -0.20355 | 1 | 45038374 | F | II | RNF220 | Body | opensea | Body-opens | | rs5353194 | 1 | | | | | |
| cg0238449 | 0.244422 | 0.558287 | 11.82501 | 3.6E-06 | 0.00058 | 5.165588 | 0.436076 | 0.680498 | -0.24442 | 1 | 1.62E+08 | R | II | NOS1AP | Body | opensea | Body-opens | | | | | | | | |
| cg2248247 | 0.223039 | 0.528615 | 11.82389 | 3.6E-06 | 0.000581 | 5.164902 | 0.417095 | 0.640135 | -0.22304 | 12 | 13364350 | R | II | EMP1 | 5'UTR | opensea | 5'UTR-open | | rs1421687 | 43;19 | | | | | |
| cg1797482 | 0.200223 | 0.619175 | 11.8233 | 3.6E-06 | 0.000581 | 5.164543 | 0.519063 | 0.719287 | -0.20022 | 21 | 20502091 | F | II | | IGR | opensea | IGR-opense | | rs5354549 | 0;4;6;23 | | | | | |
| cg1929169 | 0.225081 | 0.566876 | 11.82275 | 3.6E-06 | 0.000581 | 5.164203 | 0.454335 | 0.679416 | -0.22508 | 13 | 27769437 | R | II | | IGR | opensea | IGR-opense | | rs5363224 | 22;14;9;1 | | | | | |
| cg2633640 | 0.208037 | 0.469505 | 11.82241 | 3.6E-06 | 0.000581 | 5.163993 | 0.365487 | 0.573524 | -0.20804 | 20 | 55508704 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1585415 | 0.20728 | 0.578421 | 11.82094 | 3.61E-06 | 0.000581 | 5.163097 | 0.474781 | 0.682061 | -0.20728 | 10 | 73592958 | R | II | PSAP | Body | opensea | Body-opens | | rs1931756 | 26;14 | | | | | |
| cg0202077 | 0.224378 | 0.523471 | 11.81953 | 3.61E-06 | 0.000581 | 5.162234 | 0.411282 | 0.63566 | -0.22438 | 5 | 1.39E+08 | R | II | UBE2D2 | 5'UTR | opensea | 5'UTR-open | | rs5492604 | 1 | | | | | |
| cg2587658 | 0.220818 | 0.534501 | 11.81882 | 3.61E-06 | 0.000581 | 5.161793 | 0.424092 | 0.64491 | -0.22082 | 8 | 75260202 | R | II | | IGR | shelf | IGR-shelf | chr8:7526 | | | | | | | |
| cg1551234 | 0.24721 | 0.61264 | 11.81612 | 3.62E-06 | 0.000582 | 5.160141 | 0.489035 | 0.736245 | -0.24721 | 8 | 1.31E+08 | R | II | CCDC26 | Body | opensea | Body-opens | | rs1895508 | 21 | | | | | |
| cg2243478 | 0.226562 | 0.550174 | 11.81421 | 3.62E-06 | 0.000582 | 5.158966 | 0.436893 | 0.663455 | -0.22656 | 14 | 59537154 | F | II | | IGR | opensea | IGR-opense | | rs8008708 | 1 | | | | | |
| cg0586867 | 0.216719 | 0.508708 | 11.81405 | 3.62E-06 | 0.000582 | 5.158872 | 0.400348 | 0.617067 | -0.21672 | 10 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1400140 | 0;26;41;47;48 | | | | | |
| cg0737516 | 0.20078 | 0.602111 | 11.81323 | 3.62E-06 | 0.000582 | 5.158369 | 0.501721 | 0.702501 | -0.20078 | 8 | 1.02E+08 | R | II | ANKRD46 | 5'UTR | opensea | 5'UTR-open | | rs5584302 | 7;3 | | | | | |
| cg2692676 | 0.211512 | 0.39474 | 11.81079 | 3.63E-06 | 0.000583 | 5.156869 | 0.288983 | 0.500496 | -0.21151 | 6 | 54127349 | F | II | C6orf142 | Body | opensea | Body-opens | | rs1871060 | 0;23 | | | | | |
| cg1573538 | 0.233729 | 0.657947 | 11.80923 | 3.63E-06 | 0.000583 | 5.155916 | 0.541083 | 0.774811 | -0.23373 | 8 | 1.25E+08 | R | II | FER1L6 | Body | opensea | Body-opens | | rs5575712 | 44;27;2 | | | | | |
| cg2713019 | 0.246692 | 0.571676 | 11.80789 | 3.64E-06 | 0.000583 | 5.155089 | 0.44833 | 0.695022 | -0.24669 | 8 | 29028955 | F | II | KIF13B | Body | opensea | Body-opens | | rs1827352 | 22;36 | | | | | |
| cg0654593 | 0.269577 | 0.582621 | 11.80757 | 3.64E-06 | 0.000583 | 5.154896 | 0.447832 | 0.717409 | -0.26958 | 19 | 39107006 | R | II | MAP4K1 | Body | shelf | Body-shelf | chr19:391 | rs1784769 | 29 | | | | | |
| cg0504672 | 0.218843 | 0.509437 | 11.80739 | 3.64E-06 | 0.000583 | 5.154785 | 0.400016 | 0.618859 | -0.21884 | 1 | 15208255 | R | II | KIAA1026 | Body | opensea | Body-opens | | rs5570861 | 46;45;32 | | | | | |
| cg0064031 | 0.242261 | 0.528804 | 11.805 | 3.64E-06 | 0.000584 | 5.153318 | 0.407674 | 0.649935 | -0.24226 | 8 | 67835853 | R | II | SNORD87 | TSS1500 | shore | TSS1500-sh | chr8:6783 | | | | | | | |
| cg0044251 | 0.206679 | 0.514514 | 11.80365 | 3.65E-06 | 0.000584 | 5.152492 | 0.411175 | 0.617854 | -0.20668 | 11 | 1.2E+08 | R | II | POU2F3 | Body | opensea | Body-opens | | rs1477423 | 36;2;1 | | | | | |
| cg2752709 | 0.208788 | 0.33814 | 11.80349 | 3.65E-06 | 0.000584 | 5.152388 | 0.233746 | 0.442534 | -0.20879 | 1 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs1885881 | 46;23;12 | | | | | |
| cg2136222 | 0.232668 | 0.626885 | 11.80037 | 3.65E-06 | 0.000584 | 5.150478 | 0.510551 | 0.743219 | -0.23267 | 8 | 1864982 | R | II | ARHGEF10 | Body | opensea | Body-opens | | rs1857418 | 50;47;2 | | | | | |
| cg1313628 | 0.209727 | 0.419911 | 11.7995 | 3.66E-06 | 0.000584 | 5.149941 | 0.315048 | 0.524775 | -0.20973 | 6 | 3868172 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0702643 | 0.222715 | 0.60204 | 11.79796 | 3.66E-06 | 0.000584 | 5.148995 | 0.490682 | 0.713398 | -0.22272 | 1 | 1.95E+08 | F | II | | IGR | opensea | IGR-opense | | rs7619827 | 43 | | | | | |
| cg0564172 | 0.212296 | 0.528731 | 11.79687 | 3.66E-06 | 0.000585 | 5.148325 | 0.422583 | 0.634879 | -0.2123 | 11 | 57212298 | R | II | | IGR | opensea | IGR-opense | | rs1474802 | 49 | | | | | |
| cg2060051 | 0.219862 | 0.573971 | 11.7964 | 3.66E-06 | 0.000585 | 5.148037 | 0.46404 | 0.683902 | -0.21986 | 4 | 1.46E+08 | R | II | SMAD1 | Body | opensea | Body-opens | | | | | | | | |
| cg1114292 | 0.227798 | 0.531795 | 11.79318 | 3.67E-06 | 0.000585 | 5.146058 | 0.417896 | 0.645694 | -0.2278 | 2 | 2.38E+08 | F | II | | IGR | opensea | IGR-opense | | rs1506133 | 1;36 | | | | | |
| cg1836773 | 0.225489 | 0.486395 | 11.78809 | 3.68E-06 | 0.000586 | 5.142932 | 0.37365 | 0.599139 | -0.22549 | 2 | 1.83E+08 | R | II | | IGR | opensea | IGR-opense | | rs5418478 | 41;2 | | | | | |
| cg2143898 | 0.249887 | 0.369222 | 11.78759 | 3.68E-06 | 0.000586 | 5.142621 | 0.244278 | 0.494165 | -0.24989 | 19 | 55787902 | F | II | HSPBP1 | Body | shelf | Body-shelf | chr19:557 | | | | | | | |
| cg1607949 | 0.235669 | 0.543902 | 11.78701 | 3.68E-06 | 0.000586 | 5.142263 | 0.426067 | 0.661736 | -0.23567 | 5 | 94244779 | R | II | MCTP1 | Body | opensea | Body-opens | | rs5705747 | 15 | | | | | |
| cg2568778 | 0.214707 | 0.500745 | 11.7853 | 3.69E-06 | 0.000586 | 5.141214 | 0.393391 | 0.608099 | -0.21471 | 4 | 76933117 | F | II | ART3 | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg2695547 | 0.21509 | 0.550094 | 11.78325 | 3.69E-06 | 0.000586 | 5.139951 | 0.442549 | 0.657639 | -0.21509 | 1 | 1.65E+08 | R | II | PBX1 | Body | opensea | Body-opens | | rs5640356 | 30;29;2 | | | | | |
| cg0880370 | 0.266795 | 0.55803 | 11.78322 | 3.69E-06 | 0.000586 | 5.139934 | 0.424632 | 0.691428 | -0.2668 | 16 | 57273293 | F | II | RSPRY1 | 3'UTR | opensea | 3'UTR-open | | rs1417706 | 2;41 | | | | | |
| cg1134696 | 0.204392 | 0.625806 | 11.78274 | 3.69E-06 | 0.000586 | 5.139641 | 0.52361 | 0.728002 | -0.20439 | 11 | 5266120 | R | II | HBBP1 | TSS1500 | opensea | TSS1500-op | | | | | | | | |
| cg0454711 | 0.214692 | 0.526277 | 11.78202 | 3.69E-06 | 0.000586 | 5.139198 | 0.418931 | 0.633623 | -0.21469 | 18 | 72112867 | F | II | FAM69C | Body | opensea | Body-opens | | rs5397187 | 1;4;12;23;30;34 | | | | | |
| cg2440156 | 0.226883 | 0.539551 | 11.7811 | 3.7E-06 | 0.000587 | 5.13863 | 0.42611 | 0.652992 | -0.22688 | 10 | 97152743 | F | II | SORBS1 | Body | opensea | Body-opens | | | | | | | | |
| cg0032703 | 0.222614 | 0.47395 | 11.77989 | 3.7E-06 | 0.000587 | 5.137889 | 0.362643 | 0.585256 | -0.22261 | 12 | 59575337 | F | II | | IGR | opensea | IGR-opense | | rs1497378 | 0;36 | | | | | |
| cg1986577 | 0.218519 | 0.491634 | 11.7794 | 3.7E-06 | 0.000587 | 5.137582 | 0.382374 | 0.600893 | -0.21852 | 1 | 2.22E+08 | F | II | LOC40080 | TSS1500 | opensea | TSS1500-op | | rs7852111 | 0;1;3;8;44 | | | | | |
| cg1465315 | 0.213842 | 0.548486 | 11.77937 | 3.7E-06 | 0.000587 | 5.137569 | 0.441565 | 0.655407 | -0.21384 | 8 | 80263514 | R | II | | IGR | opensea | IGR-opense | | rs1426279 | 47;41 | | | | | |
| cg0714748 | 0.203116 | 0.502622 | 11.77607 | 3.71E-06 | 0.000587 | 5.135533 | 0.401064 | 0.60418 | -0.20312 | 10 | 55236933 | R | II | | IGR | opensea | IGR-opense | | rs1820405 | 37;13 | | | | | |
| cg1692589 | 0.220552 | 0.599553 | 11.77461 | 3.71E-06 | 0.000587 | 5.134636 | 0.489277 | 0.709829 | -0.22055 | 13 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5711842 | 1 | | | | | |
| cg1821008 | 0.218487 | 0.577854 | 11.77388 | 3.71E-06 | 0.000587 | 5.134185 | 0.468611 | 0.687097 | -0.21849 | 1 | 1.76E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1720682 | 0.206569 | 0.483786 | 11.77254 | 3.72E-06 | 0.000587 | 5.133362 | 0.380501 | 0.587071 | -0.20657 | 2 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs1868500 | 1;22;35;42;51 | | | | | |
| cg1768394 | 0.242605 | 0.497478 | 11.77185 | 3.72E-06 | 0.000587 | 5.132937 | 0.376176 | 0.618781 | -0.24261 | 15 | 65763347 | F | II | DPP8 | Body | opensea | Body-opens | | rs5557354 | 18;20;48 | | | | | |
| cg0190075 | 0.226976 | 0.55379 | 11.77145 | 3.72E-06 | 0.000587 | 5.132688 | 0.440303 | 0.667278 | -0.22698 | 6 | 64350180 | R | II | PHF3 | 5'UTR | shelf | 5'UTR-shelf | chr6:6434 | rs5360852 | 38;22;9 | | | | | |
| cg0138379 | 0.210241 | 0.705824 | 11.77086 | 3.72E-06 | 0.000588 | 5.132327 | 0.600704 | 0.810945 | -0.21024 | 12 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | rs1105787 | 45;38;25;2 | | | | | |
| cg0794895 | 0.234043 | 0.546482 | 11.7702 | 3.72E-06 | 0.000588 | 5.131921 | 0.42946 | 0.663503 | -0.23404 | 6 | 45649741 | R | II | | IGR | opensea | IGR-opense | | rs1432177 | 2 | | | | | |
| cg1711828 | 0.220057 | 0.670669 | 11.7691 | 3.72E-06 | 0.000588 | 5.131243 | 0.560641 | 0.780698 | -0.22006 | 1 | 2.19E+08 | R | II | TGFB2 | Body | opensea | Body-opens | | rs1923330 | 30;1 | | | | | |
| cg0311214 | 0.210858 | 0.501959 | 11.76898 | 3.72E-06 | 0.000588 | 5.131173 | 0.39653 | 0.607388 | -0.21086 | 8 | 77455657 | R | II | | IGR | opensea | IGR-opense | | rs5323073 | 24;2;1 | | | | | |
| cg0681348 | 0.246096 | 0.613567 | 11.76713 | 3.73E-06 | 0.000588 | 5.130033 | 0.490519 | 0.736615 | -0.2461 | 20 | 20499757 | R | II | RALGAPA2 | Body | opensea | Body-opens | | rs5620859 | 46;7;1 | | | | | |
| cg2295218 | 0.24901 | 0.545826 | 11.76596 | 3.73E-06 | 0.000588 | 5.12931 | 0.421321 | 0.670331 | -0.24901 | 11 | 9091264 | F | II | SCUBE2 | Body | opensea | Body-opens | | rs5540114 | 42 | | | | | |
| cg0146845 | 0.218308 | 0.531044 | 11.76369 | 3.74E-06 | 0.000588 | 5.127912 | 0.42189 | 0.640198 | -0.21831 | 17 | 43024214 | R | II | KIF18B | 5'UTR | shore | 5'UTR-shor | chr17:430 | rs1392967 | 49;23;1 | | | | | |
| cg0785106 | 0.212911 | 0.575563 | 11.76039 | 3.74E-06 | 0.000589 | 5.125878 | 0.469108 | 0.682019 | -0.21291 | 18 | 66774794 | R | II | | IGR | opensea | IGR-opense | | rs5662208 | 34 | | | | | |
| cg1088951 | 0.20765 | 0.555639 | 11.75887 | 3.75E-06 | 0.000589 | 5.124942 | 0.451814 | 0.659464 | -0.20765 | 7 | 17532256 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5736554 | 24;20;1 | | | | | |
| cg2103629 | 0.205592 | 0.48101 | 11.75805 | 3.75E-06 | 0.000589 | 5.124432 | 0.378214 | 0.583806 | -0.20559 | 11 | 86105321 | R | II | CCDC81 | Body | opensea | Body-opens | | rs5351736 | 34 | | | | | |
| cg0521474 | 0.206442 | 0.532317 | 11.75379 | 3.76E-06 | 0.00059 | 5.121807 | 0.429096 | 0.635538 | -0.20644 | 10 | 86367946 | F | II | | IGR | opensea | IGR-opense | | rs7531330 | 1;26;36 | | | | | |
| cg2590242 | 0.25272 | 0.570633 | 11.75059 | 3.77E-06 | 0.00059 | 5.119833 | 0.444273 | 0.696993 | -0.25272 | 12 | 94773488 | R | II | CEP83 | Body | opensea | Body-opens | | | | | | | | |
| cg0361514 | 0.223366 | 0.567455 | 11.75016 | 3.77E-06 | 0.00059 | 5.11957 | 0.455773 | 0.679138 | -0.22337 | 3 | 1.07E+08 | R | II | LOC34459 | Body | opensea | Body-opens | | rs1464169 | 49 | | | | | |
| cg0049654 | 0.203779 | 0.527707 | 11.74756 | 3.77E-06 | 0.000591 | 5.117963 | 0.425817 | 0.629596 | -0.20378 | 9 | 32819000 | F | II | | IGR | opensea | IGR-opense | | rs5286463 | 18;32 | | | | | |
| cg1643831 | 0.263328 | 0.496048 | 11.74627 | 3.78E-06 | 0.000591 | 5.117167 | 0.364384 | 0.627712 | -0.26333 | 7 | 1E+08 | F | II | AGFG2 | Body | shelf | Body-shelf | chr7:1001 | rs5641192 | 1;15;35 | | | | | |
| cg1481659 | 0.259282 | 0.500003 | 11.74624 | 3.78E-06 | 0.000591 | 5.117151 | 0.370362 | 0.629644 | -0.25928 | 3 | 1.42E+08 | F | II | ATP1B3 | Body | opensea | Body-opens | | rs7819298 | 9;36;37;43 | | | | | |
| cg0847439 | 0.232683 | 0.710518 | 11.74491 | 3.78E-06 | 0.000591 | 5.11633 | 0.594176 | 0.826859 | -0.23268 | 16 | 27237656 | F | II | NSMCE1 | Body | opensea | Body-opens | | | | | | | | |
| cg1091934 | 0.22223 | 0.571621 | 11.74252 | 3.79E-06 | 0.000591 | 5.114852 | 0.460506 | 0.682736 | -0.22223 | 11 | 59210634 | F | II | OR5A1 | TSS200 | opensea | TSS200-ope | | rs3750093 | 0;1;2;12 | | | | | |
| cg1512478 | 0.222234 | 0.561032 | 11.74186 | 3.79E-06 | 0.000591 | 5.114447 | 0.449915 | 0.672149 | -0.22223 | 3 | 5288430 | R | II | | IGR | opensea | IGR-opense | | rs5608083 | 51;49;1 | | | | | |
| cg0504072 | 0.235847 | 0.554138 | 11.74109 | 3.79E-06 | 0.000591 | 5.113968 | 0.436214 | 0.672061 | -0.23585 | 4 | 1.84E+08 | F | II | CLDN22 | TSS1500 | opensea | TSS1500-op | | rs1475780 | 30 | | | | | |
| cg2607781 | 0.204482 | 0.36298 | 11.74076 | 3.79E-06 | 0.000591 | 5.113766 | 0.260739 | 0.465221 | -0.20448 | 11 | 1.19E+08 | R | II | USP2 | Body | shelf | Body-shelf | chr11:119 | rs5780654 | 40 | | | | | |
| cg0697204 | 0.216707 | 0.53845 | 11.74006 | 3.79E-06 | 0.000591 | 5.113334 | 0.430096 | 0.646803 | -0.21671 | 6 | 21348636 | R | II | | IGR | opensea | IGR-opense | | rs1125834 | 32;22;4 | | | | | |
| cg0188287 | 0.225046 | 0.63123 | 11.73963 | 3.79E-06 | 0.000591 | 5.113067 | 0.518707 | 0.743753 | -0.22505 | 17 | 32575548 | R | II | | IGR | opensea | IGR-opense | | rs5632281 | 7 | | | | | |
| cg1489409 | 0.22149 | 0.545427 | 11.73955 | 3.79E-06 | 0.000591 | 5.113021 | 0.434682 | 0.656172 | -0.22149 | 2 | 2.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5637669 | 26;47 | | | | | |
| cg0847861 | 0.248345 | 0.549314 | 11.73621 | 3.8E-06 | 0.000591 | 5.110954 | 0.425142 | 0.673487 | -0.24834 | 10 | 48372128 | R | II | ZNF488 | 3'UTR | shore | 3'UTR-shor | chr10:483 | rs5355257 | 2 | | | | | |
| cg2452598 | 0.208227 | 0.565756 | 11.73595 | 3.8E-06 | 0.000591 | 5.110797 | 0.461643 | 0.66987 | -0.20823 | 4 | 19134792 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1118387 | 0.222207 | 0.505512 | 11.73585 | 3.8E-06 | 0.000591 | 5.110735 | 0.394408 | 0.616616 | -0.22221 | 2 | 38341436 | F | II | | IGR | opensea | IGR-opense | | rs1901289 | 15 | | | | | |
| cg2689157 | 0.224505 | 0.478563 | 11.7332 | 3.81E-06 | 0.000591 | 5.109093 | 0.36631 | 0.590815 | -0.22451 | 1 | 56288471 | F | II | | IGR | opensea | IGR-opense | | rs1856375 | 1 | | | | | |
| cg0943944 | 0.236172 | 0.526128 | 11.73239 | 3.81E-06 | 0.000591 | 5.108592 | 0.408042 | 0.644214 | -0.23617 | 3 | 1.75E+08 | R | II | NAALADL2 | Body | opensea | Body-opens | | rs5398480 | 51 | | | | | |
| cg1700769 | 0.211829 | 0.542616 | 11.73115 | 3.81E-06 | 0.000591 | 5.107828 | 0.436701 | 0.64853 | -0.21183 | 18 | 12041356 | R | II | | IGR | shore | IGR-shore | chr18:120 | rs5657928 | 51;2 | | | | | |
| cg0089229 | 0.276192 | 0.465661 | 11.72995 | 3.82E-06 | 0.000591 | 5.107084 | 0.327565 | 0.603757 | -0.27619 | 13 | 49323918 | F | II | | IGR | opensea | IGR-opense | | rs5729498 | 32 | | | | | |
| cg0875526 | 0.207285 | 0.524951 | 11.72328 | 3.83E-06 | 0.000592 | 5.10296 | 0.421308 | 0.628593 | -0.20728 | 6 | 3325053 | R | II | SLC22A23 | Body | opensea | Body-opens | | rs5492652 | 51;47;12 | | | | | |
| cg0422807 | 0.207506 | 0.517515 | 11.72055 | 3.84E-06 | 0.000592 | 5.10127 | 0.413762 | 0.621268 | -0.20751 | 12 | 1.14E+08 | R | II | | IGR | shelf | IGR-shelf | chr12:113 | | | | | | | |
| cg2493362 | 0.210271 | 0.612086 | 11.7181 | 3.84E-06 | 0.000592 | 5.099757 | 0.506951 | 0.717221 | -0.21027 | 9 | 38024422 | F | II | SHB | Body | opensea | Body-opens | | rs5705596 | 13;36;51 | | | | | |
| cg1648578 | 0.237496 | 0.556517 | 11.71634 | 3.85E-06 | 0.000593 | 5.09867 | 0.437769 | 0.675265 | -0.2375 | 7 | 82013475 | F | II | CACNA2D1 | Body | opensea | Body-opens | | rs1842346 | 27;46 | | | | | |
| cg1998549 | 0.225681 | 0.568876 | 11.71526 | 3.85E-06 | 0.000593 | 5.098001 | 0.456035 | 0.681716 | -0.22568 | 16 | 83073842 | F | II | CDH13 | 5'UTR | opensea | 5'UTR-open | | rs5349397 | 0;6;7;36;49 | | | | | |
| cg0174281 | 0.203599 | 0.612685 | 11.71519 | 3.85E-06 | 0.000593 | 5.097957 | 0.510885 | 0.714484 | -0.2036 | 1 | 70508118 | F | II | LRRC7 | Body | opensea | Body-opens | | rs1461028 | 0;22;23;30 | | | | | |
| cg2082318 | 0.219245 | 0.497232 | 11.71461 | 3.85E-06 | 0.000593 | 5.097599 | 0.38761 | 0.606855 | -0.21924 | 1 | 39318494 | F | II | RRAGC | Body | opensea | Body-opens | | rs1181072 | 1;29 | | | | | |
| cg1269676 | 0.255057 | 0.415117 | 11.71042 | 3.86E-06 | 0.000593 | 5.095001 | 0.287588 | 0.542645 | -0.25506 | 18 | 60848167 | F | II | BCL2 | Body | opensea | Body-opens | | rs5664592 | 4;17;28 | | | | | |
| cg0688042 | 0.218043 | 0.571097 | 11.70848 | 3.87E-06 | 0.000594 | 5.093802 | 0.462076 | 0.680118 | -0.21804 | 1 | 2E+08 | R | II | NR5A2 | Body | shelf | Body-shelf | chr1:2001 | rs5405584 | 50;34;26 | | | | | |
| cg0902787 | 0.222076 | 0.614462 | 11.70693 | 3.87E-06 | 0.000594 | 5.092838 | 0.503424 | 0.725501 | -0.22208 | 1 | 25914071 | F | II | | IGR | opensea | IGR-opense | | rs1821826 | 1;30;48 | | | | | |
| cg1638717 | 0.202754 | 0.534699 | 11.7052 | 3.87E-06 | 0.000594 | 5.09177 | 0.433322 | 0.636076 | -0.20275 | 18 | 44048991 | F | II | | IGR | opensea | IGR-opense | | rs1260714 | 17 | | | | | |
| cg2215925 | 0.239412 | 0.532776 | 11.70485 | 3.88E-06 | 0.000594 | 5.091552 | 0.413071 | 0.652482 | -0.23941 | 1 | 65064166 | R | II | CACHD1 | Body | opensea | Body-opens | | rs5303520 | 42 | | | | | |
| cg2305109 | 0.230063 | 0.658122 | 11.69943 | 3.89E-06 | 0.000595 | 5.088193 | 0.54309 | 0.773153 | -0.23006 | 8 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs1655004 | 38;48 | | | | | |
| cg1152502 | 0.223678 | 0.491265 | 11.69888 | 3.89E-06 | 0.000595 | 5.08785 | 0.379426 | 0.603104 | -0.22368 | 20 | 17674233 | F | II | BANF2 | TSS200 | opensea | TSS200-ope | | rs5750991 | 0;28;41 | | | | | |
| cg1580658 | 0.233592 | 0.487871 | 11.69831 | 3.89E-06 | 0.000595 | 5.0875 | 0.371075 | 0.604667 | -0.23359 | 13 | 29177556 | F | II | | IGR | opensea | IGR-opense | | rs1421115 | 1 | | | | | |
| cg2524080 | 0.225775 | 0.436914 | 11.69721 | 3.89E-06 | 0.000595 | 5.086816 | 0.324027 | 0.549802 | -0.22577 | 5 | 89195843 | R | II | | IGR | opensea | IGR-opense | | rs1380979 | 31;16 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2166088 | 0.214468 | 0.501906 | 11.69481 | 3.9E-06 | 0.000595 | 5.085329 | 0.394672 | 0.60914 | -0.21447 | 3 | 78210011 | R | II | | IGR | opensea | IGR-opense | | rs1812710 | 40;34;29;15;8 |
| cg2437161 | 0.228164 | 0.474642 | 11.69351 | 3.9E-06 | 0.000596 | 5.084518 | 0.36056 | 0.588724 | -0.22816 | 8 | 74276808 | F | II | | IGR | opensea | IGR-opense | | rs5598781 | 0;1;21;35;46 |
| cg1528023 | 0.23179 | 0.632337 | 11.69226 | 3.91E-06 | 0.000596 | 5.083747 | 0.516442 | 0.748233 | -0.23179 | 1 | 61737456 | R | II | NFIA | Body | opensea | Body-opens | | rs7574300 | 2 |
| cg2193219 | 0.235279 | 0.579147 | 11.69143 | 3.91E-06 | 0.000596 | 5.08323 | 0.461508 | 0.696786 | -0.23528 | 1 | 2.29E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1345131 | 0.215807 | 0.668686 | 11.69141 | 3.91E-06 | 0.000596 | 5.08322 | 0.560783 | 0.77659 | -0.21581 | 2 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5654319 | 30 |
| cg1018969 | 0.202563 | 0.431592 | 11.68981 | 3.91E-06 | 0.000596 | 5.082224 | 0.330311 | 0.532874 | -0.20256 | 6 | 44458366 | F | II | | IGR | opensea | IGR-opense | | rs7959621 | 8;22;35;44;49 |
| cg0703796 | 0.200055 | 0.531982 | 11.68959 | 3.91E-06 | 0.000596 | 5.082089 | 0.431954 | 0.63201 | -0.20006 | 6 | 43265846 | R | II | SLC22A7 | TSS200 | opensea | TSS200-ope | | rs5320850 | 49;46 |
| cg2679563 | 0.209415 | 0.546037 | 11.68867 | 3.91E-06 | 0.000596 | 5.08152 | 0.44133 | 0.650745 | -0.20942 | 4 | 30869870 | R | II | PCDH7 | Body | opensea | Body-opens | | rs5295335 | 50;45;43;30 |
| cg0816730 | 0.205557 | 0.512119 | 11.68797 | 3.92E-06 | 0.000596 | 5.081082 | 0.409341 | 0.614898 | -0.20556 | 2 | 2.23E+08 | F | II | SGPP2 | Body | opensea | Body-opens | | | |
| cg1478879 | 0.201713 | 0.592226 | 11.68572 | 3.92E-06 | 0.000596 | 5.079688 | 0.491369 | 0.693082 | -0.20171 | 11 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs7892408 | 0;28 |
| cg1787765 | 0.242272 | 0.588857 | 11.6853 | 3.92E-06 | 0.000596 | 5.079425 | 0.467721 | 0.709993 | -0.24227 | 10 | 98751367 | R | II | | IGR | opensea | IGR-opense | | rs1123526 | 27;1 |
| cg0755123 | 0.222682 | 0.529726 | 11.68522 | 3.92E-06 | 0.000596 | 5.079378 | 0.418385 | 0.641068 | -0.22268 | 17 | 17253796 | F | II | | IGR | opensea | IGR-opense | | rs7706664 | 1;42 |
| cg1579607 | 0.235755 | 0.61715 | 11.68315 | 3.93E-06 | 0.000597 | 5.078092 | 0.499273 | 0.735027 | -0.23575 | 2 | 1.06E+08 | F | II | TGFBRAP1 | 5'UTR | opensea | 5'UTR-open | | rs5297386 | 0;18;49 |
| cg1500140 | 0.208166 | 0.530815 | 11.68008 | 3.94E-06 | 0.000597 | 5.076186 | 0.426732 | 0.634898 | -0.20817 | 12 | 1.31E+08 | F | II | RIMBP2 | Body | opensea | Body-opens | | rs1409323 | 40 |
| cg1348801 | 0.203088 | 0.390654 | 11.67983 | 3.94E-06 | 0.000597 | 5.076029 | 0.28911 | 0.492198 | -0.20309 | 15 | 81466841 | R | II | | IGR | opensea | IGR-opense | | rs5767794 | 33;7;1 |
| cg2321105 | 0.269271 | 0.450264 | 11.6788 | 3.94E-06 | 0.000597 | 5.075388 | 0.315628 | 0.584899 | -0.26927 | 3 | 1.68E+08 | F | II | EGFEM1P | Body | opensea | Body-opens | | rs5340285 | 0;26;34;41 |
| cg0966605 | 0.211572 | 0.560037 | 11.67766 | 3.94E-06 | 0.000597 | 5.074682 | 0.45425 | 0.665823 | -0.21157 | 4 | 41611109 | R | II | LIMCH1 | Body | opensea | Body-opens | | rs5660973 | 10 |
| cg1698913 | 0.21059 | 0.523813 | 11.67562 | 3.95E-06 | 0.000597 | 5.073416 | 0.418518 | 0.629107 | -0.21059 | 5 | 1.6E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0653900 | 0.235298 | 0.467505 | 11.67402 | 3.95E-06 | 0.000598 | 5.072418 | 0.349856 | 0.585154 | -0.2353 | 2 | 2.08E+08 | F | II | CPO | Body | opensea | Body-opens | | rs1150623 | 0;29 |
| cg0129692 | 0.22324 | 0.595926 | 11.67239 | 3.95E-06 | 0.000598 | 5.071406 | 0.484306 | 0.707546 | -0.22324 | 2 | 82120996 | F | II | | IGR | opensea | IGR-opense | | rs1500159 | 13 |
| cg2543279 | 0.204999 | 0.545563 | 11.6699 | 3.96E-06 | 0.000598 | 5.069857 | 0.443064 | 0.648063 | -0.205 | 2 | 23546167 | F | II | | IGR | opensea | IGR-opense | | rs1420694 | 38 |
| cg2506513 | 0.22145 | 0.658446 | 11.66942 | 3.96E-06 | 0.000598 | 5.069561 | 0.54772 | 0.769171 | -0.22145 | 10 | 93100919 | R | II | LOC10018 | Body | opensea | Body-opens | | rs5422173 | 41;1 |
| cg0428196 | 0.201699 | 0.636361 | 11.66925 | 3.96E-06 | 0.000598 | 5.069456 | 0.535511 | 0.73721 | -0.2017 | 15 | 53917915 | R | II | WDR72 | Body | opensea | Body-opens | | rs1420246 | 40;1 |
| cg0942073 | 0.238006 | 0.603704 | 11.66851 | 3.96E-06 | 0.000598 | 5.068996 | 0.484701 | 0.722707 | -0.23801 | 7 | 25705835 | R | II | | IGR | opensea | IGR-opense | | rs1899908 | 36;7;1 |
| cg1048541 | 0.209271 | 0.468841 | 11.66304 | 3.98E-06 | 0.000599 | 5.065594 | 0.364206 | 0.573477 | -0.20927 | 2 | 26586435 | F | II | EPT1 | Body | opensea | Body-opens | | rs1854841 | 1 |
| cg0643990 | 0.236082 | 0.581842 | 11.66283 | 3.98E-06 | 0.000599 | 5.06546 | 0.463801 | 0.699883 | -0.23608 | 2 | 1.68E+08 | F | II | XIRP2 | TSS200 | opensea | TSS200-ope | | rs7741461 | 27;34 |
| cg0423802 | 0.208889 | 0.489369 | 11.66188 | 3.98E-06 | 0.000599 | 5.064868 | 0.384924 | 0.593814 | -0.20889 | 4 | 20842253 | F | II | KCNIP4 | Body | opensea | Body-opens | | rs7324251 | 51 |
| cg1813907 | 0.22768 | 0.536733 | 11.65974 | 3.99E-06 | 0.0006 | 5.063537 | 0.422893 | 0.650572 | -0.22768 | 9 | 1.08E+08 | R | II | ABCA1 | 5'UTR | opensea | 5'UTR-open | | rs5624434 | 26;11;2 |
| cg2288944 | 0.202172 | 0.688548 | 11.65871 | 3.99E-06 | 0.0006 | 5.062895 | 0.587462 | 0.789634 | -0.20217 | 19 | 6886962 | F | II | EMR1 | TSS1500 | opensea | TSS1500-op | | rs5441143 | 26 |
| cg2535176 | 0.217776 | 0.571172 | 11.65696 | 3.99E-06 | 0.0006 | 5.061809 | 0.462284 | 0.68006 | -0.21778 | 5 | 71724363 | F | II | | IGR | opensea | IGR-opense | | rs1821856 | 1;31;32;44;51 |
| cg0019540 | 0.236378 | 0.506878 | 11.65352 | 4E-06 | 0.0006 | 5.059667 | 0.388689 | 0.625067 | -0.23638 | 10 | 95140036 | F | II | MYOF | Body | opensea | Body-opens | | rs5625012 | 1 |
| cg2661399 | 0.235744 | 0.525142 | 11.64946 | 4.01E-06 | 0.000601 | 5.057135 | 0.40727 | 0.643013 | -0.23574 | 4 | 5412385 | F | II | STK32B | Body | opensea | Body-opens | | rs1143265 | 0 |
| cg2190362 | 0.203349 | 0.515922 | 11.64931 | 4.01E-06 | 0.000601 | 5.057043 | 0.414248 | 0.617597 | -0.20335 | 1 | 1.52E+08 | R | II | CRCT1 | TSS1500 | shelf | TSS1500-sh | chr1:1152 | rs1066646 | 0 |
| cg1548545 | 0.21982 | 0.622439 | 11.64891 | 4.01E-06 | 0.000601 | 5.056797 | 0.512529 | 0.732349 | -0.21982 | 21 | 40266015 | R | II | LOC40086 | Body | opensea | Body-opens | | rs1869794 | 27;2;1 |
| cg0789462 | 0.230866 | 0.598947 | 11.64699 | 4.02E-06 | 0.000601 | 5.055599 | 0.483514 | 0.71438 | -0.23087 | 5 | 58265816 | R | II | PDE4D | 3'UTR | opensea | 3'UTR-open | | rs5659539 | 50;2 |
| cg0225064 | 0.273585 | 0.567672 | 11.64669 | 4.02E-06 | 0.000601 | 5.055409 | 0.43088 | 0.704464 | -0.27358 | 15 | 45020024 | R | II | LOC10041 | TSS1500 | opensea | TSS1500-op | | rs1381315 | 40;1 |
| cg0871003 | 0.204481 | 0.551845 | 11.64587 | 4.02E-06 | 0.000601 | 5.0549 | 0.449604 | 0.654085 | -0.20448 | 1 | 64475514 | F | II | ROR1 | Body | opensea | Body-opens | | rs1445814 | 1;20 |
| cg1123654 | 0.208527 | 0.502322 | 11.64536 | 4.02E-06 | 0.000601 | 5.054583 | 0.398058 | 0.606585 | -0.20853 | 21 | 27777262 | R | II | | IGR | opensea | IGR-opense | | rs1140161 | 11 |
| cg0064838 | 0.221071 | 0.570543 | 11.64485 | 4.02E-06 | 0.000601 | 5.054263 | 0.460008 | 0.681079 | -0.22107 | 1 | 1.67E+08 | F | II | DUSP27 | Body | shelf | Body-shelf | chr1:1670 | rs4657633 | 27;29 |
| cg1042384 | 0.225745 | 0.583407 | 11.64459 | 4.02E-06 | 0.000601 | 5.054102 | 0.470534 | 0.696279 | -0.22574 | 6 | 56200769 | F | II | | IGR | opensea | IGR-opense | | rs1903798 | 46;51 |
| cg0603378 | 0.242286 | 0.577643 | 11.64214 | 4.03E-06 | 0.000601 | 5.052576 | 0.4565 | 0.698786 | -0.24229 | 8 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs1138761 | 0;17;34 |
| cg2366847 | 0.205337 | 0.601309 | 11.642 | 4.03E-06 | 0.000601 | 5.05249 | 0.49864 | 0.703978 | -0.20534 | 7 | 65715904 | F | II | TPST1 | Body | opensea | Body-opens | | rs5412710 | 14;30 |
| cg0255025 | 0.222403 | 0.647525 | 11.6414 | 4.03E-06 | 0.000601 | 5.052114 | 0.536324 | 0.758727 | -0.2224 | 2 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs5615221 | 51;48;47;2 |
| cg0440442 | 0.208919 | 0.405302 | 11.64101 | 4.03E-06 | 0.000601 | 5.05187 | 0.300843 | 0.509761 | -0.20892 | 8 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs5681075 | 14;8;2;1 |
| cg0515968 | 0.201197 | 0.46619 | 11.64059 | 4.03E-06 | 0.000601 | 5.051612 | 0.365591 | 0.566788 | -0.2012 | 2 | 9514871 | F | II | ASAP2 | Body | island | Body-islanc | chr2:9514 | rs2021450 | 0;15;46;49 |
| cg1600159 | 0.253835 | 0.577248 | 11.64053 | 4.03E-06 | 0.000601 | 5.051571 | 0.450331 | 0.704166 | -0.25384 | 10 | 3800109 | R | II | | IGR | opensea | IGR-opense | | rs1895452 | 37;35;2;1 |
| cg1842271 | 0.228256 | 0.419737 | 11.63924 | 4.04E-06 | 0.000601 | 5.050768 | 0.305609 | 0.533865 | -0.22826 | 7 | 19392033 | R | II | | IGR | opensea | IGR-opense | | rs1023334 | 27;8;1 |
| cg0349925 | 0.217954 | 0.536177 | 11.6338 | 4.05E-06 | 0.000602 | 5.047379 | 0.4272 | 0.645154 | -0.21795 | 8 | 72912611 | R | II | MSC-AS1 | Body | opensea | Body-opens | | rs5699988 | 8;2 |
| cg1145495 | 0.209624 | 0.41876 | 11.63371 | 4.05E-06 | 0.000602 | 5.047319 | 0.313948 | 0.523572 | -0.20962 | 2 | 1.93E+08 | R | II | TMEFF2 | Body | opensea | Body-opens | | rs5699901 | 51 |
| cg2106517 | 0.225553 | 0.615893 | 11.63275 | 4.05E-06 | 0.000602 | 5.046724 | 0.503117 | 0.728669 | -0.22555 | 7 | 84730904 | F | II | SEMA3D | Body | opensea | Body-opens | | | |
| cg0489321 | 0.235322 | 0.618199 | 11.62801 | 4.06E-06 | 0.000603 | 5.043763 | 0.500538 | 0.73586 | -0.23532 | 9 | 14310315 | R | II | NFIB | Body | shelf | Body-shelf | chr9:1431 | | |
| cg2491693 | 0.244587 | 0.484794 | 11.62662 | 4.07E-06 | 0.000603 | 5.042897 | 0.362501 | 0.607088 | -0.24459 | 1 | 1.01E+08 | R | II | DBT | TSS1500 | opensea | TSS1500-op | | | |
| cg0373284 | 0.218894 | 0.573486 | 11.62542 | 4.07E-06 | 0.000603 | 5.042149 | 0.464039 | 0.682933 | -0.21889 | 18 | 11096230 | F | II | PIEZO2 | Body | opensea | Body-opens | | rs1505555 | 0;20 |
| cg1756676 | 0.215171 | 0.499791 | 11.62396 | 4.08E-06 | 0.000603 | 5.041232 | 0.392206 | 0.607376 | -0.21517 | 21 | 31607097 | F | II | | IGR | opensea | IGR-opense | | rs5455152 | 0;1;3;6;19;47 |
| cg2627266 | 0.210181 | 0.551605 | 11.62338 | 4.08E-06 | 0.000604 | 5.040872 | 0.446514 | 0.656696 | -0.21018 | 11 | 85977891 | R | II | EED | Body | opensea | Body-opens | | rs1511443 | 20;11;2 |
| cg1805371 | 0.224085 | 0.574326 | 11.62058 | 4.08E-06 | 0.000604 | 5.039122 | 0.462283 | 0.686368 | -0.22409 | 13 | 99049874 | F | II | FARP1 | Body | opensea | Body-opens | | rs7652923 | 1;30;33;40 |
| cg0912776 | 0.229345 | 0.600401 | 11.61929 | 4.09E-06 | 0.000604 | 5.038315 | 0.485729 | 0.715074 | -0.22935 | 6 | 1.47E+08 | F | II | STXBP5-AS | Body | opensea | Body-opens | | rs5434843 | 0;33;37 |
| cg0040214 | 0.20009 | 0.493714 | 11.61906 | 4.09E-06 | 0.000604 | 5.038176 | 0.393669 | 0.593759 | -0.20009 | 2 | 53631176 | R | II | | IGR | opensea | IGR-opense | | rs1136020 | 47;2;1 |
| cg0290254 | 0.229671 | 0.541858 | 11.61894 | 4.09E-06 | 0.000604 | 5.038102 | 0.427023 | 0.656693 | -0.22967 | 16 | 50136493 | R | II | HEATR3 | Body | opensea | Body-opens | | rs5563205 | 46;1 |
| cg1345506 | 0.210791 | 0.47751 | 11.61807 | 4.09E-06 | 0.000604 | 5.037554 | 0.372114 | 0.582906 | -0.21079 | 4 | 7385791 | R | II | SORCS2 | Body | opensea | Body-opens | | rs5540836 | 36 |
| cg1654826 | 0.213979 | 0.654463 | 11.61481 | 4.1E-06 | 0.000604 | 5.035519 | 0.547473 | 0.761452 | -0.21398 | 14 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5877581 | 1 |
| cg0712987 | 0.20168 | 0.649012 | 11.61448 | 4.1E-06 | 0.000604 | 5.035313 | 0.548172 | 0.749852 | -0.20168 | 3 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs1485673 | 16 |
| cg1489303 | 0.223823 | 0.571836 | 11.61233 | 4.1E-06 | 0.000605 | 5.033966 | 0.459925 | 0.683748 | -0.22382 | 8 | 26323465 | R | II | | IGR | opensea | IGR-opense | | rs5744952 | 48;1 |
| cg2202426 | 0.227832 | 0.569977 | 11.60867 | 4.11E-06 | 0.000606 | 5.031683 | 0.456061 | 0.683893 | -0.22783 | 21 | 26799096 | R | II | LINC00158 | Body | opensea | Body-opens | | rs5596907 | 37;9 |
| cg0163006 | 0.258083 | 0.467075 | 11.60763 | 4.12E-06 | 0.000606 | 5.031031 | 0.338034 | 0.596117 | -0.25808 | 8 | 1.02E+08 | R | II | SNX31 | Body | opensea | Body-opens | | rs7929575 | 41;13;10 |
| cg1049509 | 0.208498 | 0.497562 | 11.60603 | 4.12E-06 | 0.000606 | 5.03003 | 0.393313 | 0.601811 | -0.2085 | 6 | 80517072 | F | II | C6orf7 | Body | opensea | Body-opens | | rs1819798 | 1;37 |
| cg1481374 | 0.252202 | 0.543665 | 11.606 | 4.12E-06 | 0.000606 | 5.03001 | 0.417564 | 0.669766 | -0.2522 | 21 | 19859651 | R | II | | IGR | opensea | IGR-opense | | rs1145617 | 1 |
| cg1179597 | 0.233706 | 0.635285 | 11.60442 | 4.13E-06 | 0.000607 | 5.02902 | 0.518432 | 0.752138 | -0.23371 | 11 | 1.22E+08 | R | II | BLID | TSS1500 | opensea | TSS1500-op | | rs5506605 | 46 |
| cg1674404 | 0.22488 | 0.612779 | 11.60402 | 4.13E-06 | 0.000607 | 5.028772 | 0.50034 | 0.725219 | -0.22488 | 2 | 39924833 | F | II | TMEM178A | 5'UTR | opensea | 5'UTR-open | | rs1853893 | 0 |
| cg2580667 | 0.245027 | 0.526675 | 11.60324 | 4.13E-06 | 0.000607 | 5.028283 | 0.404162 | 0.649189 | -0.24503 | 2 | 58867041 | F | II | LINC01122 | Body | opensea | Body-opens | | rs1143399 | 0;7;18;20;37;38 |
| cg2718215 | 0.219349 | 0.505276 | 11.60305 | 4.13E-06 | 0.000607 | 5.028166 | 0.395601 | 0.614951 | -0.21935 | 6 | 33241226 | F | II | RPS18 | Body | shore | Body-shore | chr6:3323 | rs5705039 | 33 |
| cg2231396 | 0.201601 | 0.706969 | 11.60291 | 4.13E-06 | 0.000607 | 5.028077 | 0.606169 | 0.807769 | -0.2016 | 7 | 13117510 | R | II | | IGR | opensea | IGR-opense | | rs5658181 | 28 |
| cg1100096 | 0.21046 | 0.659648 | 11.60239 | 4.13E-06 | 0.000607 | 5.027753 | 0.554418 | 0.764878 | -0.21046 | 17 | 75337274 | R | II | SEPT9 | Body | opensea | Body-opens | | | |
| cg1208130 | 0.227244 | 0.518249 | 11.60203 | 4.13E-06 | 0.000607 | 5.027525 | 0.404628 | 0.631871 | -0.22724 | 2 | 38346853 | F | II | | IGR | opensea | IGR-opense | | rs5649776 | 0;20;49 |
| cg1241687 | 0.22343 | 0.503768 | 11.60056 | 4.14E-06 | 0.000607 | 5.026606 | 0.392053 | 0.615484 | -0.22343 | 3 | 23431400 | F | II | UBE2E2 | Body | opensea | Body-opens | | rs1485225 | 46 |
| cg2476166 | 0.242376 | 0.483087 | 11.59986 | 4.14E-06 | 0.000607 | 5.026169 | 0.3619 | 0.604275 | -0.24238 | 2 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0805963 | 0.261876 | 0.425424 | 11.59951 | 4.14E-06 | 0.000607 | 5.025952 | 0.294486 | 0.556362 | -0.26188 | 8 | 6274876 | R | II | MCPH1 | Body | opensea | Body-opens | | rs5367941 | 38 |
| cg2717115 | 0.20636 | 0.521253 | 11.5973 | 4.14E-06 | 0.000607 | 5.024568 | 0.418073 | 0.624433 | -0.20636 | 2 | 71698651 | F | II | DYSF | Body | opensea | Body-opens | | rs1861231 | 37 |
| cg1765401 | 0.223575 | 0.724041 | 11.59635 | 4.15E-06 | 0.000607 | 5.023971 | 0.612253 | 0.835828 | -0.22357 | 6 | 1.44E+08 | R | II | PLAGL1 | 5'UTR | opensea | 5'UTR-open | | rs1858199 | 35 |
| cg2069078 | 0.226765 | 0.624081 | 11.5955 | 4.15E-06 | 0.000607 | 5.023437 | 0.510699 | 0.737463 | -0.22676 | 1 | 26937762 | R | II | | IGR | opensea | IGR-opense | | rs5696233 | 2 |
| cg0010212 | 0.227911 | 0.58255 | 11.59546 | 4.15E-06 | 0.000607 | 5.023411 | 0.468595 | 0.696506 | -0.22791 | 8 | 1.31E+08 | F | II | FAM49B | Body | opensea | Body-opens | | rs5756457 | 1;19 |
| cg2206572 | 0.212084 | 0.574343 | 11.58995 | 4.16E-06 | 0.000608 | 5.019963 | 0.468301 | 0.680385 | -0.21208 | 10 | 61769702 | R | II | | IGR | opensea | IGR-opense | | rs5681602 | 8;2 |
| cg1581352 | 0.217346 | 0.505875 | 11.58989 | 4.16E-06 | 0.000608 | 5.019929 | 0.397202 | 0.614548 | -0.21735 | 11 | 48028299 | R | II | PTPRJ | Body | opensea | Body-opens | | | |
| cg1512253 | 0.214406 | 0.796574 | 11.58985 | 4.16E-06 | 0.000608 | 5.019903 | 0.689371 | 0.903777 | -0.21441 | 11 | 1.12E+08 | R | II | LOC28314 | TSS1500 | opensea | TSS1500-op | | | |
| cg2199342 | 0.224188 | 0.543028 | 11.58583 | 4.17E-06 | 0.000609 | 5.017383 | 0.430934 | 0.655122 | -0.22419 | 9 | 1.17E+08 | F | II | ZNF618 | Body | opensea | Body-opens | | rs5378378 | 22;44 |
| cg2660789 | 0.246612 | 0.568635 | 11.58143 | 4.18E-06 | 0.000609 | 5.014625 | 0.445328 | 0.691941 | -0.24661 | 1 | 1.68E+08 | F | II | CREG1 | 3'UTR | opensea | 3'UTR-open | | rs1927989 | 26;38 |
| cg0450891 | 0.203429 | 0.58912 | 11.58003 | 4.19E-06 | 0.000609 | 5.013746 | 0.487405 | 0.690834 | -0.20343 | 7 | 16844714 | R | II | AGR2 | 1stExon | opensea | 1stExon-op | | rs1895509 | 51;46;35;3 |
| cg0679159 | 0.27818 | 0.449296 | 11.57955 | 4.19E-06 | 0.000609 | 5.013446 | 0.310206 | 0.588385 | -0.27818 | 6 | 32823292 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282 | rs3763346 | 37;1 |
| cg2207403 | 0.203086 | 0.479169 | 11.57859 | 4.19E-06 | 0.000609 | 5.012845 | 0.377626 | 0.580712 | -0.20309 | 15 | 61356067 | F | II | RORA | Body | opensea | Body-opens | | rs5386520 | 3 |
| cg2640154 | 0.290149 | 0.54057 | 11.57551 | 4.2E-06 | 0.00061 | 5.010909 | 0.395495 | 0.685644 | -0.29015 | 6 | 91078974 | F | II | | IGR | opensea | IGR-opense | | rs5483666 | 42;47 |
| cg1102082 | 0.231345 | 0.571401 | 11.57508 | 4.2E-06 | 0.00061 | 5.010642 | 0.455728 | 0.687073 | -0.23134 | 15 | 79128547 | R | II | | IGR | shelf | IGR-shelf | chr15:791 | rs4539564 | 50;28;2 |
| cg1981577 | 0.241413 | 0.634729 | 11.57486 | 4.2E-06 | 0.00061 | 5.010503 | 0.514023 | 0.755435 | -0.24141 | 14 | 1.03E+08 | F | II | MOK | Body | opensea | Body-opens | | rs5731819 | 0;1 |
| cg0591741 | 0.210196 | 0.571085 | 11.57327 | 4.21E-06 | 0.00061 | 5.009506 | 0.465987 | 0.676183 | -0.2102 | 5 | 1.24E+08 | R | II | ZNF608 | Body | opensea | Body-opens | | | |
| cg0195197 | 0.237568 | 0.59867 | 11.57269 | 4.21E-06 | 0.00061 | 5.009142 | 0.479886 | 0.717455 | -0.23757 | 9 | 1.1E+08 | F | II | ZNF462 | 5'UTR | opensea | 5'UTR-open | | rs1382992 | 0;1;30;50 |
| cg0645082 | 0.212466 | 0.468337 | 11.57248 | 4.21E-06 | 0.00061 | 5.009012 | 0.362104 | 0.57457 | -0.21247 | 16 | 77810038 | F | II | | IGR | opensea | IGR-opense | | rs3691572 | 1;10;33 |
| cg1201989 | 0.258525 | 0.44417 | 11.57242 | 4.21E-06 | 0.00061 | 5.008973 | 0.314907 | 0.573432 | -0.25852 | 3 | 42950090 | R | II | ZNF662 | Body | shore | Body-shore | chr3:4294 | rs1510392 | 21;18;1 |
| cg0834277 | 0.207011 | 0.485375 | 11.56901 | 4.22E-06 | 0.00061 | 5.006834 | 0.381869 | 0.58888 | -0.20701 | 5 | 1.37E+08 | F | II | SPOCK1 | Body | opensea | Body-opens | | rs1133823 | 1 |
| cg0470618 | 0.217413 | 0.52729 | 11.5684 | 4.22E-06 | 0.00061 | 5.006452 | 0.418583 | 0.635996 | -0.21741 | 12 | 13259327 | F | II | | IGR | opensea | IGR-opense | | rs7315035 | 51 |
| cg0255026 | 0.203446 | 0.463173 | 11.56829 | 4.22E-06 | 0.00061 | 5.006379 | 0.36145 | 0.564896 | -0.20345 | 22 | 21926094 | F | II | UBE2L3 | Body | shelf | Body-shelf | chr22:219 | | |
| cg1626680 | 0.262506 | 0.485557 | 11.56635 | 4.22E-06 | 0.00061 | 5.005164 | 0.354304 | 0.61681 | -0.26251 | 20 | 30943371 | R | II | | IGR | shelf | IGR-shelf | chr20:309 | | |
| cg0200080 | 0.231197 | 0.611361 | 11.56489 | 4.23E-06 | 0.00061 | 5.004245 | 0.495763 | 0.72696 | -0.2312 | 7 | 27156062 | F | II | HOXA3 | 5'UTR | shore | 5'UTR-shor | chr7:2715 | rs5701181 | 0;51 |
| cg0251290 | 0.238123 | 0.419025 | 11.56439 | 4.23E-06 | 0.00061 | 5.003934 | 0.299964 | 0.538087 | -0.23812 | 17 | 25799447 | F | II | KSR1 | 5'UTR | opensea | 5'UTR-open | | rs5563231 | 2;14;45 |
| cg1390021 | 0.208936 | 0.57483 | 11.56289 | 4.23E-06 | 0.00061 | 5.00299 | 0.470362 | 0.679298 | -0.20894 | 21 | 35881375 | R | II | KCNE1 | 5'UTR | opensea | 5'UTR-open | | rs5581689 | 51 |
| cg1343667 | 0.20837 | 0.431273 | 11.56197 | 4.24E-06 | 0.00061 | 5.002412 | 0.327088 | 0.535458 | -0.20837 | 9 | 1.12E+08 | R | II | | IGR | shelf | IGR-shelf | chr9:1120 | rs5313338 | 30 |
| cg2232573 | 0.200254 | 0.49869 | 11.56112 | 4.24E-06 | 0.00061 | 5.001882 | 0.398563 | 0.598817 | -0.20025 | 20 | 23236654 | R | II | | IGR | opensea | IGR-opense | | rs5599491 | 46;15 |
| cg2273954 | 0.209227 | 0.64762 | 11.55979 | 4.24E-06 | 0.00061 | 5.001041 | 0.543007 | 0.752233 | -0.20923 | 2 | 1.09E+08 | F | II | LINC01594 | TSS1500 | opensea | TSS1500-op | | rs1926302 | 1;40 |
| cg1878183 | 0.206542 | 0.599076 | 11.55933 | 4.24E-06 | 0.00061 | 5.000756 | 0.495805 | 0.702347 | -0.20654 | 2 | 2.43E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0377503 | 0.266218 | 0.428593 | 11.55849 | 4.25E-06 | 0.00061 | 5.000224 | 0.295484 | 0.561702 | -0.26622 | 2 | 88874141 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5445031 | 50;28;1 |
| cg1004135 | 0.223378 | 0.555153 | 11.5556 | 4.25E-06 | 0.00061 | 4.998411 | 0.443465 | 0.666842 | -0.22338 | 6 | 21557585 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1867560 | 0.210753 | 0.61684 | 11.55177 | 4.26E-06 | 0.00061 | 4.996003 | 0.511463 | 0.722216 | -0.21075 | 8 | 19145981 | R | II | | IGR | opensea | IGR-opense | | rs5473031 | 2 |
| cg2708356 | 0.249817 | 0.512077 | 11.54641 | 4.28E-06 | 0.00061 | 4.99263 | 0.387168 | 0.636985 | -0.24982 | 18 | 34522301 | F | II | KIAA1328 | Body | opensea | Body-opens | | rs5519001 | 42 |
| cg1197735 | 0.204051 | 0.432577 | 11.54526 | 4.28E-06 | 0.00061 | 4.991906 | 0.330551 | 0.534603 | -0.20405 | 8 | 32611018 | R | II | NRG1 | Body | opensea | Body-opens | | rs1434686 | 5 |
| cg0604758 | 0.229944 | 0.514998 | 11.54326 | 4.29E-06 | 0.00061 | 4.990649 | 0.400026 | 0.629971 | -0.22994 | 3 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1475468 | 34;39 |
| cg2160774 | 0.218755 | 0.646706 | 11.54163 | 4.29E-06 | 0.00061 | 4.989623 | 0.537328 | 0.756083 | -0.21876 | 12 | 22613314 | F | II | C2CD5 | Body | opensea | Body-opens | | rs5665212 | 30 |
| cg0750432 | 0.25091 | 0.562871 | 11.54115 | 4.29E-06 | 0.00061 | 4.989322 | 0.437416 | 0.688325 | -0.25091 | 2 | 98860544 | F | II | VWA3B | Body | opensea | Body-opens | | rs7773337 | 18;29 |
| cg1368113 | 0.22854 | 0.598448 | 11.54092 | 4.29E-06 | 0.00061 | 4.989179 | 0.484178 | 0.712718 | -0.22854 | 11 | 18600705 | F | II | UEVLD | 5'UTR | opensea | 5'UTR-open | | rs5352393 | 20;36;37;50 |
| cg2027015 | 0.236992 | 0.44257 | 11.54067 | 4.29E-06 | 0.00061 | 4.989019 | 0.324075 | 0.561066 | -0.23699 | 5 | 32542511 | R | II | | IGR | opensea | IGR-opense | | rs5486926 | 1 |
| cg2349386 | 0.228365 | 0.541521 | 11.53953 | 4.3E-06 | 0.00061 | 4.988303 | 0.427339 | 0.655703 | -0.22836 | 4 | 1.2E+08 | R | II | SYNPO2 | Body | opensea | Body-opens | | rs5426688 | 27;7 |
| cg1372761 | 0.247276 | 0.589872 | 11.53883 | 4.3E-06 | 0.00061 | 4.98786 | 0.466234 | 0.71351 | -0.24728 | 19 | 7145317 | F | II | INSR | Body | shelf | Body-shelf | chr19:714 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0510677 | 0.240323 | 0.53662 | 11.53867 | 4.3E-06 | 0.000615 | 4.987762 | 0.416459 | 0.656782 | -0.24032 | 8 | 97598420 | R | II | SDC2 | Body | opensea | Body-opens | rs3721959 | 2 | | | | |
| cg0433349 | 0.284219 | 0.4762 | 11.53617 | 4.31E-06 | 0.000616 | 4.98619 | 0.334091 | 0.61831 | -0.28422 | 17 | 18763778 | R | II | PRPSAP2 | 5'UTR | shore | 5'UTR-shor | chr17:187( | | | | | |
| cg1484244 | 0.201932 | 0.65257 | 11.53514 | 4.31E-06 | 0.000616 | 4.985538 | 0.551604 | 0.753536 | -0.20193 | 2 | 28080488 | F | II | RBKS | Body | opensea | Body-opens | rs5493976 | 0 | | | | |
| cg0176122 | 0.219624 | 0.552986 | 11.53261 | 4.31E-06 | 0.000616 | 4.983945 | 0.443174 | 0.662798 | -0.21962 | 2 | 1.15E+08 | F | II | DPP10 | Body | shelf | Body-shelf | chr2:1154 | | | | | |
| cg1934366 | 0.202839 | 0.691009 | 11.53035 | 4.32E-06 | 0.000617 | 4.982521 | 0.58959 | 0.792429 | -0.20284 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-opens | rs8016894 | 24;2;1 | | | | |
| cg2227482 | 0.217965 | 0.492067 | 11.52968 | 4.32E-06 | 0.000617 | 4.982103 | 0.383084 | 0.601049 | -0.21796 | 7 | 83702993 | F | II | SEMA3A | Body | opensea | Body-opens | rs1821651 | 0;26;39 | | | | |
| cg0778728 | 0.203178 | 0.585922 | 11.5295 | 4.32E-06 | 0.000617 | 4.981985 | 0.484333 | 0.687511 | -0.20318 | 15 | 45613679 | R | II | | IGR | opensea | IGR-opense | rs1444828 | 43;33;26;5;2;1 | | | | |
| cg1189300 | 0.233645 | 0.496686 | 11.52891 | 4.33E-06 | 0.000617 | 4.981613 | 0.379864 | 0.613509 | -0.23365 | 9 | 1.14E+08 | F | II | LPAR1 | 5'UTR | opensea | 5'UTR-open | rs5516977 | 5 | | | | |
| cg2036635 | 0.216646 | 0.471807 | 11.52722 | 4.33E-06 | 0.000618 | 4.980547 | 0.363484 | 0.58013 | -0.21665 | 2 | 67730094 | R | II | | IGR | opensea | IGR-opense | rs5408008 | 17 | | | | |
| cg1327889 | 0.223304 | 0.519889 | 11.52606 | 4.33E-06 | 0.000618 | 4.979816 | 0.408237 | 0.631541 | -0.2233 | 13 | 84451164 | R | II | | IGR | shelf | IGR-shelf | chr13:844 | rs5749292 | 31;1 | | | |
| cg2731918 | 0.215383 | 0.522888 | 11.52458 | 4.34E-06 | 0.000618 | 4.978888 | 0.415196 | 0.630579 | -0.21538 | 11 | 65880175 | R | II | PACS1 | Body | opensea | Body-opens | | | | | | | |
| cg1711034 | 0.222476 | 0.582972 | 11.5245 | 4.34E-06 | 0.000618 | 4.978836 | 0.471735 | 0.69421 | -0.22248 | 20 | 61554899 | R | II | DIDO1 | 5'UTR | shelf | 5'UTR-shelf | chr20:615 | rs5582710 | 36;14 | | | |
| cg0063840 | 0.215043 | 0.576035 | 11.52285 | 4.34E-06 | 0.000618 | 4.977793 | 0.468513 | 0.683556 | -0.21504 | 2 | 80471121 | F | II | CTNNA2 | Body | opensea | Body-opens | rs1844198 | 0;1;8;26 | | | | |
| cg0114319 | 0.21257 | 0.541856 | 11.52146 | 4.35E-06 | 0.000618 | 4.976917 | 0.435571 | 0.648141 | -0.21257 | 11 | 56000767 | F | II | OR5T2 | TSS200 | opensea | TSS200-ope | rs5339991 | 28;43 | | | | |
| cg1508728 | 0.209071 | 0.633083 | 11.52034 | 4.35E-06 | 0.000618 | 4.97621 | 0.528547 | 0.737618 | -0.20907 | 6 | 89854631 | F | II | PM20D2 | TSS1500 | shore | TSS1500-sh | chr6:8985 | rs5339162 | 6 | | | |
| cg1509836 | 0.20553 | 0.597785 | 11.51992 | 4.35E-06 | 0.000618 | 4.97595 | 0.49502 | 0.70055 | -0.20553 | 15 | 92106338 | F | II | | IGR | opensea | IGR-opense | rs1429757 | 1;13;42 | | | | |
| cg1595050 | 0.221981 | 0.606354 | 11.51927 | 4.35E-06 | 0.000618 | 4.97554 | 0.495363 | 0.717344 | -0.22198 | 13 | 91145493 | F | II | | IGR | opensea | IGR-opense | rs1401838 | 12;17 | | | | |
| cg0137681 | 0.208468 | 0.639536 | 11.5181 | 4.35E-06 | 0.000618 | 4.9748 | 0.535302 | 0.74377 | -0.20847 | 1 | 2.38E+08 | R | II | ZP4 | TSS200 | opensea | TSS200-ope | rs5690251 | 47;16;1 | | | | |
| cg1589295 | 0.206976 | 0.611008 | 11.51794 | 4.35E-06 | 0.000618 | 4.974697 | 0.50752 | 0.714497 | -0.20698 | 8 | 23168643 | R | II | LOXL2 | Body | opensea | Body-opens | | | | | | |
| cg2205627 | 0.201335 | 0.423918 | 11.51748 | 4.36E-06 | 0.000618 | 4.97441 | 0.323251 | 0.524586 | -0.20133 | 7 | 77612433 | F | II | | IGR | opensea | IGR-opense | rs1922993 | 0 | | | | |
| cg2311252 | 0.217236 | 0.471243 | 11.51669 | 4.36E-06 | 0.000618 | 4.973909 | 0.362625 | 0.579861 | -0.21724 | 22 | 30943828 | R | II | SEC14L6 | TSS1500 | opensea | TSS1500-op | rs1698876 | 9;2 | | | | |
| cg2132488 | 0.201214 | 0.554301 | 11.51479 | 4.36E-06 | 0.000619 | 4.972713 | 0.453695 | 0.654908 | -0.20121 | 3 | 64801329 | R | II | MIR548A2 | Body | opensea | Body-opens | rs1833378 | 43;18 | | | | |
| cg0297050 | 0.2276 | 0.480258 | 11.51367 | 4.37E-06 | 0.000619 | 4.972006 | 0.366458 | 0.594058 | -0.2276 | 3 | 1.02E+08 | F | II | LOC15222 | Body | opensea | Body-opens | rs5472781 | 8 | | | | |
| cg2588911 | 0.208881 | 0.516809 | 11.51294 | 4.37E-06 | 0.000619 | 4.971542 | 0.412368 | 0.62125 | -0.20888 | 11 | 1.25E+08 | R | II | ROBO4 | Body | opensea | Body-opens | rs1397883 | 15 | | | | |
| cg2119404 | 0.254857 | 0.479034 | 11.51282 | 4.37E-06 | 0.000619 | 4.971467 | 0.351606 | 0.606463 | -0.25486 | 3 | 11862088 | R | II | TAMM41 | Body | opensea | Body-opens | | | | | | |
| cg1937166 | 0.206655 | 0.39818 | 11.51108 | 4.37E-06 | 0.000619 | 4.97037 | 0.294852 | 0.501507 | -0.20665 | 1 | 2.05E+08 | F | II | LRRN2 | 5'UTR | opensea | 5'UTR-open | rs5429887 | 1;20;49 | | | | |
| cg0590491 | 0.235316 | 0.661924 | 11.51074 | 4.37E-06 | 0.000619 | 4.970154 | 0.544266 | 0.779582 | -0.23532 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | rs5567461 | 2 | | | | |
| cg2597035 | 0.240777 | 0.481453 | 11.51001 | 4.38E-06 | 0.000619 | 4.969693 | 0.361065 | 0.601842 | -0.24078 | 15 | 59514661 | F | II | MYO1E | Body | opensea | Body-opens | rs5762771 | 35;46 | | | | |
| cg0534437 | 0.219099 | 0.45185 | 11.50971 | 4.38E-06 | 0.000619 | 4.969508 | 0.342301 | 0.561399 | -0.2191 | 12 | 60735995 | R | II | | IGR | opensea | IGR-opense | rs5663435 | 1 | | | | |
| cg2423935 | 0.239514 | 0.576307 | 11.50709 | 4.38E-06 | 0.000619 | 4.96785 | 0.45655 | 0.696064 | -0.23951 | 14 | 47812319 | R | II | MDGA2 | 1stExon | opensea | 1stExon-op | rs1471909 | 46;32;10 | | | | |
| cg0539749 | 0.226147 | 0.62554 | 11.50334 | 4.4E-06 | 0.00062 | 4.965484 | 0.512467 | 0.738614 | -0.22615 | 13 | 33105476 | R | II | N4BP2L2 | Body | opensea | Body-opens | rs1497398 | 31;18;13;8 | | | | |
| cg1354054 | 0.253013 | 0.538296 | 11.50251 | 4.4E-06 | 0.00062 | 4.964961 | 0.411789 | 0.664802 | -0.25301 | 19 | 16424005 | R | II | | IGR | opensea | IGR-opense | rs1440038 | 48;28 | | | | |
| cg2463970 | 0.270643 | 0.548447 | 11.50218 | 4.4E-06 | 0.00062 | 4.964753 | 0.413126 | 0.683768 | -0.27064 | 1 | 64986155 | R | II | CACHD1 | Body | opensea | Body-opens | rs5298374 | 13 | | | | |
| cg0888747 | 0.228635 | 0.578365 | 11.50122 | 4.4E-06 | 0.00062 | 4.964146 | 0.464047 | 0.692682 | -0.22864 | 22 | 22516233 | R | II | | IGR | opensea | IGR-opense | rs5583233 | 19 | | | | |
| cg0744899 | 0.219466 | 0.621619 | 11.50094 | 4.4E-06 | 0.00062 | 4.96397 | 0.511887 | 0.731352 | -0.21947 | 7 | 77779958 | F | II | MAGI2 | Body | opensea | Body-opens | rs5650020 | 0;1 | | | | |
| cg1277418 | 0.261238 | 0.397902 | 11.49626 | 4.41E-06 | 0.000621 | 4.961013 | 0.267283 | 0.528521 | -0.26124 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | rs1124379 | 44;47 | | | | |
| cg1875823 | 0.216387 | 0.565977 | 11.49484 | 4.42E-06 | 0.000621 | 4.960115 | 0.457784 | 0.674171 | -0.21639 | 17 | 53626325 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0825018 | 0.2153 | 0.505546 | 11.49354 | 4.42E-06 | 0.000621 | 4.959289 | 0.397896 | 0.613195 | -0.2153 | 2 | 17482455 | F | II | | IGR | opensea | IGR-opense | rs7645488 | 17 | | | | |
| cg2616901 | 0.213698 | 0.58338 | 11.49253 | 4.43E-06 | 0.000621 | 4.958653 | 0.47653 | 0.690229 | -0.2137 | 6 | 74270238 | R | II | | IGR | opensea | IGR-opense | rs1904439 | 28;4 | | | | |
| cg1293093 | 0.233529 | 0.504487 | 11.49189 | 4.43E-06 | 0.000621 | 4.958249 | 0.387723 | 0.621252 | -0.23353 | 11 | 5372503 | R | II | OR51B6 | TSS1500 | opensea | TSS1500-op | rs5640550 | 47;45;41;35;25;12;2;1 | | | | |
| cg1100313 | 0.263201 | 0.473412 | 11.49184 | 4.43E-06 | 0.000621 | 4.958216 | 0.341812 | 0.605013 | -0.2632 | 1 | 1.59E+08 | R | II | AIM2 | 5'UTR | opensea | 5'UTR-open | rs4126445 | 15;10;2;1 | | | | |
| cg0531250 | 0.23394 | 0.479866 | 11.4915 | 4.43E-06 | 0.000621 | 4.958001 | 0.362896 | 0.596836 | -0.23394 | 18 | 11114858 | R | II | PIEZO2 | Body | opensea | Body-opens | rs5781550 | 42 | | | | |
| cg1447887 | 0.225213 | 0.46896 | 11.4905 | 4.43E-06 | 0.000621 | 4.957371 | 0.356353 | 0.581566 | -0.22521 | 1 | 2.26E+08 | F | II | | IGR | opensea | IGR-opense | rs1879971 | 37 | | | | |
| cg0527938 | 0.204759 | 0.581634 | 11.48863 | 4.44E-06 | 0.000621 | 4.956188 | 0.479255 | 0.684014 | -0.20476 | 22 | 21321253 | R | II | AIFM3 | 5'UTR | shore | 5'UTR-shor | chr22:213 | rs5453283 | 44;9 | | | |
| cg2740564 | 0.264257 | 0.457298 | 11.48711 | 4.44E-06 | 0.000621 | 4.955227 | 0.325169 | 0.589426 | -0.26426 | 5 | 42547112 | F | II | GHR | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg1212852 | 0.20398 | 0.654689 | 11.48707 | 4.44E-06 | 0.000621 | 4.955199 | 0.552699 | 0.756679 | -0.20398 | 7 | 93381385 | F | II | | IGR | opensea | IGR-opense | rs1489232 | 0;34 | | | | |
| cg1219727 | 0.205844 | 0.592067 | 11.48685 | 4.44E-06 | 0.000621 | 4.955059 | 0.489145 | 0.694989 | -0.20584 | 10 | 75037719 | F | II | CFAP70 | Body | opensea | Body-opens | rs5453849 | 6 | | | | |
| cg1334694 | 0.208746 | 0.561546 | 11.48466 | 4.45E-06 | 0.000621 | 4.953678 | 0.457173 | 0.665919 | -0.20875 | 17 | 40207636 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1040201 | 0.209934 | 0.525327 | 11.47948 | 4.46E-06 | 0.000623 | 4.950398 | 0.42036 | 0.630294 | -0.20993 | 14 | 70375748 | R | II | SMOC1 | Body | opensea | Body-opens | | | | | | |
| cg1036965 | 0.202768 | 0.478211 | 11.47834 | 4.46E-06 | 0.000623 | 4.949676 | 0.376827 | 0.579595 | -0.20277 | 3 | 38679751 | F | II | SCN5A | 5'UTR | opensea | 5'UTR-open | rs3764189 | 0;17 | | | | |
| cg0986915 | 0.245284 | 0.624145 | 11.47781 | 4.47E-06 | 0.000623 | 4.949339 | 0.501503 | 0.746787 | -0.24528 | 8 | 6405472 | R | II | ANGPT2 | Body | opensea | Body-opens | rs7607168 | 51;49;2 | | | | |
| cg2675727 | 0.207675 | 0.635524 | 11.47695 | 4.47E-06 | 0.000623 | 4.948796 | 0.531686 | 0.739361 | -0.20768 | 16 | 85238227 | R | II | | IGR | opensea | IGR-opense | rs5533314 | 40 | | | | |
| cg1025952 | 0.207547 | 0.439997 | 11.47624 | 4.47E-06 | 0.000623 | 4.948342 | 0.336223 | 0.54377 | -0.20755 | 15 | 79428573 | R | II | | IGR | opensea | IGR-opense | rs1837946 | 14;12;11 | | | | |
| cg0603061 | 0.203979 | 0.59188 | 11.47512 | 4.47E-06 | 0.000623 | 4.947635 | 0.489891 | 0.69387 | -0.20398 | 1 | 37903193 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1382107 | 0.239079 | 0.494316 | 11.47462 | 4.48E-06 | 0.000623 | 4.947318 | 0.374776 | 0.613855 | -0.23908 | 6 | 68936152 | F | II | | IGR | opensea | IGR-opense | rs5329317 | 0 | | | | |
| cg1713688 | 0.219336 | 0.522162 | 11.47447 | 4.48E-06 | 0.000623 | 4.947223 | 0.412494 | 0.631829 | -0.21934 | 9 | 682998 | F | II | KANK1 | Body | opensea | Body-opens | rs1850826 | 23;26 | | | | |
| cg0710254 | 0.209857 | 0.578601 | 11.47358 | 4.48E-06 | 0.000623 | 4.94666 | 0.473672 | 0.68353 | -0.20986 | 9 | 1.34E+08 | R | II | ABL1 | Body | opensea | Body-opens | rs5341822 | 31 | | | | |
| cg1197920 | 0.208662 | 0.549782 | 11.47304 | 4.48E-06 | 0.000623 | 4.946316 | 0.445451 | 0.654112 | -0.20866 | 11 | 69006333 | F | II | | IGR | opensea | IGR-opense | rs5672761 | 21 | | | | |
| cg1521259 | 0.203387 | 0.519467 | 11.47128 | 4.48E-06 | 0.000623 | 4.945203 | 0.417774 | 0.621161 | -0.20339 | 1 | 2.05E+08 | F | II | NFASC | Body | opensea | Body-opens | rs5284974 | 1 | | | | |
| cg0230191 | 0.225993 | 0.507797 | 11.46829 | 4.49E-06 | 0.000623 | 4.943312 | 0.394801 | 0.620794 | -0.22599 | 1 | 1.63E+08 | R | II | | IGR | opensea | IGR-opense | rs5680174 | 2 | | | | |
| cg1089681 | 0.221782 | 0.541768 | 11.46738 | 4.5E-06 | 0.000623 | 4.942733 | 0.430877 | 0.652659 | -0.22178 | 10 | 77800235 | R | II | C10orf11 | Body | opensea | Body-opens | rs1150156 | 40;14;11 | | | | |
| cg2432769 | 0.231011 | 0.493326 | 11.46595 | 4.5E-06 | 0.000624 | 4.941828 | 0.37782 | 0.608831 | -0.23101 | 2 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | rs7850628 | 48;34;18 | | | | |
| cg1761894 | 0.216662 | 0.580438 | 11.46459 | 4.5E-06 | 0.000624 | 4.940965 | 0.472107 | 0.688769 | -0.21666 | 19 | 2668273 | F | II | GNG7 | 5'UTR | opensea | 5'UTR-open | rs1913362 | 0;20;25;44 | | | | |
| cg1133484 | 0.2068 | 0.627087 | 11.46421 | 4.5E-06 | 0.000624 | 4.940722 | 0.523687 | 0.730487 | -0.2068 | 13 | 80276946 | R | II | | IGR | opensea | IGR-opense | rs1464036 | 10;2 | | | | |
| cg1502845 | 0.208015 | 0.489438 | 11.46409 | 4.51E-06 | 0.000624 | 4.940645 | 0.38543 | 0.593445 | -0.20801 | 3 | 58860290 | R | I | C3orf67 | Body | opensea | Body-opens | rs5576609 | 2 | | | | |
| cg0493642 | 0.23562 | 0.428385 | 11.46225 | 4.51E-06 | 0.000624 | 4.939482 | 0.310576 | 0.546195 | -0.23562 | 3 | 1.46E+08 | R | II | | IGR | opensea | IGR-opense | rs1685787 | 27;26;8 | | | | |
| cg1429281 | 0.226254 | 0.555183 | 11.46209 | 4.51E-06 | 0.000624 | 4.93938 | 0.442056 | 0.668309 | -0.22625 | 1 | 1.73E+08 | F | II | | IGR | opensea | IGR-opense | rs7613012 | 1;2;10;34 | | | | |
| cg1181121 | 0.218575 | 0.519642 | 11.46037 | 4.52E-06 | 0.000625 | 4.938289 | 0.410355 | 0.628929 | -0.21857 | 5 | 1.79E+08 | F | II | ADAMTS2 | Body | shore | Body-shore | chr5:1786 | rs5558319 | 6;19 | | | |
| cg0662675 | 0.209697 | 0.52157 | 11.45928 | 4.52E-06 | 0.000625 | 4.937597 | 0.416722 | 0.626419 | -0.2097 | 17 | 56082885 | F | II | SFRS1 | 3'UTR | shore | 3'UTR-shor | chr17:560 | rs1420721 | 23 | | | |
| cg0285707 | 0.209441 | 0.435939 | 11.45453 | 4.53E-06 | 0.000626 | 4.934581 | 0.331218 | 0.540659 | -0.20944 | 7 | 81746161 | R | II | CACNA2D1 | Body | opensea | Body-opens | rs1817546 | 43 | | | | |
| cg2239427 | 0.219776 | 0.582244 | 11.45404 | 4.53E-06 | 0.000626 | 4.93427 | 0.472356 | 0.692132 | -0.21978 | 2 | 2.08E+08 | R | II | | IGR | opensea | IGR-opense | rs1887091 | 47;21;2;1 | | | | |
| cg1574050 | 0.206509 | 0.675319 | 11.45332 | 4.54E-06 | 0.000626 | 4.933815 | 0.572064 | 0.778573 | -0.20651 | 3 | 99988576 | F | II | TBC1D23 | Body | opensea | Body-opens | | | | | | |
| cg2251422 | 0.243845 | 0.640429 | 11.45327 | 4.54E-06 | 0.000626 | 4.933783 | 0.518506 | 0.762351 | -0.24384 | 1 | 94118054 | R | II | BCAR3 | Body | opensea | Body-opens | rs1851198 | 18;2 | | | | |
| cg2119172 | 0.25556 | 0.582011 | 11.45058 | 4.54E-06 | 0.000626 | 4.932076 | 0.454231 | 0.709791 | -0.25556 | 20 | 46086203 | F | II | | IGR | opensea | IGR-opense | rs1180112 | 1;50 | | | | |
| cg1310783 | 0.233766 | 0.528535 | 11.45011 | 4.55E-06 | 0.000626 | 4.931776 | 0.411652 | 0.645418 | -0.23377 | 1 | 14847711 | F | II | | IGR | opensea | IGR-opense | rs1921651 | 1;16;43;44 | | | | |
| cg0248501 | 0.253543 | 0.535638 | 11.4483 | 4.55E-06 | 0.000626 | 4.93063 | 0.408866 | 0.662409 | -0.25354 | 10 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | rs1402642 | 0;1;47 | | | | |
| cg0875742 | 0.217447 | 0.627511 | 11.44727 | 4.55E-06 | 0.000626 | 4.929974 | 0.518787 | 0.736234 | -0.21745 | 9 | 97879242 | F | II | FANCC | Body | opensea | Body-opens | | | | | | |
| cg2017199 | 0.23866 | 0.513462 | 11.44662 | 4.56E-06 | 0.000626 | 4.929561 | 0.394132 | 0.632792 | -0.23866 | 8 | 67343066 | R | II | | IGR | shore | IGR-shore | chr8:6734 | rs3524340 | 27;22 | | | |
| cg1358859 | 0.210317 | 0.668158 | 11.44543 | 4.56E-06 | 0.000627 | 4.928808 | 0.563 | 0.773317 | -0.21032 | 9 | 1.31E+08 | F | II | SLC27A4 | TSS1500 | shore | TSS1500-sh | chr9:1311 | rs1135998 | 40 | | | |
| cg1617835 | 0.224283 | 0.607642 | 11.44362 | 4.56E-06 | 0.000627 | 4.927657 | 0.4955 | 0.719783 | -0.22428 | 5 | 81630266 | R | II | | IGR | opensea | IGR-opense | rs5642772 | 22 | | | | |
| cg2398990 | 0.222479 | 0.519687 | 11.44305 | 4.57E-06 | 0.000627 | 4.927295 | 0.408448 | 0.630927 | -0.22248 | 7 | 1.37E+08 | F | II | DGKI | Body | opensea | Body-opens | rs5726609 | 29 | | | | |
| cg1671347 | 0.212775 | 0.657101 | 11.44088 | 4.57E-06 | 0.000627 | 4.925913 | 0.550713 | 0.763488 | -0.21278 | 3 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | rs1838689 | 2;1 | | | | |
| cg1713618 | 0.259725 | 0.536059 | 11.43441 | 4.59E-06 | 0.000629 | 4.921801 | 0.406197 | 0.665921 | -0.25972 | 5 | 6030096 | R | II | | IGR | opensea | IGR-opense | rs1880286 | 30;2 | | | | |
| cg2119057 | 0.237626 | 0.395502 | 11.43408 | 4.59E-06 | 0.000629 | 4.921596 | 0.276689 | 0.514314 | -0.23763 | 13 | 74818020 | F | II | | IGR | opensea | IGR-opense | rs5415324 | 15 | | | | |
| cg0197900 | 0.224116 | 0.588647 | 11.43278 | 4.6E-06 | 0.000629 | 4.920765 | 0.476589 | 0.700705 | -0.22412 | 2 | 1.82E+08 | F | II | SCHLAP1 | Body | opensea | Body-opens | rs1865940 | 17;24 | | | | |
| cg2705779 | 0.222829 | 0.557396 | 11.43237 | 4.6E-06 | 0.000629 | 4.920504 | 0.445982 | 0.668811 | -0.22283 | 20 | 19569677 | R | II | SLC24A3 | Body | opensea | Body-opens | rs3686492 | 46;44 | | | | |
| cg1865030 | 0.211257 | 0.521037 | 11.43174 | 4.6E-06 | 0.000629 | 4.920104 | 0.415408 | 0.626666 | -0.21126 | 4 | 17809468 | F | II | DCAF16 | 5'UTR | shelf | 5'UTR-shelf | chr4:1781 | rs1478995 | 1;41 | | | |
| cg0856240 | 0.202634 | 0.53933 | 11.43124 | 4.6E-06 | 0.000629 | 4.91979 | 0.438013 | 0.640646 | -0.20263 | 3 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | rs5596938 | 0;1;7;15;22;45 | | | | |
| cg0348271 | 0.227811 | 0.42977 | 11.42994 | 4.6E-06 | 0.000629 | 4.91896 | 0.315864 | 0.543675 | -0.22781 | 1 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | rs5735485 | 22 | | | | |
| cg2629417 | 0.223044 | 0.62706 | 11.42993 | 4.6E-06 | 0.000629 | 4.918956 | 0.515538 | 0.738582 | -0.22304 | 18 | 36583611 | F | II | | IGR | opensea | IGR-opense | rs1132145 | 0 | | | | |
| cg0571077 | 0.236067 | 0.651642 | 11.4294 | 4.61E-06 | 0.000629 | 4.91862 | 0.533608 | 0.769675 | -0.23607 | 2 | 65089821 | F | II | LOC10192 | Body | shelf | Body-shelf | chr2:6509 | rs5470309 | 5;20 | | | |
| cg0876638 | 0.222231 | 0.572392 | 11.428 | 4.61E-06 | 0.000629 | 4.91773 | 0.461277 | 0.683507 | -0.22223 | 17 | 31107923 | F | II | MYO1D | Body | opensea | Body-opens | rs5532090 | 36 | | | | |
| cg2266034 | 0.234605 | 0.519608 | 11.4267 | 4.61E-06 | 0.000629 | 4.916897 | 0.402306 | 0.636911 | -0.23461 | 20 | 48322124 | R | II | B4GALT5 | Body | opensea | Body-opens | rs1509631 | 38;20;16;11;2;1 | | | | |
| cg1343487 | 0.238665 | 0.560856 | 11.42624 | 4.61E-06 | 0.000629 | 4.916607 | 0.441523 | 0.680188 | -0.23867 | 1 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | rs1152743 | 22;38 | | | | |
| cg0053100 | 0.203825 | 0.552149 | 11.4251 | 4.62E-06 | 0.000629 | 4.915884 | 0.450237 | 0.654061 | -0.20382 | 2 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | rs1449725 | 1;21 | | | | |
| cg1808751 | 0.27007 | 0.548336 | 11.42479 | 4.62E-06 | 0.000629 | 4.915686 | 0.413301 | 0.683372 | -0.27007 | 1 | 2.42E+08 | F | II | KMO | Body | opensea | Body-opens | rs7709607 | 1;36 | | | | |
| cg2400540 | 0.224728 | 0.61834 | 11.42351 | 4.62E-06 | 0.000629 | 4.914871 | 0.505976 | 0.730704 | -0.22473 | 7 | 23060529 | F | II | | IGR | opensea | IGR-opense | rs1879437 | 1;17;49 | | | | |
| cg0685883 | 0.20922 | 0.511352 | 11.42321 | 4.62E-06 | 0.000629 | 4.914681 | 0.406742 | 0.615962 | -0.20922 | 6 | 1.47E+08 | F | II | C6orf103 | Body | opensea | Body-opens | rs1167077 | 1;20;33;43 | | | | |
| cg0173965 | 0.215834 | 0.482778 | 11.4203 | 4.63E-06 | 0.00063 | 4.912825 | 0.374861 | 0.590695 | -0.21583 | 8 | 29755226 | F | II | | IGR | opensea | IGR-opense | rs1896177 | 51 | | | | |
| cg1274612 | 0.251072 | 0.425033 | 11.41801 | 4.64E-06 | 0.00063 | 4.911369 | 0.299497 | 0.550569 | -0.25107 | 7 | 1.29E+08 | R | II | SMO | Body | opensea | Body-opens | rs1157402 | 1 | | | | |
| cg0685816 | 0.237205 | 0.600062 | 11.41713 | 4.64E-06 | 0.00063 | 4.910806 | 0.48146 | 0.718664 | -0.2372 | 4 | 1.1E+08 | R | II | COL25A1 | Body | opensea | Body-opens | rs1866193 | 51;14 | | | | |
| cg0780428 | 0.204499 | 0.527768 | 11.4131 | 4.65E-06 | 0.000631 | 4.908238 | 0.425518 | 0.630017 | -0.2045 | 1 | 1.53E+08 | R | II | SPRR2C | TSS1500 | opensea | TSS1500-op | rs3730071 | 22;21;2;1 | | | | |
| cg1771102 | 0.212629 | 0.581854 | 11.41127 | 4.66E-06 | 0.000632 | 4.907074 | 0.47554 | 0.688168 | -0.21263 | 2 | 2.39E+08 | R | II | | IGR | opensea | IGR-opense | rs5289543 | 4 | | | | |
| cg1833247 | 0.231791 | 0.592367 | 11.41108 | 4.66E-06 | 0.000632 | 4.906956 | 0.476471 | 0.708262 | -0.23179 | 11 | 77437756 | R | II | RSF1 | Body | opensea | Body-opens | rs5675824 | 47 | | | | |
| cg1342797 | 0.246494 | 0.585844 | 11.40555 | 4.68E-06 | 0.000633 | 4.903428 | 0.462598 | 0.709091 | -0.24649 | 1 | 94615946 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1528653 | 0.250988 | 0.572863 | 11.40372 | 4.68E-06 | 0.000633 | 4.902263 | 0.447369 | 0.698357 | -0.25099 | 16 | 19823027 | F | II | IQCK | Body | opensea | Body-opens | rs1470942 | 1;33 | | | | |
| cg0900561 | 0.261957 | 0.474054 | 11.40315 | 4.68E-06 | 0.000633 | 4.901897 | 0.343076 | 0.605033 | -0.26196 | 1 | 1.86E+08 | R | II | HMCN1 | Body | opensea | Body-opens | rs5664036 | 1 | | | | |
| cg2709657 | 0.226479 | 0.592625 | 11.40153 | 4.69E-06 | 0.000633 | 4.900863 | 0.479386 | 0.705865 | -0.22648 | 18 | 73141041 | F | II | C18orf62 | TSS1500 | opensea | TSS1500-op | rs5658107 | 22;34 | | | | |
| cg1191258 | 0.247042 | 0.54904 | 11.40112 | 4.69E-06 | 0.000633 | 4.900603 | 0.425519 | 0.672561 | -0.24704 | 1 | 2.03E+08 | F | II | MGAT4EP | Body | opensea | Body-opens | rs1092048 | 13;18;35;42 | | | | |
| cg1848553 | 0.220755 | 0.628576 | 11.39951 | 4.69E-06 | 0.000634 | 4.899576 | 0.518198 | 0.738953 | -0.22076 | 13 | 59547037 | R | II | | IGR | opensea | IGR-opense | rs5337434 | 2 | | | | |
| cg0566178 | 0.23201 | 0.542818 | 11.39841 | 4.7E-06 | 0.000634 | 4.898877 | 0.426813 | 0.658823 | -0.23201 | 1 | 1.16E+08 | F | II | CASQ2 | TSS1500 | opensea | TSS1500-op | rs5631624 | 0 | | | | |
| cg0548643 | 0.22292 | 0.620197 | 11.3982 | 4.7E-06 | 0.000634 | 4.898742 | 0.508737 | 0.731656 | -0.22292 | 1 | 1.62E+08 | R | II | NOS1AP | Body | opensea | Body-opens | rs5761393 | 1 | | | | |
| cg1888038 | 0.224946 | 0.656331 | 11.39719 | 4.7E-06 | 0.000634 | 4.8981 | 0.543858 | 0.768804 | -0.22495 | 6 | 32365113 | R | II | BTNL2 | Body | opensea | Body-opens | rs1178304 | 40;29;24;22;15;2;1 | | | | |
| cg0073366 | 0.214937 | 0.555851 | 11.39635 | 4.7E-06 | 0.000634 | 4.897558 | 0.448382 | 0.663319 | -0.21494 | 11 | 8274959 | R | II | LMO1 | Body | opensea | Body-opens | rs1171650 | 41 | | | | |
| cg2239611 | 0.255637 | 0.606856 | 11.39466 | 4.71E-06 | 0.000634 | 4.896485 | 0.479037 | 0.734674 | -0.25564 | 8 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | rs1825037 | 32 | | | | |
| cg0994140 | 0.238792 | 0.57403 | 11.39339 | 4.71E-06 | 0.000634 | 4.89567 | 0.454634 | 0.693427 | -0.23879 | 7 | 18901296 | R | II | HDAC9 | Body | opensea | Body-opens | rs1174447 | 45;40;8;2 | | | | |
| cg2365346 | 0.242485 | 0.522983 | 11.39286 | 4.71E-06 | 0.000634 | 4.895335 | 0.40174 | 0.644225 | -0.24248 | 2 | 1.42E+08 | F | II | LRP1B | Body | opensea | Body-opens | | | | | | |
| cg1619354 | 0.240285 | 0.490779 | 11.39234 | 4.71E-06 | 0.000634 | 4.895002 | 0.370636 | 0.610921 | -0.24028 | 17 | 53536548 | F | II | | IGR | opensea | IGR-opense | rs5460189 | 10 | | | | |
| cg2530440 | 0.225425 | 0.514938 | 11.39163 | 4.72E-06 | 0.000634 | 4.89455 | 0.402226 | 0.62765 | -0.22542 | 17 | 32485152 | R | II | ACCN1 | TSS1500 | shore | TSS1500-sh | chr17:324 | rs1862167 | 41;1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2343967 | 0.2399 | 0.595575 | 11.39085 | 4.72E-06 | 0.000634 | 4.894053 | 0.475626 | 0.715525 | -0.2399 | 8 | 97597395 | F | II | SDC2 | Body | opensea | Body-opens | rs5768048 | 6;7;13;23 |
| cg0294431 | 0.208735 | 0.571089 | 11.3886 | 4.73E-06 | 0.000635 | 4.892614 | 0.466721 | 0.675456 | -0.20873 | 7 | 3207719 | R | II | | IGR | opensea | IGR-opense | rs5409243 | 48;37;35 |
| cg1386284 | 0.205113 | 0.540226 | 11.38708 | 4.73E-06 | 0.000635 | 4.891642 | 0.437669 | 0.642782 | -0.20511 | 13 | 44272416 | R | II | ENOX1 | 5'UTR | opensea | 5'UTR-open | rs5457994 | 30;20;8;4 |
| cg0602256 | 0.249789 | 0.501309 | 11.38444 | 4.74E-06 | 0.000635 | 4.889958 | 0.376415 | 0.626203 | -0.24979 | 2 | 2.43E+08 | R | I | D2HGDH | Body | opensea | Body-opens | rs57077454 | 25;17;4;2 |
| cg2313905 | 0.209159 | 0.667919 | 11.38058 | 4.75E-06 | 0.000636 | 4.887488 | 0.56334 | 0.772499 | -0.20916 | 11 | 9847030 | F | II | SBF2 | Body | opensea | Body-opens | rs1902214 | 0;42;44;46;51 |
| cg1550970 | 0.212141 | 0.332194 | 11.38039 | 4.75E-06 | 0.000636 | 4.88737 | 0.226124 | 0.438265 | -0.21214 | 20 | 36363187 | F | II | CTNNBL1 | Body | opensea | Body-opens | rs1913148 | 1;15 |
| cg0822905 | 0.208778 | 0.638584 | 11.38016 | 4.75E-06 | 0.000636 | 4.887221 | 0.534195 | 0.742973 | -0.20878 | 13 | 25296292 | R | II | | IGR | shelf | IGR-shelf | chr13:252 | rs1449496 | 45;27;15 |
| cg0530968 | 0.237903 | 0.564 | 11.37783 | 4.76E-06 | 0.000636 | 4.885732 | 0.445048 | 0.682951 | -0.2379 | 18 | 34107658 | R | II | FHOD3 | Body | opensea | Body-opens | | |
| cg2642744 | 0.210221 | 0.462039 | 11.37634 | 4.76E-06 | 0.000636 | 4.884779 | 0.356928 | 0.56715 | -0.21022 | 20 | 30922353 | R | II | KIF3B | 3'UTR | opensea | 3'UTR-open | rs5356068 | 35;19 |
| cg2542698 | 0.225551 | 0.502051 | 11.37598 | 4.76E-06 | 0.000636 | 4.88455 | 0.389275 | 0.614826 | -0.22555 | 18 | 61683198 | F | II | | IGR | opensea | IGR-opense | rs1511701 | 28;46 |
| cg2201455 | 0.228785 | 0.526098 | 11.37368 | 4.77E-06 | 0.000637 | 4.883079 | 0.411706 | 0.640491 | -0.22879 | 7 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | rs1496829 | 1;12;31;34;49 |
| cg2181093 | 0.223626 | 0.53822 | 11.37192 | 4.78E-06 | 0.000637 | 4.881956 | 0.426407 | 0.650033 | -0.22363 | 15 | 62149916 | F | II | VPS13C | Body | opensea | Body-opens | rs1136019 | 8 |
| cg2251384 | 0.216053 | 0.518312 | 11.36806 | 4.79E-06 | 0.000638 | 4.879486 | 0.410285 | 0.626338 | -0.21605 | 2 | 1.62E+08 | F | II | | IGR | opensea | IGR-opense | rs1140303 | 0;35 |
| cg0386298 | 0.207831 | 0.43527 | 11.36767 | 4.79E-06 | 0.000638 | 4.879236 | 0.331355 | 0.539185 | -0.20783 | 4 | 76596784 | R | II | G3BP2 | 5'UTR | shore | 5'UTR-shor | chr4:7659 | |
| cg0724389 | 0.294451 | 0.471 | 11.36497 | 4.8E-06 | 0.000639 | 4.877509 | 0.323775 | 0.618226 | -0.29445 | 3 | 18195180 | F | II | LOC339866 | Body | opensea | Body-opens | rs5592653 | 0;3 |
| cg0494575 | 0.242243 | 0.485109 | 11.36346 | 4.8E-06 | 0.000639 | 4.876542 | 0.363988 | 0.606231 | -0.24224 | 2 | 2.01E+08 | F | II | SPATS2L | Body | opensea | Body-opens | rs5755708 | 1;32;46 |
| cg0467723 | 0.201231 | 0.462662 | 11.36299 | 4.8E-06 | 0.000639 | 4.87624 | 0.362047 | 0.563278 | -0.20123 | 11 | 45274796 | R | II | SYT13 | Body | opensea | Body-opens | rs5530070 | 22;2;1 |
| cg1913935 | 0.238065 | 0.502486 | 11.36276 | 4.8E-06 | 0.000639 | 4.876093 | 0.383453 | 0.621518 | -0.23806 | 5 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | rs1404316 | 1;40 |
| cg2023087 | 0.220138 | 0.541244 | 11.36049 | 4.81E-06 | 0.000639 | 4.87464 | 0.431175 | 0.651313 | -0.22014 | 2 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | rs5531886 | 2 |
| cg0885261 | 0.236975 | 0.579821 | 11.35983 | 4.81E-06 | 0.000639 | 4.874214 | 0.461333 | 0.698308 | -0.23697 | 4 | 1.58E+08 | F | II | PDGFC | Body | opensea | Body-opens | rs5337306 | 7;40 |
| cg0401142 | 0.249188 | 0.554686 | 11.35558 | 4.83E-06 | 0.000639 | 4.871498 | 0.430092 | 0.67928 | -0.24919 | 3 | 1.41E+08 | R | II | ZBTB38 | 5'UTR | opensea | 5'UTR-open | rs5310161 | 47;23;13;5 |
| cg0068933 | 0.200621 | 0.708698 | 11.35488 | 4.83E-06 | 0.000639 | 4.871049 | 0.608387 | 0.809008 | -0.20062 | 13 | 50024281 | F | II | SETDB2 | TSS1500 | opensea | TSS1500-op | rs5332914 | 0;12;13 |
| cg2550934 | 0.203624 | 0.625813 | 11.35472 | 4.83E-06 | 0.000639 | 4.870943 | 0.524001 | 0.727625 | -0.20362 | 5 | 1.72E+08 | F | II | | IGR | opensea | IGR-opense | rs5637879 | 1 |
| cg0101926 | 0.224617 | 0.618703 | 11.35452 | 4.83E-06 | 0.000639 | 4.870819 | 0.506395 | 0.731012 | -0.22462 | 1 | 1.55E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:1550 | rs5329139 | 0;25 |
| cg1188980 | 0.244845 | 0.496295 | 11.35267 | 4.84E-06 | 0.00064 | 4.869628 | 0.373873 | 0.618718 | -0.24485 | 15 | 86253551 | F | II | AKAP13 | Body | opensea | Body-opens | rs5277685 | 1 |
| cg1646274 | 0.216613 | 0.652205 | 11.35084 | 4.84E-06 | 0.00064 | 4.868455 | 0.543899 | 0.760512 | -0.21661 | 14 | 59744940 | F | II | DAAM1 | Body | opensea | Body-opens | rs5352338 | 1 |
| cg0434433 | 0.210532 | 0.522742 | 11.34995 | 4.84E-06 | 0.00064 | 4.867885 | 0.417475 | 0.628008 | -0.21053 | 1 | 97109279 | F | II | | IGR | opensea | IGR-opense | | |
| cg2635344 | 0.203497 | 0.448692 | 11.3499 | 4.84E-06 | 0.00064 | 4.867859 | 0.346944 | 0.550441 | -0.2035 | 1 | 2.49E+08 | F | II | OR2T4 | TSS1500 | opensea | TSS1500-op | rs1544175 | 26;42 |
| cg1989766 | 0.206736 | 0.49778 | 11.34977 | 4.84E-06 | 0.00064 | 4.867775 | 0.394412 | 0.601148 | -0.20674 | 21 | 28484462 | F | II | | IGR | opensea | IGR-opense | rs5293696 | 9;37 |
| cg0591194 | 0.250482 | 0.557861 | 11.34969 | 4.84E-06 | 0.00064 | 4.867721 | 0.432621 | 0.683102 | -0.25048 | 11 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | rs5380282 | 14;27;40 |
| cg1023643 | 0.227245 | 0.504119 | 11.34638 | 4.85E-06 | 0.00064 | 4.865598 | 0.390497 | 0.617742 | -0.22725 | 12 | 1.24E+08 | F | I | SNRNP35 | TSS1500 | shore | TSS1500-sh | chr12:123 | rs6646610 | 40;50 |
| cg0778849 | 0.211642 | 0.574967 | 11.34452 | 4.86E-06 | 0.00064 | 4.86441 | 0.469146 | 0.680787 | -0.21164 | 15 | 86236291 | R | II | AKAP13 | Body | opensea | Body-opens | rs7533160 | 2 |
| cg0482289 | 0.258223 | 0.647471 | 11.34297 | 4.87E-06 | 0.00064 | 4.863413 | 0.518359 | 0.776582 | -0.25822 | 10 | 16612764 | R | II | | IGR | opensea | IGR-opense | rs5866176 | 30;4 |
| cg1174411 | 0.213373 | 0.664435 | 11.34294 | 4.87E-06 | 0.00064 | 4.863393 | 0.557749 | 0.771121 | -0.21337 | 7 | 1.42E+08 | R | II | TAS2R38 | TSS200 | opensea | TSS200-ope | rs3718434 | 2 |
| cg2266912 | 0.239889 | 0.534033 | 11.34232 | 4.87E-06 | 0.00064 | 4.862994 | 0.414089 | 0.653978 | -0.23989 | 12 | 5024586 | F | II | KCNA1 | 3'UTR | shelf | 3'UTR-shelf | chr12:501 | rs1883772 | 42 |
| cg0971123 | 0.211755 | 0.5368 | 11.34224 | 4.87E-06 | 0.00064 | 4.862943 | 0.430922 | 0.642677 | -0.21176 | 12 | 68553709 | R | II | IFNG | TSS200 | opensea | TSS200-ope | rs2069710 | 36;12;8 |
| cg0712465 | 0.229157 | 0.57005 | 11.34196 | 4.87E-06 | 0.00064 | 4.862766 | 0.455472 | 0.684629 | -0.22916 | 5 | 96891229 | F | II | LINC01340 | Body | opensea | Body-opens | rs5488278 | 19 |
| cg1709893 | 0.223538 | 0.678817 | 11.34022 | 4.87E-06 | 0.000641 | 4.861651 | 0.567048 | 0.790586 | -0.22354 | 7 | 17746902 | F | II | | IGR | opensea | IGR-opense | rs5276122 | 4;51 |
| cg1694082 | 0.200211 | 0.469927 | 11.33846 | 4.88E-06 | 0.000641 | 4.860518 | 0.369822 | 0.570033 | -0.20021 | 1 | 2.25E+08 | F | II | | IGR | opensea | IGR-opense | rs1901611 | 7 |
| cg0250099 | 0.204539 | 0.537925 | 11.33794 | 4.88E-06 | 0.000641 | 4.860186 | 0.435656 | 0.640195 | -0.20454 | 10 | 45937578 | R | II | ALOX5 | Body | shore | Body-shore | chr10:459 | rs1420449 | 20;2 |
| cg1534887 | 0.247786 | 0.460813 | 11.33686 | 4.88E-06 | 0.000641 | 4.859491 | 0.33692 | 0.584706 | -0.24779 | 2 | 17854374 | R | II | SMC6 | Body | opensea | Body-opens | rs1505478 | 5 |
| cg1629226 | 0.206589 | 0.700575 | 11.33537 | 4.89E-06 | 0.000641 | 4.858535 | 0.597281 | 0.80387 | -0.20659 | 18 | 21797951 | F | II | OSBPL1A | Body | opensea | Body-opens | | |
| cg1880656 | 0.224392 | 0.594654 | 11.33371 | 4.89E-06 | 0.000641 | 4.857472 | 0.482458 | 0.706851 | -0.22439 | 3 | 23803797 | R | II | | IGR | opensea | IGR-opense | | |
| cg1385278 | 0.210833 | 0.462576 | 11.3335 | 4.89E-06 | 0.000641 | 4.857334 | 0.357159 | 0.567992 | -0.21083 | 9 | 1.01E+08 | R | II | GABBR2 | Body | opensea | Body-opens | rs5639870 | 45;1 |
| cg1381544 | 0.268193 | 0.533438 | 11.33246 | 4.9E-06 | 0.000641 | 4.856671 | 0.399342 | 0.667534 | -0.26819 | 11 | 88028475 | R | II | CTSC | Body | opensea | Body-opens | rs5606178 | 21;18;8 |
| cg1568147 | 0.215554 | 0.507434 | 11.33182 | 4.9E-06 | 0.000641 | 4.856258 | 0.399657 | 0.615211 | -0.21555 | 11 | 45128880 | F | II | PRDM11 | Body | opensea | Body-opens | rs5720915 | 19;21 |
| cg0336129 | 0.222983 | 0.532356 | 11.33136 | 4.9E-06 | 0.000641 | 4.85596 | 0.420864 | 0.643847 | -0.22298 | 14 | 57051003 | F | II | TMEM260 | Body | opensea | Body-opens | rs1820326 | 10 |
| cg1114287 | 0.212523 | 0.546981 | 11.33065 | 4.9E-06 | 0.000641 | 4.855508 | 0.440719 | 0.653242 | -0.21252 | 7 | 39971006 | R | II | | IGR | opensea | IGR-opense | | |
| cg1417491 | 0.211819 | 0.293032 | 11.33019 | 4.91E-06 | 0.000641 | 4.855211 | 0.187123 | 0.398942 | -0.21182 | 10 | 3824516 | F | II | KLF6 | Body | shore | Body-shore | chr10:382 | rs1490189 | 20;39 |
| cg1244016 | 0.261046 | 0.410838 | 11.33014 | 4.91E-06 | 0.000641 | 4.855177 | 0.280315 | 0.54136 | -0.26105 | 15 | 57822016 | F | II | CGNL1 | Body | opensea | Body-opens | rs1435686 | 1;34;47 |
| cg1095474 | 0.204401 | 0.559387 | 11.32979 | 4.91E-06 | 0.000641 | 4.854956 | 0.457186 | 0.661587 | -0.2044 | 8 | 1.11E+08 | F | II | KCNV1 | Body | shelf | Body-shelf | chr8:11095 | rs1917402 | 0;1;22 |
| cg1163416 | 0.235254 | 0.627018 | 11.32936 | 4.91E-06 | 0.000641 | 4.854676 | 0.509391 | 0.744645 | -0.23525 | 10 | 31893331 | F | II | | IGR | shore | IGR-shore | chr10:318 | | |
| cg1024167 | 0.216149 | 0.443975 | 11.32865 | 4.91E-06 | 0.000641 | 4.854223 | 0.335901 | 0.55205 | -0.21615 | 13 | 31942320 | F | II | | IGR | opensea | IGR-opense | rs5280044 | 42 |
| cg0525937 | 0.255045 | 0.526269 | 11.32665 | 4.92E-06 | 0.000641 | 4.852934 | 0.398746 | 0.653792 | -0.25505 | 13 | 60308743 | R | II | DIAPH3 | Body | opensea | Body-opens | rs1180984 | 49;28;5;2 |
| cg2263700 | 0.232924 | 0.455171 | 11.32502 | 4.92E-06 | 0.000641 | 4.851889 | 0.338708 | 0.571633 | -0.23292 | 2 | 706036 | R | II | | IGR | opensea | IGR-opense | | |
| cg1648023 | 0.238808 | 0.459628 | 11.32044 | 4.94E-06 | 0.000642 | 4.848949 | 0.340224 | 0.579033 | -0.23881 | 20 | 9160245 | F | II | PLCB4 | 5'UTR | opensea | 5'UTR-open | rs1509038 | 0 |
| cg0815153 | 0.200204 | 0.645408 | 11.31586 | 4.95E-06 | 0.000642 | 4.846 | 0.545306 | 0.74551 | -0.2002 | 18 | 53053356 | F | II | TCF4 | Body | opensea | Body-opens | rs7349294 | 42 |
| cg0957039 | 0.211546 | 0.578752 | 11.31406 | 4.96E-06 | 0.000642 | 4.844843 | 0.472979 | 0.684525 | -0.21155 | 11 | 34646080 | F | II | EHF | 5'UTR | opensea | 5'UTR-open | rs1476292 | 26 |
| cg1887541 | 0.224201 | 0.602643 | 11.31399 | 4.96E-06 | 0.000642 | 4.844799 | 0.490543 | 0.714743 | -0.2242 | 4 | 1.69E+08 | R | II | PALLD | Body | opensea | Body-opens | | |
| cg1644042 | 0.226342 | 0.560741 | 11.31381 | 4.96E-06 | 0.000642 | 4.844681 | 0.44757 | 0.673912 | -0.22634 | 3 | 1.6E+08 | F | II | IL12A-AS1 | TSS1500 | opensea | TSS1500-op | rs9852490 | 14;35 |
| cg2386315 | 0.223135 | 0.501038 | 11.31308 | 4.96E-06 | 0.000642 | 4.844213 | 0.38947 | 0.612605 | -0.22313 | 4 | 1.67E+08 | R | II | | IGR | opensea | IGR-opense | rs5318933 | 44;25 |
| cg2525444 | 0.21945 | 0.646397 | 11.31238 | 4.96E-06 | 0.000642 | 4.843763 | 0.536672 | 0.756122 | -0.21945 | 9 | 21408013 | F | II | IFNA8 | TSS1500 | opensea | TSS1500-op | rs1494319 | 2;38;42 |
| cg2490781 | 0.242455 | 0.618111 | 11.31237 | 4.96E-06 | 0.000642 | 4.843758 | 0.496884 | 0.739339 | -0.24246 | 1 | 1.13E+08 | F | II | CAPZA1 | Body | opensea | Body-opens | rs5333111 | 24 |
| cg1286460 | 0.215068 | 0.611282 | 11.31119 | 4.96E-06 | 0.000643 | 4.842999 | 0.503748 | 0.718816 | -0.21507 | 11 | 1.15E+08 | F | II | CADM1 | Body | opensea | Body-opens | rs1482046 | 1;43 |
| cg0547808 | 0.215998 | 0.529986 | 11.3105 | 4.97E-06 | 0.000643 | 4.842555 | 0.421987 | 0.637985 | -0.216 | 7 | 1.34E+08 | F | II | AKR1B15 | TSS200 | opensea | TSS200-ope | rs5777005 | 0;25;27;32 |
| cg1944131 | 0.206147 | 0.49733 | 11.30924 | 4.97E-06 | 0.000643 | 4.841743 | 0.394257 | 0.600404 | -0.20615 | 3 | 1.24E+08 | R | II | MYLK | Body | opensea | Body-opens | | |
| cg0845623 | 0.205595 | 0.625501 | 11.30901 | 4.97E-06 | 0.000643 | 4.841597 | 0.522704 | 0.728298 | -0.20559 | 1 | 2.04E+08 | F | II | | IGR | opensea | IGR-opense | rs5493951 | 0 |
| cg2615013 | 0.212258 | 0.619709 | 11.3087 | 4.97E-06 | 0.000643 | 4.8414 | 0.51358 | 0.725838 | -0.21226 | 5 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | rs5677587 | 1 |
| cg2378620 | 0.223488 | 0.464616 | 11.30713 | 4.98E-06 | 0.000643 | 4.840384 | 0.352872 | 0.576359 | -0.22349 | 10 | 77057425 | R | II | | IGR | shelf | IGR-shelf | chr10:770 | | |
| cg0345071 | 0.227442 | 0.470411 | 11.30658 | 4.98E-06 | 0.000643 | 4.840034 | 0.35669 | 0.584132 | -0.22744 | 2 | 1.03E+08 | R | II | IL18RAP | Body | opensea | Body-opens | rs1511331 | 40;29 |
| cg2722246 | 0.203804 | 0.70751 | 11.30604 | 4.98E-06 | 0.000643 | 4.839684 | 0.605608 | 0.809412 | -0.2038 | 3 | 1.12E+08 | F | II | SLC9C1 | Body | opensea | Body-opens | | |
| cg0517476 | 0.208106 | 0.563884 | 11.30578 | 4.98E-06 | 0.000643 | 4.839519 | 0.459831 | 0.667937 | -0.20811 | 11 | 84880848 | F | II | DLG2 | Body | opensea | Body-opens | rs7178301 | 1;35 |
| cg0457547 | 0.23226 | 0.436623 | 11.3046 | 4.99E-06 | 0.000643 | 4.838761 | 0.320493 | 0.552753 | -0.23226 | 6 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | rs1321172 | 21;1 |
| cg1476379 | 0.211688 | 0.482824 | 11.302 | 4.99E-06 | 0.000644 | 4.837084 | 0.37698 | 0.588668 | -0.21169 | 2 | 1.33E+08 | F | II | NCKAP5 | Body | shelf | Body-shelf | chr2:1334 | | |
| cg0725537 | 0.210049 | 0.488371 | 11.30116 | 5E-06 | 0.000644 | 4.836542 | 0.383346 | 0.593395 | -0.21005 | 1 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | rs5570282 | 38;25;22;8 |
| cg1530350 | 0.211746 | 0.39675 | 11.30006 | 5E-06 | 0.000644 | 4.835832 | 0.290877 | 0.502623 | -0.21175 | 3 | 1.51E+08 | R | II | CLRN1 | 3'UTR | opensea | 3'UTR-open | rs7771890 | 46;35;21;1 |
| cg1759146 | 0.204364 | 0.699897 | 11.29946 | 5E-06 | 0.000644 | 4.83545 | 0.597715 | 0.802079 | -0.20436 | 4 | 87102408 | F | II | LOC101929 | Body | opensea | Body-opens | rs1379720 | 0 |
| cg0642216 | 0.211906 | 0.485224 | 11.29737 | 5.01E-06 | 0.000644 | 4.8341 | 0.379271 | 0.591177 | -0.21191 | 1 | 26406870 | F | II | | IGR | opensea | IGR-opense | rs7664787 | 10;34 |
| cg1280287 | 0.246656 | 0.454168 | 11.29668 | 5.01E-06 | 0.000644 | 4.833654 | 0.33084 | 0.577496 | -0.24666 | 8 | 72751354 | F | II | | IGR | shelf | IGR-shelf | chr8:7275 | rs5663303 | 0;1;30;36;46 |
| cg1194257 | 0.220942 | 0.597665 | 11.29602 | 5.01E-06 | 0.000644 | 4.833229 | 0.487194 | 0.708136 | -0.22094 | 2 | 48952008 | R | II | LHCGR | Body | opensea | Body-opens | rs4366951 | 39;21;20;1 |
| cg1015870 | 0.31373 | 0.534867 | 11.29595 | 5.01E-06 | 0.000644 | 4.833188 | 0.378002 | 0.691732 | -0.31373 | 5 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | rs5320644 | 1;44 |
| cg1172540 | 0.21222 | 0.577445 | 11.29512 | 5.02E-06 | 0.000644 | 4.832654 | 0.471335 | 0.683555 | -0.21222 | 14 | 21625063 | F | II | OR5AU1 | TSS1500 | opensea | TSS1500-op | rs5390788 | 23;37 |
| cg0264221 | 0.216475 | 0.670689 | 11.29286 | 5.02E-06 | 0.000645 | 4.831199 | 0.562451 | 0.778926 | -0.21648 | 4 | 89388747 | R | II | HERC5 | Body | opensea | Body-opens | rs5768238 | 25;24 |
| cg2315639 | 0.241729 | 0.533388 | 11.29193 | 5.03E-06 | 0.000645 | 4.830598 | 0.412523 | 0.654252 | -0.24173 | 3 | 1.7E+08 | F | II | SAMD7 | Body | opensea | Body-opens | rs9870311 | 18;48 |
| cg1066914 | 0.246704 | 0.551082 | 11.29169 | 5.03E-06 | 0.000645 | 4.830439 | 0.427729 | 0.674434 | -0.2467 | 3 | 1.51E+08 | R | II | CLRN1 | Body | opensea | Body-opens | rs5769908 | 38;22 |
| cg0852779 | 0.223417 | 0.465032 | 11.29111 | 5.03E-06 | 0.000645 | 4.830071 | 0.353324 | 0.57674 | -0.22342 | 8 | 21274126 | R | II | | IGR | opensea | IGR-opense | rs5554869 | 7;1 |
| cg1669734 | 0.236199 | 0.454849 | 11.28951 | 5.03E-06 | 0.000645 | 4.829036 | 0.336749 | 0.572948 | -0.2362 | 18 | 3319784 | F | II | | IGR | opensea | IGR-opense | rs1050231 | 13;32;38;41;51 |
| cg2387466 | 0.211005 | 0.547399 | 11.28641 | 5.04E-06 | 0.000645 | 4.827037 | 0.441896 | 0.652901 | -0.21101 | 1 | 1.63E+08 | F | II | DDR2 | TSS1500 | opensea | TSS1500-op | rs1212633 | 40 |
| cg2243225 | 0.200618 | 0.57203 | 11.28573 | 5.05E-06 | 0.000645 | 4.826596 | 0.471721 | 0.672339 | -0.20062 | 1 | 2.19E+08 | F | II | MIR548F3 | Body | opensea | Body-opens | | |
| cg1927312 | 0.227231 | 0.53253 | 11.2845 | 5.05E-06 | 0.000646 | 4.825808 | 0.418914 | 0.646146 | -0.22723 | 10 | 60380342 | F | II | BICC1 | Body | opensea | Body-opens | rs1886466 | 0;24 |
| cg1216198 | 0.229652 | 0.56545 | 11.28343 | 5.05E-06 | 0.000646 | 4.825114 | 0.450624 | 0.680276 | -0.22965 | 10 | 49802919 | R | II | ARHGAP22 | Body | opensea | Body-opens | rs5622957 | 47;14 |
| cg1735227 | 0.248902 | 0.573632 | 11.28071 | 5.06E-06 | 0.000647 | 4.823361 | 0.449181 | 0.698083 | -0.2489 | 15 | 66795208 | R | II | SNORD16 | Body | opensea | Body-opens | rs2022393 | 49;42;38;24;2 |
| cg1628421 | 0.20241 | 0.682285 | 11.27917 | 5.07E-06 | 0.000647 | 4.822368 | 0.58108 | 0.78349 | -0.20241 | 18 | 9741480 | R | II | RAB31 | Body | opensea | Body-opens | rs1149817 | 34;2 |
| cg2739742 | 0.202498 | 0.565464 | 11.27683 | 5.08E-06 | 0.000648 | 4.820859 | 0.464215 | 0.666713 | -0.2025 | 2 | 1.53E+08 | F | II | CACNB4 | Body | opensea | Body-opens | rs5502444 | 4;12;15;24 |
| cg2333028 | 0.229578 | 0.541758 | 11.27603 | 5.08E-06 | 0.000648 | 4.820344 | 0.426969 | 0.656547 | -0.22958 | 11 | 19372234 | R | II | NAV2 | TSS200 | opensea | TSS200-ope | rs1816913 | 47;2 |
| cg1104978 | 0.233895 | 0.618456 | 11.2757 | 5.08E-06 | 0.000648 | 4.820128 | 0.501508 | 0.735403 | -0.23389 | 1 | 1.78E+08 | F | II | RASAL2 | Body | opensea | Body-opens | rs1275590 | 42 |
| cg2305127 | 0.228362 | 0.521579 | 11.2754 | 5.08E-06 | 0.000648 | 4.819933 | 0.407398 | 0.63576 | -0.22836 | 17 | 55253027 | R | II | | IGR | opensea | IGR-opense | rs7399179 | 42;37;26;23;1 |
| cg1777513 | 0.219303 | 0.567429 | 11.27495 | 5.08E-06 | 0.000648 | 4.819646 | 0.457778 | 0.67708 | -0.2193 | 5 | 59089139 | F | II | PDE4D | Body | opensea | Body-opens | rs6133261 | 1;42;45 |
| cg1230198 | 0.257822 | 0.505793 | 11.27472 | 5.08E-06 | 0.000648 | 4.819492 | 0.376882 | 0.634704 | -0.25782 | 2 | 1E+08 | R | II | AFF3 | Body | opensea | Body-opens | rs1479200 | 47 |
| cg1480000 | 0.208889 | 0.458995 | 11.27427 | 5.08E-06 | 0.000648 | 4.819202 | 0.354551 | 0.56344 | -0.20889 | 6 | 1.12E+08 | R | II | FYN | 5'UTR | opensea | 5'UTR-open | rs5566641 | 42 |
| cg0896456 | 0.223349 | 0.50514 | 11.27423 | 5.08E-06 | 0.000648 | 4.819179 | 0.393465 | 0.616814 | -0.22335 | 7 | 1.16E+08 | F | II | MET | 5'UTR | opensea | 5'UTR-open | | |
| cg0820668 | 0.200978 | 0.535284 | 11.27096 | 5.09E-06 | 0.000648 | 4.817067 | 0.434795 | 0.635772 | -0.20098 | 21 | 45420795 | R | II | | IGR | opensea | IGR-opense | rs5445879 | 28;20;18;2;1 |
| cg0624324 | 0.238171 | 0.437779 | 11.26956 | 5.1E-06 | 0.000648 | 4.816163 | 0.318694 | 0.556865 | -0.23817 | 9 | 89988940 | F | II | | IGR | opensea | IGR-opense | | |
| cg0042921 | 0.236582 | 0.628697 | 11.26948 | 5.1E-06 | 0.000648 | 4.816112 | 0.510405 | 0.746988 | -0.23658 | 2 | 1.91E+08 | R | II | PMS1 | 5'UTR | opensea | 5'UTR-open | rs5661803 | 47;32;20;2 |
| cg0801466 | 0.211291 | 0.591092 | 11.26947 | 5.1E-06 | 0.000648 | 4.816103 | 0.485446 | 0.696737 | -0.21129 | 6 | 22334619 | R | II | | IGR | opensea | IGR-opense | rs1820185 | 44 |
| cg0512343 | 0.206329 | 0.541171 | 11.26933 | 5.1E-06 | 0.000648 | 4.816012 | 0.438006 | 0.644336 | -0.20633 | 12 | 81392156 | F | II | | IGR | opensea | IGR-opense | rs1824781 | 4;34 |
| cg1592756 | 0.22866 | 0.477526 | 11.26747 | 5.11E-06 | 0.000648 | 4.814812 | 0.363196 | 0.591856 | -0.22866 | 4 | 42635853 | F | II | ATP8A1 | Body | opensea | Body-opens | rs5583712 | 1;15 |
| cg1491417 | 0.241242 | 0.630004 | 11.2665 | 5.11E-06 | 0.000648 | 4.81419 | 0.509383 | 0.750626 | -0.24124 | 3 | 31045929 | R | II | | IGR | opensea | IGR-opense | rs5330639 | 47 |
| cg1936333 | 0.260029 | 0.496866 | 11.26488 | 5.11E-06 | 0.000649 | 4.813141 | 0.366851 | 0.62688 | -0.26003 | 8 | 77897727 | F | II | PEX2 | 5'UTR | opensea | 5'UTR-open | | |
| cg1343457 | 0.222983 | 0.655482 | 11.26446 | 5.12E-06 | 0.000649 | 4.812868 | 0.543991 | 0.766973 | -0.22298 | 1 | 2.06E+08 | F | II | CTSE | TSS1500 | opensea | TSS1500-op | | |
| cg2099448 | 0.238446 | 0.483334 | 11.26215 | 5.12E-06 | 0.000649 | 4.811373 | 0.364111 | 0.602557 | -0.23845 | 6 | 1.68E+08 | R | II | TTLL2 | Body | opensea | Body-opens | | |
| cg0953026 | 0.22664 | 0.639727 | 11.25864 | 5.13E-06 | 0.00065 | 4.809108 | 0.526407 | 0.753047 | -0.22664 | 10 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | rs5373852 | 2 |
| cg1618153 | 0.225247 | 0.538401 | 11.25648 | 5.14E-06 | 0.00065 | 4.807711 | 0.425778 | 0.651024 | -0.22525 | 18 | 28629471 | F | II | | IGR | opensea | IGR-opense | rs5716031 | 6 |
| cg0157176 | 0.210098 | 0.697731 | 11.25609 | 5.14E-06 | 0.00065 | 4.807458 | 0.592682 | 0.80278 | -0.2101 | 11 | 9973545 | R | II | SBF2 | Body | opensea | Body-opens | rs7938570 | 36;27;16 |
| cg2189934 | 0.223069 | 0.522223 | 11.25557 | 5.15E-06 | 0.00065 | 4.807121 | 0.410689 | 0.633758 | -0.22307 | 1 | 68419196 | R | II | GNG12-AS1 | Body | opensea | Body-opens | rs7567508 | 34;21 |
| cg0969476 | 0.205439 | 0.596338 | 11.25446 | 5.15E-06 | 0.00065 | 4.806401 | 0.493618 | 0.699058 | -0.20544 | 14 | 59408465 | R | II | LINC01500 | Body | opensea | Body-opens | rs5691589 | 44;39 |
| cg1692580 | 0.232903 | 0.532553 | 11.25442 | 5.15E-06 | 0.00065 | 4.806377 | 0.416102 | 0.649005 | -0.2329 | 14 | 73939631 | R | II | | IGR | opensea | IGR-opense | | |
| cg0775576 | 0.21769 | 0.553351 | 11.25431 | 5.15E-06 | 0.00065 | 4.806305 | 0.444665 | 0.662355 | -0.21769 | 12 | 22563748 | R | II | | IGR | opensea | IGR-opense | rs1857020 | 49;2;1 |
| cg2753885 | 0.233874 | 0.56143 | 11.25366 | 5.15E-06 | 0.00065 | 4.805882 | 0.444493 | 0.678367 | -0.23387 | 1 | 15106700 | R | II | KIAA1026 | Body | opensea | Body-opens | rs5565177 | 21 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2082675 | 0.229678 | 0.566776 | 11.24779 | 5.17E-06 | 0.000651 | 4.80209 | 0.451937 | 0.681615 | -0.22968 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-opens | | | | | | | |
| cg1665176 | 0.217356 | 0.546971 | 11.24774 | 5.17E-06 | 0.000651 | 4.802056 | 0.438293 | 0.655649 | -0.21736 | 1 | 2.22E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1439369 | 0.215236 | 0.473002 | 11.24741 | 5.17E-06 | 0.000651 | 4.801842 | 0.365384 | 0.58062 | -0.21524 | 6 | 1.66E+08 | R | II | PDE10A | Body | opensea | Body-opens | | rs5733046 | 41;37;2 | | | | |
| cg0220880 | 0.22659 | 0.586143 | 11.24638 | 5.18E-06 | 0.000651 | 4.801175 | 0.472848 | 0.699438 | -0.22659 | 15 | 52298012 | R | II | | IGR | opensea | IGR-opense | | rs1381601 | 6;1 | | | | |
| cg1079874 | 0.223667 | 0.359016 | 11.24542 | 5.18E-06 | 0.000651 | 4.800552 | 0.247182 | 0.47085 | -0.22367 | 1 | 1.46E+08 | R | II | CD160 | TSS200 | shore | TSS200-shc | chr1:1457 | rs1859238 | 44;2 | | | | |
| cg1443813 | 0.204374 | 0.571124 | 11.24502 | 5.18E-06 | 0.000651 | 4.800297 | 0.468936 | 0.673311 | -0.20437 | 21 | 40170587 | R | II | | IGR | opensea | IGR-opense | | rs5620753 | 30;5;2;1 | | | | |
| cg1923518 | 0.259473 | 0.412361 | 11.24482 | 5.18E-06 | 0.000651 | 4.800167 | 0.282624 | 0.542097 | -0.25947 | 3 | 1.56E+08 | R | II | KCNAB1-AS | TSS200 | opensea | TSS200-ope | | | | | | | |
| cg0385333 | 0.206274 | 0.506152 | 11.24412 | 5.18E-06 | 0.000651 | 4.799714 | 0.403015 | 0.609289 | -0.20627 | 7 | 1.39E+08 | F | II | HIPK2 | Body | opensea | Body-opens | | rs1133252 | 42 | | | | |
| cg0744629 | 0.219313 | 0.426266 | 11.24223 | 5.19E-06 | 0.000651 | 4.798485 | 0.316609 | 0.535922 | -0.21931 | 9 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs5381093 | 36 | | | | |
| cg1852069 | 0.250253 | 0.496993 | 11.24212 | 5.19E-06 | 0.000651 | 4.798414 | 0.371866 | 0.622119 | -0.25025 | 17 | 4631822 | R | II | | IGR | shelf | IGR-shelf | chr17:463 | rs2272813 | 2 | | | | |
| cg2150863 | 0.225282 | 0.449659 | 11.24138 | 5.19E-06 | 0.000651 | 4.797936 | 0.337018 | 0.5623 | -0.22528 | 17 | 54667590 | R | II | | IGR | shelf | IGR-shelf | chr17:546 | rs6690778 | 7 | | | | |
| cg1901021 | 0.20037 | 0.495847 | 11.23984 | 5.2E-06 | 0.000651 | 4.796936 | 0.395662 | 0.596033 | -0.20037 | 2 | 1.06E+08 | F | II | NCK2 | Body | opensea | Body-opens | | rs5342305 | 0;1;11 | | | | |
| cg0650921 | 0.243954 | 0.552909 | 11.2397 | 5.2E-06 | 0.000651 | 4.796847 | 0.430932 | 0.674886 | -0.24395 | 18 | 42855350 | F | II | SLC14A2 | 5'UTR | opensea | 5'UTR-open | | rs1458994 | 0;34;49 | | | | |
| cg1566192 | 0.266959 | 0.576673 | 11.23963 | 5.2E-06 | 0.000651 | 4.7968 | 0.443194 | 0.710153 | -0.26696 | 21 | 15919643 | R | II | SAMSN1 | TSS1500 | opensea | TSS1500-op | | | | | | | |
| cg1199649 | 0.248713 | 0.615259 | 11.23898 | 5.2E-06 | 0.000651 | 4.796385 | 0.490903 | 0.739616 | -0.24871 | 3 | 37026597 | F | II | | IGR | opensea | IGR-opense | | rs1879520 | 1;3 | | | | |
| cg1821882 | 0.206489 | 0.636251 | 11.23886 | 5.2E-06 | 0.000651 | 4.796304 | 0.533007 | 0.739496 | -0.20649 | 22 | 38729789 | F | II | LOC40092 | 5'UTR | opensea | 5'UTR-open | | rs5598088 | 0 | | | | |
| cg2027564 | 0.266456 | 0.429985 | 11.23879 | 5.2E-06 | 0.000651 | 4.79626 | 0.296757 | 0.563213 | -0.26646 | 10 | 10911683 | R | II | | IGR | opensea | IGR-opense | | rs1382590 | 2 | | | | |
| cg0458489 | 0.241451 | 0.654169 | 11.23591 | 5.21E-06 | 0.000652 | 4.794393 | 0.533444 | 0.774895 | -0.24145 | 2 | 1.03E+08 | F | II | SLC9A2 | Body | opensea | Body-opens | | | | | | | |
| cg0885563 | 0.210469 | 0.575828 | 11.23398 | 5.22E-06 | 0.000652 | 4.793146 | 0.470594 | 0.681063 | -0.21047 | 3 | 68978377 | R | II | FAM19A4 | 5'UTR | shelf | 5'UTR-shelf | chr3:6898 | rs1899606 | 42;13;2 | | | | |
| cg2625204 | 0.21654 | 0.642468 | 11.23216 | 5.22E-06 | 0.000653 | 4.791964 | 0.534198 | 0.750738 | -0.21654 | 11 | 34256703 | F | II | ABTB2 | Body | opensea | Body-opens | | rs5645527 | 0 | | | | |
| cg1600822 | 0.201704 | 0.456239 | 11.23194 | 5.22E-06 | 0.000653 | 4.791819 | 0.355387 | 0.557091 | -0.2017 | 20 | 39122112 | R | II | | IGR | opensea | IGR-opense | | rs5453137 | 42;9;1 | | | | |
| cg1447842 | 0.209566 | 0.648177 | 11.2315 | 5.23E-06 | 0.000653 | 4.791534 | 0.543394 | 0.75296 | -0.20957 | 2 | 2.34E+08 | F | II | NGEF | 1stExon | opensea | 1stExon-op | | rs5781575 | 12;38 | | | | |
| cg2615549 | 0.216993 | 0.469487 | 11.23079 | 5.23E-06 | 0.000653 | 4.791074 | 0.360991 | 0.577983 | -0.21699 | 1 | 1.1E+08 | F | II | GPR61 | TSS200 | opensea | TSS200-ope | | rs1702324 | 14 | | | | |
| cg1388508 | 0.210056 | 0.515044 | 11.22756 | 5.24E-06 | 0.000653 | 4.788981 | 0.410016 | 0.620071 | -0.21006 | 22 | 42823184 | F | II | NFAM1 | Body | opensea | Body-opens | | | | | | | |
| cg2278362 | 0.225457 | 0.625546 | 11.22726 | 5.24E-06 | 0.000653 | 4.788785 | 0.512818 | 0.738275 | -0.22546 | 11 | 64914347 | F | II | | IGR | opensea | IGR-opense | | rs5386908 | 1;51 | | | | |
| cg1713117 | 0.207347 | 0.454923 | 11.22703 | 5.24E-06 | 0.000653 | 4.788639 | 0.351249 | 0.558596 | -0.20735 | 16 | 78802689 | F | II | WWOX | Body | opensea | Body-opens | | rs5765530 | 0;6;10;39 | | | | |
| cg1074089 | 0.207953 | 0.637147 | 11.22547 | 5.25E-06 | 0.000653 | 4.787625 | 0.533171 | 0.741124 | -0.20795 | 20 | 43838292 | R | II | SEMG1 | 3'UTR | opensea | 3'UTR-open | | rs6032056 | 1 | | | | |
| cg0667677 | 0.229118 | 0.591112 | 11.22543 | 5.25E-06 | 0.000653 | 4.787596 | 0.476552 | 0.705671 | -0.22912 | 5 | 1.48E+08 | R | II | | IGR | shelf | IGR-shelf | chr5:1482 | rs5335151 | 34;20 | | | | |
| cg1372453 | 0.225631 | 0.565467 | 11.22464 | 5.25E-06 | 0.000653 | 4.787087 | 0.452651 | 0.678282 | -0.22563 | 15 | 57737565 | R | II | CGNL1 | Body | opensea | Body-opens | | rs1420332 | 1 | | | | |
| cg2282782 | 0.217489 | 0.511055 | 11.22429 | 5.25E-06 | 0.000653 | 4.786861 | 0.40231 | 0.619799 | -0.21749 | 2 | 1.98E+08 | F | II | HSPE1 | Body | shelf | Body-shelf | chr2:1983 | rs5560777 | 0;15;18;25 | | | | |
| cg1560418 | 0.202996 | 0.57497 | 11.22366 | 5.25E-06 | 0.000653 | 4.786447 | 0.473472 | 0.676468 | -0.203 | 2 | 62687964 | R | II | | IGR | shelf | IGR-shelf | chr2:6268 | rs5680639 | 33 | | | | |
| cg0526678 | 0.20059 | 0.693894 | 11.22363 | 5.25E-06 | 0.000653 | 4.786432 | 0.593599 | 0.794189 | -0.20059 | 10 | 49742271 | F | II | ARHGAP22 | Body | opensea | Body-opens | | rs1402868 | 15 | | | | |
| cg0991180 | 0.223372 | 0.42089 | 11.22346 | 5.25E-06 | 0.000653 | 4.786321 | 0.309204 | 0.532576 | -0.22337 | 9 | 1.14E+08 | F | II | LPAR1 | Body | opensea | Body-opens | | rs1380223 | 0;1;7;21;47;50 | | | | |
| cg1492172 | 0.213197 | 0.560722 | 11.22158 | 5.26E-06 | 0.000653 | 4.785103 | 0.454124 | 0.667321 | -0.2132 | 3 | 1.6E+08 | F | II | IQCJ-SCHIP | Body | opensea | Body-opens | | rs1506652 | 32;36;38 | | | | |
| cg2741756 | 0.218994 | 0.372831 | 11.22103 | 5.26E-06 | 0.000654 | 4.784742 | 0.263334 | 0.482328 | -0.21899 | 19 | 51711261 | F | II | MIR8074 | TSS1500 | opensea | TSS1500-op | | rs8014857 | 1;42 | | | | |
| cg0842307 | 0.213971 | 0.645525 | 11.21894 | 5.27E-06 | 0.000654 | 4.783389 | 0.53854 | 0.752511 | -0.21397 | 4 | 1.65E+08 | R | II | MARCH1 | Body | opensea | Body-opens | | rs5777040 | 51;23;8 | | | | |
| cg0420541 | 0.204033 | 0.663586 | 11.21881 | 5.27E-06 | 0.000654 | 4.783304 | 0.561569 | 0.765602 | -0.20403 | 17 | 54785335 | R | II | | IGR | opensea | IGR-opense | | rs227711;r | 45;33;27;26 | | | | |
| cg2408217 | 0.237602 | 0.542298 | 11.21816 | 5.27E-06 | 0.000654 | 4.782882 | 0.423497 | 0.661099 | -0.2376 | 3 | 1.87E+08 | F | II | SNORA63 | TSS1500 | shore | TSS1500-sh | chr3:1865 | rs5352836 | 1;2 | | | | |
| cg0261469 | 0.201464 | 0.461203 | 11.217 | 5.27E-06 | 0.000654 | 4.782126 | 0.360471 | 0.561935 | -0.20146 | 4 | 10262707 | R | II | | IGR | opensea | IGR-opense | | rs1883481 | 47;4 | | | | |
| cg2029844 | 0.21749 | 0.413137 | 11.21438 | 5.28E-06 | 0.000655 | 4.780425 | 0.304392 | 0.521882 | -0.21749 | 4 | 47536255 | R | II | ATP10D | Body | opensea | Body-opens | | rs5633395 | 1 | | | | |
| cg2301470 | 0.242739 | 0.487715 | 11.21366 | 5.29E-06 | 0.000655 | 4.77996 | 0.366346 | 0.609085 | -0.24274 | 5 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0411210 | 0.271798 | 0.516289 | 11.21317 | 5.29E-06 | 0.000655 | 4.779642 | 0.38039 | 0.652188 | -0.2718 | 2 | 1.44E+08 | R | II | KYNU | Body | opensea | Body-opens | | | | | | | |
| cg2656803 | 0.247778 | 0.599671 | 11.2131 | 5.29E-06 | 0.000655 | 4.779597 | 0.475782 | 0.723561 | -0.24778 | 10 | 91313380 | F | II | | IGR | opensea | IGR-opense | | rs1429255 | 1;39 | | | | |
| cg0978058 | 0.239646 | 0.577925 | 11.21124 | 5.29E-06 | 0.000655 | 4.778386 | 0.458102 | 0.697748 | -0.23965 | 3 | 55540579 | R | II | | IGR | opensea | IGR-opense | | rs5714728 | 21 | | | | |
| cg0706929 | 0.227744 | 0.560583 | 11.20931 | 5.3E-06 | 0.000656 | 4.777135 | 0.446711 | 0.674454 | -0.22774 | 8 | 80735125 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5589720 | 40 | | | | |
| cg2745554 | 0.200657 | 0.55362 | 11.20902 | 5.3E-06 | 0.000656 | 4.776943 | 0.453292 | 0.653949 | -0.20066 | 2 | 18866125 | R | II | | IGR | opensea | IGR-opense | | rs1403968 | 50;38;1 | | | | |
| cg1493693 | 0.233509 | 0.581181 | 11.20872 | 5.3E-06 | 0.000656 | 4.776751 | 0.464427 | 0.697936 | -0.23351 | 8 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1832738 | 46;7 | | | | |
| cg2540564 | 0.241116 | 0.579167 | 11.20827 | 5.3E-06 | 0.000656 | 4.776459 | 0.458609 | 0.699725 | -0.24112 | 2 | 2.18E+08 | F | II | DIRC3 | Body | opensea | Body-opens | | rs5431954 | 11;22 | | | | |
| cg1115030 | 0.261864 | 0.416871 | 11.20523 | 5.31E-06 | 0.000656 | 4.774484 | 0.285939 | 0.547803 | -0.26186 | 1 | 1.98E+08 | F | II | | IGR | opensea | IGR-opense | | rs5311340 | 0 | | | | |
| cg1977192 | 0.227828 | 0.542064 | 11.20306 | 5.32E-06 | 0.000657 | 4.773075 | 0.42815 | 0.655978 | -0.22783 | 2 | 1.74E+08 | F | II | RAPGEF4 | Body | opensea | Body-opens | | rs5464038 | 14;36 | | | | |
| cg2003832 | 0.221088 | 0.523573 | 11.20166 | 5.33E-06 | 0.000657 | 4.77216 | 0.413029 | 0.634117 | -0.22109 | 1 | 2.01E+08 | F | II | CAMSAP2 | Body | opensea | Body-opens | | rs5681402 | 14;38;46 | | | | |
| cg0247919 | 0.201075 | 0.591295 | 11.2013 | 5.33E-06 | 0.000657 | 4.771931 | 0.490757 | 0.691833 | -0.20108 | 11 | 84997870 | F | II | DLG2 | Body | opensea | Body-opens | | rs7880970 | 1 | | | | |
| cg0465098 | 0.228395 | 0.559247 | 11.19854 | 5.34E-06 | 0.000657 | 4.770136 | 0.44505 | 0.673445 | -0.2284 | 6 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2364103 | 0.220542 | 0.460021 | 11.19617 | 5.35E-06 | 0.000657 | 4.768594 | 0.34975 | 0.570292 | -0.22054 | 1 | 1.75E+08 | R | II | TNR | 5'UTR | opensea | 5'UTR-open | | rs5510252 | 5 | | | | |
| cg2214428 | 0.246295 | 0.66769 | 11.19502 | 5.35E-06 | 0.000658 | 4.767846 | 0.544543 | 0.790838 | -0.2463 | 5 | 1.69E+08 | R | II | | IGR | opensea | IGR-opense | | rs1904611 | 38;32;6;1 | | | | |
| cg1626185 | 0.2258 | 0.504736 | 11.19321 | 5.36E-06 | 0.000658 | 4.766666 | 0.391836 | 0.617636 | -0.2258 | 18 | 57634307 | F | II | | IGR | shelf | IGR-shelf | chr18:576 | rs7654253 | 0;3;41 | | | | |
| cg0013344 | 0.2048 | 0.45716 | 11.19148 | 5.36E-06 | 0.000658 | 4.765541 | 0.35476 | 0.55956 | -0.2048 | 7 | 46824233 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2069894 | 0.218717 | 0.601731 | 11.18896 | 5.37E-06 | 0.000659 | 4.763898 | 0.492373 | 0.71109 | -0.21872 | 1 | 51910707 | R | II | EPS15 | Body | opensea | Body-opens | | rs1158090 | 47;43;40 | | | | |
| cg0393736 | 0.200775 | 0.491715 | 11.18753 | 5.38E-06 | 0.000659 | 4.762969 | 0.391327 | 0.592102 | -0.20078 | 1 | 64330272 | F | II | ROR1 | Body | opensea | Body-opens | | | | | | | |
| cg2544408 | 0.243598 | 0.510701 | 11.18462 | 5.39E-06 | 0.000659 | 4.761078 | 0.388902 | 0.632499 | -0.2436 | 20 | 11852131 | R | II | LINC00687 | TSS1500 | opensea | TSS1500-op | | rs5289717 | 51;45;44;29 | | | | |
| cg1631377 | 0.227837 | 0.50383 | 11.18196 | 5.39E-06 | 0.000659 | 4.759345 | 0.389911 | 0.617749 | -0.22784 | 8 | 1.19E+08 | F | II | | IGR | opensea | IGR-opense | | rs5468156 | 1;25;45 | | | | |
| cg1410938 | 0.213199 | 0.527246 | 11.18119 | 5.4E-06 | 0.000659 | 4.758839 | 0.420647 | 0.633846 | -0.2132 | 4 | 25940163 | F | II | | IGR | opensea | IGR-opense | | rs5781876 | 0;2;46 | | | | |
| cg1258355 | 0.223166 | 0.462876 | 11.18054 | 5.4E-06 | 0.000659 | 4.758417 | 0.351293 | 0.574459 | -0.22317 | 6 | 33242487 | R | II | RPS18 | Body | shelf | Body-shelf | chr6:3324 | rs3746162 | 28;12 | | | | |
| cg0113421 | 0.227885 | 0.586653 | 11.17854 | 5.41E-06 | 0.00066 | 4.757115 | 0.472711 | 0.700596 | -0.22789 | 18 | 6363442 | F | II | L3MBTL4 | 5'UTR | opensea | 5'UTR-open | | rs1143902 | 35 | | | | |
| cg0697503 | 0.202477 | 0.443333 | 11.17556 | 5.42E-06 | 0.00066 | 4.755174 | 0.342094 | 0.544571 | -0.20248 | 5 | 50230491 | R | II | | IGR | opensea | IGR-opense | | rs5310363 | 39;9 | | | | |
| cg1060582 | 0.238975 | 0.574159 | 11.17153 | 5.43E-06 | 0.000661 | 4.752547 | 0.454672 | 0.693646 | -0.23897 | 9 | 72087222 | F | II | APBA1 | Body | opensea | Body-opens | | rs4744901 | 14;16 | | | | |
| cg1503058 | 0.227816 | 0.476285 | 11.17094 | 5.43E-06 | 0.000661 | 4.752159 | 0.362377 | 0.590193 | -0.22782 | 13 | 27927676 | R | II | | IGR | opensea | IGR-opense | | rs5498135 | 37;24 | | | | |
| cg0139778 | 0.310646 | 0.505352 | 11.17078 | 5.43E-06 | 0.000661 | 4.752054 | 0.350029 | 0.660675 | -0.31065 | 10 | 3894712 | R | II | | IGR | opensea | IGR-opense | | rs5388411 | 1 | | | | |
| cg1080789 | 0.228688 | 0.378085 | 11.17031 | 5.44E-06 | 0.000661 | 4.75175 | 0.26374 | 0.492429 | -0.22869 | 12 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | rs5274990 | 23 | | | | |
| cg1700267 | 0.215645 | 0.47168 | 11.16883 | 5.44E-06 | 0.000661 | 4.750781 | 0.363857 | 0.579503 | -0.21565 | 7 | 1.55E+08 | F | II | RBM33 | Body | opensea | Body-opens | | | | | | | |
| cg2525591 | 0.219559 | 0.732083 | 11.16659 | 5.45E-06 | 0.000661 | 4.749321 | 0.622304 | 0.841863 | -0.21956 | 2 | 29685363 | F | II | ALK | Body | opensea | Body-opens | | rs5761336 | 42;43 | | | | |
| cg0625673 | 0.242255 | 0.516613 | 11.16135 | 5.47E-06 | 0.000663 | 4.745901 | 0.395486 | 0.637741 | -0.24225 | 12 | 8815894 | R | II | MFAP5 | TSS1500 | opensea | TSS1500-op | | | | | | | |
| cg2525943 | 0.244708 | 0.532273 | 11.15853 | 5.48E-06 | 0.000663 | 4.744065 | 0.409919 | 0.654627 | -0.24471 | 11 | 23100280 | R | II | | IGR | opensea | IGR-opense | | rs1168649 | 18;8;2 | | | | |
| cg2421389 | 0.203133 | 0.654715 | 11.1578 | 5.48E-06 | 0.000663 | 4.743584 | 0.553148 | 0.756281 | -0.20313 | 20 | 1924201 | F | II | | IGR | shelf | IGR-shelf | chr20:192 | rs5624914 | 1;8 | | | | |
| cg0148241 | 0.258591 | 0.521363 | 11.15717 | 5.48E-06 | 0.000663 | 4.743179 | 0.392068 | 0.650658 | -0.25859 | 1 | 2.26E+08 | F | II | | IGR | opensea | IGR-opense | | rs5579066 | 7;27 | | | | |
| cg0248820 | 0.267898 | 0.472198 | 11.1569 | 5.48E-06 | 0.000663 | 4.743 | 0.338249 | 0.606147 | -0.2679 | 7 | 1.32E+08 | F | II | PLXNA4 | Body | opensea | Body-opens | | rs7530553 | 0;19;38 | | | | |
| cg2091982 | 0.211296 | 0.551922 | 11.15661 | 5.48E-06 | 0.000663 | 4.74281 | 0.446274 | 0.657569 | -0.2113 | 22 | 47490983 | R | II | TBC1D22A | Body | opensea | Body-opens | | rs1141926 | 35;31;20;7 | | | | |
| cg1478625 | 0.228202 | 0.548327 | 11.15461 | 5.49E-06 | 0.000664 | 4.741503 | 0.434226 | 0.662429 | -0.2282 | 8 | 20038608 | F | II | SLC18A1 | 5'UTR | opensea | 5'UTR-open | | rs5612287 | 0;6;14;18;41 | | | | |
| cg1484724 | 0.219639 | 0.585148 | 11.14969 | 5.51E-06 | 0.000665 | 4.738288 | 0.475328 | 0.694967 | -0.21964 | 3 | 40158292 | R | II | MYRIP | 5'UTR | opensea | 5'UTR-open | | | | | | | |
| cg2600268 | 0.205618 | 0.327203 | 11.14942 | 5.51E-06 | 0.000665 | 4.738115 | 0.224394 | 0.430013 | -0.20562 | 22 | 26019477 | R | II | ADRBK2 | Body | opensea | Body-opens | | rs5679184 | 2 | | | | |
| cg2634187 | 0.205249 | 0.624278 | 11.14423 | 5.53E-06 | 0.000666 | 4.734721 | 0.521653 | 0.726902 | -0.20525 | 10 | 74714969 | F | II | PLA2G12B | TSS1500 | opensea | TSS1500-op | | | | | | | |
| cg0663094 | 0.239852 | 0.523169 | 11.14387 | 5.53E-06 | 0.000666 | 4.734485 | 0.403243 | 0.643096 | -0.23985 | 5 | 93330995 | R | II | FAM172A | Body | opensea | Body-opens | | rs5391995 | 26;1 | | | | |
| cg2432979 | 0.204454 | 0.536284 | 11.14307 | 5.53E-06 | 0.000666 | 4.733962 | 0.434057 | 0.638511 | -0.20445 | 22 | 27592445 | F | II | | IGR | opensea | IGR-opense | | rs742060;r | 0;43 | | | | |
| cg1567386 | 0.204263 | 0.444533 | 11.14258 | 5.53E-06 | 0.000666 | 4.73364 | 0.342402 | 0.546665 | -0.20426 | 11 | 87590493 | R | II | | IGR | opensea | IGR-opense | | rs5689870 | 30;1 | | | | |
| cg0817608 | 0.206575 | 0.595469 | 11.14111 | 5.54E-06 | 0.000666 | 4.732683 | 0.492182 | 0.698757 | -0.20657 | 2 | 1E+08 | R | II | REV1 | 5'UTR | opensea | 5'UTR-open | | rs3723457 | 44;27;2 | | | | |
| cg1565788 | 0.212123 | 0.600258 | 11.13871 | 5.55E-06 | 0.000667 | 4.731114 | 0.494196 | 0.706319 | -0.21212 | 2 | 1.14E+08 | R | II | IL1F9 | 5'UTR | opensea | 5'UTR-open | | rs1893364 | 49;25;11 | | | | |
| cg1635673 | 0.217365 | 0.544473 | 11.13641 | 5.56E-06 | 0.000667 | 4.729604 | 0.43579 | 0.653155 | -0.21736 | 6 | 25729805 | R | II | | IGR | shelf | IGR-shelf | chr6:2573 | | | | | | |
| cg1340007 | 0.214766 | 0.55853 | 11.13582 | 5.56E-06 | 0.000667 | 4.729221 | 0.451147 | 0.665913 | -0.21477 | 1 | 1.62E+08 | R | II | NOS1AP | Body | opensea | Body-opens | | rs6692600 | 13;5 | | | | |
| cg1576875 | 0.222395 | 0.678968 | 11.1358 | 5.56E-06 | 0.000667 | 4.72921 | 0.56777 | 0.790165 | -0.22239 | 2 | 3626969 | F | II | RPS7 | Body | shelf | Body-shelf | chr2:3622 | rs1163652 | 33 | | | | |
| cg1361317 | 0.203586 | 0.520158 | 11.13234 | 5.57E-06 | 0.000668 | 4.726945 | 0.418365 | 0.621952 | -0.20359 | 2 | 2.43E+08 | R | II | D2HGDH | Body | opensea | Body-opens | | rs5506462 | 33 | | | | |
| cg2291434 | 0.20196 | 0.475128 | 11.12972 | 5.58E-06 | 0.000668 | 4.725226 | 0.374148 | 0.576108 | -0.20196 | 10 | 91187065 | R | II | | IGR | opensea | IGR-opense | | rs1907593 | 2 | | | | |
| cg1997837 | 0.214018 | 0.50596 | 11.12882 | 5.58E-06 | 0.000668 | 4.724637 | 0.398951 | 0.612969 | -0.21402 | 6 | 31542671 | R | II | TNF | TSS1500 | opensea | TSS1500-op | | | | | | | |
| cg1261996 | 0.221314 | 0.656188 | 11.12563 | 5.6E-06 | 0.000669 | 4.722552 | 0.545531 | 0.766845 | -0.22131 | 6 | 16677204 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs1432200 | 28 | | | | |
| cg0503126 | 0.207167 | 0.513932 | 11.12511 | 5.6E-06 | 0.000669 | 4.722212 | 0.410348 | 0.617515 | -0.20717 | 18 | 33959405 | F | II | FHOD3 | Body | opensea | Body-opens | | rs1898046 | 36 | | | | |
| cg1448826 | 0.220171 | 0.545428 | 11.1233 | 5.6E-06 | 0.000669 | 4.721024 | 0.435342 | 0.655513 | -0.22017 | 7 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs1715427 | 30 | | | | |
| cg1476447 | 0.237453 | 0.568754 | 11.12221 | 5.61E-06 | 0.000669 | 4.720307 | 0.450028 | 0.687481 | -0.23745 | 5 | 1.43E+08 | F | II | | IGR | opensea | IGR-opense | | rs1469596 | 5;31 | | | | |
| cg0879753 | 0.217852 | 0.478768 | 11.11985 | 5.62E-06 | 0.000669 | 4.718764 | 0.369842 | 0.587694 | -0.21785 | 4 | 98815580 | R | II | STPG2 | Body | opensea | Body-opens | | rs5536621 | 7 | | | | |
| cg1383702 | 0.218731 | 0.574202 | 11.11905 | 5.62E-06 | 0.000669 | 4.71824 | 0.464837 | 0.683567 | -0.21873 | 5 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs5586504 | 51;36;1 | | | | |
| cg0581017 | 0.205861 | 0.418982 | 11.11872 | 5.62E-06 | 0.000669 | 4.718021 | 0.316051 | 0.521912 | -0.20586 | 7 | 1.34E+08 | R | II | | IGR | opensea | IGR-opense | | rs1489571 | 26;2 | | | | |
| cg1344054 | 0.230825 | 0.505863 | 11.11621 | 5.63E-06 | 0.00067 | 4.71638 | 0.390451 | 0.621276 | -0.23082 | 14 | 52792228 | R | II | PTGER2 | Body | opensea | Body-opens | | rs5482129 | 13;2 | | | | |
| cg2581616 | 0.208521 | 0.467591 | 11.11526 | 5.63E-06 | 0.00067 | 4.715758 | 0.363331 | 0.571852 | -0.20852 | 1 | 93053203 | F | II | EVI5 | Body | opensea | Body-opens | | rs1821519 | 0 | | | | |
| cg1134818 | 0.217211 | 0.577304 | 11.11378 | 5.64E-06 | 0.000671 | 4.714786 | 0.468699 | 0.685909 | -0.21721 | 2 | 2.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5350210 | 51 | | | | |
| cg1156043 | 0.213722 | 0.599129 | 11.11285 | 5.64E-06 | 0.000671 | 4.714177 | 0.492269 | 0.70599 | -0.21372 | 6 | 3416406 | F | II | SLC22A23 | Body | opensea | Body-opens | | rs5363056 | 1;25 | | | | |
| cg0445125 | 0.209812 | 0.598834 | 11.11281 | 5.64E-06 | 0.000671 | 4.714149 | 0.493928 | 0.70374 | -0.20981 | 11 | 35358924 | F | II | SLC1A2 | Body | opensea | Body-opens | | rs1161679 | 1;21;33;34 | | | | |
| cg1270539 | 0.226634 | 0.486769 | 11.11171 | 5.65E-06 | 0.000671 | 4.713428 | 0.373452 | 0.600086 | -0.22663 | 6 | 12586532 | F | II | | IGR | opensea | IGR-opense | | rs1897145 | 49 | | | | |
| cg1260084 | 0.204308 | 0.582788 | 11.10961 | 5.65E-06 | 0.000671 | 4.712052 | 0.480634 | 0.684942 | -0.20431 | 6 | 30179881 | R | II | TRIM26 | 5'UTR | shore | 5'UTR-shor | chr6:3018 | rs5570285 | 48;2 | | | | |
| cg2091834 | 0.203104 | 0.551311 | 11.10726 | 5.66E-06 | 0.000671 | 4.710505 | 0.449759 | 0.652863 | -0.2031 | 7 | 51101539 | F | II | COBL | Body | opensea | Body-opens | | rs5313094 | 0;25;38 | | | | |
| cg0871296 | 0.205244 | 0.503241 | 11.10725 | 5.66E-06 | 0.000671 | 4.710503 | 0.400619 | 0.605863 | -0.20524 | 15 | 84283688 | R | II | SH3GL3 | Body | opensea | Body-opens | | rs1451892 | 1 | | | | |
| cg0250039 | 0.236448 | 0.520061 | 11.10658 | 5.66E-06 | 0.000671 | 4.710063 | 0.401837 | 0.638285 | -0.23645 | 6 | 1.39E+08 | F | II | PBOV1 | 1stExon | opensea | 1stExon-op | | rs7377468 | 0;28;46 | | | | |
| cg1063306 | 0.233579 | 0.585163 | 11.10611 | 5.67E-06 | 0.000671 | 4.709754 | 0.468374 | 0.701953 | -0.23358 | 3 | 4047981 | F | II | | IGR | opensea | IGR-opense | | rs1484908 | 9 | | | | |
| cg2617187 | 0.220769 | 0.62685 | 11.10331 | 5.68E-06 | 0.000672 | 4.707916 | 0.516465 | 0.737235 | -0.22077 | 5 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs1382860 | 1;4;21 | | | | |
| cg0648837 | 0.207212 | 0.599141 | 11.10279 | 5.68E-06 | 0.000672 | 4.707574 | 0.495535 | 0.702747 | -0.20721 | 1 | 24392896 | F | II | MYOM3 | Body | opensea | Body-opens | | | | | | | |
| cg0525157 | 0.201818 | 0.530639 | 11.09845 | 5.69E-06 | 0.000673 | 4.704724 | 0.42973 | 0.631548 | -0.20182 | 13 | 1.12E+08 | F | II | | IGR | opensea | IGR-opense | | rs5316275 | 0;6;29 | | | | |
| cg0981061 | 0.20863 | 0.543721 | 11.0972 | 5.7E-06 | 0.000673 | 4.703905 | 0.439406 | 0.648037 | -0.20863 | 8 | 92919702 | R | II | | IGR | opensea | IGR-opense | | rs1392579 | 1 | | | | |
| cg0252498 | 0.250406 | 0.665167 | 11.09069 | 5.72E-06 | 0.000674 | 4.699631 | 0.539964 | 0.79037 | -0.25041 | 3 | 1.88E+08 | F | I | LPP | 5'UTR | opensea | 5'UTR-open | | rs5550028 | 0;20;37 | | | | |
| cg0615338 | 0.229998 | 0.57475 | 11.08888 | 5.73E-06 | 0.000675 | 4.69844 | 0.459751 | 0.689749 | -0.23 | 15 | 70644758 | F | II | | IGR | opensea | IGR-opense | | rs5452017 | 51 | | | | |
| cg2753727 | 0.254334 | 0.398861 | 11.08883 | 5.73E-06 | 0.000675 | 4.698408 | 0.271693 | 0.526028 | -0.25433 | 3 | 1.48E+08 | R | II | AGTR1 | 5'UTR | opensea | 5'UTR-open | | rs5446051 | 50;35 | | | | |
| cg0200939 | 0.212905 | 0.4327 | 11.08876 | 5.73E-06 | 0.000675 | 4.69836 | 0.326247 | 0.539153 | -0.21291 | 16 | 20702744 | R | II | ACSM1 | TSS200 | opensea | TSS200-ope | | rs5632856 | 44;39;2 | | | | |
| cg1868018 | 0.235597 | 0.63263 | 11.08586 | 5.74E-06 | 0.000675 | 4.696456 | 0.514831 | 0.750429 | -0.2356 | 14 | 35629311 | R | II | KIAA0391 | Body | opensea | Body-opens | | rs1907458 | 10 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0076599 | 0.224206 | 0.564449 | 11.08583 | 5.74E-06 | 0.000675 | 4.696432 | 0.452347 | 0.676552 | -0.22421 | 1 | 2.1E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:2104( | rs5715619 | 23;2 | | | |
| cg2516858 | 0.220608 | 0.629916 | 11.08539 | 5.74E-06 | 0.000675 | 4.696141 | 0.519613 | 0.74022 | -0.22061 | 10 | 13276816 | F | II | UCMA | TSS1500 | opensea | TSS1500-op | | rs5291127 | 39 | | | |
| cg0119027 | 0.222451 | 0.594702 | 11.08395 | 5.75E-06 | 0.000675 | 4.6952 | 0.483476 | 0.705928 | -0.22245 | 3 | 24284272 | F | II | THRB | 5'UTR | opensea | 5'UTR-open | | rs5455478 | 27 | | | |
| cg0468063 | 0.214409 | 0.467058 | 11.0823 | 5.75E-06 | 0.000675 | 4.694112 | 0.359854 | 0.574263 | -0.21441 | 3 | 1.81E+08 | R | II | SOX2-OT | Body | opensea | Body-open | | rs3767475 | 1 | | | |
| cg0106202 | 0.201677 | 0.44701 | 11.08006 | 5.76E-06 | 0.000676 | 4.692636 | 0.346171 | 0.547848 | -0.20168 | 3 | 49065979 | F | II | IMPDH2 | Body | shore | Body-shore | chr3:4906( | rs1841723 | 0;12;19;50 | | | |
| cg0726963 | 0.221273 | 0.612592 | 11.07982 | 5.76E-06 | 0.000676 | 4.692484 | 0.501956 | 0.723229 | -0.22127 | 7 | 18561537 | F | II | HDAC9 | Body | opensea | Body-open | | rs1853911 | 39 | | | |
| cg2217105 | 0.217242 | 0.600778 | 11.07893 | 5.77E-06 | 0.000676 | 4.691893 | 0.492158 | 0.709399 | -0.21724 | 1 | 62905816 | R | II | USP1 | Body | shelf | Body-shelf | chr1:6290: | rs1841788 | 31;29 | | | |
| cg0842205 | 0.200369 | 0.6318 | 11.07854 | 5.77E-06 | 0.000676 | 4.691637 | 0.531616 | 0.731985 | -0.20037 | 3 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs5682335 | 43;15;5 | | | |
| cg1586213 | 0.225613 | 0.463171 | 11.07522 | 5.78E-06 | 0.000677 | 4.689455 | 0.350364 | 0.575977 | -0.22561 | 13 | 42980762 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1729538 | 0.201636 | 0.594252 | 11.07443 | 5.78E-06 | 0.000677 | 4.688937 | 0.493434 | 0.69507 | -0.20164 | 6 | 1.11E+08 | F | II | DDO | Body | shelf | Body-shelf | chr6:1107; | | | | | |
| cg0392903 | 0.241155 | 0.58485 | 11.07432 | 5.78E-06 | 0.000677 | 4.688863 | 0.464273 | 0.705428 | -0.24115 | 6 | 84668020 | R | II | CYB5R4 | Body | opensea | Body-open | | rs6175692 | 20;17 | | | |
| cg0118875 | 0.249095 | 0.527807 | 11.07419 | 5.79E-06 | 0.000677 | 4.688774 | 0.403259 | 0.652354 | -0.2491 | 20 | 47897068 | R | II | C20orf199 | Body | shore | Body-shore | chr20:4785 | | | | | |
| cg0738987 | 0.218414 | 0.616283 | 11.07416 | 5.79E-06 | 0.000677 | 4.688755 | 0.507076 | 0.725491 | -0.21841 | 1 | 1.11E+08 | R | II | SLC16A4 | Body | opensea | Body-open | | rs1440269 | 29;2 | | | |
| cg1350261 | 0.204727 | 0.51374 | 11.07234 | 5.79E-06 | 0.000677 | 4.687561 | 0.411377 | 0.616104 | -0.20473 | 1 | 1.81E+08 | F | II | XPR1 | Body | opensea | Body-open | | rs5453750 | 9;24 | | | |
| cg1998339 | 0.292268 | 0.468728 | 11.07224 | 5.79E-06 | 0.000677 | 4.687492 | 0.322594 | 0.614862 | -0.29227 | 13 | 29115045 | R | II | | IGR | opensea | IGR-opense | | rs5451385 | 38;2 | | | |
| cg1666395 | 0.222025 | 0.572126 | 11.07196 | 5.79E-06 | 0.000677 | 4.687311 | 0.461113 | 0.683139 | -0.22203 | 12 | 24352279 | R | II | SOX5 | 5'UTR | opensea | 5'UTR-open | | rs5698956 | 1 | | | |
| cg1871601 | 0.225562 | 0.618441 | 11.07067 | 5.8E-06 | 0.000677 | 4.686457 | 0.50566 | 0.731223 | -0.22556 | 1 | 47125994 | R | II | ATPAF1 | 5'UTR | opensea | 5'UTR-open | | rs1180131 | 30 | | | |
| cg1720931 | 0.204917 | 0.511908 | 11.06981 | 5.8E-06 | 0.000677 | 4.685891 | 0.40945 | 0.614367 | -0.20492 | 20 | 43930688 | F | II | MATN4 | Body | shelf | Body-shelf | chr20:4395 | rs5470182 | 14;22;39;41;48 | | | |
| cg2114400 | 0.21168 | 0.548104 | 11.06855 | 5.81E-06 | 0.000678 | 4.685066 | 0.442264 | 0.653945 | -0.21168 | 1 | 2.08E+08 | F | II | PLXNA2 | Body | opensea | Body-open | | rs5396226 | 23 | | | |
| cg1350104 | 0.236287 | 0.46351 | 11.06731 | 5.81E-06 | 0.000678 | 4.684247 | 0.345366 | 0.581654 | -0.23629 | 6 | 75308261 | F | II | LOC10192 | Body | opensea | Body-open | | rs1508934 | 0 | | | |
| cg0783036 | 0.258233 | 0.506746 | 11.0671 | 5.81E-06 | 0.000678 | 4.684107 | 0.377629 | 0.635862 | -0.25823 | 3 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs5384325 | 21;2 | | | |
| cg1465487 | 0.20304 | 0.567433 | 11.06371 | 5.83E-06 | 0.000679 | 4.681873 | 0.465913 | 0.668953 | -0.20304 | 2 | 2.3E+08 | R | II | DNER | Body | opensea | Body-open | | rs1907058 | 34;18;8 | | | |
| cg0586595 | 0.227499 | 0.462308 | 11.063 | 5.83E-06 | 0.000679 | 4.681408 | 0.348558 | 0.576057 | -0.2275 | 10 | 63224906 | R | II | TMEM26-A | Body | opensea | Body-open | | rs1151823 | 48;1 | | | |
| cg1112934 | 0.217905 | 0.545062 | 11.06294 | 5.83E-06 | 0.000679 | 4.681367 | 0.43611 | 0.654015 | -0.21791 | 11 | 19870761 | F | II | NAV2 | Body | opensea | Body-open | | | | | | |
| cg2070750 | 0.238924 | 0.602104 | 11.06056 | 5.84E-06 | 0.000679 | 4.679801 | 0.482642 | 0.721566 | -0.23892 | 2 | 38663934 | F | II | | IGR | opensea | IGR-opense | | rs925256 | 27 | | | |
| cg2738139 | 0.201148 | 0.583191 | 11.06023 | 5.84E-06 | 0.000679 | 4.679579 | 0.482617 | 0.683765 | -0.20115 | 15 | 1.02E+08 | R | II | PCSK6 | Body | opensea | Body-open | | rs5666729 | 29 | | | |
| cg2361388 | 0.234828 | 0.530978 | 11.05895 | 5.84E-06 | 0.000679 | 4.678739 | 0.413564 | 0.648392 | -0.23483 | 10 | 1.23E+08 | F | II | | IGR | shelf | IGR-shelf | chr10:123: | rs1460271 | 0;35;36 | | | |
| cg1255076 | 0.201588 | 0.640241 | 11.05673 | 5.85E-06 | 0.000679 | 4.677275 | 0.539447 | 0.741034 | -0.20159 | 1 | 87213417 | R | II | SH3GLB1 | 3'UTR | opensea | 3'UTR-open | | rs1495226 | 42;7 | | | |
| cg0225174 | 0.217691 | 0.54191 | 11.05614 | 5.85E-06 | 0.000679 | 4.676887 | 0.433065 | 0.650756 | -0.21769 | 2 | 1.88E+08 | R | II | CALCRL | 5'UTR | opensea | 5'UTR-open | | rs5665288 | 50;48;2 | | | |
| cg1503198 | 0.214773 | 0.703441 | 11.05523 | 5.86E-06 | 0.000679 | 4.676285 | 0.596054 | 0.810827 | -0.21477 | 6 | 1.53E+08 | R | II | RGS17 | 5'UTR | opensea | 5'UTR-open | | rs6925834 | 40;1 | | | |
| cg0453100 | 0.227184 | 0.627152 | 11.05518 | 5.86E-06 | 0.000679 | 4.676255 | 0.51356 | 0.740743 | -0.22718 | 2 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1003973 | 0.255539 | 0.560838 | 11.05423 | 5.86E-06 | 0.00068 | 4.675626 | 0.433068 | 0.688607 | -0.25554 | 10 | 95139986 | R | II | MYOF | Body | opensea | Body-open | | | | | | |
| cg2319617 | 0.217544 | 0.527612 | 11.05059 | 5.88E-06 | 0.00068 | 4.673226 | 0.41884 | 0.636384 | -0.21754 | 6 | 29446963 | F | II | | IGR | opensea | IGR-opense | | rs3685810 | 1 | | | |
| cg2602181 | 0.212768 | 0.556187 | 11.05026 | 5.88E-06 | 0.00068 | 4.67301 | 0.449803 | 0.662571 | -0.21277 | 13 | 23895705 | R | II | SGCG | Body | opensea | Body-open | | rs7344110 | 7;2 | | | |
| cg0432634 | 0.201748 | 0.576768 | 11.04959 | 5.88E-06 | 0.00068 | 4.672564 | 0.475894 | 0.677642 | -0.20175 | 10 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs5415409 | 8;34 | | | |
| cg1441313 | 0.205472 | 0.415207 | 11.0484 | 5.88E-06 | 0.000681 | 4.671779 | 0.312471 | 0.517943 | -0.20547 | 18 | 47860601 | F | II | | IGR | opensea | IGR-opense | | rs5632125 | 10;18;19;33;41 | | | |
| cg0265823 | 0.268555 | 0.449705 | 11.04828 | 5.88E-06 | 0.000681 | 4.671697 | 0.315428 | 0.583983 | -0.26856 | 2 | 2.25E+08 | R | II | CUL3 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0201227 | 0.212223 | 0.578799 | 11.04733 | 5.89E-06 | 0.000681 | 4.671071 | 0.472688 | 0.684911 | -0.21222 | 17 | 37974860 | R | II | IKZF3 | Body | opensea | Body-open | | rs1915667 | 49;22 | | | |
| cg1355417 | 0.248967 | 0.609152 | 11.04674 | 5.89E-06 | 0.000681 | 4.670682 | 0.484669 | 0.733636 | -0.24897 | 6 | 79780164 | R | II | PHIP | Body | opensea | Body-open | | rs5509525 | 29;4 | | | |
| cg1040873 | 0.219787 | 0.636444 | 11.04572 | 5.89E-06 | 0.000681 | 4.67001 | 0.52655 | 0.746337 | -0.21979 | 6 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs5458902 | 36;5;2;1 | | | |
| cg0282524 | 0.223121 | 0.441995 | 11.04547 | 5.89E-06 | 0.000681 | 4.669844 | 0.330435 | 0.553556 | -0.22312 | 2 | 1.97E+08 | R | II | | IGR | opensea | IGR-opense | | rs5754973 | 22;1 | | | |
| cg0238931 | 0.264668 | 0.502428 | 11.0453 | 5.9E-06 | 0.000681 | 4.669734 | 0.370094 | 0.634762 | -0.26467 | 12 | 76577488 | F | II | | IGR | opensea | IGR-opense | | rs3697068 | 1 | | | |
| cg1099033 | 0.205395 | 0.535589 | 11.04149 | 5.91E-06 | 0.000681 | 4.667219 | 0.432892 | 0.638287 | -0.2054 | 2 | 42941352 | R | II | MTA3 | Body | opensea | Body-open | | rs5665201 | 2 | | | |
| cg1751157 | 0.202375 | 0.613843 | 11.03848 | 5.92E-06 | 0.000682 | 4.665229 | 0.512655 | 0.71503 | -0.20238 | 2 | 1.22E+08 | F | II | CLASP1 | Body | opensea | Body-open | | rs1857801 | 6;38 | | | |
| cg0450792 | 0.258589 | 0.483531 | 11.03599 | 5.93E-06 | 0.000682 | 4.663584 | 0.354237 | 0.612825 | -0.25859 | 2 | 2.11E+08 | R | II | UNC80 | Body | opensea | Body-open | | rs5480498 | 20;2 | | | |
| cg1346559 | 0.231153 | 0.571819 | 11.03537 | 5.93E-06 | 0.000682 | 4.663176 | 0.456243 | 0.687396 | -0.23115 | 8 | 38401333 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2260532 | 0.218938 | 0.56824 | 11.03398 | 5.94E-06 | 0.000683 | 4.662255 | 0.458771 | 0.677709 | -0.21894 | 3 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5620064 | 46;18;2 | | | |
| cg1008503 | 0.219551 | 0.512104 | 11.03357 | 5.94E-06 | 0.000683 | 4.661986 | 0.402328 | 0.621879 | -0.21955 | 14 | 99504935 | F | II | | IGR | opensea | IGR-opense | | rs5745578 | 1;3;6;24;28 | | | |
| cg2490257 | 0.219917 | 0.455112 | 11.03221 | 5.95E-06 | 0.000683 | 4.661089 | 0.345154 | 0.565071 | -0.21992 | 16 | 66984552 | R | II | | IGR | shore | IGR-shore | chr16:669( | rs5621028 | 29;10;2 | | | |
| cg1754029 | 0.202871 | 0.506113 | 11.03168 | 5.95E-06 | 0.000683 | 4.660739 | 0.404678 | 0.607549 | -0.20287 | 14 | 20835697 | F | II | TEP1 | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg1129831 | 0.210466 | 0.485133 | 11.03084 | 5.95E-06 | 0.000683 | 4.660181 | 0.3799 | 0.590366 | -0.21047 | 10 | 1.24E+08 | R | II | TACC2 | 5'UTR | opensea | 5'UTR-open | | rs5845758 | 31 | | | |
| cg2155174 | 0.22104 | 0.637525 | 11.03002 | 5.95E-06 | 0.000683 | 4.65964 | 0.527005 | 0.748044 | -0.22104 | 18 | 46548378 | F | II | | IGR | opensea | IGR-opense | | rs1819298 | 2;32 | | | |
| cg1589791 | 0.22019 | 0.537131 | 11.02873 | 5.96E-06 | 0.000683 | 4.658785 | 0.427036 | 0.647226 | -0.22019 | 8 | 6198768 | F | II | | IGR | opensea | IGR-opense | | rs5600836 | 13;47 | | | |
| cg1077992 | 0.244745 | 0.518715 | 11.02727 | 5.97E-06 | 0.000683 | 4.657824 | 0.396343 | 0.641088 | -0.24474 | 3 | 1.67E+08 | R | II | WDR49 | Body | opensea | Body-open | | | | | | |
| cg0142056 | 0.214882 | 0.448166 | 11.02692 | 5.97E-06 | 0.000683 | 4.657591 | 0.340726 | 0.555607 | -0.21488 | 2 | 1.79E+08 | R | II | OSBPL6 | 5'UTR | opensea | 5'UTR-open | | rs5276858 | 47;25 | | | |
| cg1155901 | 0.228559 | 0.693804 | 11.02689 | 5.97E-06 | 0.000683 | 4.657572 | 0.579525 | 0.808084 | -0.22856 | 18 | 61576332 | F | II | | IGR | opensea | IGR-opense | | rs1707207 | 22;45 | | | |
| cg0590584 | 0.204728 | 0.412181 | 11.02598 | 5.97E-06 | 0.000684 | 4.656972 | 0.309817 | 0.514545 | -0.20473 | 7 | 1.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs1864184 | 1;6 | | | |
| cg0468498 | 0.23242 | 0.506892 | 11.02421 | 5.98E-06 | 0.000684 | 4.655796 | 0.390682 | 0.623102 | -0.23242 | 2 | 1.71E+08 | F | II | CCDC173 | Body | opensea | Body-open | | | | | | |
| cg2043608 | 0.212958 | 0.599781 | 11.022 | 5.99E-06 | 0.000684 | 4.654334 | 0.493302 | 0.70626 | -0.21296 | 10 | 71615835 | F | II | COL13A1 | Body | opensea | Body-open | | rs5501884 | 1;22 | | | |
| cg2434215 | 0.248332 | 0.538303 | 11.02087 | 5.99E-06 | 0.000684 | 4.653588 | 0.414137 | 0.662469 | -0.24833 | 8 | 1.25E+08 | F | II | FER1L6 | 5'UTR | opensea | 5'UTR-open | | rs1446023 | 0;3;18 | | | |
| cg0690516 | 0.207232 | 0.515317 | 11.02049 | 5.99E-06 | 0.000684 | 4.653335 | 0.411701 | 0.618933 | -0.20723 | 16 | 27096840 | R | II | | IGR | opensea | IGR-opense | | rs8050140 | 27;17;4;2 | | | |
| cg1692971 | 0.223589 | 0.668212 | 11.01946 | 6E-06 | 0.000685 | 4.652659 | 0.556418 | 0.780006 | -0.22359 | 3 | 73024037 | R | II | GXYLT2 | Body | opensea | Body-open | | rs5573931 | 2 | | | |
| cg2517992 | 0.2374 | 0.698106 | 11.01929 | 6E-06 | 0.000685 | 4.652544 | 0.579406 | 0.816806 | -0.2374 | 8 | 16959530 | R | II | MICU3 | Body | opensea | Body-open | | rs5549638 | 51;9;5 | | | |
| cg1601997 | 0.255035 | 0.553233 | 11.01839 | 6E-06 | 0.000685 | 4.651949 | 0.425716 | 0.68075 | -0.25503 | 5 | 1.43E+08 | R | II | | IGR | opensea | IGR-opense | | rs3691189 | 2;1 | | | |
| cg1000809 | 0.21465 | 0.607974 | 11.01765 | 6E-06 | 0.000685 | 4.651457 | 0.50065 | 0.715299 | -0.21465 | 11 | 93469286 | R | II | SNORA40 | TSS1500 | opensea | TSS1500-op | | rs1507924 | 2 | | | |
| cg2422244 | 0.202726 | 0.520986 | 11.01734 | 6E-06 | 0.000685 | 4.651251 | 0.419623 | 0.622349 | -0.20273 | 13 | 43986058 | F | II | ENOX1 | ExonBnd | opensea | ExonBnd-op | | rs7682457 | 5 | | | |
| cg1038464 | 0.213008 | 0.55336 | 11.0155 | 6.01E-06 | 0.000685 | 4.650037 | 0.446856 | 0.659864 | -0.21301 | 9 | 84982365 | F | II | | IGR | opensea | IGR-opense | | rs5631459 | 0;31;33 | | | |
| cg2604550 | 0.228582 | 0.658584 | 11.01513 | 6.01E-06 | 0.000685 | 4.649794 | 0.544293 | 0.772876 | -0.22858 | 18 | 11309047 | F | II | | IGR | opensea | IGR-opense | | rs5467269 | 0 | | | |
| cg0192008 | 0.223924 | 0.418882 | 11.01508 | 6.01E-06 | 0.000685 | 4.649759 | 0.306919 | 0.530844 | -0.22392 | 20 | 9966720 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5734145 | 1 | | | |
| cg0155875 | 0.201969 | 0.493988 | 11.01449 | 6.02E-06 | 0.000685 | 4.649368 | 0.393003 | 0.594972 | -0.20197 | 6 | 73450879 | F | II | KCNQ5 | Body | opensea | Body-open | | rs5576439 | 0;43 | | | |
| cg2628869 | 0.231338 | 0.526412 | 11.01128 | 6.03E-06 | 0.000685 | 4.647244 | 0.410743 | 0.64208 | -0.23134 | 1 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1627957 | 0.206003 | 0.549818 | 11.00983 | 6.03E-06 | 0.000685 | 4.646283 | 0.446817 | 0.65282 | -0.206 | 6 | 12275455 | R | II | | IGR | opensea | IGR-opense | | rs5295188 | 22 | | | |
| cg0024824 | 0.218694 | 0.590944 | 11.00954 | 6.04E-06 | 0.000685 | 4.646089 | 0.481597 | 0.700291 | -0.21869 | 2 | 2.41E+08 | R | II | | IGR | shore | IGR-shore | chr2:2408( | | | | | |
| cg1828239 | 0.233188 | 0.553994 | 11.00939 | 6.04E-06 | 0.000685 | 4.64599 | 0.4374 | 0.670588 | -0.23319 | 2 | 1.12E+08 | F | II | ACOXL | Body | opensea | Body-open | | rs5517676 | 1;41 | | | |
| cg1884235 | 0.204843 | 0.464585 | 11.00911 | 6.04E-06 | 0.000685 | 4.645807 | 0.362163 | 0.567006 | -0.20484 | 13 | 97794052 | F | II | | IGR | opensea | IGR-opense | | rs5468635 | 17 | | | |
| cg0221656 | 0.217109 | 0.600803 | 11.0084 | 6.04E-06 | 0.000686 | 4.645333 | 0.492248 | 0.709357 | -0.21711 | 10 | 96857781 | F | II | | IGR | opensea | IGR-opense | | rs1506831 | 12;14;44 | | | |
| cg1734574 | 0.204519 | 0.467321 | 11.00737 | 6.04E-06 | 0.000686 | 4.64465 | 0.365062 | 0.569581 | -0.20452 | 14 | 69472652 | F | II | | IGR | opensea | IGR-opense | | rs1920510 | 8 | | | |
| cg1617038 | 0.2311 | 0.475764 | 11.00446 | 6.06E-06 | 0.000686 | 4.642727 | 0.360214 | 0.591314 | -0.2311 | 8 | 1.04E+08 | F | II | AZIN1-AS1 | Body | opensea | Body-open | | rs5350708 | 0;7;41 | | | |
| cg1372540 | 0.211397 | 0.655738 | 11.00377 | 6.06E-06 | 0.000686 | 4.642265 | 0.55004 | 0.761437 | -0.2114 | 3 | 1.25E+08 | R | II | MUC13 | Body | opensea | Body-open | | rs5277627 | 44;32;11 | | | |
| cg2197568 | 0.230689 | 0.530784 | 11.00303 | 6.06E-06 | 0.000687 | 4.641774 | 0.415439 | 0.646128 | -0.23069 | 3 | 1.87E+08 | R | II | MASP1 | Body | opensea | Body-open | | rs710473; | 42;29;8 | | | |
| cg1255533 | 0.201342 | 0.488912 | 11.00184 | 6.07E-06 | 0.000687 | 4.640988 | 0.388241 | 0.589582 | -0.20134 | 7 | 56120290 | F | II | CCT6A | Body | shore | Body-shore | chr7:5611( | | | | | |
| cg1703169 | 0.251267 | 0.405116 | 11.00129 | 6.07E-06 | 0.000687 | 4.640619 | 0.279483 | 0.53075 | -0.25127 | 12 | 94602306 | F | II | PLXNC1 | Body | opensea | Body-open | | rs1925419 | 0;1;10;27 | | | | |
| cg1269294 | 0.206806 | 0.57195 | 10.99748 | 6.08E-06 | 0.000687 | 4.638093 | 0.468547 | 0.675353 | -0.20681 | 4 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5427686 | 25;30 | | | |
| cg0293916 | 0.201156 | 0.548967 | 10.9969 | 6.09E-06 | 0.000687 | 4.637712 | 0.448389 | 0.649545 | -0.20116 | 10 | 60828539 | R | II | | IGR | opensea | IGR-opense | | rs3197 | 46 | | | |
| cg0845474 | 0.226265 | 0.592022 | 10.9969 | 6.09E-06 | 0.000687 | 4.637709 | 0.47889 | 0.705155 | -0.22626 | 1 | 2.46E+08 | F | II | KIF26B | Body | opensea | Body-open | | rs5582636 | 2;41 | | | |
| cg1807982 | 0.231838 | 0.495233 | 10.99645 | 6.09E-06 | 0.000687 | 4.637413 | 0.379314 | 0.611151 | -0.23184 | 11 | 36614820 | R | II | RAG2 | Body | opensea | Body-open | | rs5459108 | 51;12;2 | | | |
| cg1262900 | 0.228031 | 0.558708 | 10.99631 | 6.09E-06 | 0.000687 | 4.637322 | 0.444693 | 0.672724 | -0.22803 | 1 | 58625006 | F | II | DAB1 | 5'UTR | opensea | 5'UTR-open | | rs1878761 | 1;39 | | | |
| cg0273250 | 0.203917 | 0.527811 | 10.99615 | 6.09E-06 | 0.000687 | 4.637213 | 0.425852 | 0.62977 | -0.20392 | 16 | 89628853 | R | II | RPL13 | Body | shore | Body-shore | chr16:8962 | rs1894763 | 40;18;14 | | | |
| cg0193671 | 0.202437 | 0.663735 | 10.99429 | 6.1E-06 | 0.000687 | 4.635983 | 0.562516 | 0.764953 | -0.20244 | 10 | 4144300 | R | II | | IGR | opensea | IGR-opense | | rs5564631 | 27;1 | | | |
| cg1088085 | 0.206299 | 0.713037 | 10.99326 | 6.1E-06 | 0.000687 | 4.635299 | 0.609887 | 0.816186 | -0.2063 | 3 | 35833333 | R | II | ARPP21 | Body | opensea | Body-open | | rs1441666 | 43;6 | | | |
| cg0238442 | 0.205454 | 0.4991 | 10.9914 | 6.11E-06 | 0.000687 | 4.634063 | 0.396373 | 0.601827 | -0.20545 | 11 | 1.3E+08 | R | II | ST14 | Body | opensea | Body-open | | rs5537089 | 37;3;1 | | | |
| cg0516207 | 0.222235 | 0.521295 | 10.98929 | 6.12E-06 | 0.000687 | 4.632663 | 0.410177 | 0.632413 | -0.22224 | 11 | 13142205 | R | II | | IGR | opensea | IGR-opense | | rs1901609 | 11;10 | | | |
| cg1269932 | 0.205484 | 0.53321 | 10.98857 | 6.12E-06 | 0.000688 | 4.632183 | 0.430468 | 0.635952 | -0.20548 | 3 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs9881096 | 34;24;7;1 | | | |
| cg1179589 | 0.240925 | 0.692548 | 10.98835 | 6.12E-06 | 0.000688 | 4.632037 | 0.572085 | 0.81301 | -0.24092 | 6 | 87855840 | F | II | | IGR | opensea | IGR-opense | | rs5569807 | 43 | | | |
| cg1500269 | 0.210653 | 0.563803 | 10.98759 | 6.12E-06 | 0.000688 | 4.631533 | 0.458477 | 0.66913 | -0.21065 | 7 | 1.38E+08 | F | II | AKR1D1 | TSS200 | opensea | TSS200-ope | | rs7779865 | 0;10;35;45 | | | |
| cg1130363 | 0.235759 | 0.55456 | 10.98745 | 6.12E-06 | 0.000688 | 4.631445 | 0.436681 | 0.67244 | -0.23576 | 2 | 1.92E+08 | R | II | STAT4 | Body | opensea | Body-open | | rs5676133 | 2 | | | |
| cg0304340 | 0.202926 | 0.577786 | 10.98703 | 6.12E-06 | 0.000688 | 4.631165 | 0.476323 | 0.679249 | -0.20293 | 1 | 45242356 | R | II | RPS8 | Body | shore | Body-shore | chr1:4524( | rs2014406 | 35;25;22 | | | |
| cg0972064 | 0.230156 | 0.436348 | 10.98671 | 6.13E-06 | 0.000688 | 4.630952 | 0.32127 | 0.551426 | -0.23016 | 16 | 78929792 | R | II | WWOX | Body | opensea | Body-open | | rs5703876 | 16 | | | |
| cg0512105 | 0.202394 | 0.500606 | 10.98373 | 6.14E-06 | 0.000689 | 4.628974 | 0.399409 | 0.601803 | -0.20239 | 22 | 33313979 | F | II | SYN3 | Body | opensea | Body-open | | rs5315165 | 4;29;34 | | | |
| cg0594446 | 0.203301 | 0.719531 | 10.98334 | 6.14E-06 | 0.000689 | 4.628711 | 0.61788 | 0.821181 | -0.2033 | 15 | 74661351 | F | II | CYP11A1 | TSS1500 | shelf | TSS1500-sh | chr15:7465 | | | | | |
| cg1026960 | 0.245138 | 0.494473 | 10.98248 | 6.14E-06 | 0.000689 | 4.628141 | 0.371903 | 0.617042 | -0.24514 | 4 | 1.2E+08 | R | II | USP53 | 5'UTR | opensea | 5'UTR-open | | rs1469883 | 1 | | | |
| cg2327482 | 0.225874 | 0.480544 | 10.98204 | 6.14E-06 | 0.000689 | 4.627851 | 0.367607 | 0.593481 | -0.22587 | 8 | 67104670 | F | II | LINC00967 | Body | opensea | Body-open | | rs5411038 | 1;18;22;40 | | | |
| cg0567661 | 0.218319 | 0.39222 | 10.982 | 6.15E-06 | 0.000689 | 4.627822 | 0.283061 | 0.501379 | -0.21832 | 12 | 7173728 | F | II | C1S | Body | opensea | Body-open | | | | | | |
| cg0792073 | 0.237106 | 0.540011 | 10.98141 | 6.15E-06 | 0.000689 | 4.627433 | 0.421457 | 0.658564 | -0.23711 | 12 | 14405823 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0519913 | 0.218541 | 0.599661 | 10.97909 | 6.16E-06 | 0.000689 | 4.625891 | 0.49039 | 0.708931 | -0.21854 | 3 | 14288295 | R | II | | IGR | opensea | IGR-opense | | rs1508489 | 1 | | | |
| cg1291565 | 0.216739 | 0.524461 | 10.97754 | 6.16E-06 | 0.000689 | 4.624859 | 0.416092 | 0.632831 | -0.21674 | 4 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs5972865 | 1 | | | |
| cg0867552 | 0.235107 | 0.546844 | 10.97609 | 6.17E-06 | 0.00069 | 4.623896 | 0.42929 | 0.664398 | -0.23511 | 11 | 18716666 | F | II | | IGR | shelf | IGR-shelf | chr11:187; | rs1497659 | 41 | | | |
| cg1011133 | 0.210152 | 0.507715 | 10.97603 | 6.17E-06 | 0.00069 | 4.623858 | 0.40264 | 0.612791 | -0.21015 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0942667 | 0.21735 | 0.569303 | 10.97411 | 6.18E-06 | 0.00069 | 4.622578 | 0.460628 | 0.677978 | -0.21735 | 9 | 5644909 | R | II | RIC1 | Body | opensea | Body-open | | rs3677883 | 6 | | | |
| cg2550332 | 0.233418 | 0.633216 | 10.97266 | 6.18E-06 | 0.00069 | 4.621614 | 0.516507 | 0.749925 | -0.23342 | 7 | 36567098 | R | II | AOAH | Body | opensea | Body-open | | | | | | |
| cg0629595 | 0.217743 | 0.420079 | 10.97117 | 6.19E-06 | 0.000691 | 4.620626 | 0.311208 | 0.528951 | -0.21774 | 18 | 71019915 | R | II | | IGR | opensea | IGR-opense | | rs5421295 | 49 | | | |
| cg0415077 | 0.238647 | 0.601847 | 10.96875 | 6.2E-06 | 0.000691 | 4.619017 | 0.482524 | 0.721171 | -0.23865 | 7 | 40587972 | F | II | SUGCT | Body | opensea | Body-open | | rs2011954 | 17 | | | |
| cg0469999 | 0.200043 | 0.719917 | 10.96745 | 6.2E-06 | 0.000691 | 4.618154 | 0.619896 | 0.819938 | -0.20004 | 22 | 36231914 | F | II | RBFOX2 | Body | opensea | Body-open | | | | | | |
| cg1773615 | 0.250086 | 0.480865 | 10.96678 | 6.21E-06 | 0.000691 | 4.61771 | 0.355821 | 0.605908 | -0.25009 | 1 | 31661388 | F | II | NKAIN1 | Body | opensea | Body-open | | rs5560152 | 1;5 | | | |
| cg0101009 | 0.23245 | 0.660227 | 10.96555 | 6.21E-06 | 0.000691 | 4.616889 | 0.544002 | 0.776452 | -0.23245 | 14 | 22292347 | F | II | | IGR | opensea | IGR-opense | | rs1158986 | 1;35 | | | |
| cg0116733 | 0.210119 | 0.599104 | 10.96508 | 6.21E-06 | 0.000691 | 4.616579 | 0.494044 | 0.704163 | -0.21012 | 10 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2719364 | 0.245702 | 0.434599 | 10.96401 | 6.22E-06 | 0.000691 | 4.615865 | 0.311747 | 0.55745 | -0.2457 | 21 | 26549225 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1712275 | 0.224477 | 0.554229 | 10.96384 | 6.22E-06 | 0.000691 | 4.61575 | 0.441991 | 0.666467 | -0.22448 | 2 | 65804208 | F | II | | IGR | opensea | IGR-opense | | rs1505672 | 29;33;36;50 | | | |
| cg1478297 | 0.206047 | 0.568843 | 10.9597 | 6.24E-06 | 0.000693 | 4.612995 | 0.46582 | 0.671867 | -0.20605 | 12 | 53189960 | R | II | KRT3 | TSS200 | opensea | TSS200-ope | | rs5397848 | 31;28;14 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2435939 | 0.239485 | 0.498865 | 10.95933 | 6.24E-06 | 0.000693 | 4.61275 | 0.379123 | 0.618607 | -0.23948 | 9 | 1.36E+08 | F | II | TMEM8C | TSS1500 | opensea | TSS1500-op | | rs1500020 | 0 | 15 | | |
| cg1197929 | 0.235766 | 0.471281 | 10.959 | 6.24E-06 | 0.000693 | 4.612534 | 0.353398 | 0.589165 | -0.23577 | 3 | 1.02E+08 | F | II | LOC15222 | Body | opensea | Body-opens | | rs5594694 | 1 | 25 | | |
| cg2126947 | 0.213847 | 0.542826 | 10.95808 | 6.24E-06 | 0.000693 | 4.611919 | 0.435903 | 0.64975 | -0.21385 | 14 | 1.03E+08 | R | II | MOK | Body | opensea | Body-opens | | rs1427032 | 1 | 6;2 | | |
| cg0964495 | 0.209436 | 0.574025 | 10.95744 | 6.24E-06 | 0.000693 | 4.611494 | 0.469307 | 0.678744 | -0.20944 | 3 | 1.22E+08 | F | II | CD86 | TSS1500 | opensea | TSS1500-op | | rs1192234 | 1 | 8;30 | | |
| cg0552025 | 0.265508 | 0.621261 | 10.95645 | 6.25E-06 | 0.000693 | 4.610833 | 0.488507 | 0.754015 | -0.26551 | 5 | 88104209 | R | II | MEF2C | Body | opensea | Body-opens | | rs5637046 | 3 | 7;36 | | |
| cg0295212 | 0.215768 | 0.519476 | 10.95571 | 6.25E-06 | 0.000694 | 4.61034 | 0.411592 | 0.62736 | -0.21577 | 2 | 2.3E+08 | F | II | DNER | Body | opensea | Body-opens | | rs1147231 | 1 | 3 | | |
| cg2510899 | 0.25483 | 0.626975 | 10.95466 | 6.26E-06 | 0.000694 | 4.609644 | 0.49956 | 0.75439 | -0.25483 | 2 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs1483016 | 3 | 9 | | |
| cg0915235 | 0.224403 | 0.52201 | 10.95289 | 6.26E-06 | 0.000694 | 4.608466 | 0.409809 | 0.634212 | -0.2244 | 2 | 10134152 | R | II | GRHL1 | Body | opensea | Body-opens | | rs7843484 | 4 | 5;38;1 | | |
| cg0545138 | 0.21869 | 0.448036 | 10.95223 | 6.27E-06 | 0.000694 | 4.608025 | 0.338691 | 0.557381 | -0.21869 | 3 | 1.98E+08 | R | II | LRCH3 | Body | shore | Body-shore | chr3: | 19757 | | | | |
| cg1139061 | 0.208899 | 0.479329 | 10.95223 | 6.27E-06 | 0.000694 | 4.608023 | 0.374879 | 0.583778 | -0.2089 | 7 | 46589190 | F | II | | IGR | opensea | IGR-opense | | rs1829823 | 1 | 1;46 | | |
| cg2402922 | 0.218735 | 0.552864 | 10.95152 | 6.27E-06 | 0.000694 | 4.607549 | 0.443496 | 0.662232 | -0.21874 | 13 | 50257914 | R | II | EBPL | Body | opensea | Body-opens | | rs3751274 | 3 | 9;38;14;3;1 | | |
| cg0807976 | 0.214373 | 0.680145 | 10.95008 | 6.28E-06 | 0.000694 | 4.606592 | 0.572958 | 0.787331 | -0.21437 | 7 | 1.3E+08 | F | II | COPG2 | Body | opensea | Body-opens | | rs5731596 | 0 | 0 | | |
| cg0613362 | 0.286172 | 0.564363 | 10.94722 | 6.29E-06 | 0.000694 | 4.604688 | 0.421277 | 0.707449 | -0.28617 | 4 | 1.01E+08 | R | II | EMCN | Body | opensea | Body-opens | | rs3611005 | 0 | 5;2;1 | | |
| cg1349344 | 0.236355 | 0.612425 | 10.94664 | 6.29E-06 | 0.000694 | 4.604297 | 0.494247 | 0.730602 | -0.23635 | 3 | 5833716 | F | II | | IGR | opensea | IGR-opense | | rs5601762 | 0 | 1 | | |
| cg2762831 | 0.251858 | 0.583293 | 10.94512 | 6.3E-06 | 0.000694 | 4.603285 | 0.457364 | 0.709222 | -0.25186 | 2 | 1.1E+08 | R | II | SH3RF3 | Body | opensea | Body-opens | | rs1125545 | 0 | 5;43;41;16 | | |
| cg1608030 | 0.226488 | 0.478435 | 10.94508 | 6.3E-06 | 0.000694 | 4.603262 | 0.365191 | 0.591679 | -0.22649 | 21 | 45087640 | R | II | RRP1B | Body | opensea | Body-opens | | rs5415435 | 4 | 7;2 | | |
| cg0279093 | 0.225751 | 0.565528 | 10.94373 | 6.3E-06 | 0.000694 | 4.602362 | 0.452652 | 0.678403 | -0.22575 | 3 | 23373256 | F | II | UBE2E2 | Body | opensea | Body-opens | | rs5544304 | 0 | 1;41 | | |
| cg2588468 | 0.209673 | 0.601554 | 10.94338 | 6.3E-06 | 0.000694 | 4.602123 | 0.496718 | 0.70639 | -0.20967 | 3 | 24587682 | F | II | | IGR | opensea | IGR-opense | | rs5539913 | 4 | 0;47 | | |
| cg1781085 | 0.221284 | 0.597032 | 10.94167 | 6.31E-06 | 0.000695 | 4.600985 | 0.48639 | 0.707674 | -0.22128 | 6 | 42369411 | R | II | TRERF1 | 5'UTR | opensea | 5'UTR-open | | rs260282 | 0 | 22;15;2 | | |
| cg0005222 | 0.227688 | 0.632533 | 10.94167 | 6.31E-06 | 0.000695 | 4.600984 | 0.518689 | 0.746377 | -0.22769 | 12 | 15783053 | F | II | EPS8 | Body | opensea | Body-opens | | rs5569469 | 0 | 31;48 | | |
| cg1419365 | 0.228219 | 0.594935 | 10.94131 | 6.31E-06 | 0.000695 | 4.600746 | 0.480825 | 0.709044 | -0.22822 | 9 | 94178868 | R | II | NFIL3 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg1023666 | 0.247655 | 0.585361 | 10.93959 | 6.32E-06 | 0.000695 | 4.599598 | 0.461533 | 0.709188 | -0.24765 | 3 | 1.88E+08 | R | II | LPP | Body | opensea | Body-opens | | rs5615344 | 3 | 4;2 | | |
| cg2122365 | 0.292188 | 0.431253 | 10.93629 | 6.33E-06 | 0.000695 | 4.5974 | 0.285159 | 0.577347 | -0.29219 | 10 | 15873568 | R | II | FAM188A | Body | opensea | Body-opens | | rs1153725 | 2 | 4 | | |
| cg0500709 | 0.236661 | 0.57767 | 10.93471 | 6.34E-06 | 0.000696 | 4.596346 | 0.45934 | 0.696001 | -0.23666 | 16 | 77322779 | R | II | ADAMTS18 | Body | opensea | Body-opens | | rs1164331 | 2 | 4;1 | | |
| cg2737039 | 0.210658 | 0.461656 | 10.93238 | 6.35E-06 | 0.000697 | 4.59479 | 0.356327 | 0.566985 | -0.21066 | 3 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs1840133 | 3 | 9;21 | | |
| cg0197424 | 0.21939 | 0.479148 | 10.93048 | 6.36E-06 | 0.000697 | 4.593524 | 0.369453 | 0.588843 | -0.21939 | 3 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs3693876 | 1 | 3 | | |
| cg0500627 | 0.231177 | 0.585665 | 10.92758 | 6.37E-06 | 0.000697 | 4.591583 | 0.470077 | 0.701254 | -0.23118 | 9 | 14243730 | R | II | NFIB | Body | opensea | Body-opens | | rs7870033 | 5 | 1;32;22;14 | | |
| cg2427744 | 0.229707 | 0.574953 | 10.92474 | 6.38E-06 | 0.000698 | 4.58969 | 0.4601 | 0.689807 | -0.22971 | 14 | 52796897 | F | II | | IGR | opensea | IGR-opense | | rs1834354 | 2 | 7;43 | | |
| cg1942051 | 0.212915 | 0.643848 | 10.92417 | 6.38E-06 | 0.000698 | 4.589311 | 0.537391 | 0.750305 | -0.21291 | 12 | 41124066 | R | II | CNTN1 | 5'UTR | opensea | 5'UTR-open | | rs5331366 | 4 | 1;24 | | |
| cg0240876 | 0.259444 | 0.634348 | 10.92226 | 6.39E-06 | 0.000698 | 4.588033 | 0.504626 | 0.76407 | -0.25944 | 6 | 1.49E+08 | F | II | UST | Body | opensea | Body-opens | | rs5621830 | 0 | 1;21;41;42;49 | | |
| cg0256260 | 0.205105 | 0.590487 | 10.9198 | 6.4E-06 | 0.000699 | 4.586388 | 0.487934 | 0.693039 | -0.2051 | 2 | 1.45E+08 | R | II | | IGR | opensea | IGR-opense | | rs5419051 | 4 | 2;12 | | |
| cg0289942 | 0.215034 | 0.442008 | 10.91906 | 6.4E-06 | 0.000699 | 4.585893 | 0.334491 | 0.549525 | -0.21503 | 10 | 55072007 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1324787 | 0.210799 | 0.655626 | 10.91642 | 6.42E-06 | 0.0007 | 4.584131 | 0.550227 | 0.761026 | -0.2108 | 8 | 12868246 | R | II | KIAA1456 | Body | opensea | Body-opens | | rs5778392 | 4 | 4;29;8;7 | | |
| cg0908796 | 0.229547 | 0.459048 | 10.9161 | 6.42E-06 | 0.0007 | 4.583916 | 0.344274 | 0.573821 | -0.22955 | 7 | 23503778 | R | II | IGF2BP3 | Body | opensea | Body-opens | | rs1095094 | 2 | 6;15 | | |
| cg0345980 | 0.217502 | 0.52832 | 10.91446 | 6.42E-06 | 0.0007 | 4.58282 | 0.419569 | 0.637072 | -0.2175 | 1 | 2.26E+08 | R | II | EPHX1 | 1stExon | opensea | 1stExon-op | | rs5717112 | 0 | 2 | | |
| cg1061078 | 0.204973 | 0.522061 | 10.91422 | 6.43E-06 | 0.0007 | 4.582656 | 0.419574 | 0.624547 | -0.20497 | 2 | 2.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5520493 | 3 | 3 | | |
| cg0543725 | 0.211323 | 0.611509 | 10.91203 | 6.43E-06 | 0.0007 | 4.581198 | 0.505847 | 0.717171 | -0.21132 | 4 | 95612104 | R | II | | IGR | opensea | IGR-opense | | rs5554483 | 3 | 9;29;21 | | |
| cg1982627 | 0.202831 | 0.443404 | 10.91128 | 6.44E-06 | 0.0007 | 4.580692 | 0.341989 | 0.54482 | -0.20283 | 16 | 80617770 | R | II | | IGR | opensea | IGR-opense | | rs1417916 | 4 | 4;27 | | |
| cg0815309 | 0.214188 | 0.640174 | 10.91116 | 6.44E-06 | 0.0007 | 4.580616 | 0.533079 | 0.747268 | -0.21419 | 3 | 1.51E+08 | F | II | CLRN1 | TSS1500 | opensea | TSS1500-op | | rs1409066 | 0 | 0 | | |
| cg1148737 | 0.230403 | 0.477612 | 10.90998 | 6.44E-06 | 0.0007 | 4.579826 | 0.36241 | 0.592813 | -0.2304 | 2 | 9428037 | F | II | ASAP2 | Body | opensea | Body-opens | | | | | | |
| cg1531706 | 0.200331 | 0.597245 | 10.9095 | 6.45E-06 | 0.0007 | 4.579504 | 0.497079 | 0.69741 | -0.20033 | 10 | 73741408 | F | II | CHST3 | 5'UTR | opensea | 5'UTR-open | | rs5683318 | 1 | 6;40 | | |
| cg1493880 | 0.203482 | 0.556562 | 10.90648 | 6.46E-06 | 0.000701 | 4.577482 | 0.454822 | 0.658303 | -0.20348 | 3 | 40141086 | R | II | MYRIP | TSS1500 | opensea | TSS1500-op | | rs5704957 | 3 | 7;2;1 | | |
| cg0683366 | 0.217005 | 0.37443 | 10.90528 | 6.46E-06 | 0.000702 | 4.576678 | 0.265928 | 0.482932 | -0.217 | 1 | 54154751 | R | II | GLIS1 | 5'UTR | opensea | 5'UTR-open | | rs882879 | 2 | 7 | | |
| cg0535283 | 0.218536 | 0.444178 | 10.90239 | 6.48E-06 | 0.000702 | 4.574748 | 0.33491 | 0.553446 | -0.21854 | 6 | 33384391 | R | II | CUTA | 3'UTR | shore | 3'UTR-shor | chr6: | 33338 | rs5402820 | 1 | 3;3 | |
| cg2532645 | 0.205558 | 0.573406 | 10.89444 | 6.51E-06 | 0.000705 | 4.569423 | 0.470627 | 0.676185 | -0.20556 | 5 | 1.63E+08 | F | II | | IGR | opensea | IGR-opense | | rs5618837 | 2 | 7 | | |
| cg0172632 | 0.205826 | 0.455378 | 10.8929 | 6.52E-06 | 0.000705 | 4.568393 | 0.352465 | 0.558291 | -0.20583 | 5 | 1.49E+08 | R | II | MIR143HG | TSS200 | opensea | TSS200-ope | | rs5682818 | 2 | 8;27;14 | | |
| cg0659515 | 0.220601 | 0.604684 | 10.89253 | 6.52E-06 | 0.000706 | 4.568146 | 0.494383 | 0.714985 | -0.2206 | 11 | 10716164 | F | II | MRVI1 | TSS1500 | opensea | TSS1500-op | | rs1408737 | 1 | 1;46 | | |
| cg0287762 | 0.228998 | 0.602765 | 10.89135 | 6.52E-06 | 0.000706 | 4.567356 | 0.488266 | 0.717264 | -0.229 | 2 | 33239383 | F | II | LTBP1 | Body | opensea | Body-opens | | rs1494473 | 0 | 16;31;46 | | |
| cg1555263 | 0.212334 | 0.604807 | 10.89111 | 6.52E-06 | 0.000706 | 4.567191 | 0.49864 | 0.710974 | -0.21233 | 22 | 33297618 | R | II | SYN3 | Body | opensea | Body-opens | | rs5669720 | 1 | 3;1 | | |
| cg1190442 | 0.225036 | 0.479856 | 10.8881 | 6.54E-06 | 0.000706 | 4.565174 | 0.367338 | 0.592374 | -0.22504 | 19 | 6592554 | F | II | CD70 | TSS1500 | shore | TSS1500-sh | chr19: | 6595 | rs5442269 | 0 | 0 | |
| cg1773680 | 0.262153 | 0.391484 | 10.88772 | 6.54E-06 | 0.000706 | 4.564918 | 0.260408 | 0.522561 | -0.26215 | 13 | 44875634 | F | II | | IGR | opensea | IGR-opense | | rs5407378 | 1 | 2;13;44 | | |
| cg2196169 | 0.209702 | 0.6069 | 10.88723 | 6.54E-06 | 0.000707 | 4.564591 | 0.502049 | 0.711752 | -0.2097 | 11 | 62947565 | R | II | SLC22A25 | Body | opensea | Body-opens | | rs5425688 | 4 | 3;29;15 | | |
| cg2013930 | 0.20751 | 0.447019 | 10.8866 | 6.54E-06 | 0.000707 | 4.564172 | 0.343264 | 0.550774 | -0.20751 | 20 | 34497362 | F | II | PHF20 | Body | opensea | Body-opens | | rs5368041 | 0 | 0 | | |
| cg2352116 | 0.281508 | 0.52019 | 10.88532 | 6.55E-06 | 0.000707 | 4.563309 | 0.379436 | 0.660944 | -0.28151 | 14 | 77287324 | F | II | | IGR | opensea | IGR-opense | | rs5457683 | 1 | 1;41 | | |
| cg0588887 | 0.211727 | 0.440142 | 10.88467 | 6.55E-06 | 0.000707 | 4.562873 | 0.334278 | 0.546005 | -0.21173 | 3 | 1.72E+08 | F | II | | IGR | opensea | IGR-opense | | rs5297540 | 0 | 1;10 | | |
| cg2017993 | 0.201782 | 0.456002 | 10.88426 | 6.55E-06 | 0.000707 | 4.562601 | 0.355111 | 0.556894 | -0.20178 | 11 | 1.26E+08 | R | II | KIRREL3 | Body | opensea | Body-opens | | | | | | |
| cg1605552 | 0.202718 | 0.53123 | 10.88399 | 6.56E-06 | 0.000707 | 4.562423 | 0.42987 | 0.632589 | -0.20272 | 6 | 33083287 | F | II | HLA-DPB2 | Body | shore | Body-shore | chr6: | 33084 | rs1444821 | 1 | 1;42 | | |
| cg1369627 | 0.202566 | 0.558329 | 10.88389 | 6.56E-06 | 0.000707 | 4.562354 | 0.457046 | 0.659612 | -0.20257 | 17 | 9950632 | F | II | GAS7 | Body | opensea | Body-opens | | rs1473170 | 0 | 29;35 | | |
| cg1686035 | 0.223999 | 0.543098 | 10.88307 | 6.56E-06 | 0.000707 | 4.561801 | 0.431098 | 0.655097 | -0.224 | 22 | 26650819 | R | II | SEZ6L | Body | opensea | Body-opens | | rs1472734 | 1 | 9;1 | | |
| cg1011435 | 0.234871 | 0.585294 | 10.88249 | 6.56E-06 | 0.000707 | 4.561414 | 0.467859 | 0.70273 | -0.23487 | 11 | 35993896 | F | II | LDLRAD3 | 5'UTR | opensea | 5'UTR-open | | rs5701750 | 1 | 1 | | |
| cg2487480 | 0.203726 | 0.554979 | 10.88188 | 6.56E-06 | 0.000707 | 4.561008 | 0.453116 | 0.656842 | -0.20373 | 5 | 1.5E+08 | F | II | CAMK2A | Body | opensea | Body-opens | | rs5318526 | 0 | 0 | | |
| cg1205212 | 0.204825 | 0.567378 | 10.8809 | 6.57E-06 | 0.000707 | 4.560347 | 0.464965 | 0.66979 | -0.20482 | 10 | 80451110 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1856212 | 0.201301 | 0.55563 | 10.88 | 6.57E-06 | 0.000708 | 4.559743 | 0.454979 | 0.65628 | -0.2013 | 2 | 27076093 | R | II | DPYSL5 | 5'UTR | shelf | 5'UTR-shelf | chr2: | 27070 | | | | |
| cg1832293 | 0.22003 | 0.451451 | 10.87802 | 6.58E-06 | 0.000708 | 4.558415 | 0.341436 | 0.561466 | -0.22003 | 6 | 1.17E+08 | R | II | RSPH4A | Body | opensea | Body-opens | | rs5578883 | 3 | 7;11;1 | | |
| cg0058264 | 0.21936 | 0.629536 | 10.87731 | 6.58E-06 | 0.000708 | 4.557937 | 0.519856 | 0.739216 | -0.21936 | 1 | 26331449 | R | II | | IGR | opensea | IGR-opense | | rs5536089 | 4 | 9 | | |
| cg0956311 | 0.270945 | 0.433486 | 10.87631 | 6.59E-06 | 0.000708 | 4.557268 | 0.298013 | 0.568959 | -0.27095 | 14 | 1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1897442 | 0 | 2 | | |
| cg0990441 | 0.239872 | 0.506194 | 10.87602 | 6.59E-06 | 0.000708 | 4.557073 | 0.386259 | 0.62613 | -0.23987 | 4 | 1.41E+08 | F | II | SCOC | 5'UTR | opensea | 5'UTR-open | | rs1882566 | 2 | 0;36;45;48 | | |
| cg1733369 | 0.231828 | 0.555202 | 10.87431 | 6.6E-06 | 0.000709 | 4.555929 | 0.439288 | 0.671116 | -0.23183 | 4 | 1.73E+08 | F | II | | IGR | shore | IGR-shore | chr4: | 17277 | rs5441605 | 0 | 1;6 | |
| cg0373337 | 0.213768 | 0.430855 | 10.87366 | 6.6E-06 | 0.000709 | 4.555491 | 0.323971 | 0.537738 | -0.21377 | 3 | 1.85E+08 | F | II | LIPH | TSS200 | opensea | TSS200-ope | | rs5450177 | 0 | 50 | | |
| cg0419877 | 0.212966 | 0.536208 | 10.87135 | 6.61E-06 | 0.000709 | 4.553937 | 0.429724 | 0.642691 | -0.21297 | 5 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | | rs1914812 | 3 | 9;28;2;1 | | |
| cg2642996 | 0.255997 | 0.66598 | 10.868 | 6.62E-06 | 0.00071 | 4.551689 | 0.537981 | 0.793979 | -0.256 | 15 | 83867672 | F | II | HDGFRP3 | Body | opensea | Body-opens | | rs5557750 | 2 | 4 | | |
| cg1821657 | 0.210849 | 0.643405 | 10.86292 | 6.65E-06 | 0.00071 | 4.548281 | 0.53798 | 0.74883 | -0.21085 | 3 | 1.41E+08 | F | II | ZBTB38 | 5'UTR | opensea | 5'UTR-open | | rs5582900 | 1 | 9;25 | | |
| cg1174807 | 0.201824 | 0.589473 | 10.86155 | 6.65E-06 | 0.00071 | 4.54736 | 0.488561 | 0.690385 | -0.20182 | 4 | 1.66E+08 | F | II | | IGR | opensea | IGR-opense | | rs5277709 | 0 | 0;49 | | |
| cg2691213 | 0.243468 | 0.497411 | 10.86117 | 6.65E-06 | 0.00071 | 4.547101 | 0.375677 | 0.619145 | -0.24347 | 7 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0914171 | 0.228614 | 0.545188 | 10.85701 | 6.67E-06 | 0.000711 | 4.544308 | 0.430881 | 0.659494 | -0.22861 | 9 | 97428981 | R | II | | IGR | opensea | IGR-opense | | rs1848910 | 4 | 9;46;27;11 | | |
| cg0275371 | 0.204672 | 0.498264 | 10.85468 | 6.68E-06 | 0.000712 | 4.542742 | 0.395928 | 0.6006 | -0.20467 | 17 | 66657633 | R | II | | IGR | opensea | IGR-opense | | rs5679909 | 4 | 7 | | |
| cg2495059 | 0.2051 | 0.495151 | 10.85456 | 6.68E-06 | 0.000712 | 4.542657 | 0.392601 | 0.597701 | -0.2051 | 17 | 33302061 | R | II | | IGR | opensea | IGR-opense | | rs1900712 | 3 | 9;36;11 | | |
| cg0603332 | 0.225831 | 0.655386 | 10.85437 | 6.68E-06 | 0.000712 | 4.542534 | 0.542471 | 0.768302 | -0.22583 | 1 | 86011409 | R | II | DDAH1 | 5'UTR | opensea | 5'UTR-open | | rs5673949 | 4 | 6;42 | | |
| cg0322855 | 0.233738 | 0.579508 | 10.85417 | 6.69E-06 | 0.000712 | 4.542395 | 0.462639 | 0.696377 | -0.23374 | 19 | 45174912 | R | II | CEACAM19 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0685792 | 0.205706 | 0.487709 | 10.85389 | 6.69E-06 | 0.000712 | 4.542206 | 0.384856 | 0.590562 | -0.20571 | 1 | 37084266 | F | II | | IGR | opensea | IGR-opense | | rs5292390 | 3 | 3 | | |
| cg0116599 | 0.21653 | 0.454151 | 10.85296 | 6.69E-06 | 0.000712 | 4.541585 | 0.345886 | 0.562416 | -0.21653 | 2 | 2.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs7664089 | 4 | 3;30;23;1 | | |
| cg0548369 | 0.226476 | 0.590976 | 10.85153 | 6.7E-06 | 0.000712 | 4.540622 | 0.477738 | 0.704214 | -0.22648 | 12 | 216093 | F | II | IQSEC3 | 5'UTR | shore | 5'UTR-shor | chr12: | 2137 | | | | |
| cg2761753 | 0.208895 | 0.529823 | 10.84778 | 6.71E-06 | 0.000713 | 4.538098 | 0.425375 | 0.63427 | -0.20889 | 5 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs1893815 | 1 | 9;25;41 | | |
| cg1217651 | 0.207491 | 0.542913 | 10.84708 | 6.72E-06 | 0.000713 | 4.537628 | 0.439168 | 0.646659 | -0.20749 | 12 | 66912585 | R | II | GRIP1 | Body | opensea | Body-opens | | rs1422283 | 2 | 8;2;1 | | |
| cg0593884 | 0.201484 | 0.516745 | 10.84513 | 6.73E-06 | 0.000713 | 4.536313 | 0.416003 | 0.617487 | -0.20148 | 16 | 4207303 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0236905 | 0.21105 | 0.605768 | 10.84305 | 6.74E-06 | 0.000714 | 4.534917 | 0.500243 | 0.711294 | -0.21105 | 15 | 92941926 | F | II | ST8SIA2 | Body | shelf | Body-shelf | chr15: | 92937 | rs1472141 | 0 | 1 | | |
| cg1607464 | 0.202904 | 0.580002 | 10.84263 | 6.74E-06 | 0.000714 | 4.534634 | 0.47855 | 0.681454 | -0.2029 | 6 | 1.16E+08 | F | II | NT5DC1 | Body | shore | Body-shore | chr6: | 11642 | rs1196819 | 0 | 0 | |
| cg1403406 | 0.248493 | 0.510923 | 10.83965 | 6.75E-06 | 0.000714 | 4.532622 | 0.386676 | 0.63517 | -0.24849 | 22 | 39282561 | R | II | | IGR | opensea | IGR-opense | | rs5630978 | 9 | 9 | | |
| cg0429653 | 0.237788 | 0.404361 | 10.8388 | 6.75E-06 | 0.000714 | 4.532051 | 0.285467 | 0.523255 | -0.23779 | 14 | 95778707 | F | II | CLMN | Body | opensea | Body-opens | | rs1928476 | 0 | 1;7;26 | | |
| cg0199013 | 0.248657 | 0.582953 | 10.83786 | 6.76E-06 | 0.000714 | 4.531418 | 0.458625 | 0.707282 | -0.24866 | 19 | 51898727 | F | II | | IGR | shore | IGR-shore | chr19: | 51855 | rs3724930 | 1 | 4;33 | |
| cg2625162 | 0.233324 | 0.590103 | 10.83776 | 6.76E-06 | 0.000714 | 4.531355 | 0.47344 | 0.706765 | -0.23332 | 7 | 28682097 | R | II | CREB5 | Body | opensea | Body-opens | | rs1816551 | 4 | 3;18;2 | | |
| cg0609930 | 0.202155 | 0.397585 | 10.83725 | 6.76E-06 | 0.000714 | 4.531008 | 0.296508 | 0.498662 | -0.20215 | 1 | 96672496 | R | II | | IGR | opensea | IGR-opense | | rs1406150 | 2 | 6;22;21;18 | | |
| cg1707316 | 0.255864 | 0.507857 | 10.83691 | 6.76E-06 | 0.000714 | 4.530779 | 0.379925 | 0.635788 | -0.25586 | 3 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5601347 | 2 | 9;37 | | |
| cg1635452 | 0.208652 | 0.581611 | 10.83464 | 6.77E-06 | 0.000714 | 4.529251 | 0.477285 | 0.685937 | -0.20865 | 1 | 1.53E+08 | F | II | LCE2A | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg2509020 | 0.212067 | 0.45597 | 10.83452 | 6.77E-06 | 0.000714 | 4.529169 | 0.349937 | 0.562004 | -0.21207 | 7 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | | rs1819861 | 0 | 6;19 | | |
| cg0915712 | 0.236849 | 0.602515 | 10.83225 | 6.78E-06 | 0.000715 | 4.527638 | 0.484091 | 0.72094 | -0.23685 | 2 | 69201416 | R | II | GKN1 | TSS1500 | opensea | TSS1500-op | | rs7976194 | 2 | 3;2;1 | | |
| cg0087016 | 0.21195 | 0.412875 | 10.82851 | 6.8E-06 | 0.000715 | 4.525116 | 0.3069 | 0.51885 | -0.21195 | 12 | 12584171 | F | II | LOH12CR1 | Body | opensea | Body-opens | | rs1923269 | 0 | 0;20;31 | | |
| cg1239310 | 0.252442 | 0.578114 | 10.82725 | 6.81E-06 | 0.000715 | 4.524267 | 0.451893 | 0.704335 | -0.25244 | 11 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs1866220 | 5 | 1;37;16 | | |
| cg2421564 | 0.237812 | 0.600006 | 10.82714 | 6.81E-06 | 0.000715 | 4.524193 | 0.4811 | 0.718912 | -0.23781 | 10 | 91001364 | R | II | LIPA | Body | opensea | Body-opens | | rs1896579 | 1 | 7 | | |
| cg1240563 | 0.217189 | 0.546815 | 10.8271 | 6.81E-06 | 0.000715 | 4.524167 | 0.43822 | 0.655409 | -0.21719 | 7 | 72745074 | R | II | FKBP6 | Body | shelf | Body-shelf | chr7: | 72747 | rs1445205 | 1 | 1 | |
| cg0909492 | 0.213724 | 0.397784 | 10.82684 | 6.81E-06 | 0.000715 | 4.523993 | 0.290922 | 0.504646 | -0.21372 | 8 | 86456883 | R | II | | IGR | opensea | IGR-opense | | rs5641763 | 1 | 7;1 | | |
| cg2591816 | 0.220923 | 0.661014 | 10.82365 | 6.82E-06 | 0.000716 | 4.521841 | 0.550553 | 0.771476 | -0.22092 | 2 | 1.46E+08 | F | II | | IGR | opensea | IGR-opense | | rs5406500 | 1 | 34;44;46 | | |
| cg0628253 | 0.207404 | 0.390402 | 10.82355 | 6.82E-06 | 0.000716 | 4.521773 | 0.2867 | 0.494105 | -0.2074 | 8 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs5318236 | 3 | 3 | | |
| cg0916132 | 0.202684 | 0.610493 | 10.82347 | 6.82E-06 | 0.000716 | 4.521723 | 0.50915 | 0.711835 | -0.20268 | 8 | 1054717 | R | II | ERICH1-AS1 | Body | shore | Body-shore | chr8: | 10532 | rs1134022 | 1 | 1;2 | |
| cg0800904 | 0.219859 | 0.636676 | 10.82304 | 6.83E-06 | 0.000716 | 4.521431 | 0.526747 | 0.746605 | -0.21986 | 1 | 2.46E+08 | R | II | KIF26B | Body | opensea | Body-opens | | | | | | |
| cg1114618 | 0.223986 | 0.652509 | 10.82267 | 6.83E-06 | 0.000716 | 4.521181 | 0.540515 | 0.764502 | -0.22399 | 15 | 39593169 | F | II | | IGR | opensea | IGR-opense | | rs3708730 | 1 | 1;26 | | |
| cg2002378 | 0.202295 | 0.35974 | 10.8214 | 6.83E-06 | 0.000716 | 4.520323 | 0.258727 | 0.461022 | -0.20229 | 2 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs3758192 | 5 | 5 | | |
| cg2153667 | 0.215961 | 0.491921 | 10.82063 | 6.84E-06 | 0.000716 | 4.519801 | 0.383941 | 0.599902 | -0.21596 | 1 | 55951958 | R | II | | IGR | opensea | IGR-opense | | rs5317256 | 1 | 4;2 | | |
| cg2175155 | 0.25292 | 0.457777 | 10.81937 | 6.84E-06 | 0.000716 | 4.518956 | 0.331317 | 0.584238 | -0.25292 | 21 | 32451135 | F | II | | IGR | opensea | IGR-opense | | rs5522770 | 1 | 24;26;39 | | |
| cg0402421 | 0.215623 | 0.538935 | 10.81845 | 6.85E-06 | 0.000716 | 4.518334 | 0.431124 | 0.646747 | -0.21562 | 10 | 35003357 | R | II | PARD3 | Body | opensea | Body-opens | | rs1819344 | 1 | 9;1 | | |
| cg0579250 | 0.231893 | 0.571465 | 10.81788 | 6.85E-06 | 0.000717 | 4.517945 | 0.455518 | 0.687411 | -0.23189 | 9 | 1.13E+08 | F | II | PALM2 | Body | opensea | Body-opens | | rs1237552 | 7 | 9;18 | | |
| cg0131373 | 0.214718 | 0.595512 | 10.8172 | 6.85E-06 | 0.000717 | 4.517491 | 0.488153 | 0.702871 | -0.21472 | 12 | 10252119 | R | II | CLEC1A | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0702059 | 0.218736 | 0.542689 | 10.81643 | 6.86E-06 | 0.000717 | 4.516967 | 0.433322 | 0.652057 | -0.21874 | 10 | 69146234 | R | II | CTNNA3 | Body | opensea | Body-opens | | | | | | |
| cg1146309 | 0.20265 | 0.459746 | 10.81639 | 6.86E-06 | 0.000717 | 4.516943 | 0.358421 | 0.561071 | -0.20265 | 9 | 1.02E+08 | F | II | COL15A1 | Body | shelf | Body-shelf | chr9: | 10170 | | | | |
| cg2358011 | 0.269824 | 0.484164 | 10.81608 | 6.86E-06 | 0.000717 | 4.516736 | 0.349252 | 0.619076 | -0.26982 | 12 | 68511699 | F | II | | IGR | opensea | IGR-opense | | rs1460827 | 0 | 0 | | |
| cg1038784 | 0.212288 | 0.58663 | 10.81295 | 6.87E-06 | 0.000717 | 4.514618 | 0.480486 | 0.692774 | -0.21229 | 18 | 29757472 | F | II | | IGR | opensea | IGR-opense | | rs5348795 | 1 | 1 | | |
| cg0701742 | 0.226149 | 0.61243 | 10.81253 | 6.87E-06 | 0.000717 | 4.514339 | 0.499355 | 0.725504 | -0.22615 | 7 | 3247724 | R | II | | IGR | opensea | IGR-opense | | rs1886997 | 4 | 8;36;2 | | |
| cg1227908 | 0.219431 | 0.499654 | 10.81105 | 6.88E-06 | 0.000718 | 4.513339 | 0.389938 | 0.60937 | -0.21943 | 3 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5488651 | 3 | 4;1 | | |
| cg0024799 | 0.216203 | 0.549279 | 10.81085 | 6.88E-06 | 0.000718 | 4.5132 | 0.441177 | 0.65738 | -0.2162 | 5 | 7529982 | R | II | ADCY2 | Body | opensea | Body-opens | | rs1901776 | 1 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0472171 | 0.217769 | 0.515206 | 10.8085 | 6.89E-06 | 0.000718 | 4.511615 | 0.406321 | 0.62409 | -0.21777 | 11 | 32416490 | R | II | WT1 | Body | opensea | Body-opens | | rs1466356 | 26;15;1 |
| cg0234670 | 0.200609 | 0.519576 | 10.80766 | 6.9E-06 | 0.000718 | 4.511049 | 0.419272 | 0.619881 | -0.20061 | 15 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5649056 | 29;10;1 |
| cg2117411 | 0.215646 | 0.527781 | 10.8076 | 6.9E-06 | 0.000718 | 4.511006 | 0.419958 | 0.635604 | -0.21565 | 3 | 1.5E+08 | F | II | LINC01213 | TSS200 | opensea | TSS200-ope | | | |
| cg0871134 | 0.25332 | 0.485648 | 10.80725 | 6.9E-06 | 0.000718 | 4.510773 | 0.358989 | 0.612308 | -0.25332 | 9 | 1.24E+08 | F | II | TRAF1 | Body | opensea | Body-opens | | rs1850025 | 1;34 |
| cg1009587 | 0.201169 | 0.575416 | 10.80719 | 6.9E-06 | 0.000718 | 4.51073 | 0.474831 | 0.676001 | -0.20117 | 10 | 75523308 | F | II | SEC24C | Body | opensea | Body-opens | | | |
| cg0824346 | 0.230943 | 0.522361 | 10.80707 | 6.9E-06 | 0.000718 | 4.510652 | 0.406889 | 0.637832 | -0.23094 | 20 | 56274036 | F | II | PMEPA1 | 5'UTR | opensea | 5'UTR-open | | rs5772691 | 23 |
| cg1435537 | 0.225584 | 0.613664 | 10.80671 | 6.9E-06 | 0.000718 | 4.510409 | 0.500872 | 0.726457 | -0.22558 | 10 | 3850160 | R | II | | IGR | opensea | IGR-opense | | rs1809953 | 36;6;2 |
| cg1369649 | 0.253002 | 0.488134 | 10.80629 | 6.9E-06 | 0.000718 | 4.510122 | 0.361633 | 0.614634 | -0.253 | 3 | 1.51E+08 | F | II | LOC20165 | TSS1500 | opensea | TSS1500-op | | rs1144074 | 1 |
| cg0373131 | 0.238694 | 0.389513 | 10.80615 | 6.9E-06 | 0.000718 | 4.510029 | 0.270165 | 0.50886 | -0.23869 | 6 | 1.49E+08 | F | II | UST | Body | opensea | Body-opens | | rs9498156 | 19;49 |
| cg1188541 | 0.319135 | 0.492537 | 10.80583 | 6.9E-06 | 0.000718 | 4.509812 | 0.332969 | 0.652104 | -0.31914 | 21 | 30715207 | R | II | BACH1 | 3'UTR | opensea | 3'UTR-open | | rs5398539 | 13 |
| cg0410368 | 0.215131 | 0.570757 | 10.8058 | 6.9E-06 | 0.000718 | 4.509795 | 0.463191 | 0.678322 | -0.21513 | 21 | 37999823 | F | II | | IGR | opensea | IGR-opense | | rs5734896 | 0 |
| cg1633727 | 0.202333 | 0.677027 | 10.80463 | 6.91E-06 | 0.000718 | 4.509003 | 0.575861 | 0.778193 | -0.20233 | 3 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0212370 | 0.236159 | 0.501877 | 10.80404 | 6.91E-06 | 0.000718 | 4.508601 | 0.383798 | 0.619956 | -0.23616 | 6 | 1.36E+08 | F | II | AHI1 | Body | opensea | Body-opens | | | |
| cg2518976 | 0.24924 | 0.569868 | 10.80132 | 6.92E-06 | 0.000719 | 4.506765 | 0.445248 | 0.694488 | -0.24924 | 6 | 1.12E+08 | R | II | FYN | 5'UTR | opensea | 5'UTR-open | | rs1916832 | 41;17;14;11 |
| cg1707431 | 0.216568 | 0.60257 | 10.80028 | 6.93E-06 | 0.000719 | 4.506059 | 0.494285 | 0.710854 | -0.21657 | 6 | 1.4E+08 | R | II | LOC10050 | Body | opensea | Body-opens | | rs5738424 | 48 |
| cg1747448 | 0.260761 | 0.46843 | 10.79936 | 6.93E-06 | 0.000719 | 4.50544 | 0.338049 | 0.59881 | -0.26076 | 12 | 20047827 | F | II | | IGR | opensea | IGR-opense | | rs5284874 | 44 |
| cg1633283 | 0.207459 | 0.458085 | 10.79832 | 6.94E-06 | 0.00072 | 4.504733 | 0.354355 | 0.561815 | -0.20746 | 15 | 1.01E+08 | R | II | LRRK1 | Body | opensea | Body-opens | | rs3724335 | 47 |
| cg0647766 | 0.242171 | 0.651046 | 10.79755 | 6.94E-06 | 0.00072 | 4.504214 | 0.52996 | 0.772131 | -0.24217 | 13 | 46757415 | R | I | LCP1 | TSS1500 | opensea | TSS1500-op | | rs1895407 | 24;22;16;11;4;1 |
| cg1074314 | 0.252207 | 0.617498 | 10.79663 | 6.95E-06 | 0.00072 | 4.503591 | 0.491394 | 0.743601 | -0.25221 | 13 | 94446931 | F | II | GPC6 | Body | opensea | Body-opens | | rs5623907 | 1;8;35 |
| cg0864450 | 0.205472 | 0.589883 | 10.79601 | 6.95E-06 | 0.00072 | 4.503172 | 0.487147 | 0.692619 | -0.20547 | 22 | 20771324 | R | II | | IGR | opensea | IGR-opense | | rs1876399 | 8 |
| cg1833451 | 0.204659 | 0.561416 | 10.79584 | 6.95E-06 | 0.00072 | 4.503057 | 0.459087 | 0.663746 | -0.20466 | 10 | 56245086 | R | II | PCDH15 | Body | opensea | Body-opens | | rs5509436 | 24 |
| cg0891463 | 0.237976 | 0.454843 | 10.79307 | 6.96E-06 | 0.000721 | 4.501186 | 0.335855 | 0.573831 | -0.23798 | 3 | 1.21E+08 | F | II | HCLS1 | Body | opensea | Body-opens | | rs5422666 | 1;24 |
| cg0969506 | 0.213532 | 0.425961 | 10.79305 | 6.96E-06 | 0.000721 | 4.501174 | 0.319196 | 0.532727 | -0.21353 | 1 | 51661252 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1001548 | 0.228476 | 0.662639 | 10.7884 | 6.98E-06 | 0.000722 | 4.498025 | 0.548401 | 0.776877 | -0.22848 | 15 | 39685589 | F | II | | IGR | opensea | IGR-opense | | rs5649919 | 0;32 |
| cg0024017 | 0.220422 | 0.565442 | 10.78811 | 6.99E-06 | 0.000722 | 4.497829 | 0.455231 | 0.675652 | -0.22042 | 6 | 74232108 | R | II | EEF1A1 | TSS1500 | shore | TSS1500-sh | chr6:7423 | rs3353778 | 35 |
| cg2502092 | 0.223999 | 0.48281 | 10.78724 | 6.99E-06 | 0.000722 | 4.497238 | 0.370811 | 0.59481 | -0.224 | 8 | 42742938 | R | II | RNF170 | Body | opensea | Body-opens | | rs1486119 | 45 |
| cg0994242 | 0.221915 | 0.648469 | 10.78691 | 6.99E-06 | 0.000722 | 4.497017 | 0.537511 | 0.759426 | -0.22191 | 17 | 74913419 | F | II | MGAT5B | Body | opensea | Body-opens | | rs1171965 | 0;28 |
| cg2258150 | 0.209279 | 0.71331 | 10.78636 | 6.99E-06 | 0.000722 | 4.496647 | 0.608671 | 0.817949 | -0.20928 | 5 | 1.7E+08 | R | II | CTD-2270F | Body | opensea | Body-opens | | rs1498547 | 37;34;28;4;1 |
| cg1075131 | 0.227818 | 0.418608 | 10.7863 | 6.99E-06 | 0.000722 | 4.496602 | 0.304699 | 0.532517 | -0.22782 | 20 | 57557998 | F | II | NELFCD | Body | shore | Body-shore | chr20:575 | rs1859013 | 11;12;17 |
| cg0152100 | 0.206873 | 0.596977 | 10.78618 | 7E-06 | 0.000722 | 4.496523 | 0.493541 | 0.700414 | -0.20687 | 10 | 90759822 | F | II | FAS | Body | opensea | Body-opens | | rs9658715 | 14;20;24 |
| cg2717396 | 0.21433 | 0.582511 | 10.78375 | 7.01E-06 | 0.000723 | 4.494877 | 0.475346 | 0.689676 | -0.21433 | 1 | 68841715 | R | II | | IGR | opensea | IGR-opense | | rs1827353 | 49;24;19 |
| cg2502675 | 0.210266 | 0.604757 | 10.78257 | 7.01E-06 | 0.000723 | 4.494078 | 0.499623 | 0.70989 | -0.21027 | 5 | 57702195 | F | II | | IGR | opensea | IGR-opense | | rs1840512 | 24 |
| cg0117780 | 0.231062 | 0.481904 | 10.78098 | 7.02E-06 | 0.000724 | 4.493004 | 0.366373 | 0.597435 | -0.23106 | 17 | 39042031 | F | II | KRT20 | TSS1500 | opensea | TSS1500-op | | rs1397193 | 32;41 |
| cg2175419 | 0.225851 | 0.578625 | 10.77864 | 7.03E-06 | 0.000724 | 4.491415 | 0.465699 | 0.69155 | -0.22585 | 4 | 57393820 | F | II | | IGR | shelf | IGR-shelf | chr4:5739 | rs5595802 | 1;39 |
| cg1231838 | 0.207569 | 0.431871 | 10.77508 | 7.05E-06 | 0.000725 | 4.489007 | 0.328087 | 0.535655 | -0.20757 | 10 | 79000235 | F | II | KCNMA1 | Body | opensea | Body-opens | | rs5731436 | 30 |
| cg0637765 | 0.228285 | 0.664147 | 10.77362 | 7.05E-06 | 0.000726 | 4.488014 | 0.550005 | 0.77829 | -0.22829 | 3 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs5365641 | 49;2 |
| cg2297873 | 0.206085 | 0.536315 | 10.77172 | 7.06E-06 | 0.000726 | 4.486725 | 0.433272 | 0.639357 | -0.20608 | 3 | 1.95E+08 | F | II | | IGR | opensea | IGR-opense | | rs1153288 | 20;26 |
| cg1344260 | 0.206026 | 0.574836 | 10.77158 | 7.06E-06 | 0.000726 | 4.486633 | 0.471823 | 0.677849 | -0.20603 | 11 | 3071269 | R | II | CARS | Body | opensea | Body-opens | | rs5403079 | 51;37;36;26 |
| cg0107608 | 0.27027 | 0.504343 | 10.77076 | 7.07E-06 | 0.000726 | 4.486074 | 0.369208 | 0.639478 | -0.27027 | 3 | 1.78E+08 | F | II | KCNMB2 | 5'UTR | opensea | 5'UTR-open | | rs5316963 | 0;29 |
| cg1370210 | 0.225721 | 0.606203 | 10.76894 | 7.08E-06 | 0.000727 | 4.484841 | 0.493342 | 0.719063 | -0.22572 | 16 | 68774709 | R | II | CDH1 | Body | shelf | Body-shelf | chr16:687 | | |
| cg0002493 | 0.213871 | 0.492231 | 10.76819 | 7.08E-06 | 0.000727 | 4.484332 | 0.385296 | 0.599167 | -0.21387 | 1 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1413258 | 0.208873 | 0.532605 | 10.76713 | 7.08E-06 | 0.000727 | 4.483616 | 0.428168 | 0.637041 | -0.20887 | 5 | 95513202 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1499386 | 35;29;1 |
| cg0384596 | 0.208044 | 0.562866 | 10.76701 | 7.09E-06 | 0.000727 | 4.483533 | 0.458843 | 0.666888 | -0.20804 | 3 | 65880266 | F | II | MAGI1 | Body | opensea | Body-opens | | rs1853162 | 30 |
| cg2175575 | 0.206773 | 0.541549 | 10.76278 | 7.11E-06 | 0.000728 | 4.480666 | 0.438163 | 0.644936 | -0.20677 | 8 | 1.19E+08 | R | II | SAMD12 | Body | opensea | Body-opens | | rs5627921 | 35;31 |
| cg1851990 | 0.225568 | 0.512012 | 10.76156 | 7.11E-06 | 0.000728 | 4.479832 | 0.399228 | 0.624796 | -0.22557 | 11 | 95289759 | F | II | | IGR | opensea | IGR-opense | | rs5507908 | 29;37 |
| cg0573248 | 0.200613 | 0.587729 | 10.76126 | 7.11E-06 | 0.000728 | 4.479633 | 0.487422 | 0.688035 | -0.20061 | 13 | 94709668 | F | II | GPC6 | Body | opensea | Body-opens | | rs1829557 | 21 |
| cg1549113 | 0.245645 | 0.59771 | 10.75975 | 7.12E-06 | 0.000729 | 4.478608 | 0.474888 | 0.720532 | -0.24564 | 2 | 40545033 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs1159447 | 25 |
| cg1307468 | 0.201779 | 0.552948 | 10.75964 | 7.12E-06 | 0.000729 | 4.478531 | 0.452058 | 0.653838 | -0.20178 | 15 | 40113167 | R | II | GPR176 | Body | opensea | Body-opens | | rs1500213 | 11 |
| cg0139411 | 0.225652 | 0.448708 | 10.75907 | 7.12E-06 | 0.000729 | 4.478144 | 0.335882 | 0.561534 | -0.22565 | 5 | 1.5E+08 | R | II | RBM22 | TSS1500 | shore | TSS1500-sh | chr5:1500 | rs5471269 | 48;20 |
| cg2085848 | 0.253953 | 0.501885 | 10.75849 | 7.13E-06 | 0.000729 | 4.477753 | 0.374908 | 0.628861 | -0.25395 | 15 | 52369365 | F | II | | IGR | opensea | IGR-opense | | rs5521638 | 1 |
| cg1715152 | 0.206985 | 0.61724 | 10.75845 | 7.13E-06 | 0.000729 | 4.477723 | 0.513748 | 0.720733 | -0.20698 | 3 | 99246483 | F | II | | IGR | opensea | IGR-opense | | rs5355101 | 0;14 |
| cg0575044 | 0.210007 | 0.546608 | 10.75683 | 7.13E-06 | 0.000729 | 4.476623 | 0.441604 | 0.651611 | -0.21001 | 11 | 36208284 | R | II | LDLRAD3 | Body | opensea | Body-opens | | rs1861512 | 49;48;41;1 |
| cg0475346 | 0.213781 | 0.442363 | 10.75508 | 7.14E-06 | 0.00073 | 4.475438 | 0.335473 | 0.549253 | -0.21378 | 12 | 53569794 | R | II | CSAD | 5'UTR | opensea | 5'UTR-open | | rs1839856 | 15;13;1 |
| cg0624666 | 0.208709 | 0.473914 | 10.75394 | 7.15E-06 | 0.00073 | 4.474661 | 0.36956 | 0.578269 | -0.20871 | 8 | 26712348 | F | II | ADRA1A | Body | opensea | Body-opens | | rs5309310 | 0;26 |
| cg1676068 | 0.261141 | 0.644956 | 10.7532 | 7.15E-06 | 0.00073 | 4.474161 | 0.514385 | 0.775527 | -0.26114 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1518798 | 0.230291 | 0.57069 | 10.74991 | 7.17E-06 | 0.000731 | 4.471923 | 0.455545 | 0.685835 | -0.23029 | 17 | 42675980 | F | II | | IGR | opensea | IGR-opense | | rs5557443 | 12 |
| cg0541570 | 0.211831 | 0.549101 | 10.74939 | 7.17E-06 | 0.000731 | 4.471571 | 0.443186 | 0.655016 | -0.21183 | 9 | 27109023 | F | II | TEK | TSS200 | opensea | TSS200-ope | | rs5671624 | 0;12;30 |
| cg2657471 | 0.21593 | 0.634086 | 10.74925 | 7.17E-06 | 0.000731 | 4.471477 | 0.526121 | 0.742051 | -0.21593 | 3 | 93881733 | F | II | | IGR | opensea | IGR-opense | | rs1162539 | 0 |
| cg1212624 | 0.239394 | 0.605284 | 10.74751 | 7.18E-06 | 0.000731 | 4.470294 | 0.485587 | 0.724981 | -0.23939 | 14 | 59742285 | F | II | DAAM1 | Body | opensea | Body-opens | | rs5550038 | 1;19;44 |
| cg0159468 | 0.216573 | 0.571499 | 10.74678 | 7.18E-06 | 0.000731 | 4.469798 | 0.463213 | 0.679785 | -0.21657 | 16 | 3115053 | R | II | IL32 | TSS1500 | opensea | TSS1500-op | | rs1882202 | 46;2 |
| cg0024209 | 0.241132 | 0.518802 | 10.74643 | 7.18E-06 | 0.000731 | 4.469558 | 0.398236 | 0.639368 | -0.24113 | 1 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs5608731 | 0;21;26 |
| cg1167509 | 0.238513 | 0.452848 | 10.74612 | 7.18E-06 | 0.000731 | 4.469352 | 0.333592 | 0.572105 | -0.23851 | 1 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5586714 | 27;7 |
| cg2203500 | 0.208357 | 0.655484 | 10.74609 | 7.19E-06 | 0.000731 | 4.469328 | 0.551306 | 0.759663 | -0.20836 | 5 | 58647658 | F | II | PDE4D | Body | opensea | Body-opens | | | |
| cg1065205 | 0.237611 | 0.546066 | 10.74589 | 7.19E-06 | 0.000731 | 4.469195 | 0.427261 | 0.664872 | -0.23761 | 13 | 43649126 | R | II | DNAJC15 | Body | opensea | Body-opens | | rs1430925 | 36;35;28;11 |
| cg0620957 | 0.20561 | 0.554104 | 10.74502 | 7.19E-06 | 0.000731 | 4.468605 | 0.451299 | 0.656909 | -0.20561 | 4 | 4890431 | R | II | | IGR | opensea | IGR-opense | | rs5564162 | 47;41 |
| cg0799309 | 0.212576 | 0.507992 | 10.74331 | 7.2E-06 | 0.000731 | 4.467437 | 0.401704 | 0.61428 | -0.21258 | 7 | 1.17E+08 | R | II | CTTNBP2 | Body | opensea | Body-opens | | rs5476321 | 46 |
| cg0195289 | 0.246864 | 0.576009 | 10.74328 | 7.2E-06 | 0.000731 | 4.467419 | 0.452577 | 0.699441 | -0.24686 | 5 | 1.11E+08 | R | II | STARD4-AS | Body | opensea | Body-opens | | rs1457719 | 7 |
| cg1789544 | 0.214066 | 0.533553 | 10.74016 | 7.21E-06 | 0.000732 | 4.4653 | 0.42652 | 0.640586 | -0.21407 | 4 | 1.74E+08 | R | II | GALNTL6 | Body | opensea | Body-opens | | rs1155799 | 13;5;2 |
| cg0697566 | 0.218953 | 0.541674 | 10.74009 | 7.21E-06 | 0.000732 | 4.465249 | 0.432197 | 0.65115 | -0.21895 | 5 | 83491377 | F | II | EDIL3 | Body | opensea | Body-opens | | rs5778190 | 1;8 |
| cg2495066 | 0.202435 | 0.666241 | 10.73658 | 7.23E-06 | 0.000733 | 4.462862 | 0.565023 | 0.767458 | -0.20244 | 2 | 33066042 | R | II | LINC00486 | Body | opensea | Body-opens | | rs1886177 | 49;35;1 |
| cg1120928 | 0.20376 | 0.504764 | 10.73489 | 7.24E-06 | 0.000733 | 4.46171 | 0.402884 | 0.606644 | -0.20376 | 3 | 1.38E+08 | F | II | MRAS | Body | opensea | Body-opens | | | |
| cg0788221 | 0.213595 | 0.342494 | 10.73452 | 7.24E-06 | 0.000733 | 4.461458 | 0.235696 | 0.449291 | -0.21359 | 8 | 21541227 | F | II | | IGR | opensea | IGR-opense | | rs5336409 | 1;2 |
| cg1828198 | 0.222432 | 0.599068 | 10.73401 | 7.24E-06 | 0.000733 | 4.461115 | 0.487852 | 0.710284 | -0.22243 | 20 | 6699284 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1823485 | 0.212677 | 0.616888 | 10.73279 | 7.25E-06 | 0.000733 | 4.460281 | 0.51055 | 0.723226 | -0.21268 | 3 | 1.06E+08 | R | II | CBLB | Body | opensea | Body-opens | | rs1163046 | 19;4;2 |
| cg1532026 | 0.212167 | 0.576765 | 10.73179 | 7.25E-06 | 0.000733 | 4.4596 | 0.470681 | 0.682848 | -0.21217 | 5 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs1480885 | 0 |
| cg2434887 | 0.237209 | 0.381835 | 10.73158 | 7.26E-06 | 0.000733 | 4.459462 | 0.26323 | 0.500439 | -0.23721 | 6 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs1485131 | 0;1 |
| cg1244663 | 0.201064 | 0.527755 | 10.73047 | 7.26E-06 | 0.000733 | 4.458702 | 0.427223 | 0.628287 | -0.20106 | 1 | 87636203 | F | II | | IGR | opensea | IGR-opense | | rs5630288 | 30 |
| cg0297927 | 0.256697 | 0.652417 | 10.73045 | 7.26E-06 | 0.000733 | 4.458688 | 0.524068 | 0.780766 | -0.2567 | 8 | 20367570 | R | II | | IGR | opensea | IGR-opense | | rs7805047 | 33;31;1 |
| cg1769722 | 0.225132 | 0.610761 | 10.72987 | 7.26E-06 | 0.000733 | 4.458298 | 0.498195 | 0.723327 | -0.22513 | 8 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5536167 | 37;15;11;10 |
| cg2068497 | 0.209621 | 0.457451 | 10.72945 | 7.27E-06 | 0.000733 | 4.458011 | 0.35264 | 0.562261 | -0.20962 | 7 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5437201 | 5;16 |
| cg0192617 | 0.219777 | 0.462325 | 10.72756 | 7.27E-06 | 0.000734 | 4.456722 | 0.352437 | 0.572214 | -0.21978 | 8 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | rs5753607 | 4;1 |
| cg1088448 | 0.238684 | 0.498298 | 10.7264 | 7.28E-06 | 0.000734 | 4.455933 | 0.378956 | 0.61764 | -0.23868 | 2 | 1.92E+08 | R | II | | IGR | opensea | IGR-opense | | rs5449776 | 46;23;16;2 |
| cg0094335 | 0.245665 | 0.541203 | 10.7262 | 7.28E-06 | 0.000734 | 4.455797 | 0.41837 | 0.664035 | -0.24567 | 8 | 13222600 | R | II | DLC1 | Body | opensea | Body-opens | | rs5424827 | 1 |
| cg0339334 | 0.219766 | 0.507781 | 10.72584 | 7.28E-06 | 0.000734 | 4.455555 | 0.397898 | 0.617664 | -0.21977 | 10 | 72751056 | R | II | | IGR | opensea | IGR-opense | | rs5553028 | 22 |
| cg2012773 | 0.20451 | 0.46558 | 10.72411 | 7.29E-06 | 0.000734 | 4.454375 | 0.363325 | 0.567835 | -0.20451 | 10 | 33635645 | R | II | | IGR | opensea | IGR-opense | | rs1400317 | 2 |
| cg2456290 | 0.234005 | 0.577885 | 10.72307 | 7.3E-06 | 0.000735 | 4.453665 | 0.460883 | 0.694888 | -0.234 | 9 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0733514 | 0.214689 | 0.582351 | 10.72067 | 7.31E-06 | 0.000735 | 4.45203 | 0.475006 | 0.689695 | -0.21469 | 1 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1846597 | 18;19;40 |
| cg0758278 | 0.220493 | 0.501041 | 10.72057 | 7.31E-06 | 0.000735 | 4.451961 | 0.390795 | 0.611288 | -0.22049 | 6 | 53171642 | F | II | ELOVL5 | 5'UTR | opensea | 5'UTR-open | | rs9395853 | 0;16;32 |
| cg1565502 | 0.229678 | 0.602953 | 10.7202 | 7.31E-06 | 0.000735 | 4.451712 | 0.488114 | 0.717792 | -0.22968 | 8 | 41575780 | F | II | ANK1 | Body | opensea | Body-opens | | rs1823488 | 0;1;14 |
| cg0280788 | 0.220324 | 0.576449 | 10.72017 | 7.31E-06 | 0.000735 | 4.451693 | 0.466287 | 0.686611 | -0.22032 | 6 | 1.26E+08 | F | II | TPD52L1 | 5'UTR | opensea | 5'UTR-open | | rs5728543 | 21 |
| cg1061548 | 0.229807 | 0.611679 | 10.71945 | 7.31E-06 | 0.000735 | 4.451198 | 0.496775 | 0.726582 | -0.22981 | 2 | 31181446 | F | II | GALNT14 | Body | opensea | Body-opens | | rs7929270 | 1;2 |
| cg2294925 | 0.228525 | 0.475622 | 10.7193 | 7.32E-06 | 0.000735 | 4.4511 | 0.361359 | 0.589884 | -0.22852 | 1 | 67135552 | F | II | SGIP1 | Body | opensea | Body-opens | | rs5766792 | 0;10;27;48 |
| cg0736959 | 0.219254 | 0.609931 | 10.71922 | 7.32E-06 | 0.000735 | 4.451044 | 0.500304 | 0.719557 | -0.21925 | 13 | 31712722 | R | II | HSPH1 | ExonBnd | opensea | ExonBnd-op | | rs5706973 | 1 |
| cg0587888 | 0.21827 | 0.660311 | 10.71891 | 7.32E-06 | 0.000735 | 4.450829 | 0.551176 | 0.769446 | -0.21827 | 3 | 99620389 | F | II | C3orf26 | Body | opensea | Body-opens | | rs1512481 | 42;47 |
| cg1148183 | 0.214809 | 0.680843 | 10.71569 | 7.33E-06 | 0.000735 | 4.448637 | 0.573439 | 0.788247 | -0.21481 | 17 | 36075377 | F | II | HNF1B | Body | opensea | Body-opens | | rs5600340 | 47 |
| cg0097132 | 0.201735 | 0.520198 | 10.71495 | 7.34E-06 | 0.000735 | 4.448132 | 0.41933 | 0.621065 | -0.20173 | 3 | 1.19E+08 | R | II | MAATS1 | Body | opensea | Body-opens | | rs7489862 | 42 |
| cg1266814 | 0.217913 | 0.571019 | 10.71464 | 7.34E-06 | 0.000735 | 4.447923 | 0.462062 | 0.679975 | -0.21791 | 2 | 56229195 | R | II | MIR216B | TSS1500 | opensea | TSS1500-op | | rs5428739 | 15 |
| cg0862835 | 0.213364 | 0.616091 | 10.71427 | 7.34E-06 | 0.000735 | 4.447669 | 0.509409 | 0.722774 | -0.21336 | 14 | 51989095 | F | II | FRMD6-AS2 | Body | opensea | Body-opens | | rs5621596 | 0;1;32 |
| cg1473265 | 0.214222 | 0.558139 | 10.7128 | 7.35E-06 | 0.000736 | 4.446668 | 0.451028 | 0.66525 | -0.21422 | 4 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5319931 | 1;24;40 |
| cg0924980 | 0.208132 | 0.630176 | 10.71221 | 7.35E-06 | 0.000736 | 4.446266 | 0.52611 | 0.734242 | -0.20813 | 16 | 84846936 | F | II | | IGR | opensea | IGR-opense | | rs5582057 | 0;46 |
| cg1637104 | 0.216299 | 0.51105 | 10.71207 | 7.35E-06 | 0.000736 | 4.446172 | 0.402901 | 0.6192 | -0.2163 | 1 | 51975433 | R | II | EPS15 | Body | opensea | Body-opens | | rs5761075 | 25;17 |
| cg0932678 | 0.211308 | 0.591211 | 10.71148 | 7.35E-06 | 0.000736 | 4.445765 | 0.485557 | 0.696865 | -0.21131 | 3 | 1.93E+08 | R | II | MB21D2 | Body | opensea | Body-opens | | rs3677982 | 19;11;1 |
| cg0601211 | 0.20897 | 0.736863 | 10.71099 | 7.36E-06 | 0.000736 | 4.445433 | 0.632377 | 0.841348 | -0.20897 | 8 | 11341573 | F | II | | IGR | opensea | IGR-opense | | rs5701738 | 34;49 |
| cg1801628 | 0.227733 | 0.519597 | 10.7098 | 7.36E-06 | 0.000736 | 4.444622 | 0.405731 | 0.633464 | -0.22773 | 13 | 95834131 | R | II | ABCC4 | Body | opensea | Body-opens | | rs1912913 | 49;1 |
| cg2609118 | 0.226275 | 0.343899 | 10.70968 | 7.36E-06 | 0.000736 | 4.444541 | 0.230761 | 0.457037 | -0.22628 | 1 | 77415478 | R | II | ST6GALNA | Body | opensea | Body-opens | | rs5507793 | 1 |
| cg0857159 | 0.232691 | 0.504206 | 10.70756 | 7.37E-06 | 0.000736 | 4.443096 | 0.38786 | 0.620551 | -0.23269 | 6 | 64225663 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0170453 | 0.208595 | 0.643045 | 10.70548 | 7.38E-06 | 0.000737 | 4.441676 | 0.538748 | 0.747343 | -0.20859 | 4 | 40518024 | R | II | RBM47 | 5'UTR | opensea | 5'UTR-open | | rs5332106 | 14;2 |
| cg2542317 | 0.224554 | 0.576187 | 10.70495 | 7.39E-06 | 0.000737 | 4.441313 | 0.46391 | 0.688464 | -0.22455 | 3 | 12236303 | R | II | | IGR | opensea | IGR-opense | | rs5663822 | 50;2 |
| cg1607439 | 0.221902 | 0.439168 | 10.70384 | 7.39E-06 | 0.000737 | 4.440556 | 0.328217 | 0.550119 | -0.2219 | 15 | 58256507 | R | II | ALDH1A2 | Body | opensea | Body-opens | | rs5738941 | 28;20 |
| cg0390929 | 0.205602 | 0.601639 | 10.70299 | 7.4E-06 | 0.000738 | 4.439973 | 0.498839 | 0.70444 | -0.2056 | 5 | 61086467 | R | II | | IGR | opensea | IGR-opense | | rs1154519 | 46;33;25;12;2;1 |
| cg2153801 | 0.209202 | 0.585747 | 10.70095 | 7.41E-06 | 0.000738 | 4.438584 | 0.481145 | 0.690348 | -0.2092 | 1 | 2.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1454227 | 0;2;31;34 |
| cg0664362 | 0.202277 | 0.569027 | 10.70002 | 7.41E-06 | 0.000739 | 4.437945 | 0.467889 | 0.670166 | -0.20228 | 7 | 1.17E+08 | F | II | CTTNBP2 | Body | opensea | Body-opens | | rs1142494 | 0 |
| cg1771941 | 0.202154 | 0.554755 | 10.69904 | 7.42E-06 | 0.000739 | 4.437279 | 0.453678 | 0.655833 | -0.20215 | 18 | 73139433 | R | II | SMIM21 | 1stExon | opensea | 1stExon-op | | rs5714971 | 25;1 |
| cg1090057 | 0.234045 | 0.479224 | 10.69822 | 7.42E-06 | 0.000739 | 4.436717 | 0.362201 | 0.596246 | -0.23404 | 8 | 1.36E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg0384565 | 0.202838 | 0.520245 | 10.69767 | 7.42E-06 | 0.000739 | 4.436341 | 0.418826 | 0.621663 | -0.20284 | 2 | 1.53E+08 | R | II | FMNL2 | Body | opensea | Body-opens | | | |
| cg0298100 | 0.226354 | 0.29351 | 10.69735 | 7.42E-06 | 0.000739 | 4.43612 | 0.180333 | 0.406687 | -0.22635 | 10 | 1.35E+08 | R | II | GPR123 | Body | shore | Body-shore | chr10:1346 | rs1906855 | 35;10 |
| cg1457147 | 0.244705 | 0.563784 | 10.69647 | 7.43E-06 | 0.000739 | 4.435523 | 0.441432 | 0.686137 | -0.2447 | 1 | 2.18E+08 | R | II | GPATCH2 | Body | opensea | Body-opens | | rs1895635 | 33;17;12;7 |
| cg0341396 | 0.253618 | 0.531645 | 10.69573 | 7.43E-06 | 0.000739 | 4.435019 | 0.404836 | 0.658454 | -0.25362 | 22 | 31136755 | F | II | OSBP2 | Body | opensea | Body-opens | | rs1413962 | 0;2 |
| cg0106105 | 0.230443 | 0.478598 | 10.6957 | 7.43E-06 | 0.000739 | 4.434999 | 0.363376 | 0.593819 | -0.23044 | 6 | 84090476 | F | II | ME1 | Body | opensea | Body-opens | | rs1909110 | 1;47 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2122504 | 0.214026 | 0.573467 | 10.69499 | 7.44E-06 | 0.000739 | 4.434513 | 0.466454 | 0.68048 | -0.21403 | 4 | 32147668 | R | II | LOC10272 | ExonBnd | opensea | ExonBnd-op | | | | | | | | | | | | | | |
| cg0411937 | 0.201496 | 0.595757 | 10.69467 | 7.44E-06 | 0.000739 | 4.434291 | 0.495009 | 0.696505 | -0.2015 | 14 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5510676 | 22 | | | | | | | | | | |
| cg1460604 | 0.212773 | 0.629188 | 10.69421 | 7.44E-06 | 0.000739 | 4.433982 | 0.522802 | 0.735575 | -0.21277 | 3 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg0697467 | 0.208905 | 0.595519 | 10.69227 | 7.45E-06 | 0.00074 | 4.432656 | 0.491067 | 0.699971 | -0.2089 | 2 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | rs3698753 | 23;22;9;7 | | | | | | | | | | |
| cg1202448 | 0.209679 | 0.590617 | 10.69178 | 7.45E-06 | 0.00074 | 4.432321 | 0.485777 | 0.695456 | -0.20968 | 11 | 97527648 | R | II | | IGR | opensea | IGR-opense | | rs7147549 | 15 | | | | | | | | | | |
| cg0362698 | 0.202744 | 0.524874 | 10.69116 | 7.45E-06 | 0.00074 | 4.431898 | 0.423502 | 0.626246 | -0.20274 | 7 | 1.44E+08 | R | II | TPK1 | Body | opensea | Body-opens | | rs1022570 | 31;7 | | | | | | | | | | |
| cg2596957 | 0.224125 | 0.508118 | 10.68996 | 7.46E-06 | 0.00074 | 4.431078 | 0.396055 | 0.62018 | -0.22412 | 6 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs19219480 | | | | | | | | | | | |
| cg2718131 | 0.249908 | 0.544719 | 10.6898 | 7.46E-06 | 0.00074 | 4.430966 | 0.419764 | 0.669673 | -0.24991 | 7 | 1.48E+08 | R | II | | IGR | opensea | IGR-opense | | rs1456714 | 48 | | | | | | | | | | |
| cg2254830 | 0.20294 | 0.41462 | 10.68723 | 7.47E-06 | 0.000741 | 4.429206 | 0.31315 | 0.51609 | -0.20294 | 4 | 1.1E+08 | F | II | COL25A1 | Body | opensea | Body-opens | | rs5564564 | 0 | | | | | | | | | | |
| cg0631445 | 0.207669 | 0.395325 | 10.68681 | 7.48E-06 | 0.000741 | 4.428924 | 0.29149 | 0.499159 | -0.20767 | 2 | 1.21E+08 | R | II | RALB | Body | opensea | Body-opens | | rs7631671 | 47 | | | | | | | | | | |
| cg2475479 | 0.228214 | 0.519493 | 10.68627 | 7.48E-06 | 0.000741 | 4.42855 | 0.405385 | 0.6336 | -0.22821 | 4 | 1.74E+08 | F | II | | IGR | opensea | IGR-opense | | rs5702959 | 0 | | | | | | | | | | |
| cg2692858 | 0.256951 | 0.599821 | 10.68553 | 7.48E-06 | 0.000741 | 4.428047 | 0.471346 | 0.728297 | -0.25695 | 7 | 25591490 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1527473 | 0.206031 | 0.632583 | 10.68504 | 7.49E-06 | 0.000741 | 4.427715 | 0.529568 | 0.735599 | -0.20603 | 18 | 46057682 | F | II | | IGR | opensea | IGR-opense | | rs5390337 | 43;50 | | | | | | | | | | |
| cg1188784 | 0.220508 | 0.582022 | 10.68415 | 7.49E-06 | 0.000741 | 4.427105 | 0.471767 | 0.692276 | -0.22051 | 15 | 32392710 | F | II | CHRNA7 | Body | opensea | Body-opens | | rs5615183 | 38 | | | | | | | | | | |
| cg0128404 | 0.224836 | 0.61516 | 10.68407 | 7.49E-06 | 0.000741 | 4.427049 | 0.502742 | 0.727578 | -0.22484 | 10 | 23081250 | R | II | | IGR | opensea | IGR-opense | | rs5566667 | 39;23;8;1 | | | | | | | | | | |
| cg2538342 | 0.245145 | 0.546686 | 10.68394 | 7.49E-06 | 0.000741 | 4.426958 | 0.424114 | 0.669259 | -0.24515 | 21 | 40259710 | R | II | LOC40086 | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg2417153 | 0.227844 | 0.512059 | 10.68346 | 7.49E-06 | 0.000741 | 4.426635 | 0.398137 | 0.625982 | -0.22784 | 8 | 55361122 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg0325642 | 0.229401 | 0.609876 | 10.68168 | 7.5E-06 | 0.000742 | 4.425415 | 0.495175 | 0.724576 | -0.2294 | 12 | 13099884 | F | II | GPRC5D | Body | opensea | Body-opens | | rs1821890 | 0;15;35 | | | | | | | | | | |
| cg0718864 | 0.21177 | 0.589363 | 10.6796 | 7.51E-06 | 0.000742 | 4.423994 | 0.483478 | 0.695248 | -0.21177 | 17 | 34208012 | R | II | CCL5 | TSS1500 | opensea | TSS1500-op | | rs3307775 | 27;2 | | | | | | | | | | |
| cg1652481 | 0.224954 | 0.549574 | 10.67874 | 7.52E-06 | 0.000742 | 4.423406 | 0.437097 | 0.662051 | -0.22495 | 1 | 2.36E+08 | R | II | NID1 | Body | opensea | Body-opens | | rs5548831 | 18;2 | | | | | | | | | | |
| cg2351698 | 0.20573 | 0.535928 | 10.67873 | 7.52E-06 | 0.000742 | 4.423393 | 0.433062 | 0.638793 | -0.20573 | 5 | 14356625 | F | II | TRIO | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg2391810 | 0.220644 | 0.598192 | 10.6781 | 7.52E-06 | 0.000742 | 4.422968 | 0.48787 | 0.708514 | -0.22064 | 1 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1870394 | 0 | | | | | | | | | | |
| cg1119641 | 0.212443 | 0.656023 | 10.67657 | 7.53E-06 | 0.000742 | 4.421915 | 0.549802 | 0.762245 | -0.21244 | 9 | 17131746 | R | II | | IGR | shelf | IGR-shelf | chr9:1713 | rs966406 | 49 | | | | | | | | | | |
| cg1108453 | 0.217847 | 0.565775 | 10.67508 | 7.54E-06 | 0.000743 | 4.420898 | 0.456851 | 0.674698 | -0.21785 | 6 | 1.32E+08 | R | II | | IGR | shelf | IGR-shelf | chr6:1322 | | | | | | | | | | | | |
| cg2146428 | 0.209447 | 0.587887 | 10.67061 | 7.56E-06 | 0.000743 | 4.417838 | 0.483164 | 0.692611 | -0.20945 | 4 | 41256169 | R | II | | IGR | shelf | IGR-shelf | chr4:4125 | rs1870612 | 51;42;36;7 | | | | | | | | | | |
| cg1962262 | 0.242492 | 0.451058 | 10.67031 | 7.56E-06 | 0.000743 | 4.417634 | 0.329812 | 0.572303 | -0.24249 | 12 | 86230825 | R | II | RASSF9 | TSS1500 | opensea | TSS1500-op | | rs5705035 | 28;27 | | | | | | | | | | |
| cg2637790 | 0.201246 | 0.422722 | 10.67014 | 7.56E-06 | 0.000743 | 4.417514 | 0.322099 | 0.523345 | -0.20125 | 11 | 41876134 | R | II | | IGR | opensea | IGR-opense | | rs5549067 | 42 | | | | | | | | | | |
| cg1504861 | 0.261098 | 0.462332 | 10.66914 | 7.57E-06 | 0.000743 | 4.416829 | 0.331783 | 0.592881 | -0.2611 | 12 | 32487523 | F | II | BICD1 | Body | opensea | Body-opens | | rs1125298 | 0 | | | | | | | | | | |
| cg1625582 | 0.225455 | 0.587211 | 10.66859 | 7.57E-06 | 0.000743 | 4.416453 | 0.474483 | 0.699939 | -0.22546 | 2 | 1.79E+08 | R | II | PDE11A | Body | opensea | Body-opens | | rs5480387 | 26 | | | | | | | | | | |
| cg1573342 | 0.213235 | 0.625358 | 10.66764 | 7.57E-06 | 0.000743 | 4.415804 | 0.518741 | 0.731976 | -0.21323 | 7 | 18501832 | R | II | HDAC9 | Body | opensea | Body-opens | | rs5550225 | 28;24 | | | | | | | | | | |
| cg1779702 | 0.250961 | 0.45644 | 10.66743 | 7.57E-06 | 0.000743 | 4.41566 | 0.330959 | 0.581921 | -0.25096 | 1 | 68348868 | F | II | GNG12-AS1 | Body | opensea | Body-opens | | rs5698563 | 0;34;51 | | | | | | | | | | |
| cg1821131 | 0.228356 | 0.488658 | 10.66574 | 7.58E-06 | 0.000744 | 4.414506 | 0.37448 | 0.602836 | -0.22836 | 8 | 98437059 | F | II | LOC10192 | Body | opensea | Body-opens | | rs3685368 | 0;21;27;36;37 | | | | | | | | | | |
| cg1436371 | 0.220367 | 0.639507 | 10.66555 | 7.58E-06 | 0.000744 | 4.414374 | 0.529323 | 0.749691 | -0.22037 | 3 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1861785 | 49 | | | | | | | | | | |
| cg0229028 | 0.250933 | 0.583728 | 10.66416 | 7.59E-06 | 0.000744 | 4.413417 | 0.458261 | 0.709195 | -0.25093 | 7 | 26479853 | R | II | LOC44120 | Body | opensea | Body-opens | | rs5646655 | 8 | | | | | | | | | | |
| cg0370258 | 0.216027 | 0.57599 | 10.66415 | 7.59E-06 | 0.000744 | 4.413412 | 0.467976 | 0.684003 | -0.21603 | 12 | 1.08E+08 | R | II | BTBD11 | Body | opensea | Body-opens | | rs5402955 | 44;30;10 | | | | | | | | | | |
| cg1388815 | 0.211899 | 0.500819 | 10.66182 | 7.6E-06 | 0.000744 | 4.411818 | 0.39487 | 0.606769 | -0.2119 | 17 | 73310148 | F | II | | IGR | opensea | IGR-opense | | rs5716442 | 1;14 | | | | | | | | | | |
| cg1511091 | 0.242288 | 0.681399 | 10.66121 | 7.61E-06 | 0.000744 | 4.4114 | 0.560255 | 0.802543 | -0.24229 | 7 | 7959339 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg0051171 | 0.227562 | 0.439064 | 10.65698 | 7.63E-06 | 0.000745 | 4.408499 | 0.325283 | 0.552845 | -0.22756 | 7 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs5704445 | 29 | | | | | | | | | | |
| cg1715501 | 0.215509 | 0.389901 | 10.65604 | 7.63E-06 | 0.000745 | 4.407858 | 0.282146 | 0.497656 | -0.21551 | 7 | 1.31E+08 | R | II | LOC10050 | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg1107041 | 0.218621 | 0.575423 | 10.65505 | 7.64E-06 | 0.000745 | 4.407177 | 0.466113 | 0.684734 | -0.21862 | 1 | 2.07E+08 | F | II | C4BPA | TSS1500 | opensea | TSS1500-op | | | | | | | | | | | | | |
| cg1126746 | 0.271375 | 0.591867 | 10.65439 | 7.64E-06 | 0.000745 | 4.406723 | 0.45618 | 0.727555 | -0.27137 | 7 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1062322 | 0.206219 | 0.56929 | 10.65371 | 7.65E-06 | 0.000745 | 4.406257 | 0.466181 | 0.6724 | -0.20622 | 3 | 1.73E+08 | F | II | NLGN1 | 5'UTR | shelf | 5'UTR-shelf | chr3:1731 | | | | | | | | | | | | |
| cg1750734 | 0.2017 | 0.540256 | 10.65351 | 7.65E-06 | 0.000745 | 4.406118 | 0.439405 | 0.641106 | -0.2017 | 20 | 39357379 | F | II | | IGR | opensea | IGR-opense | | rs5730159 | 12 | | | | | | | | | | |
| cg1950076 | 0.210245 | 0.463178 | 10.6522 | 7.65E-06 | 0.000746 | 4.405224 | 0.358055 | 0.568301 | -0.21025 | 2 | 41370011 | F | II | | IGR | opensea | IGR-opense | | rs5591459 | 11;21;45;46 | | | | | | | | | | |
| cg0597777 | 0.209432 | 0.539558 | 10.64922 | 7.67E-06 | 0.000746 | 4.403174 | 0.434842 | 0.644274 | -0.20943 | 2 | 3741732 | F | II | ALLC | Body | opensea | Body-opens | | rs1816107 | 1;35;40 | | | | | | | | | | |
| cg1568382 | 0.284506 | 0.544068 | 10.64437 | 7.69E-06 | 0.000748 | 4.399851 | 0.401815 | 0.686321 | -0.28451 | 6 | 37111556 | R | II | | IGR | opensea | IGR-opense | | rs1137070 | 1 | | | | | | | | | | |
| cg0597327 | 0.200151 | 0.63853 | 10.63966 | 7.72E-06 | 0.000749 | 4.396615 | 0.538454 | 0.738605 | -0.20015 | 22 | 32860714 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg0671994 | 0.208455 | 0.615009 | 10.6387 | 7.72E-06 | 0.000749 | 4.395954 | 0.510782 | 0.719237 | -0.20846 | 15 | 39448875 | R | II | | IGR | opensea | IGR-opense | | rs5473811 | 44;36;27 | | | | | | | | | | |
| cg0636023 | 0.237445 | 0.445251 | 10.63827 | 7.73E-06 | 0.000749 | 4.395657 | 0.326528 | 0.563974 | -0.23745 | 21 | 33251408 | F | II | HUNK | Body | opensea | Body-opens | | rs5400186 | 0;1;47 | | | | | | | | | | |
| cg0183896 | 0.215312 | 0.487837 | 10.63536 | 7.74E-06 | 0.00075 | 4.393659 | 0.380181 | 0.595493 | -0.21531 | 6 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs7771076 | 2 | | | | | | | | | | |
| cg0457686 | 0.240637 | 0.594094 | 10.6331 | 7.75E-06 | 0.00075 | 4.392108 | 0.473775 | 0.714413 | -0.24064 | 2 | 1.45E+08 | R | II | GTDC1 | 5'UTR | opensea | 5'UTR-open | | rs5588044 | 18;4;2;1 | | | | | | | | | | |
| cg1084331 | 0.207365 | 0.557781 | 10.63286 | 7.75E-06 | 0.00075 | 4.391945 | 0.454099 | 0.661464 | -0.20736 | 4 | 1.52E+08 | R | II | FAM160A1 | 5'UTR | opensea | 5'UTR-open | | rs1830246 | 45 | | | | | | | | | | |
| cg0724243 | 0.210797 | 0.41105 | 10.63273 | 7.75E-06 | 0.00075 | 4.391854 | 0.305651 | 0.516448 | -0.2108 | 2 | 35687894 | R | II | | IGR | opensea | IGR-opense | | rs5577222 | 1 | | | | | | | | | | |
| cg0848016 | 0.287765 | 0.495074 | 10.63268 | 7.75E-06 | 0.00075 | 4.39182 | 0.351192 | 0.638957 | -0.28776 | 15 | 41036515 | F | II | RMDN3 | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg2099411 | 0.225402 | 0.46924 | 10.63244 | 7.76E-06 | 0.00075 | 4.391654 | 0.356539 | 0.581941 | -0.2254 | 1 | 2.1E+08 | R | II | CAMK1G | Body | opensea | Body-opens | | rs1824074 | 23;1 | | | | | | | | | | |
| cg2335242 | 0.217384 | 0.602486 | 10.63127 | 7.76E-06 | 0.00075 | 4.390848 | 0.493794 | 0.711178 | -0.21738 | 13 | 44566114 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg2390687 | 0.200207 | 0.525442 | 10.63032 | 7.77E-06 | 0.00075 | 4.390199 | 0.425338 | 0.625545 | -0.20021 | 6 | 24324774 | R | II | DCDC2 | Body | opensea | Body-opens | | rs5512372 | 21 | | | | | | | | | | |
| cg1427502 | 0.220164 | 0.557666 | 10.6302 | 7.77E-06 | 0.00075 | 4.390112 | 0.447584 | 0.667748 | -0.22016 | 3 | 467930 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg2189466 | 0.223629 | 0.384978 | 10.62939 | 7.77E-06 | 0.000751 | 4.389556 | 0.273164 | 0.496793 | -0.22363 | 2 | 1.65E+08 | R | II | GRB14 | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg1361461 | 0.222317 | 0.468742 | 10.62864 | 7.78E-06 | 0.000751 | 4.389042 | 0.357583 | 0.5799 | -0.22232 | 15 | 65656635 | R | II | IGDCC3 | Body | shelf | Body-shelf | chr15:656 | rs5379129 | 39;7 | | | | | | | | | | |
| cg0313489 | 0.204635 | 0.643138 | 10.62796 | 7.78E-06 | 0.000751 | 4.388576 | 0.54082 | 0.745455 | -0.20464 | 7 | 66343288 | R | II | | IGR | opensea | IGR-opense | | rs7529211 | 1 | | | | | | | | | | |
| cg1810658 | 0.20087 | 0.40166 | 10.62561 | 7.79E-06 | 0.000752 | 4.386955 | 0.301225 | 0.502095 | -0.20087 | 5 | 53816023 | F | II | SNX18 | 1stExon | shore | 1stExon-sh | chr5:5381 | | | | | | | | | | | | |
| cg2619676 | 0.212465 | 0.582449 | 10.62518 | 7.79E-06 | 0.000752 | 4.386662 | 0.476216 | 0.688681 | -0.21247 | 18 | 42451768 | R | II | SETBP1 | Body | opensea | Body-opens | | rs5405230 | 30;17 | | | | | | | | | | |
| cg2300407 | 0.219342 | 0.60065 | 10.62439 | 7.8E-06 | 0.000752 | 4.386119 | 0.490979 | 0.710321 | -0.21934 | 13 | 67551521 | F | II | PCDH9-AS3 | Body | opensea | Body-opens | | rs5719902 | 3;14 | | | | | | | | | | |
| cg0568218 | 0.251144 | 0.544498 | 10.62352 | 7.8E-06 | 0.000752 | 4.38552 | 0.418926 | 0.67007 | -0.25114 | 1 | 1.87E+08 | F | II | | IGR | opensea | IGR-opense | | rs5327333 | 32 | | | | | | | | | | |
| cg0023207 | 0.240658 | 0.52496 | 10.62309 | 7.8E-06 | 0.000752 | 4.385224 | 0.404631 | 0.645289 | -0.24066 | 4 | 26753673 | R | II | TBC1D19 | Body | opensea | Body-opens | | rs7669392 | 34 | | | | | | | | | | |
| cg0855836 | 0.230605 | 0.562293 | 10.62228 | 7.81E-06 | 0.000753 | 4.384668 | 0.446991 | 0.677596 | -0.2306 | 1 | 94544894 | R | II | ABCA4 | ExonBnd | opensea | ExonBnd-op | | | | | | | | | | | | | |
| cg1942528 | 0.22111 | 0.460761 | 10.6202 | 7.82E-06 | 0.000753 | 4.383237 | 0.350206 | 0.571316 | -0.22111 | 5 | 34917257 | F | II | RAD1 | TSS1500 | shore | TSS1500-sh | chr5:3491 | rs4127066 | 0;36 | | | | | | | | | | |
| cg2643367 | 0.206798 | 0.664249 | 10.61931 | 7.82E-06 | 0.000753 | 4.382625 | 0.56085 | 0.767648 | -0.2068 | 4 | 15230035 | F | II | LOC10192 | Body | opensea | Body-opens | | rs1148342 | 1;18;29;32;43 | | | | | | | | | | |
| cg0509667 | 0.244741 | 0.514666 | 10.61772 | 7.83E-06 | 0.000753 | 4.381527 | 0.392295 | 0.637036 | -0.24474 | 3 | 1.96E+08 | F | II | SLC51A | Body | opensea | Body-opens | | rs1383308 | 1;5;33 | | | | | | | | | | |
| cg1165804 | 0.222587 | 0.52395 | 10.61742 | 7.83E-06 | 0.000753 | 4.381321 | 0.412657 | 0.635244 | -0.22259 | 8 | 18667350 | R | II | PSD3 | TSS1500 | opensea | TSS1500-op | | rs5315207 | 50;45 | | | | | | | | | | |
| cg0332687 | 0.217216 | 0.612434 | 10.61659 | 7.84E-06 | 0.000753 | 4.380749 | 0.503826 | 0.721042 | -0.21722 | 10 | 48332552 | R | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1275514 | 0.215129 | 0.587394 | 10.61658 | 7.84E-06 | 0.000753 | 4.380742 | 0.47983 | 0.694958 | -0.21513 | 8 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs1931326 | 11 | | | | | | | | | | |
| cg1337959 | 0.214857 | 0.513079 | 10.61629 | 7.84E-06 | 0.000753 | 4.380543 | 0.40565 | 0.620507 | -0.21486 | 6 | 5981984 | R | II | | IGR | opensea | IGR-opense | | rs5874004 | 41;29;15;2 | | | | | | | | | | |
| cg2258652 | 0.210226 | 0.621467 | 10.6157 | 7.84E-06 | 0.000753 | 4.380139 | 0.516354 | 0.726579 | -0.21023 | 11 | 16499411 | F | II | SOX6 | TSS1500 | opensea | TSS1500-op | | rs5435093 | 12;42 | | | | | | | | | | |
| cg0017109 | 0.216993 | 0.490955 | 10.61556 | 7.84E-06 | 0.000753 | 4.380041 | 0.382459 | 0.599452 | -0.21699 | 3 | 1.25E+08 | F | II | ITGB5 | Body | opensea | Body-opens | | rs1150094 | 0;47 | | | | | | | | | | |
| cg1863003 | 0.261278 | 0.651132 | 10.61555 | 7.84E-06 | 0.000753 | 4.380036 | 0.520493 | 0.781771 | -0.26128 | 17 | 60900969 | R | II | MIR548W | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg0728715 | 0.215185 | 0.573679 | 10.61544 | 7.85E-06 | 0.000753 | 4.379958 | 0.466087 | 0.681272 | -0.21519 | 21 | 39579277 | F | II | DSCR10 | Body | opensea | Body-opens | | rs5544613 | 0;1;46 | | | | | | | | | | |
| cg0871383 | 0.212051 | 0.671606 | 10.61426 | 7.85E-06 | 0.000754 | 4.37915 | 0.565581 | 0.777631 | -0.21205 | 18 | 56009524 | R | II | NEDD4L | Body | opensea | Body-opens | | rs5727202 | 10;2;1 | | | | | | | | | | |
| cg0258409 | 0.242594 | 0.534232 | 10.61366 | 7.85E-06 | 0.000754 | 4.378734 | 0.412935 | 0.655529 | -0.24259 | 17 | 6461275 | F | II | PITPNM3 | TSS1500 | shore | TSS1500-sh | chr17:646 | rs1411379 | 5;8;37;44 | | | | | | | | | | |
| cg0928100 | 0.243175 | 0.594752 | 10.6135 | 7.86E-06 | 0.000754 | 4.378626 | 0.473165 | 0.71634 | -0.24317 | 10 | 34919180 | F | II | PARD3 | Body | opensea | Body-opens | | rs1928373 | 13 | | | | | | | | | | |
| cg0360647 | 0.206533 | 0.507068 | 10.61277 | 7.86E-06 | 0.000754 | 4.378121 | 0.403801 | 0.610334 | -0.20653 | 3 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1398041 | 0.210731 | 0.622793 | 10.61172 | 7.87E-06 | 0.000754 | 4.3774 | 0.517428 | 0.728159 | -0.21073 | 5 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | rs1400692 | 22 | | | | | | | | | | |
| cg1660849 | 0.200398 | 0.542944 | 10.61102 | 7.87E-06 | 0.000754 | 4.376918 | 0.442745 | 0.643143 | -0.2004 | 5 | 1.59E+08 | R | II | RNF145 | Body | opensea | Body-opens | | rs1841215 | 51;39;25;2;1 | | | | | | | | | | |
| cg0823841 | 0.217696 | 0.434351 | 10.60925 | 7.88E-06 | 0.000754 | 4.375698 | 0.325503 | 0.543199 | -0.2177 | 7 | 55416476 | R | II | | IGR | shelf | IGR-shelf | chr7:5541 | rs5595578 | 20 | | | | | | | | | | |
| cg1682220 | 0.210982 | 0.633584 | 10.60852 | 7.88E-06 | 0.000754 | 4.375197 | 0.528093 | 0.739075 | -0.21098 | 6 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1344517 | 0.234238 | 0.560733 | 10.60796 | 7.89E-06 | 0.000754 | 4.374806 | 0.443614 | 0.677852 | -0.23424 | 1 | 1.52E+08 | R | II | S100A10 | TSS1500 | shore | TSS1500-sh | chr1:1519 | rs1439642 | 11 | | | | | | | | | | |
| cg1878103 | 0.225864 | 0.470395 | 10.60748 | 7.89E-06 | 0.000754 | 4.37448 | 0.357463 | 0.583327 | -0.22586 | 5 | 1.28E+08 | F | II | FBN2 | Body | opensea | Body-opens | | rs7334137 | 14;33 | | | | | | | | | | |
| cg2588314 | 0.242719 | 0.500687 | 10.60696 | 7.89E-06 | 0.000754 | 4.374119 | 0.379327 | 0.622046 | -0.24272 | 2 | 2.33E+08 | F | II | MIR1471 | TSS200 | opensea | TSS200-ope | | rs7370455 | 0 | | | | | | | | | | |
| cg1371356 | 0.206149 | 0.463152 | 10.60559 | 7.9E-06 | 0.000754 | 4.373173 | 0.360077 | 0.566227 | -0.20615 | 10 | 78314461 | F | II | C10orf11 | Body | opensea | Body-opens | | rs1453935 | 43 | | | | | | | | | | |
| cg2155738 | 0.214856 | 0.580517 | 10.60425 | 7.9E-06 | 0.000755 | 4.372255 | 0.473089 | 0.687945 | -0.21486 | 12 | 31715602 | F | II | DENND5B | Body | opensea | Body-opens | | rs5471249 | 2 | | | | | | | | | | |
| cg0473612 | 0.215104 | 0.622744 | 10.60384 | 7.91E-06 | 0.000755 | 4.37197 | 0.515192 | 0.730296 | -0.2151 | 4 | 1E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg1416871 | 0.248212 | 0.550336 | 10.60352 | 7.91E-06 | 0.000755 | 4.37175 | 0.42623 | 0.674442 | -0.24821 | 10 | 60579479 | R | II | BICC1 | Body | opensea | Body-opens | | rs7902375 | 24 | | | | | | | | | | |
| cg2552254 | 0.210851 | 0.490802 | 10.60239 | 7.91E-06 | 0.000755 | 4.370967 | 0.385376 | 0.596227 | -0.21085 | 5 | 17691839 | R | II | | IGR | opensea | IGR-opense | | rs5339786 | 1 | | | | | | | | | | |
| cg2326521 | 0.250383 | 0.556347 | 10.60235 | 7.92E-06 | 0.000755 | 4.370944 | 0.431156 | 0.681538 | -0.25038 | 11 | 94536536 | R | II | AMOTL1 | Body | opensea | Body-opens | | rs1499675 | 46 | | | | | | | | | | |
| cg0515603 | 0.214489 | 0.639446 | 10.59717 | 7.94E-06 | 0.000756 | 4.367371 | 0.532202 | 0.74669 | -0.21449 | 5 | 82673625 | R | II | | IGR | opensea | IGR-opense | | rs1690037 | 30 | | | | | | | | | | |
| cg1905532 | 0.236049 | 0.453961 | 10.59611 | 7.95E-06 | 0.000756 | 4.366642 | 0.335937 | 0.571986 | -0.23605 | 17 | 39341434 | F | II | KRTAP4-1 | TSS1500 | opensea | TSS1500-op | | rs1244931 | 39 | | | | | | | | | | |
| cg0639825 | 0.216506 | 0.52498 | 10.59567 | 7.95E-06 | 0.000756 | 4.366334 | 0.416727 | 0.633233 | -0.21651 | 3 | 1.84E+08 | F | II | EIF4G1 | Body | shore | Body-shore | chr3:1840 | rs1854435 | 37;44;45 | | | | | | | | | | |
| cg0008862 | 0.229547 | 0.514982 | 10.59501 | 7.95E-06 | 0.000756 | 4.365881 | 0.400208 | 0.629756 | -0.22955 | 16 | 73224998 | R | II | | IGR | opensea | IGR-opense | | rs5729082 | 2;1 | | | | | | | | | | |
| cg1570034 | 0.202295 | 0.634641 | 10.59396 | 7.96E-06 | 0.000756 | 4.365156 | 0.533493 | 0.735788 | -0.20229 | 5 | 24841861 | R | II | LOC34010 | TSS1500 | opensea | TSS1500-op | | rs5336971 | 1 | | | | | | | | | | |
| cg0697454 | 0.211241 | 0.383002 | 10.5935 | 7.96E-06 | 0.000756 | 4.364838 | 0.277381 | 0.488622 | -0.21124 | 14 | 34800530 | R | II | | IGR | opensea | IGR-opense | | rs7749188 | 51;41;27;6 | | | | | | | | | | |
| cg0283017 | 0.255289 | 0.506311 | 10.59341 | 7.96E-06 | 0.000756 | 4.364779 | 0.378666 | 0.633956 | -0.25529 | 2 | 25576057 | R | II | | IGR | opensea | IGR-opense | | rs5537198 | 5 | | | | | | | | | | |
| cg0148503 | 0.228331 | 0.544631 | 10.59326 | 7.96E-06 | 0.000756 | 4.364673 | 0.430465 | 0.658796 | -0.22833 | 7 | 3192834 | F | II | LOC10012 | Body | opensea | Body-opens | | rs5777472 | 1;30 | | | | | | | | | | |
| cg1766168 | 0.200641 | 0.582609 | 10.59234 | 7.97E-06 | 0.000756 | 4.364041 | 0.482289 | 0.682929 | -0.20064 | 8 | 73986912 | F | II | C8orf84 | Body | opensea | Body-opens | | rs1389332 | 0;14;32 | | | | | | | | | | |
| cg1179774 | 0.215124 | 0.712586 | 10.59214 | 7.97E-06 | 0.000756 | 4.363902 | 0.605024 | 0.820148 | -0.21512 | 10 | 73755332 | R | II | CHST3 | 5'UTR | opensea | 5'UTR-open | | rs1821934 | 2 | | | | | | | | | | |
| cg0837140 | 0.22952 | 0.462484 | 10.59026 | 7.98E-06 | 0.000757 | 4.362602 | 0.347724 | 0.577243 | -0.22952 | 9 | 6598558 | F | II | GLDC | Body | opensea | Body-opens | | rs5289862 | 11;29;33;50 | | | | | | | | | | |
| cg1069440 | 0.228119 | 0.525683 | 10.58716 | 8E-06 | 0.000758 | 4.36046 | 0.411624 | 0.639743 | -0.22812 | 7 | 1.44E+08 | F | II | OR2F1 | TSS1500 | opensea | TSS1500-op | | rs1811382 | 1;23;51 | | | | | | | | | | |
| cg1310641 | 0.205212 | 0.524957 | 10.58401 | 8.01E-06 | 0.000758 | 4.35829 | 0.422351 | 0.627563 | -0.20521 | 6 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs5505408 | 7;2 | | | | | | | | | | |
| cg1513811 | 0.246293 | 0.437051 | 10.58401 | 8.01E-06 | 0.000758 | 4.358286 | 0.313904 | 0.560197 | -0.24629 | 6 | 1.5E+08 | F | II | PPP1R14C | Body | opensea | Body-opens | | | | | | | | | | | | | |
| cg0381857 | 0.225019 | 0.454495 | 10.58327 | 8.02E-06 | 0.000759 | 4.357774 | 0.341985 | 0.567004 | -0.22502 | 11 | 40312660 | F | II | LRRC4C | 5'UTR | opensea | 5'UTR-open | | rs5770543 | 0;18;31;51 | | | | | | | | | | |
| cg0852620 | 0.210288 | 0.492959 | 10.58293 | 8.02E-06 | 0.000759 | 4.357545 | 0.387814 | 0.598103 | -0.21029 | 3 | 1.39E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:1393 | rs1470572 | 43;1 | | | | | | | | | | |
| cg2616400 | 0.235707 | 0.596639 | 10.5826 | 8.02E-06 | 0.000759 | 4.357315 | 0.478786 | 0.714493 | -0.23571 | 6 | 1.23E+08 | R | II | HSF2 | Body | opensea | Body-opens | | rs1451035 | 1 | | | | | | | | | | |
| cg1832181 | 0.201948 | 0.462099 | 10.58136 | 8.03E-06 | 0.000759 | 4.356457 | 0.361125 | 0.563073 | -0.20195 | 14 | 59436794 | R | II | LINC01500 | Body | opensea | Body-opens | | rs1926250 | 41;32;31;22 | | | | | | | | | | |
| cg0308600 | 0.244787 | 0.584958 | 10.58039 | 8.03E-06 | 0.000759 | 4.355791 | 0.462565 | 0.707352 | -0.24479 | 11 | 1.2E+08 | R | II | | IGR | shelf | IGR-shelf | chr11:120 | rs1228514 | 42;16;2;1 | | | | | | | | | | |
| cg0295432 | 0.204303 | 0.640991 | 10.57999 | 8.04E-06 | 0.00076 | 4.355514 | 0.538839 | 0.743142 | -0.2043 | 3 | 67045043 | R | II | | IGR | shelf | IGR-shelf | chr3:6704 | rs5746379 | 12;2;1 | | | | | | | | | | |
| cg1658805 | 0.216631 | 0.48349 | 10.57952 | 8.04E-06 | 0.00076 | 4.355184 | 0.375175 | 0.591806 | -0.21663 | 5 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | | | | | | |
| cg0004098 | 0.214976 | 0.654076 | 10.57881 | 8.04E-06 | 0.00076 | 4.354699 | 0.546587 | 0.761564 | -0.21498 | 1 | 1.57E+08 | F | II | ARHGEF11 | Body | opensea | Body-opens | | rs5499228 | 0;42;49 | | | | | | | | | | |
| cg0257374 | 0.213939 | 0.650538 | 10.57692 | 8.05E-06 | 0.00076 | 4.353391 | 0.543568 | 0.757507 | -0.21394 | 15 | 56120298 | R | II | NEDD4 | 3'UTR | opensea | 3'UTR-open | | | | | | | | | | | | | |
| cg1745231 | 0.201803 | 0.669946 | 10.57543 | 8.06E-06 | 0.000761 | 4.35236 | 0.569045 | 0.770847 | -0.2018 | 13 | 36884806 | F | II | SPG20 | Body | opensea | Body-opens | | rs5321284 | 31;43 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2710294 | 0.221288 | 0.556084 | 10.56735 | 8.11E-06 | 0.000762 | 4.346771 | 0.44544 | 0.666727 | -0.22129 | 15 | 99679368 | F | II | TTC23 | Body | opensea | Body-opens | | rs1466673 | 26;31;35 |
| cg0215324 | 0.202005 | 0.553693 | 10.56712 | 8.11E-06 | 0.000762 | 4.346616 | 0.452691 | 0.654696 | -0.20201 | 8 | 1.42E+08 | F | II | PTK2 | Body | opensea | Body-opens | | | |
| cg1175829 | 0.20759 | 0.516368 | 10.56701 | 8.11E-06 | 0.000762 | 4.34654 | 0.412573 | 0.620163 | -0.20759 | 2 | 2.32E+08 | F | II | | IGR | shelf | IGR-shelf | chr2:2319( | rs7740275 | 46 |
| cg1593015 | 0.202552 | 0.428169 | 10.56528 | 8.12E-06 | 0.000763 | 4.345341 | 0.326893 | 0.529445 | -0.20255 | 10 | 30185196 | F | II | | IGR | opensea | IGR-opense | | rs5406191 | 28 |
| cg2497619 | 0.240372 | 0.459934 | 10.56195 | 8.14E-06 | 0.000763 | 4.343036 | 0.339748 | 0.580119 | -0.24037 | 4 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs5511034 | 2;1 |
| cg0738703 | 0.211442 | 0.700064 | 10.55921 | 8.15E-06 | 0.000764 | 4.34114 | 0.594343 | 0.805785 | -0.21144 | 12 | 66233746 | F | II | HMGA2 | Body | opensea | Body-opens | | rs1826071 | 1;29 |
| cg1305106 | 0.201993 | 0.518039 | 10.55814 | 8.16E-06 | 0.000764 | 4.3404 | 0.417043 | 0.619036 | -0.20199 | 8 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs5369976 | 0;1;29 |
| cg2017140 | 0.224891 | 0.491109 | 10.55811 | 8.16E-06 | 0.000764 | 4.340379 | 0.378664 | 0.603554 | -0.22489 | 12 | 1.21E+08 | F | II | RPLP0 | ExonBnd | shore | ExonBnd-sh | chr12:1200 | rs1493381 | 14;31;35 |
| cg1504515 | 0.210998 | 0.552278 | 10.55743 | 8.16E-06 | 0.000764 | 4.33991 | 0.446779 | 0.657777 | -0.211 | 3 | 1.9E+08 | R | II | LEPREL1 | Body | opensea | Body-opens | | rs5671274 | 22;7;2 |
| cg1478688 | 0.20761 | 0.661339 | 10.55711 | 8.16E-06 | 0.000764 | 4.339687 | 0.557534 | 0.765144 | -0.20761 | 10 | 1.02E+08 | R | II | ERLIN1 | Body | opensea | Body-opens | | rs1180503 | 5;1 |
| cg2280322 | 0.213856 | 0.570711 | 10.55675 | 8.16E-06 | 0.000764 | 4.339437 | 0.463783 | 0.677639 | -0.21386 | 12 | 64587031 | R | II | C12orf66 | 3'UTR | opensea | 3'UTR-open | | rs5731463 | 22;7;1 |
| cg1405869 | 0.217212 | 0.57825 | 10.55652 | 8.17E-06 | 0.000764 | 4.339278 | 0.469644 | 0.686856 | -0.21721 | 13 | 63200547 | R | II | | IGR | opensea | IGR-opense | | rs5633557 | 22 |
| cg1712732 | 0.210201 | 0.590871 | 10.55597 | 8.17E-06 | 0.000764 | 4.338896 | 0.485771 | 0.695972 | -0.2102 | 4 | 88812922 | F | II | | IGR | opensea | IGR-opense | | rs7249025 | 35;50 |
| cg2466792 | 0.231845 | 0.498573 | 10.55557 | 8.17E-06 | 0.000764 | 4.338623 | 0.382651 | 0.614496 | -0.23185 | 21 | 27764738 | F | II | | IGR | opensea | IGR-opense | | rs5615840 | 1;26;28 |
| cg1484248 | 0.218609 | 0.584619 | 10.55522 | 8.17E-06 | 0.000764 | 4.338379 | 0.475314 | 0.693923 | -0.21861 | 11 | 1.19E+08 | R | II | CBL | Body | opensea | Body-opens | | | |
| cg1227175 | 0.20727 | 0.622715 | 10.5549 | 8.17E-06 | 0.000764 | 4.338153 | 0.51908 | 0.72635 | -0.20727 | 2 | 40468548 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs1479865 | 28 |
| cg2276313 | 0.218888 | 0.640545 | 10.55383 | 8.18E-06 | 0.000764 | 4.337412 | 0.531101 | 0.749989 | -0.21889 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs1490649 | 26;2 |
| cg2738896 | 0.223104 | 0.55484 | 10.55191 | 8.19E-06 | 0.000765 | 4.336085 | 0.443288 | 0.666392 | -0.2231 | 10 | 4705434 | F | II | LOC10021( | Body | opensea | Body-opens | | | |
| cg0065844 | 0.24624 | 0.563775 | 10.55104 | 8.2E-06 | 0.000765 | 4.335482 | 0.440655 | 0.686895 | -0.24624 | 19 | 39511868 | R | II | | IGR | opensea | IGR-opense | | rs5320097 | 44 |
| cg1057708 | 0.243901 | 0.619026 | 10.55062 | 8.2E-06 | 0.000765 | 4.33519 | 0.497075 | 0.740977 | -0.2439 | 6 | 1.26E+08 | R | II | TPD52L1 | Body | opensea | Body-opens | | | |
| cg1822716 | 0.21344 | 0.628308 | 10.5499 | 8.2E-06 | 0.000765 | 4.334694 | 0.521588 | 0.735028 | -0.21344 | 1 | 2.39E+08 | F | II | | IGR | opensea | IGR-opense | | rs5511405 | 5;8 |
| cg2009550 | 0.221786 | 0.569184 | 10.5477 | 8.21E-06 | 0.000766 | 4.333169 | 0.458291 | 0.680077 | -0.22179 | 10 | 3027087 | F | II | | IGR | opensea | IGR-opense | | rs1435156 | 6;41;49 |
| cg2625158 | 0.219985 | 0.377948 | 10.54732 | 8.22E-06 | 0.000766 | 4.332901 | 0.267956 | 0.487941 | -0.21998 | 7 | 11456440 | R | II | THSD7A | Body | opensea | Body-opens | | rs3710485 | 47;40;18;8 |
| cg0953010 | 0.2353 | 0.626768 | 10.54707 | 8.22E-06 | 0.000766 | 4.332728 | 0.509118 | 0.744418 | -0.2353 | 2 | 36586710 | F | II | CRIM1 | Body | shore | Body-shore | chr2:3658( | | |
| cg0983779 | 0.205827 | 0.552091 | 10.54431 | 8.23E-06 | 0.000767 | 4.330815 | 0.449177 | 0.655005 | -0.20583 | 3 | 82023856 | F | II | | IGR | opensea | IGR-opense | | rs5575524 | 0;1;35 |
| cg1406224 | 0.219461 | 0.539141 | 10.5439 | 8.24E-06 | 0.000767 | 4.330531 | 0.42941 | 0.648871 | -0.21946 | 3 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | | rs5714090 | 3 |
| cg2701111 | 0.245771 | 0.540005 | 10.54311 | 8.24E-06 | 0.000767 | 4.329985 | 0.417119 | 0.66289 | -0.24577 | 8 | 30179144 | F | II | | IGR | opensea | IGR-opense | | rs5706757 | 4;22;25;35;47 |
| cg0896230 | 0.227358 | 0.613714 | 10.54209 | 8.25E-06 | 0.000767 | 4.32928 | 0.500035 | 0.727393 | -0.22736 | 3 | 46622647 | R | II | LRRC2 | TSS1500 | shelf | TSS1500-sh | chr3:4661( | rs5347370 | 48;47;29;23;20;1 |
| cg0612614 | 0.206133 | 0.634056 | 10.5409 | 8.25E-06 | 0.000767 | 4.32845 | 0.530989 | 0.737122 | -0.20613 | 14 | 51834564 | F | II | | IGR | opensea | IGR-opense | | rs5336747 | 0;8;25 |
| cg0157003 | 0.200496 | 0.543929 | 10.54011 | 8.26E-06 | 0.000768 | 4.327902 | 0.443681 | 0.644177 | -0.2005 | 8 | 40226431 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2642637 | 0.206101 | 0.494532 | 10.53802 | 8.27E-06 | 0.000768 | 4.326456 | 0.391481 | 0.597582 | -0.2061 | 2 | 2.17E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2625413 | 0.212827 | 0.559948 | 10.53647 | 8.28E-06 | 0.000768 | 4.32538 | 0.453534 | 0.666361 | -0.21283 | 2 | 69912852 | F | II | | IGR | opensea | IGR-opense | | rs5510334 | 0;25;43 |
| cg1196532 | 0.205646 | 0.425474 | 10.53375 | 8.29E-06 | 0.000769 | 4.323492 | 0.32265 | 0.528297 | -0.20565 | 6 | 32997101 | R | II | | IGR | opensea | IGR-opense | | rs1492649 | 1 |
| cg1613077 | 0.206632 | 0.613987 | 10.53326 | 8.3E-06 | 0.000769 | 4.323152 | 0.510671 | 0.717303 | -0.20663 | 12 | 94652584 | F | II | PLXNC1 | Body | opensea | Body-opens | | rs7690655 | 1 |
| cg0406541 | 0.227785 | 0.552346 | 10.53314 | 8.3E-06 | 0.000769 | 4.323071 | 0.438454 | 0.666238 | -0.22778 | 3 | 62799139 | R | II | CADPS | Body | opensea | Body-opens | | rs5713159 | 45;31;19;7;2 |
| cg2532078 | 0.21411 | 0.58024 | 10.53232 | 8.3E-06 | 0.00077 | 4.322501 | 0.473185 | 0.687295 | -0.21411 | 1 | 1.7E+08 | R | II | LINC01142 | Body | opensea | Body-opens | | | |
| cg1989796 | 0.208723 | 0.542024 | 10.5323 | 8.3E-06 | 0.00077 | 4.322487 | 0.437663 | 0.646386 | -0.20872 | 20 | 56416164 | F | II | | IGR | opensea | IGR-opense | | rs7329123 | 1;15 |
| cg0833475 | 0.206416 | 0.445828 | 10.53184 | 8.3E-06 | 0.00077 | 4.322164 | 0.34262 | 0.549035 | -0.20642 | 13 | 1.03E+08 | R | II | FGF14 | Body | opensea | Body-opens | | rs1452450 | 14;2 |
| cg1664743 | 0.209632 | 0.454996 | 10.53125 | 8.31E-06 | 0.00077 | 4.321758 | 0.35018 | 0.559812 | -0.20963 | 21 | 37025385 | R | II | | IGR | opensea | IGR-opense | | rs5744716 | 43;1 |
| cg0713661 | 0.219618 | 0.540969 | 10.53031 | 8.31E-06 | 0.00077 | 4.321107 | 0.43116 | 0.650778 | -0.21962 | 2 | 1.61E+08 | R | II | | IGR | opensea | IGR-opense | | rs1472762 | 2 |
| cg1829692 | 0.21754 | 0.582117 | 10.52677 | 8.33E-06 | 0.000771 | 4.318644 | 0.473347 | 0.690887 | -0.21754 | 1 | 1.01E+08 | F | II | CDC14A | Body | opensea | Body-opens | | rs1460256 | 10;17 |
| cg1742535 | 0.202974 | 0.526452 | 10.52474 | 8.34E-06 | 0.000771 | 4.317237 | 0.424965 | 0.627939 | -0.20297 | 11 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0458915 | 0.251647 | 0.562328 | 10.52297 | 8.35E-06 | 0.000772 | 4.316008 | 0.436504 | 0.688151 | -0.25165 | 6 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | | rs5291172 | 12;48 |
| cg2480777 | 0.219414 | 0.551931 | 10.52222 | 8.36E-06 | 0.000772 | 4.315485 | 0.442225 | 0.661638 | -0.21941 | 14 | 1.01E+08 | R | II | SNORD113 | TSS1500 | opensea | TSS1500-op | | rs3404079 | 22;11 |
| cg2141059 | 0.236844 | 0.575544 | 10.52178 | 8.36E-06 | 0.000772 | 4.315176 | 0.457122 | 0.693967 | -0.23684 | 17 | 42625246 | R | II | | IGR | opensea | IGR-opense | | rs5636295 | 1 |
| cg1981829 | 0.242208 | 0.567839 | 10.52111 | 8.36E-06 | 0.000772 | 4.314715 | 0.446735 | 0.688943 | -0.24221 | 9 | 1.03E+08 | R | II | INVS | Body | opensea | Body-opens | | rs1840393 | 28;3 |
| cg2396735 | 0.233762 | 0.565624 | 10.52012 | 8.37E-06 | 0.000772 | 4.314023 | 0.448743 | 0.682505 | -0.23376 | 5 | 1.06E+08 | R | II | LOC10246: | Body | opensea | Body-opens | | rs1924286 | 36;14 |
| cg2431571 | 0.226048 | 0.55795 | 10.5199 | 8.37E-06 | 0.000772 | 4.31387 | 0.444926 | 0.670974 | -0.22605 | 3 | 1.3E+08 | R | II | COL29A1 | 3'UTR | opensea | 3'UTR-open | | | |
| cg2095731 | 0.259606 | 0.488598 | 10.51961 | 8.37E-06 | 0.000772 | 4.31367 | 0.358795 | 0.618401 | -0.25961 | 2 | 38976409 | F | II | SFRS7 | Body | shore | Body-shore | chr2:3897( | | |
| cg0577856 | 0.216866 | 0.45335 | 10.51769 | 8.38E-06 | 0.000772 | 4.312334 | 0.344917 | 0.561782 | -0.21687 | 3 | 1.73E+08 | F | II | NLGN1 | Body | opensea | Body-opens | | rs1463579 | 1;50 |
| cg1610290 | 0.216237 | 0.631983 | 10.51692 | 8.39E-06 | 0.000773 | 4.311803 | 0.523865 | 0.740102 | -0.21624 | 15 | 85212333 | R | II | | IGR | opensea | IGR-opense | | rs1397521 | 2;1 |
| cg2308927 | 0.205007 | 0.500945 | 10.51689 | 8.39E-06 | 0.000773 | 4.311781 | 0.398442 | 0.603448 | -0.20501 | 15 | 39985431 | R | II | FSIP1 | Body | opensea | Body-opens | | rs5759349 | 8;1 |
| cg1889061 | 0.205063 | 0.605589 | 10.51512 | 8.4E-06 | 0.000773 | 4.310546 | 0.503058 | 0.70812 | -0.20506 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | rs5466387 | 1 |
| cg1036590 | 0.223862 | 0.547125 | 10.51267 | 8.41E-06 | 0.000774 | 4.308843 | 0.435193 | 0.659056 | -0.22386 | 11 | 78568009 | R | II | ODZ4 | Body | opensea | Body-opens | | rs5317268 | 46;2 |
| cg0609670 | 0.212419 | 0.488784 | 10.51081 | 8.42E-06 | 0.000774 | 4.307555 | 0.382575 | 0.594994 | -0.21242 | 8 | 1.38E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1803359 | 0.213193 | 0.469564 | 10.51056 | 8.42E-06 | 0.000774 | 4.307377 | 0.362967 | 0.576161 | -0.21319 | 11 | 75537636 | F | II | UVRAG | Body | opensea | Body-opens | | rs5485900 | 10 |
| cg0692894 | 0.218686 | 0.591068 | 10.51005 | 8.43E-06 | 0.000774 | 4.307022 | 0.481725 | 0.70041 | -0.21869 | 6 | 90023128 | R | II | GABRR2 | Body | opensea | Body-opens | | rs1812250 | 44;32;22 |
| cg0340324 | 0.241265 | 0.609307 | 10.50822 | 8.44E-06 | 0.000775 | 4.305749 | 0.488674 | 0.729939 | -0.24126 | 3 | 1.95E+08 | R | II | | IGR | opensea | IGR-opense | | rs1485277 | 37;25;12 |
| cg0900416 | 0.201851 | 0.432817 | 10.50735 | 8.44E-06 | 0.000775 | 4.305143 | 0.331891 | 0.533743 | -0.20185 | 1 | 17053983 | F | II | | IGR | shelf | IGR-shelf | chr1:1705: | rs7556167 | 0 |
| cg0177794 | 0.209875 | 0.466049 | 10.50729 | 8.44E-06 | 0.000775 | 4.305102 | 0.361111 | 0.570986 | -0.20987 | 22 | 35248469 | R | II | | IGR | opensea | IGR-opense | | rs1869058 | 18;4 |
| cg1883338 | 0.258135 | 0.541525 | 10.50591 | 8.45E-06 | 0.000775 | 4.304142 | 0.412457 | 0.670592 | -0.25813 | 1 | 10343921 | F | II | KIF1B | Body | opensea | Body-opens | | rs5416456 | 49 |
| cg0533580 | 0.223749 | 0.613218 | 10.4997 | 8.49E-06 | 0.000777 | 4.299818 | 0.501344 | 0.725093 | -0.22375 | 1 | 55088543 | F | II | FAM151A | Body | opensea | Body-opens | | rs1618859 | 27;43 |
| cg1577649 | 0.222581 | 0.444926 | 10.49914 | 8.49E-06 | 0.000777 | 4.299431 | 0.333636 | 0.556217 | -0.22258 | 16 | 89428646 | F | II | ANKRD11 | Body | opensea | Body-opens | | rs5306578 | 9;49 |
| cg2460485 | 0.209264 | 0.603959 | 10.4978 | 8.5E-06 | 0.000777 | 4.298496 | 0.499327 | 0.708591 | -0.20926 | 7 | 35762816 | F | II | | IGR | opensea | IGR-opense | | rs5738899 | 14;42 |
| cg0999443 | 0.200081 | 0.615149 | 10.49562 | 8.51E-06 | 0.000778 | 4.296977 | 0.515109 | 0.71519 | -0.20008 | 20 | 62404778 | F | II | ZBTB46 | Body | shore | Body-shore | chr20:624( | | |
| cg0183050 | 0.212867 | 0.504625 | 10.49122 | 8.54E-06 | 0.000779 | 4.293909 | 0.398191 | 0.611058 | -0.21287 | 5 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0273598 | 0.213863 | 0.488405 | 10.49093 | 8.54E-06 | 0.000779 | 4.293707 | 0.381474 | 0.595337 | -0.21386 | 20 | 11125380 | R | II | | IGR | opensea | IGR-opense | | rs5452027 | 45;33;20;2 |
| cg0762620 | 0.21659 | 0.481203 | 10.48885 | 8.55E-06 | 0.000779 | 4.292258 | 0.372908 | 0.589498 | -0.21659 | 7 | 55200657 | F | II | EGFR | Body | opensea | Body-opens | | rs7787752 | 0;44 |
| cg1388154 | 0.223147 | 0.575344 | 10.48865 | 8.55E-06 | 0.000779 | 4.292118 | 0.46377 | 0.686917 | -0.22315 | 17 | 40545151 | F | II | | IGR | opensea | IGR-opense | | rs5377535 | 15;16;17 |
| cg2443075 | 0.204167 | 0.594474 | 10.48801 | 8.56E-06 | 0.000779 | 4.291676 | 0.492391 | 0.696558 | -0.20417 | 2 | 2.32E+08 | F | II | NMUR1 | TSS1500 | shore | TSS1500-sh | chr2:2323: | rs5545105 | 1;7 |
| cg1585803 | 0.208252 | 0.507352 | 10.48775 | 8.56E-06 | 0.000779 | 4.291493 | 0.403226 | 0.611478 | -0.20825 | 12 | 54978014 | F | II | PPP1R1A | Body | shelf | Body-shelf | chr12:5498 | rs1996585 | 1 |
| cg2489933 | 0.278219 | 0.453643 | 10.48729 | 8.56E-06 | 0.000779 | 4.291174 | 0.314533 | 0.592752 | -0.27822 | 3 | 1.68E+08 | F | II | GOLIM4 | Body | opensea | Body-opens | | rs5725839 | 31 |
| cg0738930 | 0.259748 | 0.497733 | 10.48648 | 8.56E-06 | 0.00078 | 4.290608 | 0.367859 | 0.627607 | -0.25975 | 2 | 2.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs3702063 | 8;36;41 |
| cg0711592 | 0.21624 | 0.63943 | 10.48529 | 8.57E-06 | 0.00078 | 4.289778 | 0.53131 | 0.74755 | -0.21624 | 7 | 30295722 | R | II | | IGR | opensea | IGR-opense | | rs5713368 | 41;20 |
| cg2558710 | 0.223616 | 0.573994 | 10.48357 | 8.58E-06 | 0.00078 | 4.288577 | 0.462186 | 0.685802 | -0.22362 | 17 | 68078868 | F | II | KCNJ16 | 5'UTR | opensea | 5'UTR-open | | rs2158970 | 18 |
| cg2601248 | 0.221642 | 0.614885 | 10.48244 | 8.59E-06 | 0.000781 | 4.287791 | 0.504064 | 0.725706 | -0.22164 | 2 | 8423155 | F | II | | IGR | opensea | IGR-opense | | rs5341908 | 1 |
| cg2547689 | 0.214854 | 0.460566 | 10.48164 | 8.59E-06 | 0.000781 | 4.287232 | 0.353139 | 0.567994 | -0.21485 | 13 | 34335944 | R | II | | IGR | opensea | IGR-opense | | rs1486120 | 38;24 |
| cg1872872 | 0.212711 | 0.612075 | 10.48117 | 8.6E-06 | 0.000781 | 4.286903 | 0.50572 | 0.718431 | -0.21271 | 1 | 2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1401983 | 0 |
| cg2693160 | 0.203556 | 0.372243 | 10.48109 | 8.6E-06 | 0.000781 | 4.286844 | 0.270465 | 0.474021 | -0.20356 | 1 | 67030196 | F | II | SGIP1 | Body | opensea | Body-opens | | rs5410696 | 28;44;48 |
| cg1079838 | 0.219489 | 0.490235 | 10.48075 | 8.6E-06 | 0.000781 | 4.286607 | 0.380491 | 0.59998 | -0.21949 | 17 | 10325221 | R | II | MYH8 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0554349 | 0.265042 | 0.59754 | 10.48057 | 8.6E-06 | 0.000781 | 4.286481 | 0.465019 | 0.730061 | -0.26504 | 2 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2400067 | 0.206321 | 0.566495 | 10.4803 | 8.6E-06 | 0.000781 | 4.286294 | 0.463335 | 0.669656 | -0.20632 | 9 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs5648299 | 0;1 |
| cg2390252 | 0.201128 | 0.656524 | 10.47839 | 8.61E-06 | 0.000781 | 4.284965 | 0.555959 | 0.757088 | -0.20113 | 10 | 55892708 | F | II | PCDH15 | Body | opensea | Body-opens | | rs1391047 | 1;7;8 |
| cg0270138 | 0.216931 | 0.676274 | 10.47723 | 8.62E-06 | 0.000782 | 4.284152 | 0.567808 | 0.784739 | -0.21693 | 21 | 17798271 | R | II | MIR99AHG | Body | opensea | Body-opens | | rs5363924 | 1 |
| cg0221173 | 0.201525 | 0.480733 | 10.4746 | 8.63E-06 | 0.000782 | 4.282317 | 0.37997 | 0.581495 | -0.20153 | 11 | 5142602 | R | II | OR52A4 | 1stExon | opensea | 1stExon-op | | rs1479478 | 39 |
| cg0087500 | 0.214429 | 0.537979 | 10.47376 | 8.64E-06 | 0.000782 | 4.281731 | 0.430764 | 0.645193 | -0.21443 | 6 | 16657919 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5290082 | 12;18 |
| cg1470355 | 0.230477 | 0.495974 | 10.4726 | 8.65E-06 | 0.000782 | 4.280923 | 0.380735 | 0.611212 | -0.23048 | 1 | 48670405 | F | II | | IGR | opensea | IGR-opense | | rs1390769 | 1;4;10;48;49 |
| cg1455596 | 0.222871 | 0.512583 | 10.47248 | 8.65E-06 | 0.000782 | 4.280841 | 0.401147 | 0.624018 | -0.22287 | 2 | 1.98E+08 | R | II | RFTN2 | Body | opensea | Body-opens | | rs1189965 | 19 |
| cg2707937 | 0.223464 | 0.478318 | 10.47158 | 8.65E-06 | 0.000782 | 4.280207 | 0.366586 | 0.59005 | -0.22346 | 21 | 19165713 | F | II | C21orf91 | 3'UTR | opensea | 3'UTR-open | | rs5332645 | 0;41 |
| cg1111353 | 0.255712 | 0.564748 | 10.47082 | 8.66E-06 | 0.000782 | 4.279676 | 0.436892 | 0.692604 | -0.25571 | 11 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs1262591 | 43;42 |
| cg0867000 | 0.226635 | 0.579806 | 10.46948 | 8.66E-06 | 0.000782 | 4.27874 | 0.466489 | 0.693124 | -0.22663 | 14 | 56738739 | R | II | PELI2 | Body | opensea | Body-opens | | rs3769656 | 2 |
| cg2537369 | 0.208672 | 0.567774 | 10.46935 | 8.67E-06 | 0.000782 | 4.278653 | 0.463438 | 0.67211 | -0.20867 | 9 | 33236792 | R | II | | IGR | opensea | IGR-opense | | rs1885560 | 29;4;2 |
| cg1290696 | 0.204651 | 0.400778 | 10.46875 | 8.67E-06 | 0.000782 | 4.278236 | 0.298452 | 0.503103 | -0.20465 | 3 | 3807867 | R | II | | IGR | opensea | IGR-opense | | rs5648868 | 1 |
| cg2170532 | 0.201944 | 0.559899 | 10.4673 | 8.68E-06 | 0.000783 | 4.277219 | 0.458927 | 0.660871 | -0.20194 | 4 | 24200012 | R | II | | IGR | opensea | IGR-opense | | rs5483907 | 40;21 |
| cg0811669 | 0.212138 | 0.511246 | 10.46704 | 8.68E-06 | 0.000783 | 4.277036 | 0.405177 | 0.617315 | -0.21214 | 4 | 77675652 | F | II | SHROOM3 | Body | opensea | Body-opens | | rs1431798 | 0;1;13;21;29 |
| cg1017779 | 0.200841 | 0.515627 | 10.46618 | 8.68E-06 | 0.000783 | 4.276436 | 0.415207 | 0.616048 | -0.20084 | 13 | 78180325 | F | II | SCEL-AS1 | Body | opensea | Body-opens | | rs5609414 | 4;39 |
| cg2753643 | 0.201163 | 0.638112 | 10.46592 | 8.69E-06 | 0.000783 | 4.276257 | 0.537531 | 0.738693 | -0.20116 | 20 | 34713354 | R | II | EPB41L1 | ExonBnd | opensea | ExonBnd-op | | rs1897719 | 38;23 |
| cg2101774 | 0.236299 | 0.616272 | 10.46547 | 8.69E-06 | 0.000783 | 4.275943 | 0.498123 | 0.734421 | -0.2363 | 4 | 1.6E+08 | F | II | FNIP2 | Body | opensea | Body-opens | | | |
| cg0062310 | 0.222665 | 0.68408 | 10.46492 | 8.69E-06 | 0.000783 | 4.275559 | 0.572748 | 0.795413 | -0.22266 | 3 | 1.93E+08 | F | II | ATP13A5 | Body | opensea | Body-opens | | rs5633467 | 40;46 |
| cg0736249 | 0.203133 | 0.559164 | 10.46141 | 8.71E-06 | 0.000784 | 4.273104 | 0.457597 | 0.66073 | -0.20313 | 1 | 2.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs5278525 | 9;8 |
| cg1935952 | 0.231289 | 0.609563 | 10.46008 | 8.72E-06 | 0.000784 | 4.272175 | 0.493919 | 0.725207 | -0.23129 | 16 | 31414218 | F | II | ITGAD | Body | opensea | Body-opens | | rs5619104 | 39 |
| cg1352743 | 0.213415 | 0.663705 | 10.46006 | 8.72E-06 | 0.000784 | 4.272157 | 0.556997 | 0.770412 | -0.21341 | 17 | 17304659 | R | II | | IGR | opensea | IGR-opense | | rs5720626 | 36 |
| cg1773312 | 0.234606 | 0.530788 | 10.45882 | 8.73E-06 | 0.000784 | 4.271295 | 0.413485 | 0.648091 | -0.23461 | 2 | 24807724 | R | II | NCOA1 | 5'UTR | opensea | 5'UTR-open | | rs5461710 | 14 |
| cg1756034 | 0.242265 | 0.46818 | 10.45878 | 8.73E-06 | 0.000784 | 4.271262 | 0.347048 | 0.589313 | -0.24227 | 17 | 684490 | F | II | RNMTL1 | TSS1500 | shore | TSS1500-sh | chr17:685: | rs7397552 | 7;31;44 |
| cg0609580 | 0.217327 | 0.605556 | 10.45867 | 8.73E-06 | 0.000784 | 4.27119 | 0.496892 | 0.714219 | -0.21733 | 11 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5452979 | 1 |
| cg1888229 | 0.235307 | 0.626881 | 10.45705 | 8.74E-06 | 0.000785 | 4.270052 | 0.509228 | 0.744535 | -0.23531 | 7 | 83674657 | F | II | SEMA3A | Body | opensea | Body-opens | | | |
| cg1201711 | 0.229315 | 0.623566 | 10.45564 | 8.75E-06 | 0.000785 | 4.269072 | 0.508909 | 0.738223 | -0.22931 | 9 | 90271285 | R | II | DAPK1 | Body | shelf | Body-shelf | chr9:9027( | rs5538890 | 26;11 |
| cg0763755 | 0.208957 | 0.614729 | 10.45467 | 8.75E-06 | 0.000785 | 4.268393 | 0.510251 | 0.719208 | -0.20896 | 6 | 32179971 | R | II | NOTCH4 | Body | opensea | Body-opens | | rs5409355 | 21;2;1 |
| cg1819086 | 0.219778 | 0.638422 | 10.45363 | 8.76E-06 | 0.000785 | 4.267664 | 0.528533 | 0.748311 | -0.21978 | 12 | 52689098 | R | II | | IGR | shelf | IGR-shelf | chr12:526( | | |
| cg1228909 | 0.240625 | 0.539348 | 10.45313 | 8.76E-06 | 0.000785 | 4.267316 | 0.419036 | 0.659661 | -0.24062 | 2 | 97009820 | R | II | NCAPH | Body | opensea | Body-opens | | rs5763965 | 10;2 |
| cg0997423 | 0.222776 | 0.641188 | 10.45246 | 8.77E-06 | 0.000785 | 4.266842 | 0.5298 | 0.752576 | -0.22278 | 10 | 1.02E+08 | F | II | ABCC2 | Body | opensea | Body-opens | | rs5671642 | 1;5;29 |
| cg2044078 | 0.271148 | 0.618682 | 10.45243 | 8.77E-06 | 0.000785 | 4.266826 | 0.483108 | 0.754256 | -0.27115 | 6 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5453437 | 7;42 |
| cg0082960 | 0.23428 | 0.602483 | 10.45179 | 8.77E-06 | 0.000785 | 4.266374 | 0.485343 | 0.719623 | -0.23428 | 16 | 84678923 | F | II | | IGR | shelf | IGR-shelf | chr16:8461 | rs5322773 | 9;15;26 |
| cg0091978 | 0.218152 | 0.446518 | 10.4514 | 8.77E-06 | 0.000785 | 4.2661 | 0.337442 | 0.555594 | -0.21815 | 7 | 1.22E+08 | F | II | CADPS2 | Body | opensea | Body-opens | | rs5431863 | 0;12 |
| cg2063510 | 0.225851 | 0.646775 | 10.45027 | 8.78E-06 | 0.000785 | 4.265308 | 0.533849 | 0.7597 | -0.22585 | 12 | 26578619 | F | II | ITPR2 | Body | opensea | Body-opens | | rs5298000 | 0;18 |
| cg2755654 | 0.234153 | 0.529826 | 10.44499 | 8.81E-06 | 0.000787 | 4.261612 | 0.412749 | 0.646902 | -0.23415 | 19 | 44846179 | R | II | ZNF112 | Body | opensea | Body-opens | | rs1171690 | 26;8 |
| cg1415532 | 0.241929 | 0.525649 | 10.44448 | 8.81E-06 | 0.000787 | 4.261256 | 0.404685 | 0.646614 | -0.24193 | 4 | 87235054 | R | II | MAPK10 | 5'UTR | opensea | 5'UTR-open | | rs1814814 | 12 |
| cg0160408 | 0.217274 | 0.524991 | 10.44219 | 8.83E-06 | 0.000787 | 4.259657 | 0.416354 | 0.633627 | -0.21727 | 6 | 88446851 | F | II | | IGR | opensea | IGR-opense | | rs5748027 | 1;6 |
| cg2630424 | 0.252989 | 0.433761 | 10.44166 | 8.83E-06 | 0.000788 | 4.259285 | 0.307267 | 0.560256 | -0.25299 | 8 | 62288433 | R | II | CLVS1 | Body | opensea | Body-opens | | rs5630298 | 30;1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1984494 | 0.228973 | 0.656158 | 10.44153 | 8.83E-06 | 0.000788 | 4.259191 | 0.541671 | 0.770644 | -0.22897 | 2 | 2.01E+08 | R | II | TYW5 | Body | opensea | Body-opens | | | | | | | | |
| cg0897166 | 0.20999 | 0.619051 | 10.43806 | 8.85E-06 | 0.000789 | 4.256764 | 0.514056 | 0.724047 | -0.20999 | 7 | 79087104 | R | II | MAGI2-AS3 | Body | shelf | Body-shelf | chr7:79082 | | | | | | | |
| cg2592925 | 0.256285 | 0.508805 | 10.43664 | 8.86E-06 | 0.000789 | 4.255769 | 0.380663 | 0.636948 | -0.25629 | 4 | 36211731 | F | II | ARAP2 | Body | opensea | Body-opens | | rs3679273 | 0 | 1;36 | | | | |
| cg1265080 | 0.214473 | 0.595364 | 10.43566 | 8.87E-06 | 0.000789 | 4.255082 | 0.488128 | 0.7026 | -0.21447 | 7 | 81662291 | F | II | CACNA2D1 | Body | opensea | Body-opens | | rs1895659 | 3 | 2;45 | | | | |
| cg1038472 | 0.239336 | 0.512812 | 10.43554 | 8.87E-06 | 0.000789 | 4.254992 | 0.393144 | 0.63248 | -0.23934 | 11 | 63035103 | F | II | | IGR | opensea | IGR-opense | | rs1121841 | 3 | 1 | | | | |
| cg1905121 | 0.221698 | 0.49653 | 10.43387 | 8.88E-06 | 0.000789 | 4.253828 | 0.385681 | 0.607379 | -0.2217 | 2 | 1.28E+08 | R | I | IWS1 | Body | shelf | Body-shelf | chr2:12282 | rs2017355 | 4 | | | | | |
| cg2155418 | 0.249907 | 0.538122 | 10.43313 | 8.88E-06 | 0.00079 | 4.253305 | 0.413168 | 0.663076 | -0.24991 | 1 | 1.16E+08 | R | II | CASQ2 | Body | opensea | Body-opens | | | | | | | | |
| cg2689540 | 0.218 | 0.586436 | 10.43195 | 8.89E-06 | 0.00079 | 4.252478 | 0.477436 | 0.695436 | -0.218 | 11 | 35941694 | F | II | | IGR | opensea | IGR-opense | | rs7247105 | 1 | 5;26 | | | | |
| cg1792675 | 0.204175 | 0.518693 | 10.43186 | 8.89E-06 | 0.00079 | 4.252412 | 0.416605 | 0.620781 | -0.20418 | 3 | 55217960 | F | II | | IGR | opensea | IGR-opense | | rs1482264 | 7 | 23 | | | | |
| cg1845352 | 0.230013 | 0.583973 | 10.43157 | 8.89E-06 | 0.00079 | 4.252209 | 0.468967 | 0.69898 | -0.23001 | 1 | 1.59E+08 | R | II | OR6K2 | TSS1500 | opensea | TSS1500-op | | rs2023613 | 45 | 24;5 | | | | |
| cg0001330 | 0.203647 | 0.63354 | 10.42834 | 8.91E-06 | 0.00079 | 4.249947 | 0.531717 | 0.735364 | -0.20365 | 3 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs5306522 | 0 | 1;38 | | | | |
| cg1761148 | 0.214212 | 0.54879 | 10.4283 | 8.91E-06 | 0.00079 | 4.249922 | 0.441684 | 0.655896 | -0.21421 | 4 | 1.11E+08 | F | II | EGF | Body | opensea | Body-opens | | rs3723039 | 13 | 15;28;29;44 | | | | |
| cg1235228 | 0.22836 | 0.602652 | 10.4279 | 8.92E-06 | 0.00079 | 4.249638 | 0.488472 | 0.716832 | -0.22836 | 8 | 97744293 | F | II | CPQ | 5'UTR | opensea | 5'UTR-opens | | rs5649052 | 15 | | | | | |
| cg0340756 | 0.256303 | 0.580308 | 10.42623 | 8.93E-06 | 0.00079 | 4.248467 | 0.452157 | 0.708459 | -0.2563 | 8 | 1682921 | R | II | | IGR | opensea | IGR-opense | | rs5464896 | 50 | 47;37;35 | | | | |
| cg1924952 | 0.204784 | 0.60372 | 10.42487 | 8.93E-06 | 0.00079 | 4.247512 | 0.501328 | 0.706112 | -0.20478 | 15 | 33029102 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0368190 | 0.243181 | 0.583285 | 10.42487 | 8.93E-06 | 0.00079 | 4.247511 | 0.461695 | 0.704876 | -0.24318 | 4 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1858166 | 0.207516 | 0.649764 | 10.42407 | 8.94E-06 | 0.00079 | 4.246953 | 0.546007 | 0.753522 | -0.20752 | 7 | 29873076 | F | II | WIPF3 | TSS1500 | opensea | TSS1500-op | | | | | | | | |
| cg1069586 | 0.200434 | 0.482318 | 10.42328 | 8.94E-06 | 0.00079 | 4.246396 | 0.382101 | 0.582535 | -0.20043 | 13 | 33954699 | F | II | STARD13 | Body | opensea | Body-opens | | rs1426363 | 0 | 48;50 | | | | |
| cg1376087 | 0.219159 | 0.464084 | 10.42241 | 8.95E-06 | 0.00079 | 4.24579 | 0.354505 | 0.573664 | -0.21916 | 3 | 69815765 | F | II | MITF | Body | opensea | Body-opens | | rs5474510 | 0 | 47 | | | | |
| cg0732657 | 0.240524 | 0.578832 | 10.4224 | 8.95E-06 | 0.00079 | 4.245779 | 0.45857 | 0.699094 | -0.24052 | 7 | 51292092 | F | II | COBL | Body | opensea | Body-opens | | rs5325896 | 0 | | | | | |
| cg1730821 | 0.206793 | 0.605625 | 10.42186 | 8.95E-06 | 0.00079 | 4.245403 | 0.502228 | 0.709021 | -0.20679 | 14 | 59642351 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1201923 | 0.216956 | 0.645893 | 10.42129 | 8.96E-06 | 0.000791 | 4.244999 | 0.537415 | 0.754371 | -0.21696 | 11 | 12628283 | F | II | | IGR | opensea | IGR-opense | | rs5342089 | 39 | | | | | |
| cg2096612 | 0.221937 | 0.626674 | 10.42036 | 8.96E-06 | 0.000791 | 4.244347 | 0.515706 | 0.737643 | -0.22194 | 11 | 93469940 | R | II | TAF1D | Body | opensea | Body-opens | | rs3459161 | 50 | 34;1 | | | | |
| cg1107944 | 0.230319 | 0.512121 | 10.42009 | 8.96E-06 | 0.000791 | 4.24416 | 0.396962 | 0.627281 | -0.23032 | 8 | 1.31E+08 | F | II | ASAP1 | 5'UTR | opensea | 5'UTR-opens | | rs5293081 | 15 | 30;37;40 | | | | |
| cg1954714 | 0.243302 | 0.590004 | 10.41982 | 8.97E-06 | 0.000791 | 4.243969 | 0.468353 | 0.711655 | -0.2433 | 11 | 1.18E+08 | F | II | MLL | Body | opensea | Body-opens | | | | | | | | |
| cg1511864 | 0.221138 | 0.655312 | 10.41913 | 8.97E-06 | 0.000791 | 4.243481 | 0.544743 | 0.765881 | -0.22114 | 22 | 50602187 | R | II | | IGR | shelf | IGR-shelf | chr22:5066 | rs7540809 | 19 | 15 | | | | |
| cg0161364 | 0.247161 | 0.496673 | 10.419 | 8.97E-06 | 0.000791 | 4.243392 | 0.373093 | 0.620254 | -0.24716 | 10 | 28271425 | R | II | ARMC4 | TSS1500 | opensea | TSS1500-op | | rs5310922 | 51 | 23;1 | | | | |
| cg0624651 | 0.25239 | 0.451976 | 10.41818 | 8.98E-06 | 0.000791 | 4.242821 | 0.325781 | 0.578171 | -0.25239 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5723783 | 48 | 42;39 | | | | |
| cg1628319 | 0.207134 | 0.674403 | 10.41816 | 8.98E-06 | 0.000791 | 4.242804 | 0.570836 | 0.77797 | -0.20713 | 5 | 73929025 | F | II | ENC1 | 3'UTR | opensea | 3'UTR-open | | | | | | | | |
| cg0546756 | 0.212226 | 0.647741 | 10.41778 | 8.98E-06 | 0.000791 | 4.242534 | 0.541628 | 0.753854 | -0.21223 | 7 | 90595609 | R | II | CDK14 | Body | opensea | Body-opens | | rs5537235 | 34 | 7;1 | | | | |
| cg0471725 | 0.200552 | 0.647051 | 10.4154 | 8.99E-06 | 0.000791 | 4.240863 | 0.546775 | 0.747327 | -0.20055 | 5 | 1.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs5580758 | 21 | | | | | |
| cg0499070 | 0.207674 | 0.345822 | 10.41536 | 8.99E-06 | 0.000791 | 4.240837 | 0.241985 | 0.449659 | -0.20767 | 10 | 1.28E+08 | R | II | | IGR | opensea | IGR-opense | | rs5749146 | 40 | | | | | |
| cg1750065 | 0.226701 | 0.539396 | 10.41461 | 9E-06 | 0.000791 | 4.240309 | 0.426045 | 0.652747 | -0.2267 | 5 | 58145887 | R | II | RAB3C | Body | opensea | Body-opens | | rs5618114 | 36 | | | | | |
| cg0244114 | 0.209443 | 0.587143 | 10.41194 | 9.01E-06 | 0.000792 | 4.238438 | 0.482422 | 0.691864 | -0.20944 | 13 | 1.07E+08 | R | II | EFNB2 | Body | opensea | Body-opens | | rs7411303 | 51 | 2;1 | | | | |
| cg2176672 | 0.200497 | 0.603951 | 10.41146 | 9.02E-06 | 0.000792 | 4.238098 | 0.503702 | 0.704199 | -0.2005 | 4 | 1.83E+08 | R | II | | IGR | opensea | IGR-opense | | rs14910201 | | 1 | | | | |
| cg1674421 | 0.253521 | 0.55346 | 10.41125 | 9.02E-06 | 0.000792 | 4.237949 | 0.426699 | 0.68022 | -0.25352 | 14 | 49872206 | F | II | | IGR | opensea | IGR-opense | | rs1500094 | 1 | 1;8 | | | | |
| cg2445764 | 0.231773 | 0.502161 | 10.41122 | 9.02E-06 | 0.000792 | 4.237926 | 0.386274 | 0.618047 | -0.23177 | 1 | 64668350 | R | II | UBE2U | TSS1500 | opensea | TSS1500-op | | rs14174044 | 48 | 45;45;14;2 | | | | |
| cg1812171 | 0.255367 | 0.487571 | 10.40939 | 9.03E-06 | 0.000793 | 4.236645 | 0.359888 | 0.615255 | -0.25537 | 2 | 17738759 | F | II | VSNL1 | 5'UTR | opensea | 5'UTR-opens | | rs5559629 | 0 | 8;15;32 | | | | |
| cg1882710 | 0.207778 | 0.636021 | 10.40879 | 9.03E-06 | 0.000793 | 4.236223 | 0.532132 | 0.73991 | -0.20778 | 12 | 86230957 | F | II | RASSF9 | TSS1500 | opensea | TSS1500-op | | rs1385821 | 7 | 17 | | | | |
| cg1915486 | 0.216299 | 0.636049 | 10.40857 | 9.03E-06 | 0.000793 | 4.236065 | 0.5279 | 0.744199 | -0.2163 | 1 | 1.54E+08 | R | II | NUP210L | Body | opensea | Body-opens | | rs5683381 | 42 | 1 | | | | |
| cg0970454 | 0.20717 | 0.566549 | 10.40826 | 9.04E-06 | 0.000793 | 4.235852 | 0.462964 | 0.670134 | -0.20717 | 15 | 85616433 | R | II | PDE8A | Body | opensea | Body-opens | | rs3724782 | 39 | 19 | | | | |
| cg0110938 | 0.237824 | 0.452971 | 10.40758 | 9.04E-06 | 0.000793 | 4.235369 | 0.334059 | 0.571883 | -0.23782 | 21 | 34302076 | R | II | | IGR | opensea | IGR-opense | | rs1818884 | 2 | | | | | |
| cg0242657 | 0.206865 | 0.623281 | 10.40677 | 9.05E-06 | 0.000793 | 4.234801 | 0.519849 | 0.726713 | -0.20686 | 12 | 60205342 | R | II | | IGR | opensea | IGR-opense | | rs5584549 | 31 | | | | | |
| cg1409865 | 0.215502 | 0.457721 | 10.4054 | 9.05E-06 | 0.000794 | 4.233839 | 0.349971 | 0.565472 | -0.2155 | 1 | 1.12E+08 | F | II | KCND3-AS1 | TSS1500 | opensea | TSS1500-op | | rs5345913 | 1 | 35;36;43;46 | | | | |
| cg0959040 | 0.217516 | 0.612684 | 10.40433 | 9.06E-06 | 0.000794 | 4.233086 | 0.503926 | 0.721442 | -0.21752 | 2 | 2.19E+08 | R | I | VIL1 | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg2058886 | 0.217203 | 0.600113 | 10.40428 | 9.06E-06 | 0.000794 | 4.233049 | 0.491511 | 0.708714 | -0.2172 | 10 | 95551111 | R | II | LGI1 | Body | opensea | Body-opens | | rs5388509 | 36 | 2;1 | | | | |
| cg0637296 | 0.240795 | 0.584118 | 10.40401 | 9.06E-06 | 0.000794 | 4.232863 | 0.463721 | 0.704516 | -0.2408 | 1 | 43351860 | R | II | | IGR | shore | IGR-shore | chr1:4335 | rs1922801 | 1 | | | | | |
| cg0469308 | 0.226944 | 0.619762 | 10.40398 | 9.06E-06 | 0.000794 | 4.232844 | 0.50629 | 0.733233 | -0.22694 | 3 | 87383039 | F | II | | IGR | opensea | IGR-opense | | rs1923906 | 0 | 38 | | | | |
| cg1215447 | 0.211874 | 0.680284 | 10.40395 | 9.06E-06 | 0.000794 | 4.23282 | 0.574347 | 0.786221 | -0.21187 | 11 | 68196085 | R | II | LRP5 | Body | shelf | Body-shelf | chr11:681 | rs3679333 | 4 | 4 | | | | |
| cg0393557 | 0.210609 | 0.62967 | 10.40314 | 9.07E-06 | 0.000794 | 4.232253 | 0.524365 | 0.734975 | -0.21061 | 1 | 72035562 | R | II | NEGR1 | Body | opensea | Body-opens | | rs5596504 | 11 | 9 | | | | |
| cg1595193 | 0.205941 | 0.657875 | 10.40303 | 9.07E-06 | 0.000794 | 4.23217 | 0.554905 | 0.760846 | -0.20594 | 16 | 19819871 | R | II | IQCK | Body | opensea | Body-opens | | | | | | | | |
| cg1316439 | 0.214507 | 0.575758 | 10.40302 | 9.07E-06 | 0.000794 | 4.232169 | 0.468505 | 0.683011 | -0.21451 | 1 | 1.81E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:1808 | rs1848585 | 15 | | | | | |
| cg1610507 | 0.227094 | 0.470045 | 10.4029 | 9.07E-06 | 0.000794 | 4.232082 | 0.356497 | 0.583592 | -0.22709 | 2 | 1.68E+08 | R | II | XIRP2 | 5'UTR | opensea | 5'UTR-opens | | rs5772581 | 37 | 18 | | | | |
| cg0473385 | 0.211708 | 0.582217 | 10.40204 | 9.08E-06 | 0.000794 | 4.23148 | 0.476363 | 0.688071 | -0.21171 | 3 | 24961439 | F | II | | IGR | opensea | IGR-opense | | rs1856269 | 8 | 11;35 | | | | |
| cg2156702 | 0.213163 | 0.535121 | 10.40015 | 9.09E-06 | 0.000795 | 4.230147 | 0.428539 | 0.641703 | -0.21316 | 11 | 93067324 | F | II | CCDC67 | Body | shelf | Body-shelf | chr11:9301 | rs1173211 | 6 | 20;31 | | | | |
| cg0726797 | 0.276349 | 0.462064 | 10.39983 | 9.09E-06 | 0.000795 | 4.229919 | 0.32389 | 0.600239 | -0.27635 | 8 | 62539945 | F | II | ASPH | Body | opensea | Body-opens | | rs19204000 | 0 | 24;27;51 | | | | |
| cg1948522 | 0.229855 | 0.599264 | 10.39904 | 9.09E-06 | 0.000795 | 4.229366 | 0.484336 | 0.714192 | -0.22986 | 1 | 68216572 | R | II | GNG12 | 5'UTR | opensea | 5'UTR-opens | | rs7787932 | 43 | 1 | | | | |
| cg0681745 | 0.2241 | 0.549853 | 10.39893 | 9.1E-06 | 0.000795 | 4.229288 | 0.437803 | 0.661903 | -0.2241 | 1 | 48360454 | F | II | | IGR | opensea | IGR-opense | | rs5758648 | 0 | 1;33;46 | | | | |
| cg2281027 | 0.200764 | 0.635378 | 10.39841 | 9.1E-06 | 0.000795 | 4.228924 | 0.534996 | 0.73576 | -0.20076 | 20 | 37899981 | R | II | | IGR | opensea | IGR-opense | | rs1512108 | 44 | 14;2;1 | | | | |
| cg2510667 | 0.259381 | 0.614207 | 10.39783 | 9.1E-06 | 0.000795 | 4.228518 | 0.484516 | 0.743897 | -0.25938 | 21 | 17452671 | R | II | MIR99AHG | Body | opensea | Body-opens | | | | | | | | |
| cg0874755 | 0.219205 | 0.595434 | 10.39545 | 9.12E-06 | 0.000796 | 4.226844 | 0.485831 | 0.705036 | -0.2192 | 11 | 1.03E+08 | F | II | MMP8 | 3'UTR | opensea | 3'UTR-opens | | rs1422861 | 0 | 1;36 | | | | |
| cg0515504 | 0.207728 | 0.60159 | 10.39424 | 9.12E-06 | 0.000797 | 4.225993 | 0.497726 | 0.705454 | -0.20773 | 5 | 168719 | F | II | PLEKHG4B | Body | shore | Body-shore | chr5:1695 | rs5488733 | 1 | 18;19 | | | | |
| cg0565892 | 0.266903 | 0.539845 | 10.39347 | 9.13E-06 | 0.000797 | 4.225447 | 0.406393 | 0.673296 | -0.2669 | 7 | 13191068 | R | II | | IGR | opensea | IGR-opense | | rs5354259 | 20 | | | | | |
| cg1734156 | 0.237335 | 0.486657 | 10.39321 | 9.13E-06 | 0.000797 | 4.225263 | 0.367989 | 0.605325 | -0.23734 | 2 | 2.16E+08 | R | II | LINC00607 | Body | opensea | Body-opens | | rs5580152 | 46 | 40;39;37;27;6 | | | | |
| cg0795913 | 0.20602 | 0.611966 | 10.39312 | 9.13E-06 | 0.000797 | 4.225204 | 0.508956 | 0.714976 | -0.20602 | 1 | 87601970 | F | II | LOC339524 | Body | shelf | Body-shelf | chr1:8759 | rs5327347 | 5 | 10;26 | | | | |
| cg2300904 | 0.235442 | 0.393837 | 10.39219 | 9.14E-06 | 0.000797 | 4.224547 | 0.276116 | 0.511558 | -0.23544 | 3 | 47603786 | F | II | CSPG5 | 3'UTR | opensea | 3'UTR-opens | | rs5600080 | 14 | | | | | |
| cg1908424 | 0.203828 | 0.648327 | 10.39202 | 9.14E-06 | 0.000797 | 4.224428 | 0.546413 | 0.750241 | -0.20383 | 18 | 9835632 | F | II | RAB31 | Body | opensea | Body-opens | | rs1404911 | 3 | 41 | | | | |
| cg1648925 | 0.223405 | 0.523847 | 10.39102 | 9.14E-06 | 0.000797 | 4.223721 | 0.412145 | 0.63555 | -0.22341 | 10 | 32438418 | R | II | | IGR | opensea | IGR-opense | | rs7628711 | 42 | 26;25;1 | | | | |
| cg0295698 | 0.231084 | 0.678087 | 10.38836 | 9.16E-06 | 0.000798 | 4.22185 | 0.562546 | 0.793629 | -0.23108 | 1 | 74929125 | F | II | TNNI3K | ExonBnd | opensea | ExonBnd-op | | rs1458406 | 1 | 6;7;21;26;41;45 | | | | |
| cg0594566 | 0.211758 | 0.512084 | 10.3864 | 9.17E-06 | 0.000798 | 4.220469 | 0.406205 | 0.617963 | -0.21176 | 5 | 1.54E+08 | F | II | | IGR | shelf | IGR-shelf | chr5:1539 | | | | | | | |
| cg1583477 | 0.271795 | 0.500053 | 10.38544 | 9.18E-06 | 0.000799 | 4.219795 | 0.364156 | 0.635951 | -0.2718 | 17 | 43919576 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2222444 | 0.247159 | 0.554832 | 10.38348 | 9.19E-06 | 0.000799 | 4.218412 | 0.431252 | 0.678411 | -0.24716 | 2 | 1.88E+08 | F | II | | IGR | opensea | IGR-opense | | rs1415868 | 1 | 5;29 | | | | |
| cg2245431 | 0.242918 | 0.544629 | 10.38094 | 9.21E-06 | 0.0008 | 4.216622 | 0.42317 | 0.666088 | -0.24292 | 1 | 2.02E+08 | R | II | NAV1 | Body | opensea | Body-opens | | rs5676465 | 49 | 35 | | | | |
| cg1206124 | 0.238153 | 0.544871 | 10.38062 | 9.21E-06 | 0.000801 | 4.2164 | 0.425795 | 0.663948 | -0.23815 | 3 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2535716 | 0.215188 | 0.713511 | 10.37994 | 9.22E-06 | 0.000801 | 4.215917 | 0.605917 | 0.821105 | -0.21519 | 1 | 39323275 | F | II | RRAGC | Body | shore | Body-shore | chr1:3932 | rs5501648 | 10 | 24 | | | | |
| cg1205674 | 0.22526 | 0.598238 | 10.37957 | 9.22E-06 | 0.000801 | 4.215656 | 0.485608 | 0.710868 | -0.22526 | 5 | 59786348 | R | II | PART1 | Body | opensea | Body-opens | | | | | | | | |
| cg1614170 | 0.222701 | 0.562034 | 10.37942 | 9.22E-06 | 0.000801 | 4.215551 | 0.450683 | 0.673384 | -0.2227 | 15 | 25651598 | R | II | UBE3A | TSS1500 | opensea | TSS1500-op | | | | | | | | |
| cg0088449 | 0.208402 | 0.64905 | 10.37874 | 9.22E-06 | 0.000801 | 4.215073 | 0.544848 | 0.753251 | -0.2084 | 7 | 6245952 | F | II | CYTH3 | Body | opensea | Body-opens | | rs1827325 | 41 | 44 | | | | |
| cg0531364 | 0.208811 | 0.543463 | 10.37734 | 9.23E-06 | 0.000801 | 4.214089 | 0.439058 | 0.647868 | -0.20881 | 17 | 65027466 | R | II | CACNG4 | 3'UTR | opensea | 3'UTR-opens | | rs5720962 | 3 | 17 | | | | |
| cg0274071 | 0.247678 | 0.491949 | 10.37673 | 9.24E-06 | 0.000801 | 4.213659 | 0.368109 | 0.615788 | -0.24768 | 5 | 1.51E+08 | F | II | SLC36A1 | TSS1500 | opensea | TSS1500-op | | rs1390628 | 0 | 44;47 | | | | |
| cg2743881 | 0.2235 | 0.430346 | 10.37638 | 9.24E-06 | 0.000801 | 4.213409 | 0.318596 | 0.542096 | -0.2235 | 12 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0522884 | 0.243626 | 0.480345 | 10.37619 | 9.24E-06 | 0.000801 | 4.213274 | 0.358533 | 0.602158 | -0.24363 | 14 | 55925656 | R | II | | IGR | opensea | IGR-opense | | rs1014008 | 29 | 23;2 | | | | |
| cg2197484 | 0.223515 | 0.636154 | 10.37577 | 9.24E-06 | 0.000801 | 4.212981 | 0.524396 | 0.747911 | -0.22352 | 1 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | | rs5773605 | 4 | | | | | |
| cg0389455 | 0.216156 | 0.623549 | 10.37384 | 9.25E-06 | 0.000802 | 4.21162 | 0.515471 | 0.731627 | -0.21616 | 15 | 52851392 | R | II | ARPP19 | Body | opensea | Body-opens | | rs5286399 | 44 | 25;1 | | | | |
| cg0305872 | 0.202201 | 0.506325 | 10.37234 | 9.26E-06 | 0.000802 | 4.210563 | 0.405225 | 0.607426 | -0.2022 | 11 | 1.21E+08 | F | II | TECTA | Body | opensea | Body-opens | | rs1384975 | 5 | 39;43 | | | | |
| cg2225642 | 0.209568 | 0.593417 | 10.3718 | 9.27E-06 | 0.000802 | 4.210179 | 0.488633 | 0.698201 | -0.20957 | 10 | 4060366 | F | II | | IGR | opensea | IGR-opense | | rs5768434 | 22 | 48 | | | | |
| cg0157857 | 0.233382 | 0.533787 | 10.37092 | 9.27E-06 | 0.000802 | 4.209559 | 0.417096 | 0.650478 | -0.23338 | 5 | 1.73E+08 | R | II | | IGR | opensea | IGR-opense | | rs5516099 | 15 | | | | | |
| cg0972055 | 0.20276 | 0.495996 | 10.36771 | 9.29E-06 | 0.000803 | 4.207297 | 0.394616 | 0.597376 | -0.20276 | 2 | 1.76E+08 | F | II | ATF2 | Body | opensea | Body-opens | | rs1152091 | 0 | 35 | | | | |
| cg0438079 | 0.203702 | 0.508174 | 10.36691 | 9.3E-06 | 0.000803 | 4.206727 | 0.406323 | 0.610025 | -0.2037 | 1 | 61664754 | F | II | NFIA | Body | opensea | Body-opens | | rs5435736 | 34 | 41 | | | | |
| cg0755235 | 0.238947 | 0.494839 | 10.36495 | 9.31E-06 | 0.000804 | 4.205344 | 0.375365 | 0.614312 | -0.23895 | 4 | 90226782 | R | II | GPRIN3 | 5'UTR | shore | 5'UTR-shor | chr4:9022 | rs7608871 | 2 | 5;9 | | | | |
| cg1270040 | 0.220216 | 0.561139 | 10.36494 | 9.31E-06 | 0.000804 | 4.205341 | 0.451032 | 0.671247 | -0.22022 | 10 | 1.04E+08 | F | II | ARL3 | Body | shelf | Body-shelf | chr10:104 | rs5714780 | 18 | | | | | |
| cg1643564 | 0.230298 | 0.404614 | 10.36433 | 9.31E-06 | 0.000804 | 4.204912 | 0.289464 | 0.519763 | -0.2303 | 6 | 1.28E+08 | F | II | THEMIS | 5'UTR | opensea | 5'UTR-opens | | rs5667728 | 0 | 19 | | | | |
| cg1654318 | 0.220036 | 0.558992 | 10.36376 | 9.32E-06 | 0.000804 | 4.20451 | 0.448974 | 0.66901 | -0.22004 | 21 | 35874035 | R | II | KCNE1 | 5'UTR | opensea | 5'UTR-opens | | rs5655336 | 2 | | | | | |
| cg2165055 | 0.205284 | 0.441063 | 10.36367 | 9.32E-06 | 0.000804 | 4.204439 | 0.338421 | 0.543705 | -0.20528 | 3 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs1431706 | 19 | 30 | | | | |
| cg2654637 | 0.2235 | 0.54827 | 10.36311 | 9.32E-06 | 0.000804 | 4.204048 | 0.436519 | 0.66002 | -0.2235 | 5 | 1.54E+08 | R | II | LARP1 | Body | opensea | Body-opens | | rs1891514 | 35 | | | | | |
| cg1689043 | 0.242462 | 0.462712 | 10.36285 | 9.32E-06 | 0.000804 | 4.203867 | 0.341482 | 0.583943 | -0.24246 | 5 | 1.49E+08 | R | II | AFAP1L1 | Body | opensea | Body-opens | | rs1444141 | 17 | 2 | | | | |
| cg0615260 | 0.209384 | 0.562272 | 10.36198 | 9.33E-06 | 0.000804 | 4.203252 | 0.45758 | 0.666965 | -0.20938 | 17 | 80444748 | F | II | NARF | Body | opensea | Body-opens | | rs1886721 | 0 | | | | | |
| cg0481378 | 0.215431 | 0.499271 | 10.35963 | 9.35E-06 | 0.000805 | 4.201587 | 0.391556 | 0.606986 | -0.21543 | 6 | 1.68E+08 | R | II | | IGR | opensea | IGR-opense | | rs7493573 | 47 | 23 | | | | |
| cg1655372 | 0.226348 | 0.464796 | 10.35878 | 9.35E-06 | 0.000805 | 4.200991 | 0.351622 | 0.57797 | -0.22635 | 19 | 6668742 | F | II | TNFSF14 | Body | opensea | Body-opens | | rs5647949 | 6 | | | | | |
| cg1913932 | 0.251929 | 0.534318 | 10.35751 | 9.36E-06 | 0.000805 | 4.200093 | 0.408354 | 0.660282 | -0.25193 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2303375 | 0.227698 | 0.504684 | 10.35667 | 9.36E-06 | 0.000806 | 4.199502 | 0.390835 | 0.618533 | -0.2277 | 1 | 65062243 | F | II | CACHD1 | Body | opensea | Body-opens | | | | | | | | |
| cg1823321 | 0.202959 | 0.698888 | 10.35554 | 9.37E-06 | 0.000806 | 4.198699 | 0.597409 | 0.800368 | -0.20296 | 13 | 73687268 | R | II | | IGR | opensea | IGR-opense | | rs1143369 | 30 | 21 | | | | |
| cg1041531 | 0.246422 | 0.615818 | 10.35375 | 9.38E-06 | 0.000807 | 4.197438 | 0.492607 | 0.739029 | -0.24642 | 14 | 33949227 | R | II | NPAS3 | Body | opensea | Body-opens | | rs5294392 | 39 | 19 | | | | |
| cg2504587 | 0.238733 | 0.603948 | 10.35342 | 9.39E-06 | 0.000807 | 4.197203 | 0.484581 | 0.723314 | -0.23873 | 21 | 18188931 | F | II | | IGR | opensea | IGR-opense | | rs5672681 | 4 | 7;43;45 | | | | |
| cg0287838 | 0.243345 | 0.518198 | 10.35045 | 9.4E-06 | 0.000807 | 4.195108 | 0.396526 | 0.639871 | -0.24334 | 4 | 1.68E+08 | R | II | SPOCK3 | 5'UTR | opensea | 5'UTR-opens | | rs5707342 | 2 | | | | | |
| cg0866300 | 0.224707 | 0.539846 | 10.34999 | 9.41E-06 | 0.000808 | 4.194781 | 0.427493 | 0.652199 | -0.22471 | 1 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs5288995 | 19 | 45;49 | | | | |
| cg2497848 | 0.216889 | 0.62718 | 10.34943 | 9.41E-06 | 0.000808 | 4.194386 | 0.518736 | 0.735625 | -0.21689 | 12 | 89866458 | F | II | POC1B | Body | opensea | Body-opens | | rs1912900 | 21 | 45 | | | | |
| cg0526632 | 0.249157 | 0.591195 | 10.34739 | 9.42E-06 | 0.000808 | 4.192943 | 0.466616 | 0.715773 | -0.24916 | 3 | 46401927 | R | II | CCR2 | 3'UTR | opensea | 3'UTR-opens | | rs5721842 | 8 | | | | | |
| cg1349731 | 0.217948 | 0.649099 | 10.34596 | 9.43E-06 | 0.000809 | 4.191933 | 0.540126 | 0.758073 | -0.21795 | 15 | 39796985 | F | II | | IGR | opensea | IGR-opense | | rs5520052 | 0 | 1;19 | | | | |
| cg1448540 | 0.256135 | 0.471364 | 10.34559 | 9.44E-06 | 0.000809 | 4.191667 | 0.343296 | 0.599431 | -0.25613 | 2 | 45063342 | R | II | | IGR | opensea | IGR-opense | | rs1137184 | 51 | 50;34;16;2 | | | | |
| cg0394361 | 0.254038 | 0.557562 | 10.34518 | 9.44E-06 | 0.000809 | 4.191376 | 0.430544 | 0.684581 | -0.25404 | 3 | 3243751 | R | II | | IGR | opensea | IGR-opense | | rs5272629 | 24 | 16 | | | | |
| cg1252109 | 0.232217 | 0.484393 | 10.3445 | 9.44E-06 | 0.000809 | 4.1909 | 0.368284 | 0.600502 | -0.23222 | 1 | 2.05E+08 | F | II | LRRN2 | 5'UTR | opensea | 5'UTR-opens | | rs5760123 | 8 | | | | | |
| cg0921353 | 0.237393 | 0.544411 | 10.34444 | 9.44E-06 | 0.000809 | 4.190856 | 0.425715 | 0.663108 | -0.23739 | 8 | 8852726 | R | II | | IGR | opensea | IGR-opense | | rs5685227 | 50 | 46;22 | | | | |
| cg2575121 | 0.217749 | 0.508736 | 10.34439 | 9.44E-06 | 0.000809 | 4.190822 | 0.399861 | 0.61761 | -0.21775 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1236703 | 0.204057 | 0.595967 | 10.34057 | 9.47E-06 | 0.00081 | 4.188117 | 0.493938 | 0.697995 | -0.20406 | 21 | 44933622 | R | II | | IGR | opensea | IGR-opense | | rs5824868 | 13 | | | | | |
| cg0967665 | 0.232165 | 0.563245 | 10.33969 | 9.48E-06 | 0.000811 | 4.187497 | 0.447162 | 0.679327 | -0.23216 | 3 | 1.68E+08 | F | II | | IGR | opensea | IGR-opense | | rs5575972 | 1 | | | | | |
| cg0882484 | 0.204044 | 0.464694 | 10.33918 | 9.48E-06 | 0.000811 | 4.18713 | 0.362672 | 0.566716 | -0.20404 | 11 | 35052388 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1787283 | 0.223322 | 0.621693 | 10.33897 | 9.48E-06 | 0.000811 | 4.186984 | 0.510032 | 0.733354 | -0.22332 | 13 | 52607339 | F | II | UTP14C | 3'UTR | opensea | 3'UTR-opens | | rs1875070 | 0 | 30;50 | | | | |
| cg1746018 | 0.23585 | 0.536804 | 10.33766 | 9.49E-06 | 0.000811 | 4.186057 | 0.41888 | 0.654729 | -0.23585 | 10 | 48370158 | R | II | ZNF488 | 5'UTR | shore | 5'UTR-shor | chr10:4837 | rs5351060 | 6 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1270647 | 0.202282 | 0.568603 | 10.33584 | 9.5E-06 | 0.000812 | 4.184767 | 0.467462 | 0.669744 | -0.20228 | 1 | 2.11E+08 | F | II | KCNH1 | Body | shore | Body-shore | chr1:21085 | rs1440997 | 0;29;51 |
| cg1402791 | 0.200908 | 0.572793 | 10.33312 | 9.52E-06 | 0.000812 | 4.182845 | 0.472339 | 0.673248 | -0.20091 | 3 | 1.24E+08 | R | II | ITGB5 | Body | opensea | Body-opens | | rs1160223 | 36;32;2 |
| cg0486668 | 0.249609 | 0.598331 | 10.33287 | 9.52E-06 | 0.000812 | 4.182669 | 0.473527 | 0.723135 | -0.24961 | 3 | 35973060 | F | II | | IGR | opensea | IGR-opense | | rs1854203 | 25 |
| cg0761875 | 0.218156 | 0.464644 | 10.33252 | 9.52E-06 | 0.000812 | 4.182422 | 0.355566 | 0.573722 | -0.21816 | 6 | 18551644 | F | II | | IGR | opensea | IGR-opense | | rs7794763 | 8;12;30 |
| cg1913809 | 0.20326 | 0.611449 | 10.33244 | 9.52E-06 | 0.000812 | 4.182361 | 0.509819 | 0.713079 | -0.20326 | 3 | 1.8E+08 | R | II | PEX5L | 5'UTR | opensea | 5'UTR-open | | | |
| cg1131391 | 0.225573 | 0.464477 | 10.33225 | 9.52E-06 | 0.000812 | 4.182225 | 0.351691 | 0.577264 | -0.22557 | 13 | 23331520 | R | II | | IGR | opensea | IGR-opense | | rs1408204 | 51;48;20;16;1 |
| cg1030706 | 0.229934 | 0.504501 | 10.33104 | 9.53E-06 | 0.000812 | 4.181373 | 0.389534 | 0.619468 | -0.22993 | 10 | 64144210 | R | II | ZNF365 | Body | opensea | Body-opens | | rs7075904 | 30;2 |
| cg2179209 | 0.205479 | 0.53426 | 10.33033 | 9.54E-06 | 0.000812 | 4.18087 | 0.43152 | 0.636999 | -0.20548 | 7 | 24611752 | R | II | MPP6 | TSS1500 | opensea | TSS1500-op | | rs5697444 | 44;19 |
| cg2047598 | 0.209777 | 0.63446 | 10.32969 | 9.54E-06 | 0.000812 | 4.180418 | 0.529571 | 0.739349 | -0.20978 | 12 | 42332113 | F | II | | IGR | opensea | IGR-opense | | rs1458238 | 19;43 |
| cg0702963 | 0.201377 | 0.570614 | 10.32902 | 9.55E-06 | 0.000812 | 4.179942 | 0.469925 | 0.671302 | -0.20138 | 10 | 20253868 | F | II | PLXDC2 | Body | opensea | Body-opens | | rs5496323 | 0 |
| cg1034920 | 0.201049 | 0.450344 | 10.32889 | 9.55E-06 | 0.000812 | 4.179848 | 0.34982 | 0.550869 | -0.20105 | 7 | 37590645 | F | II | | IGR | opensea | IGR-opense | | rs5681701 | 8;49 |
| cg2074494 | 0.210523 | 0.682064 | 10.32787 | 9.55E-06 | 0.000812 | 4.179129 | 0.576803 | 0.787326 | -0.21052 | 5 | 1.27E+08 | F | II | CTXN3 | 5'UTR | opensea | 5'UTR-open | | rs1492638 | 31 |
| cg1016682 | 0.228142 | 0.537786 | 10.32782 | 9.55E-06 | 0.000812 | 4.179092 | 0.423715 | 0.651858 | -0.22814 | 5 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0886897 | 0.225558 | 0.570974 | 10.32713 | 9.56E-06 | 0.000812 | 4.178602 | 0.458195 | 0.683753 | -0.22556 | 2 | 1.11E+08 | R | II | NPHP1 | Body | opensea | Body-opens | | | |
| cg2150394 | 0.216996 | 0.637975 | 10.32566 | 9.57E-06 | 0.000813 | 4.177558 | 0.529477 | 0.746474 | -0.217 | 10 | 75232826 | R | II | PPP3CB | Body | opensea | Body-opens | | | |
| cg1608888 | 0.216698 | 0.574269 | 10.32565 | 9.57E-06 | 0.000813 | 4.177552 | 0.46592 | 0.682618 | -0.2167 | 20 | 56042945 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0803614 | 0.257185 | 0.578898 | 10.32561 | 9.57E-06 | 0.000813 | 4.177523 | 0.450305 | 0.70749 | -0.25719 | 17 | 8484764 | R | II | MYH10 | Body | opensea | Body-opens | | rs1429598 | 29 |
| cg1649668 | 0.224536 | 0.649322 | 10.32344 | 9.58E-06 | 0.000813 | 4.17599 | 0.537054 | 0.76159 | -0.22454 | 9 | 1.13E+08 | R | II | SVEP1 | Body | opensea | Body-opens | | rs5650024 | 3 |
| cg0389964 | 0.212453 | 0.549684 | 10.32125 | 9.6E-06 | 0.000814 | 4.174433 | 0.443457 | 0.65591 | -0.21245 | 1 | 90205170 | F | II | | IGR | opensea | IGR-opense | | rs1180276 | 39 |
| cg1897247 | 0.213185 | 0.580545 | 10.32125 | 9.6E-06 | 0.000814 | 4.174431 | 0.473952 | 0.687138 | -0.21319 | 10 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5334580 | 16;17;41 |
| cg0311737 | 0.218497 | 0.485286 | 10.3201 | 9.6E-06 | 0.000814 | 4.173618 | 0.376038 | 0.594535 | -0.2185 | 20 | 17943971 | R | II | SNORD17 | TSS1500 | opensea | TSS1500-op | | rs7510161 | 44;41;1 |
| cg1987622 | 0.271569 | 0.408102 | 10.32008 | 9.6E-06 | 0.000814 | 4.173605 | 0.272317 | 0.543886 | -0.27157 | 7 | 12641129 | F | II | SCIN | Body | opensea | Body-opens | | rs1882068 | 8;16;23 |
| cg0749309 | 0.210859 | 0.554048 | 10.3182 | 9.62E-06 | 0.000814 | 4.172273 | 0.448619 | 0.659477 | -0.21086 | 2 | 1.59E+08 | F | II | UPP2 | TSS1500 | opensea | TSS1500-op | | rs1842775 | 5;11 |
| cg1677438 | 0.215791 | 0.530707 | 10.31467 | 9.64E-06 | 0.000815 | 4.169767 | 0.422811 | 0.638602 | -0.21579 | 7 | 1.43E+08 | F | II | OR6V1 | TSS1500 | opensea | TSS1500-op | | rs5640307 | 0;14 |
| cg0320804 | 0.259482 | 0.548686 | 10.31312 | 9.65E-06 | 0.000816 | 4.168669 | 0.418945 | 0.678427 | -0.25948 | 8 | 59763635 | F | II | TOX | Body | opensea | Body-opens | | rs1125039 | 18;32 |
| cg1633884 | 0.235753 | 0.557235 | 10.31172 | 9.66E-06 | 0.000816 | 4.167678 | 0.439358 | 0.675111 | -0.23575 | 16 | 55738066 | R | II | SLC6A2 | Body | opensea | Body-opens | | rs5588036 | 32;1;0 |
| cg0934138 | 0.237846 | 0.489973 | 10.31153 | 9.66E-06 | 0.000816 | 4.167539 | 0.37105 | 0.608896 | -0.23785 | 8 | 1.05E+08 | R | II | RIMS2 | Body | opensea | Body-opens | | rs5355082 | 28 |
| cg1960702 | 0.233008 | 0.516585 | 10.3101 | 9.67E-06 | 0.000817 | 4.166523 | 0.400081 | 0.633088 | -0.23301 | 5 | 1.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs1816952 | 2;1 |
| cg2675329 | 0.226502 | 0.545047 | 10.30793 | 9.69E-06 | 0.000818 | 4.164985 | 0.431796 | 0.658298 | -0.2265 | 2 | 1.89E+08 | R | II | MIR561 | TSS1500 | shelf | TSS1500-sh | chr2:18915 | rs1840231 | 22 |
| cg1416785 | 0.235747 | 0.537541 | 10.30707 | 9.69E-06 | 0.000818 | 4.164374 | 0.419667 | 0.655415 | -0.23575 | 1 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | rs5877748 | 6;21 |
| cg0447436 | 0.225928 | 0.453652 | 10.30626 | 9.7E-06 | 0.000818 | 4.163802 | 0.340688 | 0.566616 | -0.22593 | 3 | 1.87E+08 | F | II | SNORA4 | TSS200 | shelf | TSS200-she | chr3:18650 | | |
| cg0661690 | 0.205695 | 0.602956 | 10.30467 | 9.71E-06 | 0.000819 | 4.162673 | 0.500108 | 0.705803 | -0.2057 | 1 | 1.73E+08 | F | II | | IGR | opensea | IGR-opense | | rs7650428 | 40 |
| cg2239202 | 0.218557 | 0.626013 | 10.30284 | 9.72E-06 | 0.000819 | 4.161369 | 0.516734 | 0.735292 | -0.21856 | 3 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5423561 | 28;44 |
| cg1683583 | 0.202899 | 0.663152 | 10.30235 | 9.72E-06 | 0.000819 | 4.161024 | 0.561703 | 0.764602 | -0.2029 | 5 | 17269380 | F | II | BASP1 | 5'UTR | opensea | 5'UTR-open | | rs5283578 | 23 |
| cg0569325 | 0.202744 | 0.494781 | 10.30216 | 9.72E-06 | 0.000819 | 4.160891 | 0.393409 | 0.596152 | -0.20274 | 8 | 90479388 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1729422 | 0.213642 | 0.535017 | 10.30191 | 9.73E-06 | 0.000819 | 4.160712 | 0.428196 | 0.641838 | -0.21364 | 3 | 14865505 | R | II | FGD5 | Body | opensea | Body-opens | | rs1144274 | 44;36;10 |
| cg1977633 | 0.223568 | 0.572272 | 10.30108 | 9.73E-06 | 0.000819 | 4.16012 | 0.460489 | 0.684056 | -0.22357 | 11 | 86636890 | R | II | PRSS23 | Body | opensea | Body-opens | | | |
| cg2290905 | 0.235449 | 0.561641 | 10.30094 | 9.73E-06 | 0.000819 | 4.160023 | 0.443917 | 0.679366 | -0.23545 | 4 | 1.66E+08 | R | II | APELA | 3'UTR | opensea | 3'UTR-open | | | |
| cg0418599 | 0.226453 | 0.440369 | 10.30016 | 9.74E-06 | 0.000819 | 4.15947 | 0.327142 | 0.553596 | -0.22645 | 20 | 23380447 | F | II | NAPB | Body | opensea | Body-opens | | rs5730355 | 19 |
| cg1134478 | 0.201132 | 0.672285 | 10.30002 | 9.74E-06 | 0.000819 | 4.159368 | 0.571719 | 0.772851 | -0.20113 | 18 | 44689907 | F | II | IER3IP1 | Body | opensea | Body-opens | | rs5760042 | 32;39 |
| cg2107495 | 0.217138 | 0.600702 | 10.29974 | 9.74E-06 | 0.000819 | 4.159171 | 0.492134 | 0.709271 | -0.21714 | 2 | 2.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5454042 | 26 |
| cg1695905 | 0.206177 | 0.514164 | 10.298 | 9.75E-06 | 0.00082 | 4.157935 | 0.411076 | 0.617253 | -0.20618 | 3 | 87256918 | R | II | | IGR | opensea | IGR-opense | | rs5644155 | 10;1 |
| cg0642879 | 0.204411 | 0.61441 | 10.29744 | 9.76E-06 | 0.00082 | 4.157532 | 0.512204 | 0.716616 | -0.20441 | 19 | 49996158 | F | II | | IGR | shelf | IGR-shelf | chr19:4995 | rs1921896 | 1;28;35;36;49 |
| cg1535824 | 0.228803 | 0.605121 | 10.29387 | 9.78E-06 | 0.000821 | 4.154997 | 0.49072 | 0.719523 | -0.2288 | 15 | 36737547 | R | II | | IGR | opensea | IGR-opense | | rs1120257 | 22 |
| cg1086890 | 0.204437 | 0.459493 | 10.29162 | 9.8E-06 | 0.000821 | 4.153398 | 0.357274 | 0.561711 | -0.20444 | 10 | 1.01E+08 | R | II | CNNM1 | Body | opensea | Body-opens | | rs5605775 | 40;15 |
| cg2149585 | 0.263493 | 0.379535 | 10.29133 | 9.8E-06 | 0.000821 | 4.15319 | 0.247789 | 0.511281 | -0.26349 | 1 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1886349 | 42;2;1 |
| cg0528743 | 0.217539 | 0.578597 | 10.2905 | 9.8E-06 | 0.000822 | 4.152601 | 0.469828 | 0.687367 | -0.21754 | 3 | 16215248 | R | II | GALNTL2 | TSS1500 | opensea | TSS1500-op | | | |
| cg1100522 | 0.206268 | 0.541739 | 10.2903 | 9.81E-06 | 0.000822 | 4.152462 | 0.438605 | 0.644873 | -0.20627 | 1 | 67114525 | R | II | SGIP1 | Body | opensea | Body-opens | | rs1915738 | 18;17;1 |
| cg0449970 | 0.227562 | 0.576219 | 10.28775 | 9.82E-06 | 0.000822 | 4.150645 | 0.462438 | 0.689999 | -0.22756 | 11 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs5779001 | 50;2;1 |
| cg1373868 | 0.274094 | 0.50737 | 10.28717 | 9.83E-06 | 0.000822 | 4.150235 | 0.370322 | 0.644417 | -0.27409 | 3 | 1.86E+08 | R | II | | IGR | opensea | IGR-opense | | rs1918843 | 20;17 |
| cg1521293 | 0.239349 | 0.448794 | 10.28368 | 9.85E-06 | 0.000823 | 4.14775 | 0.32912 | 0.568469 | -0.23935 | 11 | 59223558 | F | II | OR4D6 | TSS1500 | opensea | TSS1500-op | | rs5547363 | 45 |
| cg2759462 | 0.207833 | 0.545793 | 10.28024 | 9.87E-06 | 0.000824 | 4.1453 | 0.441877 | 0.64971 | -0.20783 | 16 | 16002061 | F | II | | IGR | opensea | IGR-opense | | rs5735807 | 1;2;3 |
| cg1327007 | 0.217719 | 0.583724 | 10.27656 | 9.9E-06 | 0.000825 | 4.142682 | 0.474864 | 0.692583 | -0.21772 | 13 | 42987244 | R | II | | IGR | opensea | IGR-opense | | rs5351549 | 6;5;4;1 |
| cg1311507 | 0.217515 | 0.546571 | 10.2755 | 9.91E-06 | 0.000825 | 4.141924 | 0.437813 | 0.655328 | -0.21752 | 3 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs6227769 | 51 |
| cg0329028 | 0.200206 | 0.595616 | 10.27474 | 9.91E-06 | 0.000825 | 4.141383 | 0.495513 | 0.695719 | -0.20021 | 6 | 2632607 | F | II | C6orf195 | 5'UTR | shore | 5'UTR-shor | chr6:26341 | rs1403560 | 5;19 |
| cg0936781 | 0.287327 | 0.591184 | 10.27277 | 9.93E-06 | 0.000826 | 4.139984 | 0.44752 | 0.734847 | -0.28733 | 21 | 30463648 | R | II | MAP3K7CL | TSS1500 | opensea | TSS1500-op | | rs8131128 | 25;17;1 |
| cg2095583 | 0.217173 | 0.466925 | 10.27263 | 9.93E-06 | 0.000826 | 4.139882 | 0.358339 | 0.575511 | -0.21717 | 2 | 1.09E+08 | R | II | SULT1C2 | Body | opensea | Body-opens | | rs5534434 | 29;5;1 |
| cg1389797 | 0.226693 | 0.54101 | 10.27123 | 9.94E-06 | 0.000826 | 4.138883 | 0.427664 | 0.654356 | -0.22669 | 12 | 88928761 | F | II | KITLG | Body | opensea | Body-opens | | rs1183567 | 0;25 |
| cg1334070 | 0.218592 | 0.550435 | 10.27077 | 9.94E-06 | 0.000827 | 4.138556 | 0.441139 | 0.659731 | -0.21859 | 18 | 30091235 | F | II | WBP11P1 | TSS1500 | opensea | TSS1500-op | | rs1159150 | 28;33;42;44 |
| cg2456342 | 0.253396 | 0.609752 | 10.26999 | 9.95E-06 | 0.000827 | 4.137999 | 0.483054 | 0.73645 | -0.2534 | 6 | 1.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs5541432 | 1 |
| cg1113124 | 0.228283 | 0.614773 | 10.26948 | 9.95E-06 | 0.000827 | 4.137638 | 0.500631 | 0.728914 | -0.22828 | 20 | 1396853 | F | II | | IGR | opensea | IGR-opense | | rs1483980 | 0;21;34 |
| cg1971160 | 0.236048 | 0.585395 | 10.26651 | 9.97E-06 | 0.000828 | 4.135518 | 0.467371 | 0.703419 | -0.23605 | 13 | 50033894 | R | II | SETDB2 | Body | opensea | Body-opens | | rs1495988 | 19 |
| cg1361878 | 0.216454 | 0.477749 | 10.26521 | 9.98E-06 | 0.000828 | 4.134598 | 0.369523 | 0.585976 | -0.21645 | 1 | 2.06E+08 | F | II | CDK18 | 3'UTR | shore | 3'UTR-shor | chr1:20545 | rs1124050 | 32;35 |
| cg1803101 | 0.207716 | 0.643399 | 10.26474 | 9.98E-06 | 0.000828 | 4.134262 | 0.539542 | 0.747257 | -0.20772 | 10 | 14499148 | F | II | | IGR | opensea | IGR-opense | | rs1404087 | 1;13;35 |
| cg1706204 | 0.203509 | 0.665087 | 10.26306 | 9.99E-06 | 0.000828 | 4.133063 | 0.563332 | 0.766842 | -0.20351 | 7 | 80803564 | F | II | | IGR | opensea | IGR-opense | | rs5462638 | 30;34;47 |
| cg0474987 | 0.260779 | 0.570265 | 10.263 | 9.99E-06 | 0.000828 | 4.133016 | 0.439875 | 0.700655 | -0.26078 | 8 | 71039880 | R | II | NCOA2 | Body | opensea | Body-opens | | rs1146388 | 16;1 |
| cg0972528 | 0.22857 | 0.617618 | 10.26047 | 1E-05 | 0.000829 | 4.131213 | 0.503333 | 0.731903 | -0.22857 | 8 | 1.34E+08 | R | II | | IGR | opensea | IGR-opense | | rs1181422 | 25;22 |
| cg1958505 | 0.25447 | 0.493061 | 10.25963 | 1E-05 | 0.000829 | 4.130617 | 0.365826 | 0.620296 | -0.25447 | 7 | 85103687 | R | II | | IGR | opensea | IGR-opense | | rs2091086 | 18;1 |
| cg1447205 | 0.227864 | 0.598135 | 10.25951 | 1E-05 | 0.000829 | 4.130527 | 0.484202 | 0.712067 | -0.22786 | 2 | 2.07E+08 | R | II | NRP2 | Body | opensea | Body-opens | | rs1904355 | 45;1 |
| cg0264622 | 0.237375 | 0.502275 | 10.25946 | 1E-05 | 0.000829 | 4.130494 | 0.383588 | 0.620963 | -0.23737 | 2 | 2.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs5379568 | 0;1;6;15 |
| cg0439675 | 0.215869 | 0.549207 | 10.2592 | 1E-05 | 0.000829 | 4.130311 | 0.441272 | 0.657142 | -0.21587 | 2 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1447270 | 0.2191 | 0.594301 | 10.25807 | 1E-05 | 0.000829 | 4.129503 | 0.484751 | 0.70385 | -0.2191 | 3 | 1.02E+08 | F | II | NXPE3 | 3'UTR | opensea | 3'UTR-open | | rs6795426 | 6;50 |
| cg2669461 | 0.202994 | 0.740908 | 10.258 | 1E-05 | 0.000829 | 4.12945 | 0.639411 | 0.842405 | -0.20299 | 9 | 21017267 | R | II | HACD4 | Body | opensea | Body-opens | | rs5776822 | 35;34;29;21 |
| cg2352040 | 0.21018 | 0.58193 | 10.25608 | 1E-05 | 0.00083 | 4.128084 | 0.47684 | 0.68702 | -0.21018 | 4 | 41388199 | R | II | LIMCH1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1176591 | 0.21056 | 0.588197 | 10.25535 | 1E-05 | 0.00083 | 4.127559 | 0.482917 | 0.693477 | -0.21056 | 19 | 7926080 | F | II | EVI5L | Body | shore | Body-shore | chr19:7925 | rs5391506 | 19 |
| cg2006937 | 0.207567 | 0.495299 | 10.25469 | 1.01E-05 | 0.00083 | 4.12709 | 0.391516 | 0.599083 | -0.20757 | 10 | 98117247 | R | II | OPALIN | 5'UTR | opensea | 5'UTR-open | | rs5600164 | 27 |
| cg2658624 | 0.201805 | 0.603518 | 10.25436 | 1.01E-05 | 0.00083 | 4.126857 | 0.502616 | 0.704421 | -0.20181 | 2 | 9731123 | R | II | YWHAQ | Body | opensea | Body-opens | | rs3722789 | 14;1 |
| cg2279083 | 0.232258 | 0.528855 | 10.25295 | 1.01E-05 | 0.00083 | 4.125851 | 0.412725 | 0.644984 | -0.23226 | 5 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs5359846 | 38;15;1 |
| cg1016731 | 0.240108 | 0.504281 | 10.25134 | 1.01E-05 | 0.000831 | 4.124698 | 0.384227 | 0.624335 | -0.24011 | 15 | 70115869 | R | II | | IGR | opensea | IGR-opense | | rs1435769 | 45 |
| cg1479476 | 0.222388 | 0.610178 | 10.25101 | 1.01E-05 | 0.000831 | 4.124467 | 0.498984 | 0.721372 | -0.22239 | 8 | 1.25E+08 | F | II | FER1L6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1871373 | 0.201838 | 0.396808 | 10.25068 | 1.01E-05 | 0.000831 | 4.124227 | 0.295889 | 0.497727 | -0.20184 | 22 | 28101490 | F | II | | IGR | opensea | IGR-opense | | rs5633913 | 9 |
| cg0388950 | 0.208588 | 0.539953 | 10.25018 | 1.01E-05 | 0.000831 | 4.123873 | 0.435659 | 0.644247 | -0.20859 | 5 | 33309433 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0647717 | 0.221866 | 0.530088 | 10.24967 | 1.01E-05 | 0.000831 | 4.123505 | 0.419155 | 0.641021 | -0.22187 | 15 | 34533266 | F | II | SLC12A6 | Body | opensea | Body-opens | | rs1861525 | 0 |
| cg1609940 | 0.231641 | 0.550892 | 10.24812 | 1.01E-05 | 0.000832 | 4.1224 | 0.435071 | 0.666713 | -0.23164 | 2 | 2.02E+08 | R | II | STRADB | Body | opensea | Body-opens | | rs1815644 | 35;7;2;1 |
| cg2231890 | 0.245206 | 0.442101 | 10.24665 | 1.01E-05 | 0.000832 | 4.121347 | 0.319498 | 0.564704 | -0.24521 | 13 | 34253578 | R | II | | IGR | opensea | IGR-opense | | rs7316399 | 11;2 |
| cg0007597 | 0.221006 | 0.536708 | 10.24642 | 1.01E-05 | 0.000832 | 4.121188 | 0.426205 | 0.647211 | -0.22101 | 1 | 2.3E+08 | F | II | PGBD5 | Body | shore | Body-shore | chr1:23045 | rs1833643 | 1;19 |
| cg0143674 | 0.228683 | 0.605083 | 10.24498 | 1.01E-05 | 0.000832 | 4.12016 | 0.490742 | 0.719425 | -0.22868 | 5 | 1.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs5313048 | 29;19 |
| cg1028815 | 0.222515 | 0.607118 | 10.24449 | 1.01E-05 | 0.000832 | 4.119809 | 0.49586 | 0.718376 | -0.22252 | 3 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1390244 | 1 |
| cg2239245 | 0.229757 | 0.510348 | 10.24414 | 1.01E-05 | 0.000832 | 4.119561 | 0.395469 | 0.625226 | -0.22976 | 6 | 10839494 | F | II | MAK | TSS1500 | shore | TSS1500-sh | chr6:10831 | rs5466470 | 34 |
| cg0876146 | 0.202757 | 0.56627 | 10.24395 | 1.01E-05 | 0.000832 | 4.119421 | 0.464891 | 0.667649 | -0.20276 | 16 | 87118888 | R | II | | IGR | opensea | IGR-opense | | rs1459520 | 1 |
| cg0759982 | 0.222231 | 0.429007 | 10.24189 | 1.01E-05 | 0.000833 | 4.117948 | 0.317892 | 0.540122 | -0.22223 | 17 | 30053217 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1559860 | 0.230911 | 0.659965 | 10.24189 | 1.01E-05 | 0.000833 | 4.117948 | 0.544509 | 0.77542 | -0.23091 | 18 | 52339396 | F | II | | IGR | opensea | IGR-opense | | rs1416627 | 0;1;25;43 |
| cg1250217 | 0.21075 | 0.643254 | 10.24053 | 1.02E-05 | 0.000833 | 4.116975 | 0.537879 | 0.748629 | -0.21075 | 12 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | | rs1427256 | 1;30 |
| cg1630214 | 0.200554 | 0.506643 | 10.23946 | 1.02E-05 | 0.000834 | 4.116213 | 0.406366 | 0.60692 | -0.20055 | 6 | 5094765 | F | II | LOC100129 | Body | opensea | Body-opens | | rs1442156 | 8;31 |
| cg1273254 | 0.205259 | 0.587452 | 10.23942 | 1.02E-05 | 0.000834 | 4.116184 | 0.484823 | 0.690081 | -0.20526 | 15 | 40631573 | R | II | C15orf52 | Body | opensea | Body-opens | | rs5465050 | 35;1 |
| cg1291542 | 0.212763 | 0.491024 | 10.2391 | 1.02E-05 | 0.000834 | 4.115955 | 0.384642 | 0.597406 | -0.21276 | 3 | 28615891 | F | II | LINC00693 | TSS1500 | shore | TSS1500-sh | chr3:2861 | rs5753153 | 0 |
| cg1165092 | 0.221744 | 0.495254 | 10.23801 | 1.02E-05 | 0.000834 | 4.115178 | 0.384382 | 0.606125 | -0.22174 | 1 | 68490241 | F | II | | IGR | opensea | IGR-opense | | rs5681466 | 9 |
| cg1040107 | 0.232919 | 0.434527 | 10.23689 | 1.02E-05 | 0.000834 | 4.114378 | 0.318068 | 0.550987 | -0.23292 | 1 | 66673501 | R | II | PDE4B | Body | opensea | Body-opens | | rs5399550 | 45;26;24;1 |
| cg2076985 | 0.212399 | 0.540267 | 10.23411 | 1.02E-05 | 0.000835 | 4.112385 | 0.434068 | 0.646467 | -0.2124 | 13 | 31422123 | F | II | | IGR | opensea | IGR-opense | | rs3735062 | 24;25;48 |
| cg1611219 | 0.20483 | 0.431568 | 10.23384 | 1.02E-05 | 0.000835 | 4.112193 | 0.329153 | 0.533983 | -0.20483 | 4 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs1907632 | 1 |
| cg2097229 | 0.20683 | 0.528961 | 10.23312 | 1.02E-05 | 0.000835 | 4.111679 | 0.425546 | 0.632377 | -0.20683 | 11 | 1.33E+08 | R | II | OPCML | Body | opensea | Body-opens | | rs5310502 | 24 |
| cg1177427 | 0.228521 | 0.569946 | 10.23286 | 1.02E-05 | 0.000835 | 4.111492 | 0.455686 | 0.684207 | -0.22852 | 17 | 49110507 | R | II | SPAG9 | Body | opensea | Body-opens | | rs5492084 | 2 |
| cg1486067 | 0.211529 | 0.620397 | 10.23243 | 1.02E-05 | 0.000835 | 4.111188 | 0.514633 | 0.726162 | -0.21153 | 20 | 48393157 | R | II | | IGR | opensea | IGR-opense | | rs5372613 | 28;14 |
| cg2111986 | 0.214428 | 0.627966 | 10.2323 | 1.02E-05 | 0.000835 | 4.111094 | 0.520752 | 0.73518 | -0.21443 | 8 | 82374723 | F | II | FABP9 | TSS1500 | opensea | TSS1500-op | | rs5747548 | 0;47 |
| cg1382857 | 0.214562 | 0.587192 | 10.2314 | 1.02E-05 | 0.000835 | 4.110453 | 0.479911 | 0.694473 | -0.21456 | 9 | 1.24E+08 | F | II | GSN | Body | opensea | Body-opens | | rs1172664 | 0 |
| cg0266335 | 0.206035 | 0.615101 | 10.23112 | 1.02E-05 | 0.000835 | 4.110246 | 0.512083 | 0.718118 | -0.20603 | 11 | 35167041 | R | II | CD44 | Body | opensea | Body-opens | | rs5338040 | 1 |
| cg1381538 | 0.215044 | 0.639115 | 10.23013 | 1.02E-05 | 0.000836 | 4.109542 | 0.531593 | 0.746637 | -0.21504 | 5 | 32642264 | F | II | | IGR | opensea | IGR-opense | | rs818131 | 26 |
| cg0167462 | 0.251489 | 0.456989 | 10.2298 | 1.02E-05 | 0.000836 | 4.109308 | 0.331245 | 0.582734 | -0.25149 | 7 | 1.06E+08 | R | II | NAMPT | Body | opensea | Body-opens | | rs5367027 | 21 |
| cg0307063 | 0.230057 | 0.473749 | 10.22859 | 1.02E-05 | 0.000836 | 4.108437 | 0.358721 | 0.588778 | -0.23006 | 2 | 1991629 | R | II | MYT1L | 5'UTR | opensea | 5'UTR-open | | rs7459586 | 43;29;2 |
| cg1270211 | 0.230057 | 0.509018 | 10.22678 | 1.02E-05 | 0.000836 | 4.107145 | 0.393989 | 0.624046 | -0.23006 | 7 | 90337268 | R | II | CDK14 | TSS1500 | opensea | TSS1500-op | | rs5492741 | 15;1 |
| cg2537656 | 0.206232 | 0.716311 | 10.22669 | 1.03E-05 | 0.000836 | 4.107077 | 0.613195 | 0.819427 | -0.20623 | 2 | 60065508 | F | II | | IGR | opensea | IGR-opense | | rs5377228 | 7;23 |
| cg1390098 | 0.239827 | 0.58929 | 10.22457 | 1.03E-05 | 0.000837 | 4.105565 | 0.469377 | 0.709204 | -0.23983 | 14 | 90730393 | R | II | PSMC1 | ExonBnd | opensea | ExonBnd-op | | rs1337938 | 43;2 |
| cg1453356 | 0.274217 | 0.450676 | 10.22443 | 1.03E-05 | 0.000837 | 4.105464 | 0.313567 | 0.587784 | -0.27422 | 3 | 52705872 | R | II | PBRM1 | Body | opensea | Body-opens | | rs5497009 | 33;22 |
| cg1307894 | 0.230393 | 0.572489 | 10.22356 | 1.03E-05 | 0.000837 | 4.104839 | 0.457292 | 0.687685 | -0.23039 | 1 | 10463746 | R | II | PGD | Body | shelf | Body-shelf | chr1:10455 | | |
| cg1195974 | 0.219222 | 0.599453 | 10.22266 | 1.03E-05 | 0.000837 | 4.104193 | 0.489842 | 0.709064 | -0.21922 | 12 | 50321909 | R | II | | IGR | opensea | IGR-opense | | rs1164898 | 16;2 |
| cg1690517 | 0.214288 | 0.581104 | 10.22231 | 1.03E-05 | 0.000837 | 4.103946 | 0.47396 | 0.688248 | -0.21429 | 10 | 27258099 | R | II | | IGR | opensea | IGR-opense | | rs3431952 | 37 |
| cg0537267 | 0.202354 | 0.520802 | 10.2211 | 1.03E-05 | 0.000837 | 4.103079 | 0.419625 | 0.62198 | -0.20235 | 15 | 48064730 | F | II | SEMA6D | 3'UTR | opensea | 3'UTR-open | | rs1119038 | 27 |
| cg2084005 | 0.206203 | 0.624729 | 10.22078 | 1.03E-05 | 0.000837 | 4.102849 | 0.521628 | 0.727831 | -0.2062 | 2 | 1.28E+08 | R | II | LIMS2 | Body | shore | Body-shore | chr2:12841 | rs2083050 | 14 |
| cg0867858 | 0.203317 | 0.530104 | 10.2207 | 1.03E-05 | 0.000837 | 4.10279 | 0.428446 | 0.631763 | -0.20332 | 21 | 38531638 | R | II | TTC3 | Body | opensea | Body-opens | | rs1071263 | 23 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0749071 | 0.213244 | 0.605812 | 10.22038 | 1.03E-05 | 0.000837 | 4.102561 | 0.49919 | 0.712434 | -0.21324 | 2 | 39744451 | R | II | | IGR | opensea | IGR-opense | | rs1866953 | 26 | | | |
| cg2573408 | 0.278311 | 0.424532 | 10.21984 | 1.03E-05 | 0.000837 | 4.102178 | 0.285377 | 0.563688 | -0.27831 | 19 | 46969919 | R | II | PNMAL1 | 3'UTR | opensea | 3'UTR-open | | rs5658754 | 36 | | | |
| cg1009482 | 0.227623 | 0.450159 | 10.21913 | 1.03E-05 | 0.000838 | 4.101667 | 0.336348 | 0.563971 | -0.22762 | 10 | 8642275 | R | II | | IGR | opensea | IGR-opense | | rs5321476 | 40;38;25 | | | |
| cg2394234 | 0.204664 | 0.671366 | 10.21848 | 1.03E-05 | 0.000838 | 4.101203 | 0.569034 | 0.773698 | -0.20466 | 12 | 57858027 | R | II | GLI1 | 5'UTR | opensea | 5'UTR-open | | rs5382328 | 33;21;18;14;13;6 | | | |
| cg2045528 | 0.21106 | 0.665955 | 10.2165 | 1.03E-05 | 0.000838 | 4.099784 | 0.560425 | 0.771485 | -0.21106 | 20 | 2293532 | R | II | TGM3 | ExonBnd | opensea | ExonBnd-o | | rs2003085 | 34;1 | | | |
| cg2709098 | 0.20711 | 0.630746 | 10.21572 | 1.03E-05 | 0.000838 | 4.099226 | 0.527191 | 0.734301 | -0.20711 | 3 | 9789110 | F | II | BRPF1 | 3'UTR | shelf | 3'UTR-shelf | chr3 | 9791 | rs5314948 | 48 | | |
| cg0814986 | 0.226022 | 0.547266 | 10.21506 | 1.03E-05 | 0.000839 | 4.098752 | 0.434255 | 0.660277 | -0.22602 | 21 | 24264513 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0866164 | 0.22526 | 0.658781 | 10.21436 | 1.03E-05 | 0.000839 | 4.098253 | 0.546151 | 0.771411 | -0.22526 | 8 | 19964604 | R | II | | IGR | opensea | IGR-opense | | rs5661705 | 47;2 | | | |
| cg0791308 | 0.250974 | 0.679446 | 10.21424 | 1.03E-05 | 0.000839 | 4.098166 | 0.553959 | 0.804933 | -0.25097 | 3 | 18278830 | F | II | LOC33986 | Body | opensea | Body-opens | | rs5380826 | 0;39 | | | |
| cg1485645 | 0.221392 | 0.63626 | 10.21402 | 1.03E-05 | 0.000839 | 4.098008 | 0.525564 | 0.746955 | -0.22139 | 17 | 36076623 | F | II | HNF1B | Body | opensea | Body-opens | | rs5411615 | 46 | | | |
| cg1669256 | 0.242261 | 0.60223 | 10.21358 | 1.03E-05 | 0.000839 | 4.097688 | 0.481099 | 0.72336 | -0.24226 | 2 | 39135866 | R | II | | IGR | opensea | IGR-opense | | rs1463480 | 20 | | | |
| cg2399175 | 0.230446 | 0.585818 | 10.21129 | 1.04E-05 | 0.00084 | 4.096046 | 0.470595 | 0.701042 | -0.23045 | 21 | 30266046 | R | II | | IGR | opensea | IGR-opense | | rs5626043 | 30 | | | |
| cg2029880 | 0.201694 | 0.633758 | 10.20774 | 1.04E-05 | 0.000841 | 4.093503 | 0.532911 | 0.734605 | -0.20169 | 4 | 75955358 | F | II | PARM1 | Body | opensea | Body-opens | | rs1700010 | 12 | | | |
| cg0677167 | 0.202304 | 0.624728 | 10.20536 | 1.04E-05 | 0.000841 | 4.0918 | 0.523576 | 0.72588 | -0.2023 | 7 | 1.15E+08 | F | II | LINC01393 | TSS1500 | opensea | TSS1500-o | | | | | | |
| cg2110556 | 0.201868 | 0.564287 | 10.202 | 1.04E-05 | 0.000842 | 4.089385 | 0.463352 | 0.665221 | -0.20187 | 11 | 19218301 | F | II | CSRP3 | 5'UTR | opensea | 5'UTR-open | | rs5717534 | 0 | | | |
| cg0724323 | 0.206306 | 0.651236 | 10.2 | 1.04E-05 | 0.000842 | 4.087952 | 0.548083 | 0.754389 | -0.20631 | 5 | 80508236 | R | II | RASGRF2 | Body | opensea | Body-opens | | rs1475515 | 22;14 | | | |
| cg0089004 | 0.205861 | 0.523758 | 10.19902 | 1.05E-05 | 0.000843 | 4.087247 | 0.420828 | 0.626688 | -0.20586 | 6 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5707477 | 0;1 | | | |
| cg1760500 | 0.229798 | 0.523778 | 10.19811 | 1.05E-05 | 0.000843 | 4.086592 | 0.408879 | 0.638677 | -0.2298 | 2 | 20776435 | F | II | | IGR | opensea | IGR-opense | | rs1828360 | 0;18;50 | | | |
| cg1326155 | 0.206287 | 0.534524 | 10.19772 | 1.05E-05 | 0.000843 | 4.086316 | 0.431381 | 0.637668 | -0.20629 | 7 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5290719 | 0;51 | | | |
| cg1165541 | 0.237376 | 0.569331 | 10.19772 | 1.05E-05 | 0.000843 | 4.086315 | 0.450643 | 0.688019 | -0.23738 | 7 | 78870151 | R | II | MAGI2 | Body | opensea | Body-opens | | rs5519685 | 49 | | | |
| cg0107075 | 0.206835 | 0.459047 | 10.19429 | 1.05E-05 | 0.000844 | 4.083856 | 0.355629 | 0.562464 | -0.20683 | 6 | 12372429 | F | II | | IGR | opensea | IGR-opense | | rs5320795 | 21;37 | | | |
| cg2599023 | 0.229429 | 0.577557 | 10.19418 | 1.05E-05 | 0.000844 | 4.083772 | 0.462842 | 0.692271 | -0.22943 | 11 | 1.25E+08 | R | II | ROBO4 | Body | opensea | Body-opens | | rs1489388 | 48;47;33;16;5;2;1 | | | |
| cg0173222 | 0.210344 | 0.570595 | 10.19375 | 1.05E-05 | 0.000844 | 4.083463 | 0.465423 | 0.675766 | -0.21034 | 11 | 4659876 | R | II | OR51D1 | TSS1500 | opensea | TSS1500-o | | rs5618765 | 47;20 | | | |
| cg0637953 | 0.201448 | 0.705876 | 10.19364 | 1.05E-05 | 0.000844 | 4.08339 | 0.605152 | 0.8066 | -0.20145 | 3 | 32898362 | F | II | TRIM71 | Body | opensea | Body-opens | | rs5299820 | 17;20;22 | | | |
| cg1122651 | 0.220337 | 0.546305 | 10.19236 | 1.05E-05 | 0.000844 | 4.08247 | 0.436137 | 0.656474 | -0.22034 | 12 | 55076393 | R | II | | IGR | opensea | IGR-opense | | rs5504472 | 43;1 | | | |
| cg0070459 | 0.229608 | 0.583178 | 10.19035 | 1.05E-05 | 0.000845 | 4.081021 | 0.468375 | 0.697982 | -0.22961 | 7 | 92534346 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5653493 | 20 | | | |
| cg2640892 | 0.227275 | 0.536546 | 10.1892 | 1.05E-05 | 0.000846 | 4.080195 | 0.422908 | 0.650183 | -0.22728 | 3 | 53759723 | F | II | CACNA1D | Body | opensea | Body-opens | | rs5553138 | 0;26;34 | | | |
| cg1330420 | 0.237175 | 0.419563 | 10.18724 | 1.05E-05 | 0.000846 | 4.078793 | 0.300976 | 0.538151 | -0.23717 | 4 | 40562130 | F | II | RBM47 | 5'UTR | opensea | 5'UTR-open | | rs3749506 | 0;14 | | | |
| cg0302600 | 0.206012 | 0.503678 | 10.18716 | 1.05E-05 | 0.000846 | 4.078733 | 0.400672 | 0.606684 | -0.20601 | 18 | 6833417 | R | II | ARHGAP28 | TSS1500 | opensea | TSS1500-o | | rs5751656 | 42;2 | | | |
| cg2041103 | 0.210717 | 0.441643 | 10.18621 | 1.05E-05 | 0.000846 | 4.078047 | 0.336285 | 0.547002 | -0.21072 | 2 | 1.9E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0832950 | 0.238023 | 0.377747 | 10.18556 | 1.05E-05 | 0.000846 | 4.077585 | 0.258735 | 0.496759 | -0.23802 | 9 | 79056558 | F | II | GCNT1 | TSS200 | opensea | TSS200-ope | | rs5442034 | 0;5 | | | |
| cg1399762 | 0.22116 | 0.590375 | 10.18434 | 1.06E-05 | 0.000846 | 4.076703 | 0.479795 | 0.700955 | -0.22116 | 15 | 51641258 | F | II | GLDN | Body | opensea | Body-opens | | rs1417915 | 1;23;25 | | | |
| cg0375227 | 0.205351 | 0.565813 | 10.18373 | 1.06E-05 | 0.000846 | 4.076267 | 0.463138 | 0.668489 | -0.20535 | 12 | 2977347 | F | II | FOXM1 | Body | opensea | Body-opens | | rs1927248 | 1;21;22 | | | |
| cg1483451 | 0.21466 | 0.569175 | 10.18229 | 1.06E-05 | 0.000846 | 4.075234 | 0.461845 | 0.676505 | -0.21466 | 3 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1751370 | 0.223907 | 0.531836 | 10.18098 | 1.06E-05 | 0.000847 | 4.074292 | 0.419882 | 0.64379 | -0.22391 | 1 | 2.48E+08 | F | II | OR2G3 | TSS1500 | opensea | TSS1500-o | | rs1425811 | 1;5 | | | |
| cg1899015 | 0.222051 | 0.509634 | 10.18036 | 1.06E-05 | 0.000847 | 4.073845 | 0.398609 | 0.62066 | -0.22205 | 2 | 27166550 | R | II | DPYSL5 | Body | opensea | Body-opens | | rs1880314 | 32;8 | | | |
| cg1026920 | 0.2042 | 0.446577 | 10.18032 | 1.06E-05 | 0.000847 | 4.073819 | 0.344477 | 0.548678 | -0.2042 | 6 | 10237806 | R | II | | IGR | opensea | IGR-opense | | rs5481839 | 33;28;1 | | | |
| cg1304895 | 0.209472 | 0.496672 | 10.17691 | 1.06E-05 | 0.000848 | 4.071365 | 0.391936 | 0.601408 | -0.20947 | 7 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs7797904 | 30;19;3;2;1 | | | |
| cg2277189 | 0.2626 | 0.51584 | 10.17602 | 1.06E-05 | 0.000848 | 4.070724 | 0.384539 | 0.64714 | -0.2626 | 8 | 17613996 | R | II | MTUS1 | 5'UTR | opensea | 5'UTR-open | | rs5499932 | 49;2;1 | | | |
| cg1035268 | 0.265884 | 0.56273 | 10.17522 | 1.06E-05 | 0.000848 | 4.070148 | 0.429788 | 0.695671 | -0.26588 | 21 | 17406587 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1168371 | 0.240946 | 0.583219 | 10.17516 | 1.06E-05 | 0.000848 | 4.070108 | 0.462746 | 0.703692 | -0.24095 | 5 | 1.6E+08 | R | II | | IGR | opensea | IGR-opense | | rs1497242 | 15;1 | | | |
| cg2478357 | 0.211294 | 0.615984 | 10.17508 | 1.06E-05 | 0.000848 | 4.070046 | 0.510336 | 0.721631 | -0.21129 | 20 | 12297171 | R | II | | IGR | opensea | IGR-opense | | rs1137941 | 43;33;19;1 | | | |
| cg2586731 | 0.214274 | 0.473198 | 10.1745 | 1.06E-05 | 0.000848 | 4.06963 | 0.366061 | 0.580335 | -0.21427 | 17 | 40494745 | F | II | STAT3 | Body | opensea | Body-opens | | rs5625963 | 27 | | | |
| cg1405720 | 0.23663 | 0.610823 | 10.17438 | 1.06E-05 | 0.000848 | 4.069544 | 0.492509 | 0.729138 | -0.23663 | 2 | 39659093 | F | II | MAP4K3 | Body | opensea | Body-opens | | rs7950591 | 1;15;24;45 | | | |
| cg2350783 | 0.245969 | 0.414151 | 10.17433 | 1.06E-05 | 0.000848 | 4.069507 | 0.291166 | 0.537136 | -0.24597 | 3 | 1.84E+08 | F | II | | IGR | opensea | IGR-opense | | rs1159349 | 0;1 | | | |
| cg0027582 | 0.228671 | 0.502629 | 10.17404 | 1.06E-05 | 0.000848 | 4.069297 | 0.388294 | 0.616965 | -0.22867 | 17 | 39222690 | R | II | KRTAP2-4 | TSS1500 | opensea | TSS1500-o | | rs5367711 | 20;18;1 | | | |
| cg2277801 | 0.213391 | 0.589964 | 10.17297 | 1.06E-05 | 0.000848 | 4.068526 | 0.483269 | 0.69666 | -0.21339 | 4 | 1.1E+08 | R | II | COL25A1 | Body | opensea | Body-opens | | | | | | |
| cg0867599 | 0.248351 | 0.522115 | 10.17272 | 1.06E-05 | 0.000848 | 4.068349 | 0.39794 | 0.646291 | -0.24835 | 7 | 1.31E+08 | F | II | LINC-PINT | Body | opensea | Body-opens | | | | | | |
| cg2082087 | 0.214262 | 0.740931 | 10.17134 | 1.07E-05 | 0.000849 | 4.067353 | 0.633799 | 0.848062 | -0.21426 | 21 | 37741721 | F | II | MORC3 | Body | opensea | Body-opens | | rs5714799 | 23;26 | | | |
| cg1548626 | 0.203692 | 0.548862 | 10.17123 | 1.07E-05 | 0.000849 | 4.067279 | 0.447016 | 0.650708 | -0.20369 | 6 | 1.4E+08 | R | II | | IGR | opensea | IGR-opense | | rs5581060 | 36;20 | | | |
| cg0393355 | 0.230272 | 0.66858 | 10.168 | 1.07E-05 | 0.000849 | 4.064949 | 0.553443 | 0.783716 | -0.23027 | 18 | 55906325 | F | II | NEDD4L | Body | opensea | Body-opens | | rs3736775 | 1;25;26 | | | |
| cg2483613 | 0.206683 | 0.599236 | 10.16679 | 1.07E-05 | 0.00085 | 4.064079 | 0.495895 | 0.702578 | -0.20668 | 15 | 95561441 | F | II | | IGR | opensea | IGR-opense | | rs7565296 | 0 | | | |
| cg1492584 | 0.276519 | 0.449926 | 10.16677 | 1.07E-05 | 0.00085 | 4.064063 | 0.311667 | 0.588186 | -0.27652 | 21 | 35790214 | F | II | | IGR | opensea | IGR-opense | | rs5487386 | 6;14;32;34 | | | |
| cg2220713 | 0.20511 | 0.560973 | 10.16471 | 1.07E-05 | 0.00085 | 4.062585 | 0.458417 | 0.663528 | -0.20511 | 15 | 59467736 | F | II | MYO1E | Body | opensea | Body-opens | | rs5634345 | 0;1;37 | | | |
| cg1199357 | 0.208784 | 0.549212 | 10.16411 | 1.07E-05 | 0.00085 | 4.062148 | 0.44482 | 0.653604 | -0.20878 | 7 | 18509097 | F | II | HDAC9 | Body | opensea | Body-opens | | rs2855830 | 5;13;17;29;44 | | | |
| cg0476219 | 0.22202 | 0.391799 | 10.16397 | 1.07E-05 | 0.00085 | 4.062053 | 0.280789 | 0.502809 | -0.22202 | 1 | 1.81E+08 | F | II | | IGR | opensea | IGR-opense | | rs1931272 | 20;43 | | | |
| cg0322263 | 0.214966 | 0.687679 | 10.16258 | 1.07E-05 | 0.00085 | 4.061048 | 0.580196 | 0.795162 | -0.21497 | 11 | 1.11E+08 | F | II | LAYN | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg0401147 | 0.20288 | 0.651992 | 10.16255 | 1.07E-05 | 0.00085 | 4.061024 | 0.550552 | 0.753432 | -0.20288 | 2 | 28904455 | R | II | | IGR | opensea | IGR-opense | | rs5478775 | 1 | | | |
| cg1385683 | 0.247707 | 0.608922 | 10.16242 | 1.07E-05 | 0.00085 | 4.060935 | 0.485069 | 0.732776 | -0.24771 | 3 | 1.57E+08 | F | II | LINC00886 | Body | opensea | Body-opens | | rs5392272 | 1 | | | |
| cg0923644 | 0.212454 | 0.520442 | 10.1615 | 1.07E-05 | 0.00085 | 4.06027 | 0.414215 | 0.626669 | -0.21245 | 3 | 73591147 | F | II | PDZRN3 | Body | opensea | Body-opens | | rs5326919 | 0;26 | | | |
| cg2487559 | 0.204246 | 0.657164 | 10.15991 | 1.07E-05 | 0.000851 | 4.059129 | 0.555042 | 0.759287 | -0.20425 | 2 | 79363761 | R | II | REG1P | Body | opensea | Body-opens | | rs5471295 | 21;2 | | | |
| cg0376817 | 0.213144 | 0.561809 | 10.1589 | 1.07E-05 | 0.000851 | 4.0584 | 0.455238 | 0.668381 | -0.21314 | 14 | 1.01E+08 | R | II | MEG3 | Body | shelf | Body-shelf | chr14 | 1011 | | | | |
| cg1359041 | 0.247406 | 0.500516 | 10.15787 | 1.08E-05 | 0.000851 | 4.057658 | 0.376813 | 0.624219 | -0.24741 | 20 | 43209782 | R | II | PKIG | TSS1500 | opensea | TSS1500-o | | rs5624246 | 40;1 | | | |
| cg2699224 | 0.227643 | 0.497466 | 10.15596 | 1.08E-05 | 0.000852 | 4.056277 | 0.383644 | 0.611287 | -0.22764 | 8 | 29848579 | R | II | | IGR | opensea | IGR-opense | | rs5704616 | 48;32 | | | |
| cg2147730 | 0.22388 | 0.512762 | 10.155 | 1.08E-05 | 0.000852 | 4.055587 | 0.400822 | 0.624702 | -0.22388 | 20 | 46701128 | R | II | | IGR | opensea | IGR-opense | | rs5744122 | 2 | | | |
| cg2055938 | 0.23233 | 0.509087 | 10.15497 | 1.08E-05 | 0.000852 | 4.055567 | 0.392922 | 0.625252 | -0.23233 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2038076 | 0.263204 | 0.591134 | 10.15452 | 1.08E-05 | 0.000852 | 4.055244 | 0.459532 | 0.722736 | -0.2632 | 7 | 1.3E+08 | F | II | MEST | TSS1500 | shore | TSS1500-sh | chr7 | 13011 | rs5505774 | 37 | | |
| cg1410939 | 0.203088 | 0.392975 | 10.15449 | 1.08E-05 | 0.000852 | 4.055221 | 0.291431 | 0.494518 | -0.20309 | 13 | 61390507 | R | II | | IGR | opensea | IGR-opense | | rs1465286 | 19;8;2 | | | |
| cg1299544 | 0.219079 | 0.656658 | 10.15279 | 1.08E-05 | 0.000853 | 4.053991 | 0.547119 | 0.766197 | -0.21908 | 6 | 1.23E+08 | R | II | PKIB | Body | opensea | Body-opens | | rs1837973 | 51;45;23 | | | |
| cg2635284 | 0.241553 | 0.514882 | 10.15278 | 1.08E-05 | 0.000853 | 4.053986 | 0.394106 | 0.635658 | -0.24155 | 4 | 53689989 | R | II | | IGR | opensea | IGR-opense | | rs5484781 | 33;30 | | | |
| cg0634978 | 0.209147 | 0.484202 | 10.15153 | 1.08E-05 | 0.000853 | 4.053087 | 0.379628 | 0.588776 | -0.20915 | 2 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs1425285 | 1 | | | |
| cg0239670 | 0.220544 | 0.616216 | 10.15051 | 1.08E-05 | 0.000853 | 4.052348 | 0.505944 | 0.726488 | -0.22054 | 18 | 56740117 | R | II | | IGR | opensea | IGR-opense | | rs5598518 | 2 | | | |
| cg0931561 | 0.216729 | 0.370159 | 10.14701 | 1.08E-05 | 0.000854 | 4.049823 | 0.261794 | 0.478523 | -0.21673 | 13 | 24154719 | R | II | TNFRSF19 | 5'UTR | shore | 5'UTR-shor | chr13 | 2411 | rs5583147 | 35;33 | | |
| cg1784609 | 0.240241 | 0.462389 | 10.14292 | 1.09E-05 | 0.000856 | 4.046875 | 0.342269 | 0.58251 | -0.24024 | 3 | 1.57E+08 | F | II | LINC00880 | Body | opensea | Body-opens | | rs5338856 | 1;14;23;39 | | | |
| cg0129483 | 0.204368 | 0.597855 | 10.14272 | 1.09E-05 | 0.000856 | 4.046729 | 0.495671 | 0.700038 | -0.20437 | 6 | 1.67E+08 | R | II | RPS6KA2 | Body | opensea | Body-opens | | rs1167328 | 39;17 | | | |
| cg0094847 | 0.220544 | 0.429522 | 10.14216 | 1.09E-05 | 0.000856 | 4.046327 | 0.31925 | 0.539795 | -0.22054 | 2 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs5407719 | 26;1 | | | |
| cg1534831 | 0.232441 | 0.618324 | 10.14096 | 1.09E-05 | 0.000856 | 4.045461 | 0.502104 | 0.734545 | -0.23244 | 6 | 14282571 | R | II | | IGR | opensea | IGR-opense | | rs1472479 | 30;2 | | | |
| cg0075212 | 0.209598 | 0.598193 | 10.14066 | 1.09E-05 | 0.000856 | 4.045239 | 0.493394 | 0.702991 | -0.2096 | 2 | 25241029 | R | II | DNAJC27-A | Body | opensea | Body-opens | | rs4665757 | 10 | | | |
| cg0864526 | 0.227359 | 0.585283 | 10.13998 | 1.09E-05 | 0.000856 | 4.044754 | 0.471604 | 0.698963 | -0.22736 | 17 | 19484616 | R | II | | IGR | shore | IGR-shore | chr17 | 1941 | rs5339464 | 1 | | |
| cg0503699 | 0.211174 | 0.471192 | 10.13944 | 1.09E-05 | 0.000856 | 4.044364 | 0.365605 | 0.576779 | -0.21117 | 2 | 1.55E+08 | F | II | GALNT13 | Body | opensea | Body-opens | | rs1894686 | 0;9;13 | | | |
| cg0288308 | 0.2161 | 0.501655 | 10.13935 | 1.09E-05 | 0.000856 | 4.044296 | 0.393605 | 0.609705 | -0.2161 | 10 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1436066 | 1 | | | |
| cg2029368 | 0.253739 | 0.501957 | 10.13918 | 1.09E-05 | 0.000856 | 4.044173 | 0.375087 | 0.628826 | -0.25374 | 19 | 2668369 | F | II | GNG7 | 5'UTR | opensea | 5'UTR-open | | rs1492075 | 17 | | | |
| cg0546513 | 0.204011 | 0.426 | 10.1382 | 1.09E-05 | 0.000857 | 4.043463 | 0.323994 | 0.528005 | -0.20401 | 5 | 1.33E+08 | F | II | FSTL4 | Body | opensea | Body-opens | | rs5655527 | 28 | | | |
| cg0612174 | 0.247298 | 0.660272 | 10.13783 | 1.09E-05 | 0.000857 | 4.0432 | 0.536623 | 0.783921 | -0.2473 | 10 | 34511567 | F | II | PARD3 | Body | opensea | Body-opens | | rs7456207 | 42;51 | | | |
| cg0565948 | 0.21823 | 0.540699 | 10.13661 | 1.09E-05 | 0.000857 | 4.042316 | 0.431584 | 0.649814 | -0.21823 | 6 | 53792689 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2759207 | 0.223471 | 0.564803 | 10.13656 | 1.09E-05 | 0.000857 | 4.042284 | 0.453068 | 0.676539 | -0.22347 | 6 | 18016000 | R | II | | IGR | opensea | IGR-opense | | rs1883930 | 36;18 | | | |
| cg0830665 | 0.207092 | 0.57708 | 10.13578 | 1.09E-05 | 0.000857 | 4.04172 | 0.473534 | 0.680626 | -0.20709 | 7 | 1.08E+08 | R | II | LAMB4 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg2403410 | 0.204092 | 0.492013 | 10.1346 | 1.09E-05 | 0.000857 | 4.040864 | 0.389967 | 0.594059 | -0.20409 | 1 | 1.52E+08 | F | II | LCE5A | TSS1500 | opensea | TSS1500-o | | rs5352463 | 1;7;29;36 | | | |
| cg0897642 | 0.227032 | 0.59023 | 10.13125 | 1.1E-05 | 0.000858 | 4.038445 | 0.476714 | 0.703746 | -0.22703 | 4 | 1.55E+08 | F | II | | IGR | opensea | IGR-opense | | rs5380372 | 15 | | | |
| cg1349476 | 0.255929 | 0.580787 | 10.13022 | 1.1E-05 | 0.000858 | 4.037698 | 0.452823 | 0.708751 | -0.25593 | 1 | 2.44E+08 | F | II | MIR4677 | TSS1500 | opensea | TSS1500-o | | rs1924570 | 0;1 | | | |
| cg1677040 | 0.219042 | 0.630069 | 10.12976 | 1.1E-05 | 0.000858 | 4.037371 | 0.520548 | 0.73959 | -0.21904 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5716391 | 0 | | | |
| cg0855971 | 0.232766 | 0.454109 | 10.12976 | 1.1E-05 | 0.000858 | 4.037366 | 0.337727 | 0.570492 | -0.23277 | 6 | 20978738 | F | II | CDKAL1 | Body | opensea | Body-opens | | rs1893972 | 10;37;43 | | | |
| cg0315067 | 0.208438 | 0.529504 | 10.12938 | 1.1E-05 | 0.000858 | 4.037094 | 0.425285 | 0.633723 | -0.20844 | 4 | 93186308 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1874233 | 2;1 | | | |
| cg0217068 | 0.246056 | 0.563739 | 10.12805 | 1.1E-05 | 0.000858 | 4.036136 | 0.440711 | 0.686766 | -0.24606 | 2 | 60736594 | F | II | BCL11A | Body | opensea | Body-opens | | | | | | |
| cg1325913 | 0.203274 | 0.608154 | 10.12708 | 1.1E-05 | 0.000858 | 4.035435 | 0.506517 | 0.709791 | -0.20327 | 18 | 29298554 | R | II | | IGR | opensea | IGR-opense | | rs1446972 | 26;1 | | | |
| cg1786725 | 0.201265 | 0.736476 | 10.12701 | 1.1E-05 | 0.000858 | 4.035379 | 0.635844 | 0.837109 | -0.20127 | 6 | 73364350 | F | II | KCNQ5-IT1 | Body | opensea | Body-opens | | | | | | |
| cg1053671 | 0.267834 | 0.533585 | 10.12584 | 1.1E-05 | 0.000859 | 4.034538 | 0.399668 | 0.667502 | -0.26783 | 2 | 86089041 | R | II | ST3GAL5 | Body | opensea | Body-opens | | rs1436850 | 1 | | | |
| cg0865866 | 0.221319 | 0.664324 | 10.12572 | 1.1E-05 | 0.000859 | 4.034451 | 0.553665 | 0.774984 | -0.22132 | 12 | 1.09E+08 | F | II | SVOP | Body | opensea | Body-opens | | rs5665863 | 19;45 | | | |
| cg2646553 | 0.205966 | 0.506703 | 10.12552 | 1.1E-05 | 0.000859 | 4.034306 | 0.40372 | 0.609686 | -0.20597 | 10 | 79446426 | F | II | | IGR | opensea | IGR-opense | | rs5602729 | 0;14;36;45 | | | |
| cg1643534 | 0.218999 | 0.449043 | 10.12372 | 1.1E-05 | 0.000859 | 4.033002 | 0.339544 | 0.558543 | -0.219 | 13 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1535256 | 0.203494 | 0.686096 | 10.1236 | 1.1E-05 | 0.000859 | 4.032918 | 0.584349 | 0.787843 | -0.20349 | 5 | 1.13E+08 | R | II | MCC | Body | opensea | Body-opens | | rs5726478 | 21;5 | | | |
| cg0705062 | 0.21936 | 0.515948 | 10.12346 | 1.1E-05 | 0.000859 | 4.032816 | 0.406268 | 0.625628 | -0.21936 | 11 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5476707 | 11;10;1 | | | |
| cg2476977 | 0.207114 | 0.627748 | 10.12295 | 1.1E-05 | 0.000859 | 4.032445 | 0.524191 | 0.731305 | -0.20711 | 8 | 1.07E+08 | F | II | OXR1 | Body | opensea | Body-opens | | rs5398726 | 10;49 | | | |
| cg2685686 | 0.210575 | 0.449462 | 10.12259 | 1.1E-05 | 0.000859 | 4.032188 | 0.344174 | 0.55475 | -0.21058 | 11 | 11562311 | F | II | GALNT18 | Body | opensea | Body-opens | | | | | | |
| cg1396398 | 0.239488 | 0.508846 | 10.12249 | 1.1E-05 | 0.000859 | 4.032115 | 0.389101 | 0.62859 | -0.23949 | 1 | 2.05E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0574670 | 0.224921 | 0.564453 | 10.12164 | 1.1E-05 | 0.00086 | 4.031495 | 0.451992 | 0.676914 | -0.22492 | 15 | 91221258 | R | II | CRTC3-AS1 | Body | opensea | Body-opens | | | | | | |
| cg1736068 | 0.228256 | 0.619317 | 10.12155 | 1.1E-05 | 0.00086 | 4.03143 | 0.505189 | 0.733445 | -0.22826 | 12 | 53069734 | F | II | KRT1 | Body | opensea | Body-opens | | rs6651455 | 6;28;32;33;45 | | | |
| cg0081866 | 0.221686 | 0.506666 | 10.11983 | 1.1E-05 | 0.00086 | 4.030188 | 0.395823 | 0.617509 | -0.22169 | 6 | 96752894 | F | II | | IGR | opensea | IGR-opense | | rs1500512 | 12 | | | |
| cg0656440 | 0.207815 | 0.558746 | 10.11982 | 1.1E-05 | 0.00086 | 4.03018 | 0.454838 | 0.662653 | -0.20782 | 9 | 1.36E+08 | R | II | AK8 | Body | opensea | Body-opens | | rs1896269 | 39;38;19 | | | |
| cg1783618 | 0.209242 | 0.608626 | 10.11964 | 1.11E-05 | 0.00086 | 4.03005 | 0.504005 | 0.713247 | -0.20924 | 21 | 36570494 | F | II | | IGR | opensea | IGR-opense | | rs5651723 | 50;51 | | | |
| cg0550161 | 0.271245 | 0.495043 | 10.11903 | 1.11E-05 | 0.00086 | 4.029611 | 0.359421 | 0.630666 | -0.27124 | 4 | 1.85E+08 | R | II | IRF2 | Body | opensea | Body-opens | | rs6233775 | 34;13 | | | |
| cg2706628 | 0.207011 | 0.64975 | 10.11763 | 1.11E-05 | 0.000861 | 4.028599 | 0.546245 | 0.753256 | -0.20701 | 1 | 1.62E+08 | F | II | NOS1AP | Body | opensea | Body-opens | | rs5304332 | 32;40;42 | | | |
| cg0547766 | 0.201187 | 0.703723 | 10.11743 | 1.11E-05 | 0.000861 | 4.028449 | 0.60313 | 0.804317 | -0.20119 | 2 | 1.12E+08 | F | II | LOC40099 | TSS200 | shore | TSS200-sho | chr2 | 11181 | rs1862610 | 1;7;14;33 | | |
| cg2713449 | 0.203117 | 0.447918 | 10.1172 | 1.11E-05 | 0.000861 | 4.028283 | 0.346359 | 0.549476 | -0.20312 | 2 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs5376459 | 1 | | | |
| cg2220212 | 0.219668 | 0.45894 | 10.11612 | 1.11E-05 | 0.000861 | 4.027502 | 0.349106 | 0.568773 | -0.21967 | 20 | 50547182 | F | II | | IGR | opensea | IGR-opense | | rs1435090 | 1;23;25 | | | |
| cg0395267 | 0.268836 | 0.518275 | 10.11281 | 1.11E-05 | 0.000862 | 4.025107 | 0.383857 | 0.652693 | -0.26884 | 21 | 45126620 | F | II | | IGR | opensea | IGR-opense | | rs5581136 | 0;9;31;32 | | | |
| cg1185138 | 0.238616 | 0.506128 | 10.11275 | 1.11E-05 | 0.000862 | 4.025064 | 0.38682 | 0.625436 | -0.23862 | 1 | 56996910 | R | II | PPAP2B | Body | opensea | Body-opens | | rs1180280 | 46;35;14;1 | | | |
| cg0358509 | 0.250328 | 0.547535 | 10.11154 | 1.11E-05 | 0.000863 | 4.024192 | 0.422371 | 0.672699 | -0.25033 | 13 | 20287930 | F | II | PSPC1 | Body | opensea | Body-opens | | rs1153460 | 0;24;34 | | | |
| cg2675466 | 0.212225 | 0.49147 | 10.10999 | 1.11E-05 | 0.000863 | 4.023068 | 0.385357 | 0.597583 | -0.21223 | 11 | 1.25E+08 | R | II | ROBO4 | 3'UTR | opensea | 3'UTR-open | | rs5382698 | 50;30;1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0647669 | 0.209368 | 0.672093 | 10.10978 | 1.11E-05 | 0.000863 | 4.022912 | 0.567409 | 0.776777 | -0.20937 | 11 | 1.3E+08 | F | II | ADAMTS8 | Body | opensea | Body-opens | | rs1421741 | 1;37 |
| cg1344919 | 0.212001 | 0.496621 | 10.109 | 1.11E-05 | 0.000863 | 4.022352 | 0.39062 | 0.602621 | -0.212 | 13 | 73028751 | F | II | | IGR | opensea | IGR-opense | | rs1846667 | 0;1 |
| cg0806038 | 0.233143 | 0.580663 | 10.10797 | 1.11E-05 | 0.000863 | 4.021601 | 0.464091 | 0.697234 | -0.23314 | 3 | 44637866 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2562523 | 0.205646 | 0.557081 | 10.10752 | 1.11E-05 | 0.000863 | 4.021279 | 0.454258 | 0.659904 | -0.20565 | 18 | 53304670 | F | II | TCF4 | TSS1500 | opensea | TSS1500-op | | rs5455126 | 0;27 |
| cg0186402 | 0.219712 | 0.508234 | 10.10671 | 1.12E-05 | 0.000864 | 4.020692 | 0.398378 | 0.61809 | -0.21971 | 15 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs1932433 | 19 |
| cg0551999 | 0.206505 | 0.612391 | 10.1062 | 1.12E-05 | 0.000864 | 4.020319 | 0.509139 | 0.715644 | -0.2065 | 11 | 94628792 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0237467 | 0.207126 | 0.544188 | 10.10571 | 1.12E-05 | 0.000864 | 4.019967 | 0.440625 | 0.647751 | -0.20713 | 18 | 34047739 | R | II | FHOD3 | Body | opensea | Body-opens | | rs5321201 | 49;48;26 |
| cg2546722 | 0.230779 | 0.539388 | 10.10329 | 1.12E-05 | 0.000864 | 4.018214 | 0.423998 | 0.654777 | -0.23078 | 22 | 50218031 | F | II | BRD1 | 5'UTR | shore | 5'UTR-shor | chr22:502 | rs5430723 | 29 |
| cg2142163 | 0.203637 | 0.574555 | 10.10265 | 1.12E-05 | 0.000864 | 4.017746 | 0.472736 | 0.676374 | -0.20364 | 1 | 2.04E+08 | F | II | PLEKHA6 | 5'UTR | opensea | 5'UTR-open | | rs5772814 | 1;20;42;46 |
| cg2006364 | 0.208989 | 0.538059 | 10.10017 | 1.12E-05 | 0.000865 | 4.015951 | 0.433565 | 0.642554 | -0.20899 | 20 | 2635105 | R | II | NOP56 | Body | shore | Body-shore | chr20:263 | rs5726487 | 37;27;26 |
| cg1537333 | 0.221334 | 0.558457 | 10.09465 | 1.12E-05 | 0.000868 | 4.011949 | 0.447791 | 0.669124 | -0.22133 | 9 | 1.17E+08 | R | II | COL27A1 | Body | opensea | Body-opens | | rs1914997 | 15;1 |
| cg0970550 | 0.212103 | 0.650994 | 10.09452 | 1.12E-05 | 0.000868 | 4.011855 | 0.544943 | 0.757045 | -0.2121 | 8 | 1.11E+08 | F | II | SYBU | Body | opensea | Body-opens | | rs5615227 | 1;41 |
| cg0779551 | 0.213494 | 0.667228 | 10.09442 | 1.12E-05 | 0.000868 | 4.011785 | 0.560481 | 0.773975 | -0.21349 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-opens | | rs1902118 | 21;9 |
| cg1564098 | 0.210113 | 0.465689 | 10.09332 | 1.13E-05 | 0.000868 | 4.010983 | 0.360632 | 0.570745 | -0.21011 | 11 | 33434222 | F | II | | IGR | opensea | IGR-opense | | rs5543156 | 3 |
| cg1161135 | 0.226063 | 0.589138 | 10.09246 | 1.13E-05 | 0.000868 | 4.010362 | 0.476107 | 0.70217 | -0.22606 | 1 | 56913679 | R | II | | IGR | opensea | IGR-opense | | rs7577088 | 1 |
| cg0936061 | 0.217105 | 0.572677 | 10.09174 | 1.13E-05 | 0.000868 | 4.009841 | 0.464125 | 0.68123 | -0.21711 | 5 | 1.58E+08 | R | II | EBF1 | ExonBnd | opensea | ExonBnd-o | | rs3739223 | 26;2;1 |
| cg2149337 | 0.226532 | 0.495936 | 10.09151 | 1.13E-05 | 0.000868 | 4.009673 | 0.38267 | 0.609202 | -0.22653 | 4 | 1.41E+08 | F | II | SCOC | 5'UTR | opensea | 5'UTR-open | | rs1144346 | 1;24;38 |
| cg2080400 | 0.20688 | 0.529444 | 10.09094 | 1.13E-05 | 0.000868 | 4.009257 | 0.426005 | 0.632884 | -0.20688 | 3 | 13685146 | F | II | | IGR | opensea | IGR-opense | | rs1132123 | 7;8;13;27;33 |
| cg1965443 | 0.214249 | 0.556492 | 10.08986 | 1.13E-05 | 0.000868 | 4.008474 | 0.449367 | 0.663616 | -0.21425 | 2 | 2.03E+08 | R | II | CDK15 | TSS200 | opensea | TSS200-ope | | rs5309332 | 49;1 |
| cg2255777 | 0.2539 | 0.568425 | 10.08839 | 1.13E-05 | 0.000869 | 4.007408 | 0.441475 | 0.695376 | -0.2539 | 11 | 36407062 | R | II | PRR5L | 5'UTR | opensea | 5'UTR-open | | rs5357617 | 22;14;6 |
| cg0647591 | 0.213188 | 0.565896 | 10.08635 | 1.13E-05 | 0.000869 | 4.005929 | 0.459302 | 0.67249 | -0.21319 | 2 | 2.19E+08 | R | II | RQCD1 | Body | opensea | Body-opens | | rs7936593 | 2 |
| cg0968910 | 0.212684 | 0.616182 | 10.08574 | 1.13E-05 | 0.000869 | 4.005484 | 0.50984 | 0.722524 | -0.21268 | 8 | 1.25E+08 | R | II | FER1L6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1785835 | 0.267996 | 0.556698 | 10.08535 | 1.13E-05 | 0.000869 | 4.005203 | 0.4227 | 0.690696 | -0.268 | 3 | 1.78E+08 | R | II | KCNMB2-A | Body | opensea | Body-opens | | rs5304138 | 40;25;13;2 |
| cg2654472 | 0.236888 | 0.504517 | 10.08492 | 1.13E-05 | 0.000869 | 4.00489 | 0.386072 | 0.622961 | -0.23689 | 4 | 65883972 | F | II | | IGR | opensea | IGR-opense | | rs1428737 | 10;15;20 |
| cg1037907 | 0.232433 | 0.578745 | 10.08463 | 1.13E-05 | 0.000869 | 4.004679 | 0.462529 | 0.694962 | -0.23243 | 16 | 11076864 | F | II | CLEC16A | Body | opensea | Body-opens | | rs2011164 | 0;1 |
| cg0004884 | 0.212575 | 0.47539 | 10.08319 | 1.13E-05 | 0.00087 | 4.00363 | 0.369103 | 0.581678 | -0.21258 | 12 | 72473584 | F | II | | IGR | opensea | IGR-opense | | rs7481614 | 0;18;23;28 |
| cg1744996 | 0.242242 | 0.614582 | 10.08262 | 1.13E-05 | 0.00087 | 4.003221 | 0.493461 | 0.735704 | -0.24224 | 7 | 1.27E+08 | R | II | SND1 | Body | opensea | Body-opens | | rs3808106 | 44;43;19;15;2 |
| cg0142571 | 0.222865 | 0.547875 | 10.08185 | 1.13E-05 | 0.00087 | 4.002655 | 0.436443 | 0.659308 | -0.22287 | 1 | 81974159 | R | II | | IGR | opensea | IGR-opense | | rs7895772 | 28;1 |
| cg1517694 | 0.200526 | 0.443857 | 10.08132 | 1.14E-05 | 0.00087 | 4.002271 | 0.343594 | 0.54412 | -0.20053 | 15 | 55569970 | R | II | RAB27A | 5'UTR | opensea | 5'UTR-open | | rs1855015 | 40;1 |
| cg1962860 | 0.209689 | 0.605585 | 10.08095 | 1.14E-05 | 0.00087 | 4.002008 | 0.500741 | 0.71043 | -0.20969 | 3 | 71032216 | R | II | FOXP1 | Body | opensea | Body-opens | | rs5449100 | 22;15;12;5 |
| cg2159313 | 0.214302 | 0.625815 | 10.07995 | 1.14E-05 | 0.00087 | 4.001278 | 0.518664 | 0.732966 | -0.2143 | 1 | 14844052 | R | II | | IGR | opensea | IGR-opense | | rs5564002 | 28;1 |
| cg1271036 | 0.20616 | 0.619861 | 10.0786 | 1.14E-05 | 0.00087 | 4.000298 | 0.516781 | 0.722941 | -0.20616 | 6 | 64486271 | F | II | EYS | Body | opensea | Body-opens | | rs5319727 | 10 |
| cg0875051 | 0.251943 | 0.510264 | 10.07755 | 1.14E-05 | 0.000871 | 3.999534 | 0.384293 | 0.636236 | -0.25194 | 5 | 32537617 | R | II | | IGR | opensea | IGR-opense | | rs1909435 | 29;27;13 |
| cg0536889 | 0.238512 | 0.45425 | 10.07448 | 1.14E-05 | 0.000872 | 3.997307 | 0.334994 | 0.573507 | -0.23851 | 1 | 1760171 | R | II | GNB1 | 5'UTR | opensea | 5'UTR-open | | rs1448951 | 47;44;32 |
| cg0607257 | 0.21033 | 0.743045 | 10.07403 | 1.14E-05 | 0.000872 | 3.996977 | 0.63788 | 0.848209 | -0.21033 | 12 | 10466134 | R | II | KLRD1 | Body | opensea | Body-opens | | rs5570262 | 7;5 |
| cg0582233 | 0.210121 | 0.588893 | 10.07355 | 1.14E-05 | 0.000872 | 3.996631 | 0.483832 | 0.693953 | -0.21012 | 1 | 1.71E+08 | R | II | FMO2 | 3'UTR | opensea | 3'UTR-open | | rs1860992 | 50;2 |
| cg1925093 | 0.221647 | 0.565298 | 10.07298 | 1.14E-05 | 0.000872 | 3.996214 | 0.454474 | 0.676121 | -0.22165 | 20 | 1800881 | R | II | | IGR | opensea | IGR-opense | | rs1888519 | 39;21;1 |
| cg1152121 | 0.254778 | 0.615226 | 10.07007 | 1.14E-05 | 0.000873 | 3.994097 | 0.487837 | 0.742615 | -0.25478 | 4 | 75366983 | R | II | | IGR | opensea | IGR-opense | | rs7286118 | 39;27;14;2 |
| cg1171960 | 0.234432 | 0.666414 | 10.06822 | 1.15E-05 | 0.000874 | 3.992753 | 0.549198 | 0.78363 | -0.23443 | 14 | 51910138 | R | II | | IGR | opensea | IGR-opense | | rs5693319 | 49;2 |
| cg1761787 | 0.215204 | 0.524578 | 10.06796 | 1.15E-05 | 0.000874 | 3.992565 | 0.416975 | 0.63218 | -0.2152 | 8 | 93434899 | R | II | | IGR | opensea | IGR-opense | | rs5343275 | 21;5;1 |
| cg2328204 | 0.224923 | 0.506009 | 10.06609 | 1.15E-05 | 0.000874 | 3.991207 | 0.393547 | 0.61847 | -0.22492 | 17 | 39950347 | F | II | | IGR | opensea | IGR-opense | | rs5289168 | 14;41 |
| cg1719748 | 0.209913 | 0.493579 | 10.06232 | 1.15E-05 | 0.000875 | 3.988461 | 0.388623 | 0.598536 | -0.20991 | 16 | 56483905 | R | II | NUDT21 | Body | shore | Body-shore | chr16:564 | | |
| cg0292348 | 0.206852 | 0.61496 | 10.06209 | 1.15E-05 | 0.000875 | 3.988295 | 0.511534 | 0.718387 | -0.20685 | 1 | 2.24E+08 | F | II | CAPN2 | Body | opensea | Body-opens | | rs5501610 | 1;11;13;37;45 |
| cg2348978 | 0.200623 | 0.557037 | 10.06095 | 1.15E-05 | 0.000876 | 3.987462 | 0.456726 | 0.657348 | -0.20062 | 8 | 80558042 | F | II | STMN2 | Body | opensea | Body-opens | | rs5754301 | 0 |
| cg1406992 | 0.201332 | 0.600165 | 10.06073 | 1.15E-05 | 0.000876 | 3.987308 | 0.4995 | 0.700831 | -0.20133 | 14 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs1137256 | 12;17 |
| cg2188496 | 0.218556 | 0.541612 | 10.05861 | 1.15E-05 | 0.000876 | 3.985763 | 0.432334 | 0.650889 | -0.21856 | 2 | 2.18E+08 | R | II | DIRC3 | Body | opensea | Body-opens | | rs5684500 | 40;35;1 |
| cg1549354 | 0.204833 | 0.69942 | 10.05802 | 1.15E-05 | 0.000876 | 3.985331 | 0.597004 | 0.801837 | -0.20483 | 4 | 1.85E+08 | R | II | LOC10272 | Body | opensea | Body-opens | | rs5431581 | 42;15;1 |
| cg2236336 | 0.221075 | 0.470848 | 10.05632 | 1.16E-05 | 0.000876 | 3.984093 | 0.36031 | 0.581385 | -0.22108 | 2 | 59126860 | F | II | | IGR | opensea | IGR-opense | | rs1139974 | 27;29 |
| cg2208562 | 0.205148 | 0.515426 | 10.05559 | 1.16E-05 | 0.000876 | 3.983564 | 0.412852 | 0.618001 | -0.20515 | 1 | 16091218 | R | II | FBLIM1 | TSS1500 | opensea | TSS1500-op | | rs5686476 | 45;5 |
| cg0758849 | 0.20644 | 0.510771 | 10.05551 | 1.16E-05 | 0.000876 | 3.983505 | 0.407552 | 0.613991 | -0.20644 | 5 | 1.42E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1744819 | 0.253768 | 0.403663 | 10.05542 | 1.16E-05 | 0.000876 | 3.983437 | 0.276779 | 0.530547 | -0.25377 | 3 | 1.87E+08 | R | II | ST6GAL1 | 5'UTR | opensea | 5'UTR-open | | rs1848526 | 29;25 |
| cg2023939 | 0.207356 | 0.537605 | 10.05528 | 1.16E-05 | 0.000876 | 3.983334 | 0.433927 | 0.641283 | -0.20736 | 20 | 45030732 | R | II | ELMO2 | 5'UTR | shelf | 5'UTR-shelf | chr20:450 | | |
| cg1204667 | 0.202901 | 0.554941 | 10.05503 | 1.16E-05 | 0.000876 | 3.983155 | 0.453491 | 0.656391 | -0.2029 | 12 | 2360663 | F | II | CACNA1C | Body | opensea | Body-opens | | rs1170686 | 0;5 |
| cg2715625 | 0.21608 | 0.621844 | 10.05314 | 1.16E-05 | 0.000877 | 3.981776 | 0.513804 | 0.729883 | -0.21608 | 12 | 1.21E+08 | F | II | PXN | Body | opensea | Body-opens | | rs5487413 | 12;19 |
| cg1920306 | 0.206101 | 0.584382 | 10.05177 | 1.16E-05 | 0.000877 | 3.980781 | 0.481331 | 0.687432 | -0.2061 | 1 | 95145415 | R | II | LINC01057 | Body | opensea | Body-opens | | rs841354 | 13 |
| cg1845177 | 0.201296 | 0.669728 | 10.05083 | 1.16E-05 | 0.000877 | 3.980094 | 0.56908 | 0.770376 | -0.2013 | 21 | 40291514 | F | II | LOC40086 | Body | opensea | Body-opens | | rs5325093 | 0;15;19 |
| cg1851226 | 0.207008 | 0.577163 | 10.0504 | 1.16E-05 | 0.000877 | 3.979783 | 0.473659 | 0.680667 | -0.20701 | 11 | 6049729 | R | II | OR56A1 | TSS1500 | opensea | TSS1500-op | | rs5646212 | 30;2;1 |
| cg0742680 | 0.200531 | 0.372007 | 10.05026 | 1.16E-05 | 0.000877 | 3.97968 | 0.271741 | 0.472272 | -0.20053 | 8 | 60885377 | R | II | | IGR | opensea | IGR-opense | | rs1407293 | 43;41;36;34 |
| cg0455071 | 0.212415 | 0.555124 | 10.04775 | 1.16E-05 | 0.000878 | 3.977853 | 0.448917 | 0.661332 | -0.21242 | 5 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5616819 | 46 |
| cg0387681 | 0.253825 | 0.539889 | 10.04764 | 1.16E-05 | 0.000878 | 3.977771 | 0.412977 | 0.666801 | -0.25382 | 1 | 2.44E+08 | R | II | AKT3 | Body | opensea | Body-opens | | | |
| cg0494728 | 0.204851 | 0.614739 | 10.04549 | 1.16E-05 | 0.000879 | 3.976202 | 0.512313 | 0.717164 | -0.20485 | 15 | 43360134 | F | II | UBR1 | Body | opensea | Body-opens | | rs1506170 | 8;25;40 |
| cg2031810 | 0.217483 | 0.63102 | 10.04479 | 1.17E-05 | 0.000879 | 3.975693 | 0.522279 | 0.739761 | -0.21748 | 1 | 2.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1437442 | 39;15 |
| cg2177377 | 0.212844 | 0.628596 | 10.04292 | 1.17E-05 | 0.000879 | 3.974328 | 0.522174 | 0.735017 | -0.21284 | 10 | 5237570 | R | II | AKR1C4 | TSS1500 | opensea | TSS1500-op | | rs5352043 | 46;1 |
| cg0578168 | 0.207022 | 0.613893 | 10.04222 | 1.17E-05 | 0.000879 | 3.973818 | 0.510382 | 0.717404 | -0.20702 | 2 | 2.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs1907813 | 5;2;1 |
| cg0503045 | 0.237876 | 0.47048 | 10.0417 | 1.17E-05 | 0.00088 | 3.973442 | 0.351542 | 0.589418 | -0.23788 | 5 | 1.67E+08 | F | II | ODZ2 | Body | opensea | Body-opens | | rs5702992 | 0;27;28;42 |
| cg2210410 | 0.247445 | 0.574408 | 10.03691 | 1.17E-05 | 0.000881 | 3.96995 | 0.450685 | 0.698131 | -0.24745 | 21 | 17565450 | F | II | C21orf34 | Body | opensea | Body-opens | | rs5722588 | 1;27 |
| cg0173693 | 0.229159 | 0.555572 | 10.03625 | 1.17E-05 | 0.000881 | 3.969469 | 0.440992 | 0.670151 | -0.22916 | 2 | 1.06E+08 | F | II | FHL2 | TSS200 | opensea | TSS200-ope | | rs1122585 | 4;12;13 |
| cg1182091 | 0.200929 | 0.566745 | 10.03039 | 1.18E-05 | 0.000882 | 3.965192 | 0.46628 | 0.667209 | -0.20093 | 14 | 1.01E+08 | F | II | BEGAIN | Body | opensea | Body-opens | | rs5732874 | 10 |
| cg2485231 | 0.258975 | 0.531645 | 10.03032 | 1.18E-05 | 0.000882 | 3.965141 | 0.402157 | 0.661132 | -0.25897 | 6 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs5397393 | 25 |
| cg2370631 | 0.234888 | 0.55691 | 10.02843 | 1.18E-05 | 0.000883 | 3.963756 | 0.439466 | 0.674353 | -0.23489 | 5 | 1.38E+08 | F | II | KDM3B | Body | opensea | Body-opens | | | |
| cg1606165 | 0.249562 | 0.497343 | 10.02755 | 1.18E-05 | 0.000884 | 3.963116 | 0.372561 | 0.622124 | -0.24956 | 11 | 1.15E+08 | R | II | CADM1 | Body | opensea | Body-opens | | rs7357213 | 51;34;11;1 |
| cg1014929 | 0.221053 | 0.675752 | 10.0261 | 1.18E-05 | 0.000884 | 3.962057 | 0.565226 | 0.786279 | -0.22105 | 2 | 20795912 | R | II | | IGR | opensea | IGR-opense | | rs3743127 | 1 |
| cg0070435 | 0.214307 | 0.634897 | 10.02577 | 1.18E-05 | 0.000884 | 3.961815 | 0.527743 | 0.74205 | -0.21431 | 14 | 73869495 | R | II | NUMB | 5'UTR | opensea | 5'UTR-open | | | |
| cg0258221 | 0.207751 | 0.634739 | 10.02524 | 1.18E-05 | 0.000884 | 3.961429 | 0.530863 | 0.738615 | -0.20775 | 2 | 59569659 | R | II | | IGR | opensea | IGR-opense | | rs5423375 | 22;2 |
| cg0589085 | 0.238152 | 0.473904 | 10.02405 | 1.18E-05 | 0.000885 | 3.960562 | 0.354828 | 0.59298 | -0.23815 | 2 | 2.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5586543 | 29;2 |
| cg2372640 | 0.230444 | 0.663277 | 10.0236 | 1.18E-05 | 0.000885 | 3.960231 | 0.548055 | 0.778499 | -0.23044 | 3 | 1.23E+08 | F | II | MYLK | Body | opensea | Body-opens | | rs1412857 | 0;22;43 |
| cg0060337 | 0.236571 | 0.65577 | 10.02159 | 1.18E-05 | 0.000885 | 3.958761 | 0.537485 | 0.774056 | -0.23657 | 1 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1702586 | 23 |
| cg0929501 | 0.223477 | 0.588621 | 10.02096 | 1.19E-05 | 0.000886 | 3.958305 | 0.476882 | 0.70036 | -0.22348 | 8 | 99503021 | F | II | STK3 | Body | opensea | Body-opens | | rs1828935 | 0;30;31 |
| cg1378380 | 0.212125 | 0.671954 | 10.02058 | 1.19E-05 | 0.000886 | 3.958026 | 0.565891 | 0.778016 | -0.21212 | 19 | 6489371 | R | II | | IGR | opensea | IGR-opense | | rs7926943 | 39;35;28;18 |
| cg0771283 | 0.208558 | 0.534464 | 10.0201 | 1.19E-05 | 0.000886 | 3.957672 | 0.430185 | 0.638743 | -0.20856 | 18 | 74034689 | F | II | | IGR | opensea | IGR-opense | | rs5617251 | 22;47 |
| cg1279499 | 0.221172 | 0.598851 | 10.01916 | 1.19E-05 | 0.000886 | 3.956986 | 0.488265 | 0.709436 | -0.22117 | 8 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0949788 | 0.221044 | 0.438812 | 10.0191 | 1.19E-05 | 0.000886 | 3.956942 | 0.32829 | 0.549334 | -0.22104 | 9 | 95918949 | R | II | | IGR | opensea | IGR-opense | | rs1923145 | 3 |
| cg1984724 | 0.202787 | 0.64716 | 10.01775 | 1.19E-05 | 0.000886 | 3.955955 | 0.545767 | 0.748553 | -0.20279 | 15 | 58246538 | R | II | ALDH1A2 | 3'UTR | opensea | 3'UTR-open | | rs1904748 | 33 |
| cg0844433 | 0.212593 | 0.615155 | 10.01747 | 1.19E-05 | 0.000886 | 3.95575 | 0.508859 | 0.721451 | -0.21259 | 6 | 38463839 | R | II | BTBD9 | Body | opensea | Body-opens | | rs1868424 | 10;1 |
| cg0965513 | 0.232503 | 0.454139 | 10.01614 | 1.19E-05 | 0.000886 | 3.954776 | 0.337887 | 0.57039 | -0.2325 | 5 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs7784060 | 33;10 |
| cg0779957 | 0.2289 | 0.526637 | 10.01603 | 1.19E-05 | 0.000886 | 3.954699 | 0.412187 | 0.641087 | -0.2289 | 5 | 70309843 | R | II | NAIP | Body | opensea | Body-opens | | rs5691943 | 4 |
| cg1217668 | 0.243132 | 0.603617 | 10.01526 | 1.19E-05 | 0.000886 | 3.954134 | 0.482051 | 0.725183 | -0.24313 | 20 | 23018803 | R | II | | IGR | shore | IGR-shore | chr20:230 | rs5463990 | 48 |
| cg1813032 | 0.242999 | 0.587272 | 10.01486 | 1.19E-05 | 0.000886 | 3.953841 | 0.465773 | 0.708772 | -0.243 | 12 | 65720609 | R | II | MSRB3 | ExonBnd | opensea | ExonBnd-o | | rs1467330 | 41;7;1 |
| cg0972298 | 0.21916 | 0.674974 | 10.01441 | 1.19E-05 | 0.000886 | 3.953512 | 0.565394 | 0.784554 | -0.21916 | 12 | 26150525 | F | II | RASSF8 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1005038 | 0.219252 | 0.643194 | 10.01405 | 1.19E-05 | 0.000886 | 3.953248 | 0.533568 | 0.75282 | -0.21925 | 6 | 1.65E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1927307 | 0.213303 | 0.609561 | 10.01398 | 1.19E-05 | 0.000886 | 3.953198 | 0.502909 | 0.716212 | -0.2133 | 12 | 41832738 | F | II | PDZRN4 | Body | opensea | Body-opens | | rs1123502 | 5;23;51 |
| cg0495147 | 0.227074 | 0.607226 | 10.01244 | 1.19E-05 | 0.000887 | 3.952075 | 0.493689 | 0.720763 | -0.22707 | 6 | 3848243 | R | II | FAM50B | TSS1500 | shore | TSS1500-sh | chr6:3849 | rs5363587 | 51;2 |
| cg2215286 | 0.262429 | 0.560499 | 10.01243 | 1.19E-05 | 0.000887 | 3.952064 | 0.429285 | 0.691714 | -0.26243 | 22 | 24596179 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0141092 | 0.25789 | 0.659851 | 10.01223 | 1.19E-05 | 0.000887 | 3.951922 | 0.530906 | 0.788796 | -0.25789 | 2 | 1.92E+08 | R | II | MYO1B | Body | opensea | Body-opens | | rs1488319 | 51;31 |
| cg0348697 | 0.207169 | 0.660594 | 10.01094 | 1.19E-05 | 0.000887 | 3.950976 | 0.557009 | 0.764178 | -0.20717 | 2 | 2.03E+08 | F | II | | IGR | opensea | IGR-opense | | rs5752636 | 1 |
| cg2439138 | 0.209435 | 0.427322 | 10.01065 | 1.19E-05 | 0.000887 | 3.950762 | 0.322605 | 0.532039 | -0.20943 | 2 | 65526509 | R | II | | IGR | opensea | IGR-opense | | rs5602028 | 33 |
| cg2414031 | 0.268857 | 0.546892 | 10.00996 | 1.19E-05 | 0.000887 | 3.950262 | 0.412463 | 0.68132 | -0.26886 | 1 | 1.85E+08 | R | II | | IGR | opensea | IGR-opense | | rs1503022 | 17;1 |
| cg0331780 | 0.230603 | 0.602107 | 10.00867 | 1.2E-05 | 0.000887 | 3.949319 | 0.486805 | 0.717409 | -0.2306 | 14 | 56331298 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1346390 | 0.209594 | 0.650955 | 10.00793 | 1.2E-05 | 0.000887 | 3.948775 | 0.546158 | 0.755752 | -0.20959 | 5 | 1.48E+08 | R | II | | IGR | opensea | IGR-opense | | rs5518989 | 46;16;2;1 |
| cg1968280 | 0.223028 | 0.679315 | 10.00698 | 1.2E-05 | 0.000888 | 3.94808 | 0.567801 | 0.790829 | -0.22303 | 8 | 1.03E+08 | F | II | NCALD | 5'UTR | opensea | 5'UTR-open | | rs5481098 | 13 |
| cg2494357 | 0.211036 | 0.483959 | 10.00652 | 1.2E-05 | 0.000888 | 3.947743 | 0.378441 | 0.589476 | -0.21104 | 2 | 15933717 | F | II | | IGR | opensea | IGR-opense | | rs5494968 | 6;39;51 |
| cg1257157 | 0.227343 | 0.635547 | 10.00646 | 1.2E-05 | 0.000888 | 3.947696 | 0.521876 | 0.749218 | -0.22734 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | | rs3756300 | 43;36 |
| cg0417769 | 0.207487 | 0.459996 | 10.00571 | 1.2E-05 | 0.000888 | 3.947152 | 0.356253 | 0.563739 | -0.20749 | 8 | 40850062 | F | II | | IGR | opensea | IGR-opense | | rs1917635 | 0;14;16;48 |
| cg1101549 | 0.20051 | 0.496055 | 10.00532 | 1.2E-05 | 0.000888 | 3.946863 | 0.3958 | 0.59631 | -0.20051 | 2 | 38750277 | F | II | | IGR | opensea | IGR-opense | | rs7748995 | 10;11;22;48 |
| cg2049208 | 0.232778 | 0.549019 | 10.00476 | 1.2E-05 | 0.000888 | 3.946455 | 0.43263 | 0.665408 | -0.23278 | 5 | 79112509 | F | II | | IGR | opensea | IGR-opense | | rs1265503 | 1;28;42 |
| cg0158282 | 0.256996 | 0.584148 | 10.00319 | 1.2E-05 | 0.000888 | 3.945303 | 0.45565 | 0.712646 | -0.257 | 18 | 41825318 | R | II | | IGR | opensea | IGR-opense | | rs1173793 | 2 |
| cg1652420 | 0.215985 | 0.533804 | 10.0031 | 1.2E-05 | 0.000888 | 3.945242 | 0.425811 | 0.641797 | -0.21599 | 12 | 71849440 | R | II | LGR5 | Body | opensea | Body-opens | | | |
| cg1761450 | 0.222432 | 0.409072 | 10.00285 | 1.2E-05 | 0.000888 | 3.945056 | 0.297856 | 0.520288 | -0.22243 | 7 | 47803072 | F | II | | IGR | opensea | IGR-opense | | rs1827841 | 3;10;38 |
| cg1705982 | 0.240083 | 0.524512 | 10.00155 | 1.2E-05 | 0.000888 | 3.944103 | 0.40447 | 0.644554 | -0.24008 | 15 | 39933961 | R | II | FSIP1 | Body | opensea | Body-opens | | rs2898686 | 50 |
| cg0929085 | 0.206813 | 0.56107 | 10.00107 | 1.2E-05 | 0.000889 | 3.943753 | 0.457664 | 0.664477 | -0.20681 | 2 | 29373296 | R | II | CLIP4 | Body | opensea | Body-opens | | rs5628350 | 36 |
| cg1990306 | 0.231256 | 0.53181 | 9.997911 | 1.2E-05 | 0.00089 | 3.94144 | 0.416182 | 0.647438 | -0.23126 | 7 | 1.11E+08 | R | II | DOCK4 | Body | opensea | Body-opens | | rs7343208 | 28;25 |
| cg0370800 | 0.223085 | 0.697126 | 9.997642 | 1.2E-05 | 0.00089 | 3.941243 | 0.585584 | 0.808669 | -0.22309 | 18 | 52937080 | R | II | TCF4 | ExonBnd | opensea | ExonBnd-o | | rs5507361 | 35 |
| cg1675495 | 0.207148 | 0.641698 | 9.996013 | 1.21E-05 | 0.00089 | 3.940049 | 0.538124 | 0.745272 | -0.20715 | 7 | 83932562 | R | II | | IGR | opensea | IGR-opense | | rs5506667 | 44;43;32;1 |
| cg1446094 | 0.216831 | 0.494326 | 9.995958 | 1.21E-05 | 0.00089 | 3.940009 | 0.38591 | 0.602741 | -0.21683 | 18 | 37646175 | R | II | LINC01477 | TSS200 | opensea | TSS200-ope | | rs5685394 | 43;33 |
| cg1189531 | 0.218751 | 0.6026 | 9.995245 | 1.21E-05 | 0.00089 | 3.939487 | 0.493224 | 0.711976 | -0.21875 | 21 | 37268698 | R | II | | IGR | opensea | IGR-opense | | rs5636874 | 4;3;2;1 |
| cg0120872 | 0.239932 | 0.451298 | 9.994919 | 1.21E-05 | 0.000891 | 3.939248 | 0.331332 | 0.571264 | -0.23993 | 5 | 6829916 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1411413 | 0.200892 | 0.38297 | 9.993978 | 1.21E-05 | 0.000891 | 3.938558 | 0.282524 | 0.483416 | -0.20089 | 6 | 10839408 | F | II | | IGR | shore | IGR-shore | chr6:1083 | rs1923033 | 0;8 |
| cg0340877 | 0.22895 | 0.551449 | 9.993947 | 1.21E-05 | 0.000891 | 3.938536 | 0.436974 | 0.665924 | -0.22895 | 2 | 1.44E+08 | R | II | ARHGAP15 | Body | opensea | Body-opens | | rs5766398 | 15;13 |
| cg0304816 | 0.231438 | 0.463929 | 9.992963 | 1.21E-05 | 0.000891 | 3.937815 | 0.34821 | 0.579648 | -0.23144 | 17 | 47558681 | R | II | | IGR | opensea | IGR-opense | | rs5622757 | 25;5 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg01150100 | 0.228934 | 0.570087 | 9.992939 | 1.21E-05 | 0.000891 | 3.937797 | 0.45562 | 0.684554 | -0.22893 | 3 | 1.75E+08 | R | II | NAALADL2 | Body | opensea | Body-opens | rs3733625 | 44;2;1 |
| cg09522840 | 0.216333 | 0.684504 | 9.992799 | 1.21E-05 | 0.000891 | 3.937694 | 0.576338 | 0.792671 | -0.21633 | 10 | 71613456 | R | II | COL13A1 | Body | opensea | Body-opens | rs1859084 | 11;4 |
| cg05224570 | 0.20723 | 0.50837 | 9.992746 | 1.21E-05 | 0.000891 | 3.937656 | 0.404755 | 0.611985 | -0.20723 | 15 | 45381921 | R | II | | IGR | opensea | IGR-opense | rs1918332 | 36 |
| cg02515000 | 0.210424 | 0.517858 | 9.992523 | 1.21E-05 | 0.000891 | 3.937492 | 0.412646 | 0.62307 | -0.21042 | 3 | 53569971 | F | II | CACNA1D | Body | opensea | Body-opens | rs5281491 | 42 |
| cg16859200 | 0.211318 | 0.499557 | 9.99236 | 1.21E-05 | 0.000891 | 3.937373 | 0.393898 | 0.605216 | -0.21132 | 16 | 5022748 | R | II | SEC14L5 | Body | opensea | Body-opens | rs1428255 | 47;36;18;17;15;13;1 |
| cg19620890 | 0.220839 | 0.484155 | 9.991186 | 1.21E-05 | 0.000891 | 3.936512 | 0.373735 | 0.594574 | -0.22084 | 6 | 27694665 | F | II | | IGR | opensea | IGR-opense | | |
| cg08776660 | 0.21683 | 0.520921 | 9.989664 | 1.21E-05 | 0.000892 | 3.935397 | 0.412506 | 0.629336 | -0.21683 | 16 | 1670473 | R | II | CRAMP1L | Body | opensea | Body-opens | rs1900052 | 38 |
| cg14617230 | 0.231853 | 0.559265 | 9.988779 | 1.21E-05 | 0.000892 | 3.934748 | 0.443338 | 0.675191 | -0.23185 | 6 | 1.39E+08 | R | II | REPS1 | Body | opensea | Body-opens | rs5373672 | 51;31 |
| cg18241330 | 0.209938 | 0.437624 | 9.984557 | 1.22E-05 | 0.000893 | 3.931652 | 0.332655 | 0.542593 | -0.20994 | 3 | 1.56E+08 | R | II | SSR3 | Body | shore | Body-shore | chr3:1562 | rs5715222 | 2 |
| cg04124720 | 0.223487 | 0.582935 | 9.983652 | 1.22E-05 | 0.000893 | 3.930988 | 0.471192 | 0.694678 | -0.22349 | 7 | 79086680 | R | II | MAGI2-AS3 | Body | shelf | Body-shelf | chr7:7908 | | |
| cg02299930 | 0.21795 | 0.483284 | 9.981054 | 1.22E-05 | 0.000894 | 3.929082 | 0.37431 | 0.592259 | -0.21795 | 17 | 4631697 | R | II | | IGR | shelf | IGR-shelf | chr17:463 | rs1395372 | 34;21 |
| cg04945370 | 0.239141 | 0.588768 | 9.980702 | 1.22E-05 | 0.000894 | 3.928824 | 0.469197 | 0.708338 | -0.23914 | 16 | 10970200 | R | II | CIITA | TSS1500 | shelf | TSS1500-sh | chr16:1097 | rs5564576 | 50;32;29;2;1 |
| cg05727290 | 0.221662 | 0.502025 | 9.979366 | 1.22E-05 | 0.000894 | 3.927844 | 0.391194 | 0.612856 | -0.22166 | 6 | 44929009 | F | II | SUPT3H | Body | opensea | Body-opens | | | |
| cg14178990 | 0.244864 | 0.542737 | 9.979165 | 1.22E-05 | 0.000894 | 3.927696 | 0.420306 | 0.665169 | -0.24486 | 4 | 76440699 | R | II | RCHY1 | TSS1500 | shore | TSS1500-sh | chr4:7643 | rs1402333 | 24;5 |
| cg16120100 | 0.234455 | 0.523795 | 9.978597 | 1.22E-05 | 0.000894 | 3.92728 | 0.406567 | 0.641022 | -0.23446 | 7 | 93112319 | R | II | MIR653 | TSS200 | opensea | TSS200-ope | rs5643076 | 30;1 |
| cg18844900 | 0.207669 | 0.653864 | 9.978559 | 1.22E-05 | 0.000894 | 3.927252 | 0.55003 | 0.757698 | -0.20767 | 18 | 12742595 | F | II | LOC10099( | Body | opensea | Body-opens | rs1421013 | 0 |
| cg12882730 | 0.219908 | 0.386222 | 9.97673 | 1.22E-05 | 0.000895 | 3.92591 | 0.276268 | 0.496176 | -0.21991 | 10 | 11251269 | R | II | CELF2 | Body | opensea | Body-opens | | | |
| cg03985020 | 0.220752 | 0.59195 | 9.975273 | 1.22E-05 | 0.000895 | 3.92484 | 0.481574 | 0.702326 | -0.22075 | 1 | 1.87E+08 | R | II | | IGR | opensea | IGR-opense | rs5618600 | 32 |
| cg02056260 | 0.209455 | 0.629153 | 9.975258 | 1.22E-05 | 0.000895 | 3.924828 | 0.524425 | 0.73388 | -0.20946 | 1 | 2.48E+08 | R | II | OR2T8 | TSS1500 | opensea | TSS1500-op | rs5756982 | 13 |
| cg20663430 | 0.249296 | 0.458461 | 9.97511 | 1.22E-05 | 0.000895 | 3.92472 | 0.333813 | 0.583109 | -0.2493 | 12 | 5696809 | F | II | ANO2 | Body | opensea | Body-opens | rs5295548 | 40;48 |
| cg04735390 | 0.260336 | 0.594208 | 9.974545 | 1.23E-05 | 0.000895 | 3.924305 | 0.46404 | 0.724377 | -0.26034 | 3 | 35906672 | R | II | | IGR | opensea | IGR-opense | rs1432372 | 50;15 |
| cg06393550 | 0.206223 | 0.448372 | 9.973101 | 1.23E-05 | 0.000896 | 3.923245 | 0.34526 | 0.551483 | -0.20622 | 11 | 69982916 | R | II | ANO1 | Body | opensea | Body-opens | | | |
| cg03382300 | 0.210447 | 0.596047 | 9.972934 | 1.23E-05 | 0.000896 | 3.923122 | 0.490823 | 0.70127 | -0.21045 | 15 | 66097959 | R | II | | IGR | opensea | IGR-opense | | | |
| cg19558850 | 0.249987 | 0.370464 | 9.971747 | 1.23E-05 | 0.000896 | 3.922251 | 0.245471 | 0.495458 | -0.24999 | 15 | 60507509 | R | II | | IGR | opensea | IGR-opense | | | |
| cg14034880 | 0.205951 | 0.581961 | 9.971417 | 1.23E-05 | 0.000896 | 3.922009 | 0.478985 | 0.684936 | -0.20595 | 3 | 37637413 | R | II | ITGA9 | Body | opensea | Body-opens | | | |
| cg27531920 | 0.251255 | 0.432661 | 9.970952 | 1.23E-05 | 0.000896 | 3.921667 | 0.307033 | 0.558288 | -0.25126 | 13 | 98598462 | R | II | | IGR | opensea | IGR-opense | rs5741080 | 1 |
| cg23732480 | 0.225972 | 0.422971 | 9.970311 | 1.23E-05 | 0.000896 | 3.921196 | 0.309984 | 0.535957 | -0.22597 | 3 | 48965611 | F | II | ARIH2 | Body | opensea | Body-opens | rs5640411 | 18 |
| cg27062240 | 0.2011 | 0.546431 | 9.967817 | 1.23E-05 | 0.000896 | 3.919364 | 0.445881 | 0.64698 | -0.2011 | 10 | 1.15E+08 | R | II | TCF7L2 | Body | opensea | Body-opens | rs5521350 | 43 |
| cg02536790 | 0.254918 | 0.518048 | 9.96765 | 1.23E-05 | 0.000896 | 3.919241 | 0.390589 | 0.645507 | -0.25492 | 5 | 1.68E+08 | R | II | TENM2 | Body | opensea | Body-opens | rs5635933 | 17;1 |
| cg26802300 | 0.220669 | 0.692859 | 9.966059 | 1.23E-05 | 0.000897 | 3.918072 | 0.582525 | 0.803194 | -0.22067 | 11 | 61042752 | F | II | VWCE | Body | opensea | Body-opens | rs5645552 | 0;8;23 |
| cg26646860 | 0.204983 | 0.697665 | 9.964899 | 1.23E-05 | 0.000897 | 3.91722 | 0.595174 | 0.800157 | -0.20498 | 5 | 68785451 | R | II | | IGR | shelf | IGR-shelf | chr5:6878 | rs1871023 | 49;8 |
| cg26178330 | 0.200357 | 0.348977 | 9.964858 | 1.23E-05 | 0.000897 | 3.91719 | 0.248799 | 0.449156 | -0.20036 | 4 | 78508595 | F | II | CXCL13 | 5'UTR | opensea | 5'UTR-open | rs5578376 | 0 |
| cg19071490 | 0.228868 | 0.553489 | 9.963882 | 1.23E-05 | 0.000898 | 3.916473 | 0.439055 | 0.667924 | -0.22887 | 1 | 63604560 | F | II | | IGR | opensea | IGR-opense | rs1118257 | 1 |
| cg25129420 | 0.230497 | 0.538738 | 9.963673 | 1.23E-05 | 0.000898 | 3.916318 | 0.42349 | 0.653987 | -0.2305 | 3 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | rs5393237 | 50;46;43;33;17 |
| cg08612760 | 0.200025 | 0.619628 | 9.962528 | 1.24E-05 | 0.000898 | 3.915477 | 0.519616 | 0.719641 | -0.20002 | 3 | 36449636 | R | II | STAC | Body | opensea | Body-opens | rs1138406 | 32 |
| cg20706460 | 0.203111 | 0.66868 | 9.962374 | 1.24E-05 | 0.000898 | 3.915364 | 0.567125 | 0.770235 | -0.20311 | 6 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | rs1810031 | 0 |
| cg20324780 | 0.217092 | 0.632078 | 9.961142 | 1.24E-05 | 0.000899 | 3.914459 | 0.523532 | 0.740624 | -0.21709 | 10 | 74436268 | F | II | | IGR | opensea | IGR-opense | rs5385150 | 38 |
| cg06313620 | 0.210596 | 0.613831 | 9.960975 | 1.24E-05 | 0.000899 | 3.914335 | 0.508533 | 0.719129 | -0.2106 | 18 | 72146136 | F | II | | IGR | opensea | IGR-opense | | |
| cg07807690 | 0.205338 | 0.459337 | 9.960249 | 1.24E-05 | 0.000899 | 3.913802 | 0.356669 | 0.562006 | -0.20534 | 9 | 75406192 | R | II | TMC1 | Body | opensea | Body-opens | rs5571643 | 3 |
| cg19848140 | 0.227196 | 0.608918 | 9.959139 | 1.24E-05 | 0.0009 | 3.912985 | 0.49532 | 0.722516 | -0.2272 | 2 | 1.69E+08 | R | II | STK39 | Body | opensea | Body-opens | rs1409336 | 2 |
| cg18147150 | 0.232255 | 0.578208 | 9.957132 | 1.24E-05 | 0.0009 | 3.91151 | 0.46208 | 0.694335 | -0.23226 | 10 | 92683987 | R | II | | IGR | opensea | IGR-opense | rs5781180 | 2;1 |
| cg21080220 | 0.226643 | 0.569927 | 9.956903 | 1.24E-05 | 0.0009 | 3.911341 | 0.456606 | 0.683248 | -0.22664 | 11 | 95933005 | R | II | MAML2 | Body | opensea | Body-opens | rs1898167 | 20 |
| cg15567150 | 0.221597 | 0.56858 | 9.956645 | 1.24E-05 | 0.0009 | 3.911152 | 0.457781 | 0.679378 | -0.2216 | 8 | 75014592 | F | II | | IGR | opensea | IGR-opense | rs1009061 | 6;34 |
| cg16072930 | 0.212114 | 0.613169 | 9.956243 | 1.24E-05 | 0.0009 | 3.910855 | 0.507112 | 0.719226 | -0.21211 | 5 | 64344256 | F | II | | IGR | opensea | IGR-opense | rs1882792 | 0;10;15;31 |
| cg16649570 | 0.222688 | 0.510689 | 9.954858 | 1.24E-05 | 0.000901 | 3.909837 | 0.399344 | 0.622033 | -0.22269 | 13 | 85182015 | R | II | | IGR | opensea | IGR-opense | rs1451908 | 37 |
| cg12661130 | 0.207077 | 0.634296 | 9.953373 | 1.24E-05 | 0.000901 | 3.908744 | 0.530757 | 0.737834 | -0.20708 | 10 | 11759774 | R | II | | IGR | opensea | IGR-opense | rs7511215 | 45 |
| cg20388590 | 0.2084 | 0.547812 | 9.953336 | 1.24E-05 | 0.000901 | 3.908717 | 0.443612 | 0.652012 | -0.2084 | 10 | 36915266 | F | II | | IGR | opensea | IGR-opense | rs5462803 | 11;28;50 |
| cg13524250 | 0.209551 | 0.591253 | 9.95327 | 1.24E-05 | 0.000901 | 3.908668 | 0.486478 | 0.696029 | -0.20955 | 10 | 80698358 | R | II | | IGR | opensea | IGR-opense | rs1924181 | 26;19;2 |
| cg17202840 | 0.248394 | 0.576072 | 9.95302 | 1.24E-05 | 0.000901 | 3.908485 | 0.451875 | 0.700269 | -0.24839 | 13 | 43294719 | F | II | | IGR | opensea | IGR-opense | rs1501921 | 19 |
| cg06442240 | 0.225862 | 0.591242 | 9.952075 | 1.24E-05 | 0.000901 | 3.90779 | 0.478311 | 0.704173 | -0.22586 | 16 | 19129228 | R | II | ITPRIPL2 | 1stExon | shore | 1stExon-sh | chr16:191 | rs5577708 | 2 |
| cg21416060 | 0.252018 | 0.515575 | 9.951002 | 1.25E-05 | 0.000901 | 3.907 | 0.389566 | 0.641584 | -0.25202 | 7 | 81645196 | F | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg22900080 | 0.237406 | 0.5762 | 9.94968 | 1.25E-05 | 0.000902 | 3.906026 | 0.457497 | 0.694903 | -0.23741 | 3 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | rs1854332 | 0;1;29 |
| cg26967150 | 0.204891 | 0.659421 | 9.947749 | 1.25E-05 | 0.000902 | 3.904605 | 0.556976 | 0.761867 | -0.20489 | 13 | 45062312 | F | II | TSC22D1 | Body | opensea | Body-opens | rs1881057 | 19;37 |
| cg03276880 | 0.222785 | 0.42825 | 9.946582 | 1.25E-05 | 0.000902 | 3.903746 | 0.316857 | 0.539643 | -0.22279 | 4 | 1.04E+08 | F | II | BDH2 | TSS1500 | opensea | TSS1500-op | rs1814926 | 1;50 |
| cg05363380 | 0.211939 | 0.452786 | 9.946098 | 1.25E-05 | 0.000902 | 3.90339 | 0.346816 | 0.558755 | -0.21194 | 17 | 45767653 | R | II | | IGR | shelf | IGR-shelf | chr17:457 | | |
| cg00022900 | 0.216499 | 0.555671 | 9.944247 | 1.25E-05 | 0.000903 | 3.902027 | 0.447421 | 0.66392 | -0.2165 | 8 | 94143534 | R | II | | IGR | opensea | IGR-opense | rs1822086 | 38 |
| cg10483440 | 0.205834 | 0.587752 | 9.943787 | 1.25E-05 | 0.000903 | 3.901687 | 0.484836 | 0.690669 | -0.20583 | 13 | 87782107 | F | II | | IGR | opensea | IGR-opense | rs5636335 | 1;21 |
| cg21532750 | 0.22719 | 0.639782 | 9.943716 | 1.25E-05 | 0.000903 | 3.901636 | 0.526187 | 0.753378 | -0.22719 | 9 | 1.08E+08 | F | II | ABCA1 | Body | opensea | Body-opens | rs5427660 | 18 |
| cg07993580 | 0.237397 | 0.568674 | 9.943162 | 1.25E-05 | 0.000903 | 3.901227 | 0.449975 | 0.687372 | -0.2374 | 7 | 1.57E+08 | F | II | DNAJB6 | Body | shore | Body-shore | chr7:1572 | rs5777873 | 0;6;41 |
| cg20028890 | 0.202647 | 0.4163 | 9.943082 | 1.25E-05 | 0.000903 | 3.901169 | 0.314976 | 0.517623 | -0.20265 | 4 | 1.14E+08 | R | II | ANK2 | 5'UTR | opensea | 5'UTR-open | rs1406853 | 2 |
| cg08027940 | 0.213564 | 0.557812 | 9.942715 | 1.25E-05 | 0.000903 | 3.900898 | 0.45103 | 0.664593 | -0.21356 | 14 | 53833982 | F | II | | IGR | opensea | IGR-opense | rs5710567 | 0;1;11;23;30 |
| cg06304890 | 0.207075 | 0.57833 | 9.942451 | 1.25E-05 | 0.000903 | 3.900704 | 0.474793 | 0.681868 | -0.20708 | 5 | 63870294 | R | II | RGS7BP | TSS1500 | opensea | TSS1500-op | rs5511678 | 40;4 |
| cg19362780 | 0.205142 | 0.637654 | 9.94212 | 1.25E-05 | 0.000903 | 3.90046 | 0.535083 | 0.740225 | -0.20514 | 9 | 82046357 | F | II | | IGR | opensea | IGR-opense | | |
| cg03651580 | 0.225789 | 0.604382 | 9.938971 | 1.26E-05 | 0.000905 | 3.89814 | 0.491487 | 0.717276 | -0.22579 | 7 | 40879777 | R | II | SUGCT | Body | opensea | Body-opens | | | |
| cg05658870 | 0.209228 | 0.645668 | 9.936539 | 1.26E-05 | 0.000905 | 3.896348 | 0.541054 | 0.750282 | -0.20923 | 4 | 74910375 | F | II | | IGR | opensea | IGR-opense | rs1855008 | 15 |
| cg13662770 | 0.200012 | 0.555246 | 9.935952 | 1.26E-05 | 0.000905 | 3.895915 | 0.45524 | 0.655252 | -0.20001 | 4 | 1.56E+08 | R | II | FGG | 5'UTR | opensea | 5'UTR-open | | | |
| cg21272710 | 0.212191 | 0.536405 | 9.934875 | 1.26E-05 | 0.000906 | 3.895121 | 0.430309 | 0.6425 | -0.21219 | 12 | 79194558 | R | II | | IGR | shelf | IGR-shelf | chr12:791 | | |
| cg07370390 | 0.203879 | 0.595506 | 9.932712 | 1.26E-05 | 0.000906 | 3.893527 | 0.493567 | 0.697445 | -0.20388 | 10 | 8704402 | F | II | | IGR | opensea | IGR-opense | rs5765391 | 1;24 |
| cg00496460 | 0.232853 | 0.547774 | 9.931205 | 1.26E-05 | 0.000907 | 3.892416 | 0.431348 | 0.664201 | -0.23285 | 7 | 93577610 | F | II | | IGR | opensea | IGR-opense | rs1492379 | 22 |
| cg21580040 | 0.237652 | 0.420867 | 9.928984 | 1.27E-05 | 0.000908 | 3.890778 | 0.302041 | 0.539693 | -0.23765 | 17 | 17929070 | F | II | ATPAF2 | Body | opensea | Body-opens | rs1134836 | 36 |
| cg18311700 | 0.204209 | 0.399 | 9.928477 | 1.27E-05 | 0.000908 | 3.890403 | 0.296895 | 0.501104 | -0.20421 | 12 | 52730954 | R | II | | IGR | opensea | IGR-opense | | |
| cg11311280 | 0.213303 | 0.676174 | 9.92678 | 1.27E-05 | 0.000908 | 3.889152 | 0.569523 | 0.782826 | -0.2133 | 12 | 63088234 | F | II | PPM1H | Body | opensea | Body-opens | rs5726652 | 0 |
| cg20553270 | 0.268358 | 0.535653 | 9.926421 | 1.27E-05 | 0.000908 | 3.888887 | 0.401474 | 0.669832 | -0.26836 | 4 | 96336870 | R | II | UNC5C | Body | opensea | Body-opens | rs1828039 | 50;31;21;20;14;1 |
| cg04912120 | 0.206739 | 0.401816 | 9.926018 | 1.27E-05 | 0.000908 | 3.888589 | 0.298446 | 0.505186 | -0.20674 | 6 | 1.54E+08 | F | II | OPRM1 | TSS1500 | opensea | TSS1500-op | rs1163440 | 44 |
| cg01228350 | 0.2282 | 0.528869 | 9.924796 | 1.27E-05 | 0.000909 | 3.887687 | 0.414769 | 0.642969 | -0.2282 | 2 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | rs5538231 | 1;22;39;43;51 |
| cg11389860 | 0.217248 | 0.520783 | 9.924618 | 1.27E-05 | 0.000909 | 3.887556 | 0.412159 | 0.629407 | -0.21725 | 11 | 69240780 | R | II | | IGR | opensea | IGR-opense | rs5526613 | 1 |
| cg05376930 | 0.24281 | 0.475135 | 9.922876 | 1.27E-05 | 0.000909 | 3.886271 | 0.353731 | 0.59654 | -0.24281 | 1 | 2.25E+08 | R | II | CNIH3 | Body | opensea | Body-opens | rs5764090 | 32;33;47 |
| cg06823530 | 0.24467 | 0.590824 | 9.92088 | 1.27E-05 | 0.00091 | 3.884798 | 0.468489 | 0.713159 | -0.24467 | 4 | 38719348 | F | II | | IGR | opensea | IGR-opense | rs1136911 | 0 |
| cg03509950 | 0.201045 | 0.610846 | 9.919766 | 1.27E-05 | 0.00091 | 3.883975 | 0.510323 | 0.711368 | -0.20105 | 12 | 3544062 | F | II | PRMT8 | Body | opensea | Body-opens | rs1886563 | 0;5;25;45 |
| cg05242490 | 0.203115 | 0.397554 | 9.919601 | 1.27E-05 | 0.00091 | 3.883853 | 0.295997 | 0.499112 | -0.20311 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | rs5701278 | 1;17 |
| cg04890020 | 0.218462 | 0.537694 | 9.919384 | 1.27E-05 | 0.00091 | 3.883693 | 0.428463 | 0.646926 | -0.21846 | 18 | 74842101 | F | II | MBP | 5'UTR | shore | 5'UTR-shor | chr18:748 | rs1917729 | 31 |
| cg24864880 | 0.201382 | 0.626944 | 9.917416 | 1.28E-05 | 0.000911 | 3.88224 | 0.526252 | 0.727635 | -0.20138 | 18 | 7447886 | F | II | | IGR | opensea | IGR-opense | rs5499384 | 1;36;37 |
| cg11907320 | 0.219968 | 0.611809 | 9.91589 | 1.28E-05 | 0.000912 | 3.881113 | 0.501825 | 0.721793 | -0.21997 | 8 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | rs5548119 | 15;17 |
| cg26689680 | 0.21203 | 0.464515 | 9.91558 | 1.28E-05 | 0.000912 | 3.880883 | 0.3585 | 0.57053 | -0.21203 | 5 | 86418216 | R | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg03490970 | 0.215424 | 0.597821 | 9.91472 | 1.28E-05 | 0.000912 | 3.880248 | 0.490109 | 0.705533 | -0.21542 | 3 | 1.19E+08 | R | II | UPK1B | 5'UTR | opensea | 5'UTR-open | rs5526797 | 31 |
| cg06245300 | 0.22027 | 0.426499 | 9.914124 | 1.28E-05 | 0.000912 | 3.879808 | 0.316364 | 0.536634 | -0.22027 | 1 | 48227883 | R | II | TRABD2B | 3'UTR | opensea | 3'UTR-open | rs1849128 | 11 |
| cg21455920 | 0.211999 | 0.611623 | 9.913974 | 1.28E-05 | 0.000912 | 3.879697 | 0.505624 | 0.717622 | -0.212 | 3 | 57326068 | R | II | ASB14 | 5'UTR | opensea | 5'UTR-open | rs1460061 | 37;5;1 |
| cg11300240 | 0.251496 | 0.606308 | 9.91241 | 1.28E-05 | 0.000912 | 3.878542 | 0.48056 | 0.732056 | -0.2515 | 9 | 1.37E+08 | F | II | | IGR | opensea | IGR-opense | rs1466424 | 1;3;5;15;42;46 |
| cg07915770 | 0.203504 | 0.55338 | 9.911991 | 1.28E-05 | 0.000912 | 3.878232 | 0.451628 | 0.655131 | -0.2035 | 2 | 1.9E+08 | R | II | | IGR | opensea | IGR-opense | rs1163616 | 44;1 |
| cg16806040 | 0.230848 | 0.661315 | 9.910985 | 1.28E-05 | 0.000912 | 3.877489 | 0.545891 | 0.776739 | -0.23085 | 13 | 39880988 | R | II | | IGR | opensea | IGR-opense | rs5682308 | 51 |
| cg18860380 | 0.235689 | 0.438554 | 9.910537 | 1.28E-05 | 0.000912 | 3.877158 | 0.320709 | 0.556398 | -0.23569 | 16 | 73147208 | F | II | | IGR | opensea | IGR-opense | rs5528517 | 0;6 |
| cg13186120 | 0.237753 | 0.563034 | 9.91001 | 1.28E-05 | 0.000912 | 3.876768 | 0.444158 | 0.68191 | -0.23775 | 12 | 40117933 | F | II | | IGR | opensea | IGR-opense | rs5497262 | 18;23 |
| cg26426690 | 0.200979 | 0.402263 | 9.907893 | 1.28E-05 | 0.000913 | 3.875204 | 0.301774 | 0.502753 | -0.20098 | 10 | 93861824 | R | II | CPEB3 | Body | opensea | Body-opens | rs1842588 | 34 |
| cg13697890 | 0.251715 | 0.526481 | 9.907801 | 1.29E-05 | 0.000913 | 3.875136 | 0.400623 | 0.652338 | -0.25171 | 17 | 73312128 | F | II | | IGR | opensea | IGR-opense | rs1141066 | 44 |
| cg19929190 | 0.248559 | 0.55374 | 9.907586 | 1.29E-05 | 0.000913 | 3.874977 | 0.42946 | 0.67802 | -0.24856 | 7 | 22390378 | R | II | RAPGEF5 | 5'UTR | opensea | 5'UTR-open | rs1445035 | 28;1 |
| cg06590150 | 0.232638 | 0.526352 | 9.905981 | 1.29E-05 | 0.000914 | 3.87379 | 0.410033 | 0.64267 | -0.23264 | 4 | 1.24E+08 | F | II | IL21-AS1 | Body | opensea | Body-opens | rs5442322 | 0;15;40 |
| cg22706870 | 0.200397 | 0.618274 | 9.905434 | 1.29E-05 | 0.000914 | 3.873386 | 0.518076 | 0.718473 | -0.2004 | 10 | 74634711 | R | II | MCU | Body | opensea | Body-opens | rs5424242 | 34;3 |
| cg26173910 | 0.215869 | 0.684219 | 9.905079 | 1.29E-05 | 0.000914 | 3.873124 | 0.576285 | 0.792154 | -0.21587 | 3 | 19387759 | R | II | KCNH8 | Body | opensea | Body-opens | rs1860406 | 24;4 |
| cg06738780 | 0.242543 | 0.419452 | 9.902176 | 1.29E-05 | 0.000915 | 3.870976 | 0.298181 | 0.540723 | -0.24254 | 20 | 19265058 | R | II | LOC10013( | Body | opensea | Body-opens | rs3692381 | 49;42 |
| cg18007980 | 0.221613 | 0.607456 | 9.9019 | 1.29E-05 | 0.000915 | 3.870773 | 0.496649 | 0.718263 | -0.22161 | 7 | 95022330 | R | II | PON3 | Body | shelf | Body-shelf | chr7:9502 | rs1777416 | 16 |
| cg00232200 | 0.203981 | 0.536015 | 9.900043 | 1.29E-05 | 0.000915 | 3.869399 | 0.434024 | 0.638005 | -0.20398 | 9 | 1.14E+08 | R | II | LPAR1 | 5'UTR | opensea | 5'UTR-open | rs3761046 | 45;21 |
| cg05449740 | 0.202516 | 0.51912 | 9.899336 | 1.29E-05 | 0.000916 | 3.868876 | 0.417862 | 0.620378 | -0.20252 | 13 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | rs1841110 | 2 |
| cg25557970 | 0.208484 | 0.624125 | 9.898368 | 1.29E-05 | 0.000916 | 3.868159 | 0.519883 | 0.728367 | -0.20848 | 13 | 78119389 | F | II | SCEL | 5'UTR | opensea | 5'UTR-open | rs5670435 | 47 |
| cg06169100 | 0.214378 | 0.619394 | 9.897177 | 1.29E-05 | 0.000916 | 3.867278 | 0.512205 | 0.726584 | -0.21438 | 1 | 1.57E+08 | R | II | | IGR | opensea | IGR-opense | rs1396870 | 5;2 |
| cg10295320 | 0.203319 | 0.567294 | 9.89642 | 1.3E-05 | 0.000917 | 3.866718 | 0.465635 | 0.668954 | -0.20332 | 11 | 66814384 | R | II | SYT12 | Body | opensea | Body-opens | rs5314605 | 10;4 |
| cg11867720 | 0.210631 | 0.665829 | 9.896364 | 1.3E-05 | 0.000917 | 3.866676 | 0.560514 | 0.771145 | -0.21063 | 22 | 45903851 | R | II | FBLN1 | Body | opensea | Body-opens | rs5515877 | 48;44 |
| cg09953290 | 0.216244 | 0.554228 | 9.895137 | 1.3E-05 | 0.000917 | 3.865769 | 0.446107 | 0.66235 | -0.21624 | 6 | 4347415 | R | II | | IGR | opensea | IGR-opense | rs5372538 | 2 |
| cg02729600 | 0.211052 | 0.505707 | 9.895078 | 1.3E-05 | 0.000917 | 3.865725 | 0.40018 | 0.611233 | -0.21105 | 7 | 94995740 | R | II | PON3 | Body | opensea | Body-opens | rs5409639 | 16;1 |
| cg11786330 | 0.25208 | 0.505904 | 9.894135 | 1.3E-05 | 0.000918 | 3.865027 | 0.379864 | 0.631944 | -0.25208 | 18 | 56809717 | F | II | SEC11C | Body | shelf | Body-shelf | chr18:568 | rs1260467 | 26;35 |
| cg03185920 | 0.213489 | 0.725978 | 9.893504 | 1.3E-05 | 0.000918 | 3.864559 | 0.619233 | 0.832722 | -0.21349 | 14 | 1E+08 | F | II | CYP46A1 | Body | opensea | Body-opens | rs1881045 | 0 |
| cg17630130 | 0.200862 | 0.675452 | 9.891877 | 1.3E-05 | 0.000918 | 3.863355 | 0.575021 | 0.775883 | -0.20086 | 3 | 1.55E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:1550 | rs5676239 | 34;21 |
| cg03122830 | 0.213355 | 0.586301 | 9.890711 | 1.3E-05 | 0.000919 | 3.862492 | 0.479623 | 0.692978 | -0.21336 | 18 | 332912 | R | II | COLEC12 | Body | opensea | Body-opens | rs5734366 | 34 |
| cg07894200 | 0.228318 | 0.530397 | 9.890322 | 1.3E-05 | 0.000919 | 3.862204 | 0.416238 | 0.644556 | -0.22832 | 12 | 78481296 | F | II | NAV3 | Body | opensea | Body-opens | rs1282375 | 0;1;23 |
| cg13631290 | 0.20653 | 0.617933 | 9.890067 | 1.3E-05 | 0.000919 | 3.862015 | 0.514668 | 0.721198 | -0.20653 | 5 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | rs1491261 | 48;8;3;2;1 |
| cg04758020 | 0.249392 | 0.498374 | 9.887131 | 1.3E-05 | 0.00092 | 3.85984 | 0.373678 | 0.62307 | -0.24939 | 2 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | rs5318671 | 49;24;2 |
| cg11374350 | 0.207917 | 0.533583 | 9.882631 | 1.31E-05 | 0.000921 | 3.856506 | 0.429625 | 0.637542 | -0.20792 | 19 | 39925660 | R | II | RPS16 | Body | shore | Body-shore | chr19:399 | rs7303338 | 41 |
| cg24533050 | 0.210906 | 0.415899 | 9.881221 | 1.31E-05 | 0.000922 | 3.855461 | 0.310446 | 0.521352 | -0.21091 | 7 | 1.15E+08 | R | II | LINC01392 | TSS200 | opensea | TSS200-ope | rs5475150 | 50;7;1 |
| cg07457850 | 0.208812 | 0.46555 | 9.879578 | 1.31E-05 | 0.000922 | 3.854244 | 0.361144 | 0.569955 | -0.20881 | 10 | 77028890 | R | II | | IGR | opensea | IGR-opense | rs5360403 | 27 |
| cg16920300 | 0.257658 | 0.582246 | 9.878756 | 1.31E-05 | 0.000923 | 3.853634 | 0.453417 | 0.711076 | -0.25766 | 4 | 74548513 | R | II | | IGR | opensea | IGR-opense | rs5495018 | 51;41;41;37;2;1 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0112073 | 0.28872 | 0.455863 | 9.876402 | 1.31E-05 | 0.000923 | 3.851889 | 0.311504 | 0.600223 | -0.28872 | 19 | 19080651 | R | II | | IGR | opensea | IGR-opense | | rs1464859 | 41;27 |
| cg0171264 | 0.21729 | 0.538757 | 9.87533 | 1.32E-05 | 0.000923 | 3.851093 | 0.430112 | 0.647402 | -0.21729 | 2 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs6218219 | 23;16;2 |
| cg2083810 | 0.216631 | 0.582697 | 9.875083 | 1.32E-05 | 0.000923 | 3.85091 | 0.474382 | 0.691013 | -0.21663 | 9 | 37820310 | F | II | DCAF10 | Body | opensea | Body-opens | | rs1818606 | 0;1;41;46 |
| cg1188356 | 0.218216 | 0.425761 | 9.87476 | 1.32E-05 | 0.000923 | 3.850671 | 0.316653 | 0.534869 | -0.21822 | 6 | 1.12E+08 | F | II | FYN | 5'UTR | opensea | 5'UTR-open | | rs1463810 | 33;37 |
| cg1087500 | 0.215798 | 0.657921 | 9.87144 | 1.32E-05 | 0.000924 | 3.848208 | 0.550022 | 0.76582 | -0.2158 | 4 | 85799002 | F | II | WDFY3 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0643050 | 0.210091 | 0.495801 | 9.871138 | 1.32E-05 | 0.000924 | 3.847984 | 0.390756 | 0.600847 | -0.21009 | 21 | 44853470 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1637991 | 0.209724 | 0.551667 | 9.871021 | 1.32E-05 | 0.000924 | 3.847897 | 0.446805 | 0.656529 | -0.20972 | 9 | 1.14E+08 | F | II | MUSK | Body | opensea | Body-opens | | rs5379414 | 20 |
| cg1448565 | 0.219559 | 0.635033 | 9.869277 | 1.32E-05 | 0.000925 | 3.846603 | 0.525254 | 0.744813 | -0.21956 | 3 | 23622488 | R | II | UBE2E2 | Body | opensea | Body-opens | | rs7777691 | 43;1 |
| cg0490235 | 0.201478 | 0.706224 | 9.867902 | 1.32E-05 | 0.000926 | 3.845582 | 0.605485 | 0.806963 | -0.20148 | 8 | 30357101 | R | II | RBPMS | Body | opensea | Body-opens | | rs5585956 | 6;1 |
| cg0292602 | 0.225797 | 0.619513 | 9.867849 | 1.32E-05 | 0.000926 | 3.845543 | 0.506615 | 0.732412 | -0.2258 | 1 | 1.78E+08 | F | II | RASAL2 | Body | opensea | Body-opens | | rs1906417 | 0;50 |
| cg1149821 | 0.229143 | 0.630862 | 9.867384 | 1.32E-05 | 0.000926 | 3.845198 | 0.516291 | 0.745434 | -0.22914 | 1 | 2.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs6182036 | 49;10;1 |
| cg0415319 | 0.212955 | 0.451397 | 9.866545 | 1.32E-05 | 0.000926 | 3.844575 | 0.344919 | 0.557874 | -0.21295 | 2 | 38264963 | R | II | RMDN2-AS | TSS1500 | opensea | TSS1500-op | | rs5482063 | 45;2 |
| cg0589202 | 0.221041 | 0.614035 | 9.866322 | 1.32E-05 | 0.000926 | 3.844409 | 0.503514 | 0.724555 | -0.22104 | 7 | 553412 | F | II | PDGFA | Body | shelf | Body-shelf | chr7:5566 | rs1918144 | 0;1;21 |
| cg0629795 | 0.213027 | 0.514656 | 9.865789 | 1.32E-05 | 0.000926 | 3.844014 | 0.408142 | 0.621169 | -0.21303 | 15 | 39985286 | R | II | FSIP1 | Body | opensea | Body-opens | | rs1163582 | 7;6 |
| cg0611689 | 0.218987 | 0.506964 | 9.865736 | 1.32E-05 | 0.000926 | 3.843974 | 0.39747 | 0.616457 | -0.21899 | 6 | 41372569 | R | II | | IGR | shore | IGR-shore | chr6:4137 | rs5706286 | 35;4 |
| cg1874250 | 0.208349 | 0.550526 | 9.865434 | 1.32E-05 | 0.000926 | 3.84375 | 0.446352 | 0.6547 | -0.20835 | 9 | 33185416 | R | II | | IGR | opensea | IGR-opense | | rs1915474 | 38;26;1 |
| cg1768146 | 0.230503 | 0.687773 | 9.862977 | 1.33E-05 | 0.000927 | 3.841926 | 0.572521 | 0.803024 | -0.2305 | 4 | 10131207 | R | II | | IGR | opensea | IGR-opense | | rs6228660 | 48;44;43;40;16;8 |
| cg1284999 | 0.241196 | 0.525838 | 9.86278 | 1.33E-05 | 0.000927 | 3.84178 | 0.40524 | 0.646435 | -0.2412 | 15 | 51970513 | R | II | | IGR | shelf | IGR-shelf | chr15:519 | rs5601462 | 26 |
| cg1876435 | 0.205016 | 0.550568 | 9.862433 | 1.33E-05 | 0.000927 | 3.841522 | 0.44806 | 0.653076 | -0.20502 | 7 | 85138606 | R | II | | IGR | opensea | IGR-opense | | rs1844212 | 33;2 |
| cg1615848 | 0.20518 | 0.671392 | 9.86177 | 1.33E-05 | 0.000927 | 3.84103 | 0.568802 | 0.773982 | -0.20518 | 1 | 33891592 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0324950 | 0.202461 | 0.436021 | 9.861491 | 1.33E-05 | 0.000927 | 3.840823 | 0.334791 | 0.537252 | -0.20246 | 2 | 2.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5274170 | 0;6;45 |
| cg1929626 | 0.211082 | 0.535942 | 9.861037 | 1.33E-05 | 0.000927 | 3.840485 | 0.430401 | 0.641483 | -0.21108 | 6 | 25636039 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1413626 | 0.201172 | 0.563322 | 9.859638 | 1.33E-05 | 0.000928 | 3.839446 | 0.462736 | 0.663908 | -0.20117 | 11 | 73711382 | R | II | UCP3 | 3'UTR | opensea | 3'UTR-open | | | |
| cg1988188 | 0.2308 | 0.581009 | 9.858422 | 1.33E-05 | 0.000928 | 3.838542 | 0.465609 | 0.696409 | -0.2308 | 7 | 12362656 | F | II | | IGR | opensea | IGR-opense | | rs5761410 | 6;7;12;19;31 |
| cg1180034 | 0.20067 | 0.653689 | 9.858113 | 1.33E-05 | 0.000928 | 3.838313 | 0.553354 | 0.754024 | -0.20067 | 9 | 1.14E+08 | F | II | LPAR1 | Body | opensea | Body-opens | | rs1869473 | 1;2 |
| cg2130398 | 0.231534 | 0.437362 | 9.856812 | 1.33E-05 | 0.000928 | 3.837346 | 0.321595 | 0.553129 | -0.23153 | 2 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1016902 | 39;24;5;1 |
| cg2292642 | 0.212242 | 0.566196 | 9.855823 | 1.33E-05 | 0.000929 | 3.836612 | 0.460075 | 0.672317 | -0.21224 | 12 | 70721074 | F | II | CNOT2 | Body | opensea | Body-opens | | rs5307862 | 18;37 |
| cg2296235 | 0.258769 | 0.581004 | 9.854794 | 1.34E-05 | 0.000929 | 3.835847 | 0.45162 | 0.710388 | -0.25877 | 18 | 42982855 | R | II | SLC14A2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0784314 | 0.241125 | 0.509088 | 9.85466 | 1.34E-05 | 0.000929 | 3.835747 | 0.388525 | 0.62965 | -0.24112 | 5 | 38925921 | F | II | OSMR | Body | opensea | Body-opens | | rs5732044 | 1 |
| cg1964000 | 0.21723 | 0.632106 | 9.854545 | 1.34E-05 | 0.000929 | 3.835661 | 0.523491 | 0.740721 | -0.21723 | 4 | 1.47E+08 | R | II | C4orf51 | TSS1500 | opensea | TSS1500-op | | | |
| cg2577325 | 0.205311 | 0.664887 | 9.853223 | 1.34E-05 | 0.000929 | 3.834679 | 0.562231 | 0.767542 | -0.20531 | 12 | 94019073 | R | II | | IGR | opensea | IGR-opense | | rs7213823 | 44;21;2 |
| cg2359465 | 0.211377 | 0.667077 | 9.853178 | 1.34E-05 | 0.000929 | 3.834646 | 0.561389 | 0.772766 | -0.21138 | 7 | 65796392 | R | II | TPST1 | Body | opensea | Body-opens | | | |
| cg0138120 | 0.25418 | 0.493214 | 9.852322 | 1.34E-05 | 0.00093 | 3.834009 | 0.366124 | 0.620304 | -0.25418 | 12 | 2985630 | F | II | FOXM1 | 5'UTR | shore | 5'UTR-shor | chr12:298 | rs5745077 | 23;25 |
| cg0528405 | 0.20821 | 0.630918 | 9.85204 | 1.34E-05 | 0.00093 | 3.8338 | 0.526813 | 0.735023 | -0.20821 | 10 | 80665368 | R | II | | IGR | opensea | IGR-opense | | rs5540503 | 24;15;2;1 |
| cg2563256 | 0.222149 | 0.630011 | 9.851818 | 1.34E-05 | 0.00093 | 3.833634 | 0.518937 | 0.741086 | -0.22215 | 5 | 36422692 | R | II | | IGR | opensea | IGR-opense | | rs1493826 | 39 |
| cg1840833 | 0.219224 | 0.507396 | 9.851662 | 1.34E-05 | 0.00093 | 3.833518 | 0.397783 | 0.617008 | -0.21922 | 18 | 3305544 | R | II | | IGR | opensea | IGR-opense | | rs5344272 | 42 |
| cg0876398 | 0.217012 | 0.53213 | 9.849603 | 1.34E-05 | 0.000931 | 3.831988 | 0.423624 | 0.640636 | -0.21701 | 10 | 44872504 | R | II | CXCL12 | Body | opensea | Body-opens | | rs5344946 | 39;32 |
| cg2612123 | 0.202108 | 0.453081 | 9.848885 | 1.34E-05 | 0.000931 | 3.831454 | 0.352027 | 0.554135 | -0.20211 | 3 | 13899618 | F | II | WNT7A | Body | shelf | Body-shelf | chr3:1389 | rs1863682 | 1;51 |
| cg2349849 | 0.224643 | 0.56968 | 9.847741 | 1.34E-05 | 0.000932 | 3.830603 | 0.457359 | 0.682002 | -0.22464 | 7 | 90095672 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1204492 | 0.209974 | 0.407512 | 9.846361 | 1.34E-05 | 0.000932 | 3.829577 | 0.302525 | 0.512499 | -0.20997 | 4 | 5207312 | F | II | STK32B | Body | opensea | Body-opens | | rs3725833 | 15;27;49 |
| cg0866541 | 0.234249 | 0.468698 | 9.845353 | 1.34E-05 | 0.000932 | 3.828827 | 0.351573 | 0.585822 | -0.23425 | 19 | 46969849 | R | II | PNMAL1 | 3'UTR | opensea | 3'UTR-open | | rs5392116 | 19;4 |
| cg0287977 | 0.218611 | 0.525332 | 9.844752 | 1.34E-05 | 0.000932 | 3.828379 | 0.416027 | 0.634638 | -0.21861 | 10 | 80407110 | F | II | | IGR | opensea | IGR-opense | | rs8023439 | 7;10 |
| cg0724743 | 0.242033 | 0.529621 | 9.842395 | 1.35E-05 | 0.000933 | 3.826626 | 0.408604 | 0.650637 | -0.24203 | 18 | 9809551 | F | II | RAB31 | Body | opensea | Body-opens | | rs1163111 | 50 |
| cg1527404 | 0.233477 | 0.508118 | 9.840226 | 1.35E-05 | 0.000934 | 3.825011 | 0.391379 | 0.624856 | -0.23348 | 19 | 1102570 | F | II | GPX4 | TSS1500 | shore | TSS1500-sh | chr19:110 | rs5655066 | 3;24;41 |
| cg1237805 | 0.236071 | 0.587838 | 9.839319 | 1.35E-05 | 0.000935 | 3.824336 | 0.469802 | 0.705873 | -0.23607 | 1 | 74929525 | R | II | FPGT-TNN | Body | opensea | Body-opens | | rs1709537 | 41;4 |
| cg1920563 | 0.224093 | 0.651777 | 9.838658 | 1.35E-05 | 0.000935 | 3.823844 | 0.539731 | 0.763824 | -0.22409 | 11 | 59282123 | F | II | OR4D9 | TSS1500 | opensea | TSS1500-op | | rs5641148 | 0;31 |
| cg2544918 | 0.204623 | 0.463112 | 9.838654 | 1.35E-05 | 0.000935 | 3.823841 | 0.360801 | 0.565424 | -0.20462 | 3 | 70115097 | F | II | | IGR | opensea | IGR-opense | | rs5751266 | 31 |
| cg2499067 | 0.239795 | 0.56761 | 9.838255 | 1.35E-05 | 0.000935 | 3.823544 | 0.447712 | 0.687507 | -0.2398 | 20 | 8048453 | R | II | | IGR | opensea | IGR-opense | | rs5287949 | 39;2;1 |
| cg2698671 | 0.24602 | 0.542749 | 9.838171 | 1.35E-05 | 0.000935 | 3.823481 | 0.419739 | 0.665759 | -0.24602 | 3 | 1.22E+08 | R | II | ILDR1 | Body | opensea | Body-opens | | rs5571512 | 2 |
| cg0759225 | 0.226481 | 0.497903 | 9.836872 | 1.35E-05 | 0.000936 | 3.822514 | 0.384663 | 0.611144 | -0.22648 | 16 | 57910413 | F | II | | IGR | opensea | IGR-opense | | rs1724095 | 30 |
| cg1585213 | 0.230603 | 0.583173 | 9.836292 | 1.35E-05 | 0.000936 | 3.822082 | 0.467871 | 0.698475 | -0.2306 | 18 | 12102699 | F | II | ANKRD62 | Body | opensea | Body-opens | | | |
| cg1806555 | 0.207705 | 0.561366 | 9.834636 | 1.35E-05 | 0.000936 | 3.82085 | 0.457514 | 0.665219 | -0.20771 | 3 | 58596027 | F | II | FAM107A | Body | opensea | Body-opens | | rs5435428 | 22;28;33;40 |
| cg1985361 | 0.212659 | 0.474985 | 9.834499 | 1.35E-05 | 0.000936 | 3.820747 | 0.368656 | 0.581314 | -0.21266 | 5 | 1.22E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | rs1827566 | 1;39 |
| cg0239652 | 0.223191 | 0.550434 | 9.83422 | 1.36E-05 | 0.000936 | 3.82054 | 0.438838 | 0.662029 | -0.22319 | 2 | 1.96E+08 | F | II | | IGR | opensea | IGR-opense | | rs1456292 | 15 |
| cg1358593 | 0.240741 | 0.509833 | 9.832559 | 1.36E-05 | 0.000936 | 3.819302 | 0.389462 | 0.630203 | -0.24074 | 10 | 72027357 | R | II | NPFFR1 | TSS1500 | opensea | TSS1500-op | | rs5657026 | 5;2 |
| cg1355908 | 0.26055 | 0.543497 | 9.831923 | 1.36E-05 | 0.000937 | 3.818829 | 0.413222 | 0.673772 | -0.26055 | 15 | 94441198 | F | II | | IGR | opensea | IGR-opense | | rs5305341 | 0 |
| cg2385341 | 0.203144 | 0.587887 | 9.830165 | 1.36E-05 | 0.000937 | 3.817519 | 0.486314 | 0.689459 | -0.20314 | 10 | 45065077 | F | II | | IGR | opensea | IGR-opense | | rs5563500 | 0;1 |
| cg0403988 | 0.206979 | 0.466977 | 9.829853 | 1.36E-05 | 0.000937 | 3.817287 | 0.363487 | 0.570466 | -0.20698 | 1 | 2.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs7866368 | 15;12 |
| cg1221957 | 0.2217 | 0.617334 | 9.828576 | 1.36E-05 | 0.000938 | 3.816335 | 0.506484 | 0.728184 | -0.2217 | 2 | 1.74E+08 | F | II | ZAK | Body | opensea | Body-opens | | rs5762998 | 27 |
| cg1926877 | 0.215339 | 0.628222 | 9.826819 | 1.36E-05 | 0.000938 | 3.815026 | 0.520552 | 0.735891 | -0.21534 | 10 | 52041044 | R | II | | IGR | opensea | IGR-opense | | rs5343551 | 39;37 |
| cg1289842 | 0.207604 | 0.429025 | 9.826727 | 1.36E-05 | 0.000938 | 3.814957 | 0.325223 | 0.532827 | -0.2076 | 8 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs1479250 | 25 |
| cg1830159 | 0.222402 | 0.592732 | 9.82621 | 1.36E-05 | 0.000938 | 3.814572 | 0.481531 | 0.703933 | -0.2224 | 11 | 1.27E+08 | F | II | KIRREL3 | Body | opensea | Body-opens | | rs5507860 | 0 |
| cg1941213 | 0.223351 | 0.642697 | 9.824122 | 1.37E-05 | 0.000939 | 3.813015 | 0.531022 | 0.754373 | -0.22335 | 6 | 16747686 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5732894 | 3 |
| cg2153281 | 0.20928 | 0.435674 | 9.823454 | 1.37E-05 | 0.000939 | 3.812517 | 0.331034 | 0.540314 | -0.20928 | 1 | 1.59E+08 | R | II | CADM3 | Body | opensea | Body-opens | | rs5578788 | 44;1 |
| cg2648412 | 0.232736 | 0.594656 | 9.821967 | 1.37E-05 | 0.00094 | 3.811408 | 0.478287 | 0.711024 | -0.23274 | 18 | 10094391 | R | II | | IGR | opensea | IGR-opense | | rs3728334 | 1 |
| cg2494306 | 0.200554 | 0.411036 | 9.821324 | 1.37E-05 | 0.00094 | 3.810929 | 0.310759 | 0.511313 | -0.20055 | 21 | 27009142 | R | II | | IGR | shelf | IGR-shelf | chr21:270 | | |
| cg0464507 | 0.250012 | 0.449562 | 9.821323 | 1.37E-05 | 0.00094 | 3.810928 | 0.324556 | 0.574568 | -0.25001 | 11 | 34393106 | F | II | | IGR | opensea | IGR-opense | | rs5693732 | 0;4;43 |
| cg0362811 | 0.251237 | 0.618217 | 9.820541 | 1.37E-05 | 0.00094 | 3.810344 | 0.492599 | 0.743836 | -0.25124 | 12 | 68553980 | F | II | IFNG | TSS1500 | opensea | TSS1500-op | | rs5514063 | 2;48 |
| cg2165957 | 0.210238 | 0.515538 | 9.820173 | 1.37E-05 | 0.00094 | 3.81007 | 0.410419 | 0.620657 | -0.21024 | 17 | 47467409 | F | II | | IGR | opensea | IGR-opense | | rs5290923 | 0;2 |
| cg0454131 | 0.220102 | 0.42841 | 9.819878 | 1.37E-05 | 0.00094 | 3.80985 | 0.318359 | 0.538461 | -0.2201 | 15 | 33897878 | F | II | RYR3 | Body | opensea | Body-opens | | rs5532466 | 7;43 |
| cg1100103 | 0.213467 | 0.619213 | 9.819721 | 1.37E-05 | 0.00094 | 3.809733 | 0.51248 | 0.725946 | -0.21347 | 12 | 13306175 | R | II | | IGR | opensea | IGR-opense | | rs5305450 | 41;2 |
| cg1740838 | 0.207309 | 0.648088 | 9.819151 | 1.37E-05 | 0.000941 | 3.809308 | 0.544433 | 0.751743 | -0.20731 | 17 | 27049137 | F | II | RPL23A | Body | shore | Body-shore | chr17:270 | rs5429103 | 4;14;35 |
| cg1334271 | 0.239434 | 0.633999 | 9.818217 | 1.37E-05 | 0.000941 | 3.808611 | 0.514282 | 0.753716 | -0.23943 | 3 | 1.23E+08 | F | II | MYLK | Body | opensea | Body-opens | | rs1124707 | 3 |
| cg0014294 | 0.202858 | 0.664322 | 9.816961 | 1.37E-05 | 0.000942 | 3.807674 | 0.562893 | 0.765751 | -0.20286 | 10 | 90646294 | F | II | STAMBPL1 | 5'UTR | opensea | 5'UTR-open | | rs1386509 | 0;16;25;47 |
| cg0831577 | 0.200698 | 0.763686 | 9.81573 | 1.37E-05 | 0.000942 | 3.806755 | 0.663337 | 0.864035 | -0.2007 | 4 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5297381 | 0;11;12 |
| cg2120364 | 0.235196 | 0.697337 | 9.814719 | 1.37E-05 | 0.000943 | 3.806001 | 0.579738 | 0.814935 | -0.2352 | 6 | 1.57E+08 | R | II | | IGR | opensea | IGR-opense | | rs1435589 | 40;24;2 |
| cg0943517 | 0.232057 | 0.502286 | 9.814343 | 1.37E-05 | 0.000943 | 3.805721 | 0.386258 | 0.618315 | -0.23206 | 4 | 1.84E+08 | F | II | | IGR | opensea | IGR-opense | | rs5337337 | 0;25;33 |
| cg0759819 | 0.226951 | 0.637576 | 9.813565 | 1.38E-05 | 0.000943 | 3.80514 | 0.5241 | 0.751051 | -0.22695 | 4 | 1.2E+08 | R | II | MYOZ2 | TSS200 | opensea | TSS200-ope | | rs5365590 | 36;16;10;2 |
| cg0965895 | 0.203316 | 0.335113 | 9.813238 | 1.38E-05 | 0.000943 | 3.804896 | 0.233455 | 0.436771 | -0.20332 | 8 | 56904259 | R | II | LYN | Body | opensea | Body-opens | | rs2667977 | 17;14;2 |
| cg1576159 | 0.223483 | 0.557357 | 9.812243 | 1.38E-05 | 0.000943 | 3.804153 | 0.445616 | 0.669099 | -0.22348 | 9 | 86754339 | R | II | | IGR | shore | IGR-shore | chr9:8675 | rs5299860 | 31;30;22 |
| cg0594948 | 0.219963 | 0.527452 | 9.81205 | 1.38E-05 | 0.000943 | 3.804009 | 0.417471 | 0.637434 | -0.21996 | 7 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs5759277 | 41;27;20;16 |
| cg1510757 | 0.230272 | 0.504673 | 9.81159 | 1.38E-05 | 0.000943 | 3.803666 | 0.389537 | 0.619809 | -0.23027 | 8 | 1.34E+08 | F | II | | IGR | opensea | IGR-opense | | rs1924869 | 0 |
| cg1735582 | 0.243861 | 0.447924 | 9.810518 | 1.38E-05 | 0.000943 | 3.802866 | 0.325993 | 0.569855 | -0.24386 | 14 | 72516174 | R | II | RGS6 | 5'UTR | opensea | 5'UTR-open | | rs5482225 | 22;16;4;2 |
| cg2196265 | 0.200651 | 0.503877 | 9.809461 | 1.38E-05 | 0.000943 | 3.802076 | 0.403551 | 0.604202 | -0.20065 | 8 | 21657302 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0790323 | 0.203527 | 0.633766 | 9.809293 | 1.38E-05 | 0.000943 | 3.801951 | 0.532003 | 0.73553 | -0.20353 | 7 | 20704865 | F | II | ABCB5 | Body | opensea | Body-opens | | rs6949607 | 15;32 |
| cg1807249 | 0.215639 | 0.596634 | 9.809055 | 1.38E-05 | 0.000943 | 3.801773 | 0.488815 | 0.704454 | -0.21564 | 12 | 40944308 | F | II | MUC19 | Body | opensea | Body-opens | | | |
| cg1097871 | 0.223654 | 0.520738 | 9.808313 | 1.38E-05 | 0.000943 | 3.801219 | 0.408911 | 0.632565 | -0.22365 | 15 | 56992113 | F | II | ZNF280D | Body | opensea | Body-opens | | rs1427468 | 0;29 |
| cg0791446 | 0.210378 | 0.579284 | 9.808042 | 1.38E-05 | 0.000943 | 3.801016 | 0.474095 | 0.684473 | -0.21038 | 1 | 1.59E+08 | F | II | PYHIN1 | Body | opensea | Body-opens | | rs1424249 | 0;18 |
| cg1002665 | 0.224458 | 0.487724 | 9.807559 | 1.38E-05 | 0.000943 | 3.800656 | 0.375495 | 0.599953 | -0.22446 | 6 | 1.56E+08 | F | II | | IGR | opensea | IGR-opense | | rs5534548 | 18;36;43 |
| cg0609730 | 0.255189 | 0.476053 | 9.802991 | 1.39E-05 | 0.000945 | 3.797243 | 0.348458 | 0.603647 | -0.25519 | 21 | 21749792 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0006136 | 0.208241 | 0.573198 | 9.801283 | 1.39E-05 | 0.000946 | 3.795967 | 0.469077 | 0.677318 | -0.20824 | 1 | 16196968 | F | II | MIR5096 | TSS1500 | opensea | TSS1500-op | | rs5304696 | 0 |
| cg2024406 | 0.213116 | 0.552471 | 9.800476 | 1.39E-05 | 0.000946 | 3.795364 | 0.445913 | 0.659029 | -0.21312 | 6 | 71108549 | R | II | EVADR | Body | opensea | Body-opens | | rs1901974 | 8;2 |
| cg0680952 | 0.232071 | 0.495579 | 9.798249 | 1.39E-05 | 0.000947 | 3.7937 | 0.379543 | 0.611614 | -0.23207 | 14 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs7155198 | 39;26;24 |
| cg0854286 | 0.206596 | 0.612857 | 9.797608 | 1.39E-05 | 0.000947 | 3.79322 | 0.509558 | 0.716155 | -0.2066 | 2 | 85440664 | F | II | TCF7L1 | Body | opensea | Body-opens | | rs5384209 | 0;33 |
| cg0330265 | 0.218235 | 0.570301 | 9.795782 | 1.39E-05 | 0.000948 | 3.791855 | 0.461184 | 0.679418 | -0.21823 | 6 | 56674105 | R | II | DST | Body | opensea | Body-opens | | | |
| cg2467654 | 0.216819 | 0.611963 | 9.795577 | 1.39E-05 | 0.000948 | 3.791702 | 0.503554 | 0.720373 | -0.21682 | 4 | 86323787 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1859814 | 0.248706 | 0.491796 | 9.793808 | 1.4E-05 | 0.000948 | 3.790379 | 0.367443 | 0.616149 | -0.24871 | 20 | 47896448 | R | II | SNORD12B | TSS1500 | shore | TSS1500-sh | chr20:478 | rs7361137 | 1 |
| cg0202080 | 0.246839 | 0.58809 | 9.793222 | 1.4E-05 | 0.000948 | 3.789941 | 0.464671 | 0.711509 | -0.24684 | 9 | 93893852 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0041542 | 0.209669 | 0.480153 | 9.792785 | 1.4E-05 | 0.000948 | 3.789614 | 0.375319 | 0.584987 | -0.20967 | 2 | 40622490 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs5778839 | 49;37 |
| cg0431586 | 0.24341 | 0.407654 | 9.792011 | 1.4E-05 | 0.000948 | 3.789035 | 0.285948 | 0.529359 | -0.24341 | 13 | 47103926 | F | II | | IGR | opensea | IGR-opense | | rs5452154 | 43 |
| cg0110091 | 0.208542 | 0.551359 | 9.790109 | 1.4E-05 | 0.000949 | 3.787612 | 0.447088 | 0.65563 | -0.20854 | 18 | 60848285 | F | II | BCL2 | Body | opensea | Body-opens | | rs5416113 | 18 |
| cg0588025 | 0.232285 | 0.591817 | 9.788112 | 1.4E-05 | 0.00095 | 3.786118 | 0.475674 | 0.707959 | -0.23229 | 1 | 2.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs1906265 | 14;27 |
| cg1466827 | 0.207666 | 0.640996 | 9.785903 | 1.4E-05 | 0.00095 | 3.784465 | 0.537162 | 0.744829 | -0.20767 | 8 | 72743243 | R | II | | IGR | opensea | IGR-opense | | rs5632145 | 44;6 |
| cg0208484 | 0.222983 | 0.528818 | 9.7845 | 1.4E-05 | 0.00095 | 3.783414 | 0.417326 | 0.640309 | -0.22298 | 16 | 69380204 | R | II | TMED6 | Body | opensea | Body-opens | | rs7593405 | 17;2 |
| cg1700564 | 0.253086 | 0.566982 | 9.784294 | 1.41E-05 | 0.00095 | 3.78326 | 0.440438 | 0.693525 | -0.25309 | 7 | 23304848 | R | II | GPNMB | Body | opensea | Body-opens | | | |
| cg0292060 | 0.205425 | 0.53775 | 9.782302 | 1.41E-05 | 0.000951 | 3.781769 | 0.435038 | 0.640463 | -0.20543 | 15 | 59484170 | R | II | MYO1E | Body | opensea | Body-opens | | rs5446820 | 31 |
| cg2642308 | 0.217587 | 0.640671 | 9.782123 | 1.41E-05 | 0.000951 | 3.781635 | 0.531877 | 0.749464 | -0.21759 | 12 | 2126032 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2425654 | 0.258999 | 0.51316 | 9.781311 | 1.41E-05 | 0.000951 | 3.781027 | 0.38366 | 0.642659 | -0.259 | 12 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs1122641 | 49;21;2 |
| cg0928358 | 0.240987 | 0.437112 | 9.779613 | 1.41E-05 | 0.000951 | 3.779755 | 0.316618 | 0.557605 | -0.24099 | 16 | 80380376 | R | II | LOC10272 | Body | opensea | Body-opens | | rs5286320 | 2;1 |
| cg2763510 | 0.211506 | 0.659786 | 9.778774 | 1.41E-05 | 0.000952 | 3.779127 | 0.554033 | 0.765539 | -0.21151 | 2 | 59468572 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5507799 | 31;18 |
| cg1410435 | 0.20591 | 0.642102 | 9.77872 | 1.41E-05 | 0.000952 | 3.779086 | 0.539147 | 0.745057 | -0.20591 | 6 | 15715552 | R | II | | IGR | opensea | IGR-opense | | rs1444822 | 2;1 |
| cg0506968 | 0.24109 | 0.53401 | 9.778611 | 1.41E-05 | 0.000952 | 3.779005 | 0.413465 | 0.654555 | -0.24109 | 7 | 1.42E+08 | R | II | MGAM | Body | opensea | Body-opens | | | |
| cg0064256 | 0.216415 | 0.716817 | 9.77704 | 1.41E-05 | 0.000952 | 3.777828 | 0.60861 | 0.825025 | -0.21641 | 16 | 81877508 | R | II | PLCG2 | Body | opensea | Body-opens | | rs5353567 | 47;40;37;32 |
| cg1507524 | 0.231354 | 0.654617 | 9.776493 | 1.41E-05 | 0.000952 | 3.777418 | 0.53894 | 0.770294 | -0.23135 | 2 | 10587052 | R | II | SNORA80B | TSS200 | shore | TSS200-sho | chr2:1058 | rs5777315 | 35 |
| cg1537312 | 0.211077 | 0.617464 | 9.776476 | 1.41E-05 | 0.000952 | 3.777405 | 0.511925 | 0.723002 | -0.21108 | 10 | 89462893 | F | II | PAPSS2 | Body | opensea | Body-opens | | rs5330837 | 1;6 |
| cg2528102 | 0.203847 | 0.580948 | 9.776187 | 1.41E-05 | 0.000952 | 3.777189 | 0.479025 | 0.682872 | -0.20385 | 12 | 88969462 | F | II | KITLG | Body | shelf | Body-shelf | chr12:889 | rs5775858 | 15;37 |
| cg0622784 | 0.214144 | 0.636141 | 9.774562 | 1.42E-05 | 0.000953 | 3.775971 | 0.529069 | 0.743213 | -0.21414 | 1 | 2.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5401475 | 15;26 |
| cg1741129 | 0.211457 | 0.589319 | 9.773449 | 1.42E-05 | 0.000953 | 3.775137 | 0.483591 | 0.695048 | -0.21146 | 9 | 71624788 | F | II | | IGR | shelf | IGR-shelf | chr9:7162 | rs5501538 | 46 |
| cg1750881 | 0.214845 | 0.550318 | 9.772991 | 1.42E-05 | 0.000953 | 3.774794 | 0.442896 | 0.657741 | -0.21485 | 8 | 38423639 | R | II | | IGR | opensea | IGR-opense | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1455272 | 0.231553 | 0.607601 | 9.770474 | 1.42E-05 | 0.000954 | 3.772907 | 0.491825 | 0.723378 | -0.23155 | 3 | 1.51E+08 | R | II | IGSF10 | TSS200 | opensea | TSS200-ope | | rs5651631 | 3 | | | |
| cg0035801 | 0.206823 | 0.466839 | 9.768946 | 1.42E-05 | 0.000955 | 3.771762 | 0.363427 | 0.57025 | -0.20682 | 1 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs3762937 | 31;42 | | | |
| cg0723719 | 0.209606 | 0.556373 | 9.76813 | 1.42E-05 | 0.000955 | 3.77115 | 0.45157 | 0.661176 | -0.20961 | 2 | 1.6E+08 | R | II | TANC1 | 5'UTR | opensea | 5'UTR-open | | rs1424512 | 42;14;2 | | | |
| cg0965940 | 0.231114 | 0.503397 | 9.767905 | 1.42E-05 | 0.000955 | 3.770981 | 0.38784 | 0.618954 | -0.23111 | 20 | 43744673 | F | II | WFDC5 | TSS1500 | opensea | TSS1500-op | | rs5376589 | 0;23;36 | | | |
| cg2353227 | 0.21951 | 0.550342 | 9.766322 | 1.42E-05 | 0.000956 | 3.769794 | 0.440587 | 0.660097 | -0.21951 | 10 | 78635553 | R | II | KCNMA1 | 3'UTR | opensea | 3'UTR-open | | rs1139814 | 43;11;2;1 | | | |
| cg0551192 | 0.200304 | 0.566273 | 9.766215 | 1.42E-05 | 0.000956 | 3.769714 | 0.466121 | 0.666425 | -0.2003 | 2 | 2.18E+08 | R | II | DIRC3 | Body | opensea | Body-opens | | rs7449567 | 50;1 | | | |
| cg0604215 | 0.207136 | 0.565281 | 9.764609 | 1.43E-05 | 0.000956 | 3.768509 | 0.461713 | 0.668849 | -0.20714 | 7 | 55661735 | F | II | | IGR | opensea | IGR-opense | | rs5734746 | 0;1;6;9;18;30 | | | |
| cg0881596 | 0.237238 | 0.612181 | 9.762956 | 1.43E-05 | 0.000957 | 3.767269 | 0.493562 | 0.7308 | -0.23724 | 3 | 1.44E+08 | F | II | SLC9A9 | Body | opensea | Body-opens | | rs5561481 | 11;27;29 | | | |
| cg0159357 | 0.277898 | 0.468791 | 9.762442 | 1.43E-05 | 0.000957 | 3.766883 | 0.329843 | 0.60774 | -0.2779 | 17 | 60818877 | R | II | MARCH10 | Body | opensea | Body-opens | | | | | | |
| cg1631287 | 0.203368 | 0.71947 | 9.76134 | 1.43E-05 | 0.000957 | 3.766057 | 0.617786 | 0.821153 | -0.20337 | 1 | 40343411 | F | II | TRIT1 | Body | opensea | Body-opens | | rs1078904 | 21;22;30 | | | |
| cg1676016 | 0.219037 | 0.591676 | 9.759234 | 1.43E-05 | 0.000957 | 3.764476 | 0.482157 | 0.701194 | -0.21904 | 15 | 38901688 | F | II | | IGR | opensea | IGR-opense | | rs18786764 | 42 | | | |
| cg1568627 | 0.207154 | 0.541904 | 9.75908 | 1.43E-05 | 0.000957 | 3.764361 | 0.438327 | 0.645481 | -0.20715 | 9 | 92807373 | F | II | | IGR | opensea | IGR-opense | | rs5709701 | 0;27;33;49 | | | |
| cg2405057 | 0.200553 | 0.49702 | 9.759033 | 1.43E-05 | 0.000957 | 3.764325 | 0.396744 | 0.597297 | -0.20055 | 13 | 34574802 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1256778 | 0.210048 | 0.616598 | 9.758873 | 1.43E-05 | 0.000957 | 3.764205 | 0.511574 | 0.721622 | -0.21005 | 4 | 1.14E+08 | R | II | ANK2 | Body | opensea | Body-opens | | rs5761994 | 48;40;2 | | | |
| cg1058138 | 0.221156 | 0.525686 | 9.758551 | 1.43E-05 | 0.000957 | 3.763963 | 0.415108 | 0.636264 | -0.22116 | 2 | 2.39E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2183647 | 0.258022 | 0.486935 | 9.757164 | 1.43E-05 | 0.000957 | 3.762922 | 0.357924 | 0.615946 | -0.25802 | 13 | 76535057 | R | II | | IGR | opensea | IGR-opense | | rs1417420 | 20 | | | |
| cg2761593 | 0.222846 | 0.538532 | 9.756903 | 1.43E-05 | 0.000958 | 3.762726 | 0.427109 | 0.649956 | -0.22285 | 17 | 16344574 | F | II | NCRNA001 | Body | shore | Body-shore | chr17:163 | rs5606759 | 11;25;26;27 | | | |
| cg2185525 | 0.239699 | 0.557177 | 9.756633 | 1.43E-05 | 0.000958 | 3.762523 | 0.437327 | 0.677026 | -0.2397 | 1 | 1.59E+08 | F | II | IFI16 | 5'UTR | opensea | 5'UTR-open | | rs5560662 | 11;24;30;37;46 | | | |
| cg2019818 | 0.204623 | 0.553681 | 9.756125 | 1.43E-05 | 0.000958 | 3.762143 | 0.451369 | 0.655992 | -0.20462 | 10 | 49832794 | F | II | | IGR | opensea | IGR-opense | | rs5335526 | 12;30 | | | |
| cg2041986 | 0.239797 | 0.497666 | 9.75433 | 1.44E-05 | 0.000959 | 3.760794 | 0.377767 | 0.617565 | -0.2398 | 3 | 1.46E+08 | F | II | | IGR | opensea | IGR-opense | | rs5429045 | 1;30 | | | |
| cg0018217 | 0.258413 | 0.571376 | 9.752189 | 1.44E-05 | 0.000959 | 3.759187 | 0.442169 | 0.700582 | -0.25841 | 9 | 21852933 | R | II | MTAP | Body | opensea | Body-opens | | | | | | |
| cg1921828 | 0.203058 | 0.646349 | 9.752106 | 1.44E-05 | 0.000959 | 3.759124 | 0.54482 | 0.747878 | -0.20306 | 14 | 30765767 | F | II | | IGR | opensea | IGR-opense | | rs1378915 | 32 | | | |
| cg2304713 | 0.267139 | 0.471051 | 9.752101 | 1.44E-05 | 0.000959 | 3.75912 | 0.337482 | 0.60462 | -0.26714 | 3 | 24089778 | R | II | | IGR | opensea | IGR-opense | | rs1497249 | 34;29;18 | | | |
| cg0090263 | 0.213437 | 0.378471 | 9.751435 | 1.44E-05 | 0.000959 | 3.75862 | 0.271752 | 0.485189 | -0.21344 | 12 | 1.23E+08 | R | II | PITPNM2 | Body | shelf | Body-shelf | chr12:123 | rs5561508 | 48;19 | | | |
| cg0872787 | 0.225219 | 0.521166 | 9.751266 | 1.44E-05 | 0.000959 | 3.758493 | 0.408557 | 0.633776 | -0.22522 | 17 | 6427324 | R | II | PITPNM3 | Body | opensea | Body-opens | | rs5352479 | 47;29 | | | |
| cg2039281 | 0.200992 | 0.496779 | 9.750657 | 1.44E-05 | 0.000959 | 3.758036 | 0.396283 | 0.597275 | -0.20099 | 10 | 67469425 | F | II | LINC01515 | Body | opensea | Body-opens | | rs3759903 | 0;28;51 | | | |
| cg2120280 | 0.204375 | 0.504377 | 9.750441 | 1.44E-05 | 0.000959 | 3.757873 | 0.40219 | 0.606565 | -0.20438 | 13 | 52107056 | R | II | | IGR | opensea | IGR-opense | | rs5362691 | 42;40 | | | |
| cg1103568 | 0.203711 | 0.632332 | 9.749267 | 1.44E-05 | 0.00096 | 3.756992 | 0.530476 | 0.734188 | -0.20371 | 7 | 20338338 | F | II | LOC10192 | Body | opensea | Body-opens | | rs1827705 | 8;21 | | | |
| cg0455231 | 0.205348 | 0.564198 | 9.748893 | 1.44E-05 | 0.00096 | 3.756711 | 0.461524 | 0.666872 | -0.20535 | 18 | 5420951 | R | II | EPB41L3 | Body | opensea | Body-opens | | rs1963827 | 45;39 | | | |
| cg1385408 | 0.221939 | 0.641967 | 9.748215 | 1.44E-05 | 0.00096 | 3.756201 | 0.530998 | 0.752937 | -0.22194 | 14 | 78205329 | R | II | SNW1 | Body | opensea | Body-opens | | rs5559488 | 1 | | | |
| cg1341076 | 0.245595 | 0.468996 | 9.746542 | 1.44E-05 | 0.00096 | 3.754944 | 0.346199 | 0.591794 | -0.2456 | 9 | 90407888 | R | II | | IGR | opensea | IGR-opense | | rs1819948 | 22 | | | |
| cg0513986 | 0.215139 | 0.644154 | 9.745028 | 1.45E-05 | 0.000961 | 3.753806 | 0.536584 | 0.751724 | -0.21514 | 6 | 44007826 | F | II | | IGR | opensea | IGR-opense | | rs5420632 | 22 | | | |
| cg2449933 | 0.208925 | 0.570664 | 9.740971 | 1.45E-05 | 0.000962 | 3.750756 | 0.466201 | 0.675127 | -0.20893 | 5 | 1.72E+08 | F | II | SH3PXD2B | Body | opensea | Body-opens | | | | | | |
| cg0793717 | 0.273117 | 0.470297 | 9.739044 | 1.45E-05 | 0.000963 | 3.749307 | 0.333738 | 0.606855 | -0.27312 | 1 | 2.19E+08 | R | II | | IGR | opensea | IGR-opense | | rs5416872 | 1 | | | |
| cg0801919 | 0.238579 | 0.458014 | 9.738642 | 1.45E-05 | 0.000963 | 3.749004 | 0.338724 | 0.577304 | -0.23858 | 1 | 12495618 | F | II | VPS13D | Body | opensea | Body-opens | | | | | | |
| cg0999405 | 0.212601 | 0.546009 | 9.738482 | 1.45E-05 | 0.000963 | 3.748884 | 0.439708 | 0.65231 | -0.2126 | 10 | 14598259 | F | II | FAM107B | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0375274 | 0.212074 | 0.550249 | 9.737509 | 1.45E-05 | 0.000963 | 3.748153 | 0.444212 | 0.656286 | -0.21207 | 15 | 84168459 | F | II | SH3GL3 | Body | opensea | Body-opens | | rs1052057 | 12 | | | |
| cg1778568 | 0.268337 | 0.437383 | 9.736327 | 1.46E-05 | 0.000964 | 3.747263 | 0.303215 | 0.571552 | -0.26834 | 18 | 21322159 | F | II | LAMA3 | Body | opensea | Body-opens | | rs56697744 | 26 | | | |
| cg0055461 | 0.236726 | 0.510496 | 9.733819 | 1.46E-05 | 0.000964 | 3.745376 | 0.392132 | 0.628859 | -0.23673 | 16 | 79747651 | R | II | | IGR | opensea | IGR-opense | | rs5353848 | 48;32;1 | | | |
| cg2370375 | 0.209363 | 0.610995 | 9.732331 | 1.46E-05 | 0.000965 | 3.744256 | 0.506313 | 0.715676 | -0.20936 | 8 | 6635325 | F | II | | IGR | opensea | IGR-opense | | rs1406505 | 7;16;18;21;44;51 | | | |
| cg2750038 | 0.204744 | 0.511743 | 9.730303 | 1.46E-05 | 0.000965 | 3.74273 | 0.409371 | 0.614115 | -0.20474 | 1 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5317199 | 1 | | | |
| cg2531162 | 0.241516 | 0.599446 | 9.72855 | 1.46E-05 | 0.000966 | 3.74141 | 0.478688 | 0.720204 | -0.24152 | 1 | 95375671 | R | II | CNN3 | Body | opensea | Body-opens | | | | | | |
| cg1855357 | 0.203749 | 0.640208 | 9.728325 | 1.46E-05 | 0.000966 | 3.741241 | 0.538334 | 0.742083 | -0.20375 | 16 | 19491814 | R | II | TMC5 | Body | opensea | Body-opens | | rs5308603 | 51;4;1 | | | |
| cg0585460 | 0.245091 | 0.592255 | 9.728138 | 1.46E-05 | 0.000966 | 3.7411 | 0.46971 | 0.714801 | -0.24509 | 2 | 40351367 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs5483373 | 23;15;5;4;2;1 | | | |
| cg1182858 | 0.206394 | 0.714391 | 9.727439 | 1.46E-05 | 0.000966 | 3.740574 | 0.611194 | 0.817588 | -0.20639 | 1 | 2E+08 | R | II | NR5A2 | 5'UTR | opensea | 5'UTR-open | | rs1419838 | 2 | | | |
| cg0979330 | 0.257459 | 0.522199 | 9.727182 | 1.46E-05 | 0.000966 | 3.74038 | 0.393469 | 0.650928 | -0.25746 | 1 | 2.13E+08 | R | II | ATF3 | 5'UTR | opensea | 5'UTR-open | | rs1435368 | 19;2 | | | |
| cg1391520 | 0.207997 | 0.507207 | 9.725398 | 1.47E-05 | 0.000967 | 3.739037 | 0.403209 | 0.611206 | -0.208 | 14 | 96963698 | R | II | | IGR | opensea | IGR-opense | | rs7944544 | 47;40 | | | |
| cg1789812 | 0.202036 | 0.458415 | 9.723755 | 1.47E-05 | 0.000968 | 3.737799 | 0.357397 | 0.559433 | -0.20204 | 1 | 1.13E+08 | R | II | KCND3 | 5'UTR | shelf | 5'UTR-shelf | chr1:1125 | rs1446361 | 26 | | | |
| cg1231117 | 0.252827 | 0.548174 | 9.721914 | 1.47E-05 | 0.000969 | 3.736412 | 0.421761 | 0.674588 | -0.25283 | 4 | 1.19E+08 | F | II | NDST3 | Body | opensea | Body-opens | | rs1384381 | 28 | | | |
| cg0502931 | 0.209265 | 0.732107 | 9.720419 | 1.47E-05 | 0.000969 | 3.735286 | 0.627474 | 0.836739 | -0.20926 | 4 | 22476976 | R | II | GPR125 | Body | opensea | Body-opens | | rs7537473 | 14;1 | | | |
| cg1058367 | 0.203805 | 0.399737 | 9.719348 | 1.47E-05 | 0.000969 | 3.734479 | 0.297835 | 0.501639 | -0.2038 | 18 | 68157112 | R | II | | IGR | opensea | IGR-opense | | rs5433954 | 33;28;24;2 | | | |
| cg2686950 | 0.21507 | 0.624355 | 9.719221 | 1.47E-05 | 0.000969 | 3.734383 | 0.516821 | 0.73189 | -0.21507 | 12 | 98912949 | F | II | TMPO | Body | shelf | Body-shelf | chr12:989 | | | | | |
| cg1000928 | 0.216704 | 0.450911 | 9.718327 | 1.47E-05 | 0.00097 | 3.733709 | 0.342559 | 0.559263 | -0.2167 | 17 | 8657989 | F | II | SPDYE4 | Body | opensea | Body-opens | | rs5551996 | 0;16;44;50 | | | |
| cg0044832 | 0.207342 | 0.592647 | 9.716849 | 1.48E-05 | 0.00097 | 3.732595 | 0.488977 | 0.696318 | -0.20734 | 2 | 1.9E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1975577 | 0.222973 | 0.474329 | 9.7168 | 1.48E-05 | 0.00097 | 3.732558 | 0.362843 | 0.585816 | -0.22297 | 6 | 29067386 | R | II | | IGR | opensea | IGR-opense | | rs1813841 | 42;7 | | | |
| cg0575869 | 0.255574 | 0.431164 | 9.713805 | 1.48E-05 | 0.000971 | 3.7303 | 0.303377 | 0.55895 | -0.25557 | 6 | 4790999 | F | II | CDYL | Body | opensea | Body-opens | | rs1876937 | 12 | | | |
| cg1155666 | 0.228389 | 0.419058 | 9.712029 | 1.48E-05 | 0.000971 | 3.72896 | 0.304863 | 0.533252 | -0.22839 | 8 | 29499870 | R | II | | IGR | opensea | IGR-opense | | rs5676593 | 2 | | | |
| cg0681018 | 0.215959 | 0.662663 | 9.710482 | 1.48E-05 | 0.000972 | 3.727794 | 0.554684 | 0.770643 | -0.21596 | 2 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | rs1441983 | 1 | | | |
| cg0670599 | 0.251204 | 0.615038 | 9.709708 | 1.48E-05 | 0.000972 | 3.72721 | 0.489436 | 0.74064 | -0.2512 | 8 | 30248467 | F | II | RBPMS | Body | opensea | Body-opens | | | | | | |
| cg2622192 | 0.206971 | 0.563201 | 9.709543 | 1.48E-05 | 0.000972 | 3.727085 | 0.459716 | 0.666687 | -0.20697 | 1 | 27701067 | R | II | FCN3 | Body | opensea | Body-opens | | rs1834299 | 50;6 | | | |
| cg1094245 | 0.203392 | 0.570043 | 9.708427 | 1.48E-05 | 0.000973 | 3.726243 | 0.468347 | 0.671739 | -0.20339 | 3 | 1.73E+08 | F | II | NLGN1 | 5'UTR | opensea | 5'UTR-open | | rs7492996 | 31 | | | |
| cg0970313 | 0.225375 | 0.580623 | 9.707508 | 1.49E-05 | 0.000973 | 3.72555 | 0.467935 | 0.69331 | -0.22537 | 4 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | | rs5720625 | 2 | | | |
| cg0153647 | 0.214556 | 0.64204 | 9.706463 | 1.49E-05 | 0.000973 | 3.724762 | 0.534763 | 0.749318 | -0.21456 | 3 | 24208364 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5663483 | 39;2;1 | | | |
| cg1065557 | 0.226484 | 0.674352 | 9.705886 | 1.49E-05 | 0.000973 | 3.724326 | 0.56111 | 0.787594 | -0.22648 | 3 | 5063461 | F | II | | IGR | opensea | IGR-opense | | rs1175083 | 27;39;40 | | | |
| cg2430804 | 0.216802 | 0.579702 | 9.704873 | 1.49E-05 | 0.000974 | 3.723562 | 0.471301 | 0.688102 | -0.2168 | 10 | 49967889 | R | II | WDFY4 | Body | opensea | Body-opens | | rs5725684 | 48;26;2;1 | | | | |
| cg1223880 | 0.209212 | 0.594766 | 9.702357 | 1.49E-05 | 0.000974 | 3.721662 | 0.49016 | 0.699372 | -0.20921 | 1 | 93300695 | F | II | RPL5 | Body | shelf | Body-shelf | chr1:9329 | rs5477591 | 11 | | | |
| cg1615153 | 0.206246 | 0.498169 | 9.701415 | 1.49E-05 | 0.000975 | 3.720952 | 0.395046 | 0.601292 | -0.20625 | 20 | 898238 | F | II | ANGPT4 | TSS1500 | opensea | TSS1500-op | | rs7718607 | 0;26;33;40 | | | |
| cg0360130 | 0.215477 | 0.550174 | 9.700032 | 1.49E-05 | 0.000975 | 3.719907 | 0.442436 | 0.657912 | -0.21548 | 13 | 95134454 | R | II | | IGR | opensea | IGR-opense | | rs5309531 | 7 | | | |
| cg2347489 | 0.209064 | 0.465054 | 9.699087 | 1.5E-05 | 0.000975 | 3.719193 | 0.360522 | 0.569586 | -0.20906 | 12 | 1.22E+08 | R | I | BCL7A | Body | opensea | Body-opens | | rs5437491 | 19;11 | | | |
| cg1904017 | 0.231961 | 0.580045 | 9.697649 | 1.5E-05 | 0.000976 | 3.718107 | 0.464065 | 0.696026 | -0.23196 | 17 | 61356602 | F | II | TANC2 | Body | opensea | Body-opens | | rs1909842 | 11;48 | | | |
| cg1183422 | 0.207165 | 0.633158 | 9.697141 | 1.5E-05 | 0.000976 | 3.717723 | 0.529575 | 0.73674 | -0.20716 | 1 | 2.26E+08 | F | II | ENAH | Body | opensea | Body-opens | | rs1464635 | 1 | | | |
| cg2259389 | 0.250784 | 0.572075 | 9.695393 | 1.5E-05 | 0.000976 | 3.716404 | 0.446683 | 0.697467 | -0.25078 | 20 | 1781910 | F | II | | IGR | shore | IGR-shore | chr20:178 | rs5504520 | 0;2;34;35;48 | | | |
| cg0416119 | 0.202826 | 0.444166 | 9.695297 | 1.5E-05 | 0.000976 | 3.716331 | 0.342753 | 0.545579 | -0.20283 | 8 | 1.01E+08 | R | II | RNF19A | 5'UTR | opensea | 5'UTR-open | | rs5643177 | 40 | | | |
| cg0147856 | 0.205263 | 0.627031 | 9.694495 | 1.5E-05 | 0.000977 | 3.715725 | 0.5244 | 0.729663 | -0.20526 | 10 | 64630758 | R | II | | IGR | opensea | IGR-opense | | rs5681084 | 13 | | | |
| cg0115394 | 0.217573 | 0.494345 | 9.694462 | 1.5E-05 | 0.000977 | 3.7157 | 0.385559 | 0.603132 | -0.21757 | 20 | 37062621 | F | II | LOC38879 | Body | shore | Body-shore | chr20:370 | rs5473665 | 0;24;41;51 | | | |
| cg2633623 | 0.244844 | 0.597704 | 9.69437 | 1.5E-05 | 0.000977 | 3.715631 | 0.475282 | 0.720126 | -0.24484 | 2 | 38838729 | F | II | | IGR | opensea | IGR-opense | | rs3741799 | 8 | | | |
| cg1287001 | 0.219926 | 0.629508 | 9.692901 | 1.5E-05 | 0.000977 | 3.71452 | 0.519545 | 0.739471 | -0.21993 | 10 | 3847895 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1288577 | 0.234597 | 0.575989 | 9.69264 | 1.5E-05 | 0.000977 | 3.714323 | 0.458691 | 0.693288 | -0.2346 | 7 | 47725484 | R | II | | IGR | opensea | IGR-opense | | rs1379622 | 36;33;18;1 | | | |
| cg0144950 | 0.206473 | 0.67484 | 9.692357 | 1.5E-05 | 0.000977 | 3.714109 | 0.571604 | 0.778077 | -0.20647 | 11 | 60637361 | F | II | ZP1 | ExonBnd | opensea | ExonBnd-op | | rs5710446 | 17;25;31 | | | |
| cg2359588 | 0.209613 | 0.621482 | 9.691355 | 1.5E-05 | 0.000977 | 3.713352 | 0.516676 | 0.726289 | -0.20961 | 4 | 82430098 | R | II | | IGR | opensea | IGR-opense | | rs5678540 | 43;36;35;2 | | | |
| cg1229911 | 0.221502 | 0.59214 | 9.691224 | 1.5E-05 | 0.000977 | 3.713253 | 0.481389 | 0.702892 | -0.2215 | 3 | 72282244 | R | II | | IGR | opensea | IGR-opense | | rs3595045 | 34;7;4;2 | | | |
| cg1200668 | 0.213072 | 0.531733 | 9.691222 | 1.5E-05 | 0.000977 | 3.713251 | 0.425197 | 0.638268 | -0.21307 | 4 | 57960841 | F | II | IGFBP7 | Body | opensea | Body-opens | | rs5707530 | 0 | | | |
| cg1837178 | 0.203165 | 0.498678 | 9.690936 | 1.5E-05 | 0.000978 | 3.713035 | 0.397095 | 0.600261 | -0.20317 | 19 | 45116368 | F | II | IGSF23 | TSS1500 | opensea | TSS1500-op | | rs5601789 | 7 | | | |
| cg1249621 | 0.217295 | 0.615094 | 9.690563 | 1.5E-05 | 0.000978 | 3.712753 | 0.506446 | 0.723742 | -0.2173 | 12 | 2193060 | F | II | CACNA1C | Body | opensea | Body-opens | | rs1137336 | 18;49 | | | |
| cg1907474 | 0.230818 | 0.430873 | 9.690461 | 1.5E-05 | 0.000978 | 3.712676 | 0.315464 | 0.546282 | -0.23082 | 4 | 4639746 | R | II | STX18-AS1 | Body | opensea | Body-opens | | rs5860264 | 36;16;2 | | | |
| cg2747935 | 0.249136 | 0.553375 | 9.689801 | 1.51E-05 | 0.000978 | 3.712177 | 0.428807 | 0.677943 | -0.24914 | 8 | 19969536 | F | II | | IGR | opensea | IGR-opense | | rs5762644 | 5 | | | |
| cg0531405 | 0.231473 | 0.521337 | 9.689264 | 1.51E-05 | 0.000978 | 3.711772 | 0.4056 | 0.637073 | -0.23147 | 5 | 1.79E+08 | R | II | | IGR | opensea | IGR-opense | | rs5615569 | 28;22 | | | |
| cg1571468 | 0.218239 | 0.639966 | 9.688966 | 1.51E-05 | 0.000978 | 3.711546 | 0.530847 | 0.749086 | -0.21824 | 17 | 39217766 | R | II | LOC73075 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0071394 | 0.204444 | 0.446944 | 9.688908 | 1.51E-05 | 0.000978 | 3.711502 | 0.344722 | 0.549166 | -0.20444 | 8 | 39713316 | R | II | | IGR | opensea | IGR-opense | | rs5756466 | 49;35 | | | |
| cg1283896 | 0.213509 | 0.596831 | 9.68779 | 1.51E-05 | 0.000978 | 3.710657 | 0.490076 | 0.703586 | -0.21351 | 5 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | rs5432901 | 4 | | | |
| cg0668165 | 0.227724 | 0.56841 | 9.685174 | 1.51E-05 | 0.000979 | 3.708679 | 0.454548 | 0.682272 | -0.22772 | 20 | 22777067 | F | II | | IGR | opensea | IGR-opense | | rs5396566 | 1;6;18;42 | | | |
| cg0101112 | 0.223961 | 0.485613 | 9.684803 | 1.51E-05 | 0.00098 | 3.708398 | 0.373633 | 0.597593 | -0.22396 | 2 | 2.25E+08 | R | II | SERPINE2 | Body | opensea | Body-opens | | rs5414171 | 15 | | | |
| cg0488574 | 0.204988 | 0.579836 | 9.684557 | 1.51E-05 | 0.00098 | 3.708212 | 0.477342 | 0.68233 | -0.20499 | 12 | 64855513 | F | II | TBK1 | Body | opensea | Body-opens | | | | | | |
| cg2192351 | 0.214554 | 0.581834 | 9.683794 | 1.51E-05 | 0.00098 | 3.707635 | 0.474557 | 0.689111 | -0.21455 | 19 | 42106562 | R | II | | IGR | opensea | IGR-opense | | rs5713883 | 3;2;1 | | | |
| cg2372824 | 0.240694 | 0.503566 | 9.682714 | 1.51E-05 | 0.00098 | 3.706818 | 0.383219 | 0.623913 | -0.24069 | 5 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1450986 | 11 | | | |
| cg1519040 | 0.231495 | 0.538797 | 9.682259 | 1.51E-05 | 0.000981 | 3.706474 | 0.42305 | 0.654545 | -0.23149 | 7 | 1.39E+08 | R | II | HIPK2 | Body | opensea | Body-opens | | rs5484615 | 23 | | | |
| cg0304449 | 0.213663 | 0.576903 | 9.679733 | 1.52E-05 | 0.000982 | 3.704563 | 0.470071 | 0.683734 | -0.21366 | 11 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs5300313 | 49;2;1 | | | |
| cg1825839 | 0.211668 | 0.586332 | 9.679156 | 1.52E-05 | 0.000982 | 3.704126 | 0.480498 | 0.692166 | -0.21167 | 5 | 1.5E+08 | R | II | | IGR | opensea | IGR-opense | | rs5441438 | 37;7 | | | |
| cg2463681 | 0.242736 | 0.534326 | 9.678444 | 1.52E-05 | 0.000982 | 3.703588 | 0.412958 | 0.655693 | -0.24274 | 2 | 1.92E+08 | R | II | STAT4 | Body | opensea | Body-opens | | rs5296159 | 43 | | | |
| cg2427643 | 0.208393 | 0.511908 | 9.678133 | 1.52E-05 | 0.000982 | 3.703352 | 0.407712 | 0.616105 | -0.20839 | 1 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | rs5420867 | 35;19 | | | |
| cg1018287 | 0.202497 | 0.630808 | 9.675779 | 1.52E-05 | 0.000983 | 3.70157 | 0.529559 | 0.732056 | -0.2025 | 11 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs5345902 | 2 | | | |
| cg1940605 | 0.228472 | 0.701615 | 9.674357 | 1.52E-05 | 0.000983 | 3.700494 | 0.587379 | 0.815851 | -0.22847 | 6 | 42204675 | R | II | TRERF1 | Body | opensea | Body-opens | | rs9462785 | 31;2;1 | | | |
| cg1113326 | 0.252044 | 0.581436 | 9.674141 | 1.52E-05 | 0.000983 | 3.70033 | 0.455414 | 0.707458 | -0.25204 | 1 | 64540593 | F | II | ROR1 | Body | opensea | Body-opens | | rs5613434 | 1;42 | | | |
| cg1750212 | 0.234516 | 0.507636 | 9.673767 | 1.52E-05 | 0.000983 | 3.700047 | 0.390378 | 0.624894 | -0.23452 | 5 | 1.42E+08 | F | II | FGF1 | TSS200 | opensea | TSS200-op | | rs5414802 | 11;17;37 | | | |
| cg1957866 | 0.243931 | 0.469712 | 9.673753 | 1.52E-05 | 0.000983 | 3.700036 | 0.347747 | 0.591678 | -0.24393 | 10 | 3511600 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1671735 | 0.238543 | 0.570251 | 9.673007 | 1.52E-05 | 0.000983 | 3.699471 | 0.450979 | 0.689522 | -0.23854 | 8 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs3774966 | 0;4;35;40 | | | |
| cg0452798 | 0.2387 | 0.617094 | 9.672764 | 1.52E-05 | 0.000983 | 3.699287 | 0.497744 | 0.736444 | -0.2387 | 5 | 71614752 | R | II | PTCD2 | TSS1500 | shore | TSS1500-sh | chr5:7161 | rs5304664 | 14 | | | |
| cg1748963 | 0.206116 | 0.574948 | 9.671526 | 1.53E-05 | 0.000984 | 3.69835 | 0.47189 | 0.678006 | -0.20612 | 7 | 38714215 | R | II | | IGR | opensea | IGR-opense | | rs5289843 | 23 | | | |
| cg1314519 | 0.257051 | 0.422412 | 9.671017 | 1.53E-05 | 0.000984 | 3.697964 | 0.293886 | 0.550937 | -0.25705 | 7 | 1.06E+08 | F | II | NAMPT | TSS1500 | shore | TSS1500-sh | chr7:1059 | rs6133008 | 48 | | | |
| cg1708490 | 0.248394 | 0.496447 | 9.670788 | 1.53E-05 | 0.000984 | 3.697791 | 0.37225 | 0.620644 | -0.24839 | 13 | 73160215 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1488650 | 0.24317 | 0.525174 | 9.670697 | 1.53E-05 | 0.000984 | 3.697722 | 0.403589 | 0.646759 | -0.24317 | 6 | 23447204 | R | II | | IGR | opensea | IGR-opense | | rs5334853 | 27;2;1 | | | |
| cg0056541 | 0.241938 | 0.59947 | 9.668022 | 1.53E-05 | 0.000985 | 3.695696 | 0.478501 | 0.720439 | -0.24194 | 21 | 26933554 | F | II | MIR155HG | TSS1500 | shore | TSS1500-sh | chr21:269 | | | | | |
| cg2684231 | 0.23493 | 0.510506 | 9.66757 | 1.53E-05 | 0.000985 | 3.695353 | 0.39304 | 0.627971 | -0.23493 | 2 | 16177920 | F | II | | IGR | opensea | IGR-opense | | rs5662893 | 0;20 | | | |
| cg1666930 | 0.214603 | 0.525286 | 9.666417 | 1.53E-05 | 0.000986 | 3.69448 | 0.417984 | 0.632587 | -0.2146 | 9 | 1.35E+08 | R | II | MED27 | Body | opensea | Body-opens | | | | | | |
| cg2048666 | 0.208777 | 0.565038 | 9.666379 | 1.53E-05 | 0.000986 | 3.694451 | 0.46065 | 0.669427 | -0.20878 | 12 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2407925 | 0.225142 | 0.652718 | 9.66535 | 1.53E-05 | 0.000987 | 3.693671 | 0.540147 | 0.765289 | -0.22514 | 17 | 9274424 | R | II | STX8 | Body | opensea | Body-opens | | rs1925376 | 27;26;8 | | | |
| cg1355181 | 0.202927 | 0.487565 | 9.664606 | 1.53E-05 | 0.000987 | 3.693107 | 0.386101 | 0.589028 | -0.20293 | 2 | 20688997 | R | II | | IGR | opensea | IGR-opense | | rs5463016 | 43;2 | | | |
| cg2172108 | 0.234729 | 0.528901 | 9.664058 | 1.53E-05 | 0.000987 | 3.692692 | 0.411537 | 0.646265 | -0.23473 | 9 | 37667895 | R | II | FRMPD1 | 5'UTR | opensea | 5'UTR-open | | rs5434572 | 32;17 | | | |
| cg0316539 | 0.274314 | 0.42807 | 9.664019 | 1.53E-05 | 0.000987 | 3.692662 | 0.290913 | 0.565227 | -0.27431 | 12 | 1.2E+08 | R | II | CIT | Body | opensea | Body-opens | | rs5832550 | 31;4;1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1207680 | 0.241836 | 0.545883 | 9.659182 | 1.54E-05 | 0.000988 | 3.688995 | 0.424965 | 0.666801 | -0.24184 | 12 | 94699253 | R | II | PLXNC1 | Body | opensea | Body-opens | rs1494753 | 34 | | | | |
| cg0997402 | 0.218591 | 0.626485 | 9.658339 | 1.54E-05 | 0.000989 | 3.688355 | 0.51719 | 0.735781 | -0.21859 | 4 | 75346037 | R | II | | IGR | opensea | IGR-opense | rs5581345 | 44;34 | | | | |
| cg0763872 | 0.204717 | 0.537796 | 9.657905 | 1.54E-05 | 0.000989 | 3.688027 | 0.435438 | 0.640155 | -0.20472 | 3 | 1.34E+08 | R | II | | IGR | opensea | IGR-opense | rs5531784 | 46;2 | | | | |
| cg1409488 | 0.227599 | 0.627692 | 9.657856 | 1.54E-05 | 0.000989 | 3.68799 | 0.513892 | 0.741491 | -0.2276 | 3 | 42199807 | R | II | TRAK1 | Body | opensea | Body-opens | rs5699876 | 26 | | | | |
| cg1721729 | 0.253791 | 0.403937 | 9.65733 | 1.54E-05 | 0.000989 | 3.687591 | 0.277042 | 0.530833 | -0.25379 | 1 | 1.59E+08 | F | II | AIM2 | TSS1500 | opensea | TSS1500-op | rs1162896 | 1;8;42 | | | | |
| cg1543753 | 0.20094 | 0.602242 | 9.65612 | 1.54E-05 | 0.000989 | 3.686673 | 0.501772 | 0.702712 | -0.20094 | 5 | 33236365 | R | II | | IGR | opensea | IGR-opense | rs1401825 | 16 | | | | |
| cg1810095 | 0.281389 | 0.549288 | 9.655239 | 1.54E-05 | 0.00099 | 3.686004 | 0.408593 | 0.689982 | -0.28139 | 2 | 2.14E+08 | F | II | | IGR | opensea | IGR-opense | rs6218803 | 18;24;25 | | | | |
| cg0676195 | 0.226691 | 0.634767 | 9.655232 | 1.54E-05 | 0.00099 | 3.685999 | 0.521421 | 0.748112 | -0.22669 | 2 | 47453931 | R | II | LOC10192 | Body | opensea | Body-opens | rs5328998 | 20;1 | | | | |
| cg0950461 | 0.21612 | 0.474102 | 9.65424 | 1.55E-05 | 0.00099 | 3.685246 | 0.366042 | 0.582162 | -0.21612 | 10 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | rs7337370 | 38 | | | | |
| cg2534275 | 0.283445 | 0.537846 | 9.653719 | 1.55E-05 | 0.00099 | 3.684851 | 0.396123 | 0.679569 | -0.28345 | 16 | 11473669 | F | II | | IGR | opensea | IGR-opense | rs5380570 | 0;13;15;38;39 | | | | |
| cg1037197 | 0.230642 | 0.673632 | 9.652124 | 1.55E-05 | 0.000991 | 3.683641 | 0.558311 | 0.788954 | -0.23064 | 12 | 42737595 | F | I | PPHLN1 | Body | opensea | Body-opens | rs1496070 | 1;17;40 | | | | |
| cg1372002 | 0.210496 | 0.671774 | 9.651798 | 1.55E-05 | 0.000991 | 3.683393 | 0.566526 | 0.777022 | -0.2105 | 18 | 36752967 | R | II | | IGR | opensea | IGR-opense | rs5390107 | 43 | | | | |
| cg1270771 | 0.212955 | 0.529983 | 9.651528 | 1.55E-05 | 0.000991 | 3.683189 | 0.423506 | 0.636461 | -0.21296 | 4 | 57137351 | F | II | KIAA1211 | 5'UTR | opensea | 5'UTR-open | rs5459434 | 1 | | | | |
| cg2691974 | 0.225655 | 0.645056 | 9.650973 | 1.55E-05 | 0.000991 | 3.682767 | 0.532228 | 0.757883 | -0.22565 | 4 | 1.01E+08 | F | II | LOC25688( | Body | opensea | Body-opens | rs1809371 | 0;26 | | | | |
| cg1838630 | 0.204559 | 0.48182 | 9.648887 | 1.55E-05 | 0.000992 | 3.681184 | 0.379541 | 0.5841 | -0.20456 | 21 | 44741771 | R | II | | IGR | opensea | IGR-opense | rs8022542 | 39 | | | | |
| cg1068408 | 0.203809 | 0.588052 | 9.648447 | 1.55E-05 | 0.000992 | 3.68085 | 0.486148 | 0.689957 | -0.20381 | 9 | 92804632 | F | II | LOC28637( | TSS1500 | opensea | TSS1500-op | rs5650213 | 15 | | | | |
| cg0669018 | 0.240449 | 0.677271 | 9.6473 | 1.55E-05 | 0.000993 | 3.679979 | 0.557047 | 0.797495 | -0.24045 | 18 | 77960781 | F | II | PARD6G | Body | opensea | Body-opens | rs1130568 | 27 | | | | |
| cg1685386 | 0.247824 | 0.340977 | 9.645771 | 1.55E-05 | 0.000993 | 3.678818 | 0.217066 | 0.464889 | -0.24782 | 6 | 32823116 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282( | | | | | |
| cg1360732 | 0.224802 | 0.563851 | 9.645614 | 1.56E-05 | 0.000993 | 3.678699 | 0.45145 | 0.676252 | -0.2248 | 5 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | rs5328300 | 41 | | | | |
| cg0665510 | 0.226518 | 0.656913 | 9.644892 | 1.56E-05 | 0.000993 | 3.67815 | 0.543654 | 0.770172 | -0.22652 | 7 | 56165514 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0387500 | 0.211828 | 0.523704 | 9.644164 | 1.56E-05 | 0.000994 | 3.677598 | 0.417789 | 0.629618 | -0.21183 | 5 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0624809 | 0.261617 | 0.488664 | 9.644134 | 1.56E-05 | 0.000994 | 3.677575 | 0.357856 | 0.619473 | -0.26162 | 18 | 6004245 | F | II | L3MBTL4 | Body | opensea | Body-opens | rs5430257 | 0 | | | | |
| cg1326755 | 0.20099 | 0.531264 | 9.643911 | 1.56E-05 | 0.000994 | 3.677405 | 0.430769 | 0.631759 | -0.20099 | 6 | 30915371 | R | II | DPCR1 | Body | opensea | Body-opens | rs1407903 | 1 | | | | |
| cg0850799 | 0.219306 | 0.568677 | 9.643022 | 1.56E-05 | 0.000994 | 3.676731 | 0.459024 | 0.67833 | -0.21931 | 20 | 52646082 | F | II | BCAS1 | Body | opensea | Body-opens | rs1504209 | 27;43 | | | | |
| cg1731674 | 0.234792 | 0.59133 | 9.641547 | 1.56E-05 | 0.000994 | 3.67561 | 0.473934 | 0.708726 | -0.23479 | 2 | 2.18E+08 | F | II | DIRC3 | Body | opensea | Body-opens | rs1391444 | 1;2;32;36;48 | | | | |
| cg0491117 | 0.20481 | 0.597671 | 9.641336 | 1.56E-05 | 0.000994 | 3.67545 | 0.495266 | 0.700076 | -0.20481 | 3 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | rs1309035 | 29 | | | | |
| cg1499231 | 0.208008 | 0.356507 | 9.640912 | 1.56E-05 | 0.000994 | 3.675128 | 0.252503 | 0.460511 | -0.20801 | 7 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1840210 | 0.216321 | 0.673259 | 9.640467 | 1.56E-05 | 0.000995 | 3.674789 | 0.565098 | 0.781419 | -0.21632 | 3 | 72059061 | F | II | | IGR | opensea | IGR-opense | rs5510570 | 0;16;37 | | | | |
| cg1798205 | 0.20939 | 0.644213 | 9.637677 | 1.56E-05 | 0.000995 | 3.67267 | 0.539518 | 0.748908 | -0.20939 | 8 | 1.16E+08 | F | II | TRPS1 | Body | opensea | Body-opens | rs5273751 | 21;25 | | | | |
| cg1839301 | 0.223534 | 0.553388 | 9.637135 | 1.56E-05 | 0.000995 | 3.672257 | 0.441621 | 0.665156 | -0.22353 | 8 | 23651954 | R | II | | IGR | opensea | IGR-opense | rs1828605 | 24;1 | | | | |
| cg1191361 | 0.238082 | 0.426576 | 9.636618 | 1.57E-05 | 0.000995 | 3.671864 | 0.307535 | 0.545617 | -0.23808 | 2 | 60761127 | R | II | BCL11A | Body | opensea | Body-opens | rs5374692 | 24;1 | | | | |
| cg1710442 | 0.240425 | 0.519807 | 9.636478 | 1.57E-05 | 0.000995 | 3.671758 | 0.399594 | 0.640019 | -0.24042 | 20 | 572111 | F | II | | IGR | opensea | IGR-opense | rs5529930 | 0;7;48 | | | | |
| cg0892413 | 0.200302 | 0.590036 | 9.63635 | 1.57E-05 | 0.000995 | 3.671661 | 0.489885 | 0.690188 | -0.2003 | 22 | 43438584 | R | II | LOC10050( | Body | opensea | Body-opens | rs1161208 | 1 | | | | |
| cg2364646 | 0.225778 | 0.646279 | 9.635394 | 1.57E-05 | 0.000996 | 3.670934 | 0.53339 | 0.759168 | -0.22578 | 13 | 1.15E+08 | R | II | UPF3A | Body | opensea | Body-opens | rs5297055 | 29;15 | | | | |
| cg0221560 | 0.21806 | 0.629093 | 9.633164 | 1.57E-05 | 0.000997 | 3.669238 | 0.520064 | 0.738123 | -0.21806 | 4 | 1.46E+08 | R | II | HHIP | Body | opensea | Body-opens | | | | | | |
| cg2638662 | 0.209417 | 0.69819 | 9.632937 | 1.57E-05 | 0.000997 | 3.669066 | 0.593482 | 0.802899 | -0.20942 | 8 | 17974394 | F | II | | IGR | opensea | IGR-opense | rs5679226 | 0;1 | | | | |
| cg0341514 | 0.202585 | 0.57775 | 9.632871 | 1.57E-05 | 0.000997 | 3.669016 | 0.476458 | 0.679043 | -0.20258 | 11 | 12037969 | R | II | | IGR | opensea | IGR-opense | rs5293012 | 44;23;22;2;1 | | | | |
| cg1458535 | 0.210571 | 0.501447 | 9.632644 | 1.57E-05 | 0.000997 | 3.668843 | 0.396161 | 0.606732 | -0.21057 | 17 | 38023679 | F | II | ZPBP2 | TSS1500 | shore | TSS1500-sh | chr17:380: | | | | | |
| cg1220737 | 0.205555 | 0.709332 | 9.630843 | 1.57E-05 | 0.000997 | 3.667474 | 0.606554 | 0.81211 | -0.20556 | 12 | 7655803 | R | II | CD163 | Body | opensea | Body-opens | rs1180787 | 46 | | | | |
| cg2540513 | 0.233587 | 0.545648 | 9.630206 | 1.57E-05 | 0.000998 | 3.666989 | 0.428854 | 0.662441 | -0.23359 | 10 | 34488427 | R | II | PARD3 | Body | opensea | Body-opens | | | | | | |
| cg0297436 | 0.207798 | 0.515905 | 9.629154 | 1.57E-05 | 0.000998 | 3.666189 | 0.412006 | 0.619804 | -0.2078 | 1 | 96840725 | F | II | LOC10192( | TSS1500 | opensea | TSS1500-op | rs3756807 | 0;12 | | | | |
| cg2131713 | 0.20314 | 0.601604 | 9.628331 | 1.57E-05 | 0.000998 | 3.665563 | 0.500033 | 0.703174 | -0.20314 | 18 | 74781907 | F | II | MBP | Body | opensea | Body-opens | rs5680482 | 3;36 | | | | |
| cg0535597 | 0.234911 | 0.628686 | 9.628166 | 1.58E-05 | 0.000998 | 3.665438 | 0.511231 | 0.746142 | -0.23491 | 20 | 18792370 | R | II | C20orf78 | Body | opensea | Body-opens | rs5478406 | 2 | | | | |
| cg0501795 | 0.272398 | 0.57228 | 9.627675 | 1.58E-05 | 0.000998 | 3.665064 | 0.436081 | 0.708479 | -0.2724 | 3 | 1.51E+08 | F | II | GPR87 | 5'UTR | opensea | 5'UTR-open | rs1192614 | 31;36 | | | | |
| cg1858463 | 0.20389 | 0.513118 | 9.627433 | 1.58E-05 | 0.000998 | 3.66488 | 0.411173 | 0.615063 | -0.20389 | 5 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | rs5615105 | 1;17;42 | | | | |
| cg1074835 | 0.205135 | 0.61205 | 9.626025 | 1.58E-05 | 0.000999 | 3.663809 | 0.509483 | 0.714618 | -0.20513 | 9 | 84204292 | F | II | TLE1 | Body | opensea | Body-opens | rs5514030 | 9;19;40;46 | | | | |
| cg0238763 | 0.22787 | 0.362318 | 9.625871 | 1.58E-05 | 0.000999 | 3.663691 | 0.248383 | 0.476253 | -0.22787 | 8 | 50084756 | R | II | | IGR | opensea | IGR-opense | rs5564741 | 13;1 | | | | |
| cg1671041 | 0.203788 | 0.438071 | 9.625245 | 1.58E-05 | 0.001 | 3.663215 | 0.336177 | 0.539965 | -0.20379 | 7 | 93707553 | R | II | | IGR | opensea | IGR-opense | rs5709207 | 24 | | | | |
| cg0913166 | 0.235053 | 0.530379 | 9.624893 | 1.58E-05 | 0.001 | 3.662947 | 0.412852 | 0.647905 | -0.23505 | 3 | 54076817 | R | II | | IGR | opensea | IGR-opense | rs1500469 | 2 | | | | |
| cg1227489 | 0.200966 | 0.546754 | 9.624844 | 1.58E-05 | 0.001 | 3.66291 | 0.446271 | 0.647237 | -0.20097 | 1 | 1.54E+08 | F | II | S100A16 | TSS1500 | opensea | TSS1500-op | rs5303739 | 36;42 | | | | |
| cg2200351 | 0.209631 | 0.399284 | 9.623292 | 1.58E-05 | 0.001 | 3.661729 | 0.294469 | 0.5041 | -0.20963 | 7 | 90530573 | F | II | CDK14 | Body | opensea | Body-opens | rs1457372 | 0;1 | | | | |
| cg2035619 | 0.208742 | 0.529607 | 9.62262 | 1.58E-05 | 0.001 | 3.661217 | 0.425236 | 0.633978 | -0.20874 | 6 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | rs5707073 | 40 | | | | |
| cg1185391 | 0.201227 | 0.539522 | 9.620265 | 1.58E-05 | 0.001002 | 3.659425 | 0.438909 | 0.640136 | -0.20123 | 6 | 17159487 | R | II | | IGR | opensea | IGR-opense | rs1429702 | 2 | | | | |
| cg0815499 | 0.202014 | 0.690487 | 9.617226 | 1.59E-05 | 0.001002 | 3.65711 | 0.58948 | 0.791494 | -0.20201 | 1 | 53540497 | F | II | PODN | Body | shelf | Body-shelf | chr1:5354( | | | | | |
| cg0177578 | 0.223792 | 0.478857 | 9.616924 | 1.59E-05 | 0.001002 | 3.65688 | 0.366962 | 0.590753 | -0.22379 | 11 | 16419252 | F | II | SOX6 | Body | opensea | Body-opens | | | | | | |
| cg0406119 | 0.224671 | 0.403213 | 9.615607 | 1.59E-05 | 0.001003 | 3.655877 | 0.290877 | 0.515549 | -0.22467 | 7 | 25591247 | F | II | | IGR | opensea | IGR-opense | rs5316005 | 0;1;41 | | | | |
| cg1684714 | 0.24656 | 0.539062 | 9.615525 | 1.59E-05 | 0.001003 | 3.655815 | 0.415783 | 0.662342 | -0.24656 | 8 | 98988226 | R | II | MATN2 | Body | opensea | Body-opens | rs5497152 | 10 | | | | |
| cg1612790 | 0.215806 | 0.590356 | 9.615159 | 1.59E-05 | 0.001003 | 3.655536 | 0.482453 | 0.698259 | -0.21581 | 6 | 1.17E+08 | F | II | GPRC6A | TSS1500 | opensea | TSS1500-op | rs5443362 | 24;32 | | | | |
| cg0518977 | 0.206014 | 0.613656 | 9.612541 | 1.59E-05 | 0.001004 | 3.653541 | 0.510649 | 0.716664 | -0.20601 | 21 | 38646501 | F | II | | IGR | opensea | IGR-opense | rs9977897 | 41 | | | | |
| cg1352402 | 0.202551 | 0.440801 | 9.612134 | 1.59E-05 | 0.001004 | 3.653231 | 0.339526 | 0.542077 | -0.20255 | 1 | 2.34E+08 | F | II | KCNK1 | Body | opensea | Body-opens | rs5431954 | 0;1;27;33 | | | | |
| cg2313001 | 0.208713 | 0.635796 | 9.611889 | 1.59E-05 | 0.001004 | 3.653044 | 0.531439 | 0.740153 | -0.20871 | 2 | 1.66E+08 | R | II | COBLL1 | Body | opensea | Body-opens | rs1116346 | 43 | | | | |
| cg0735576 | 0.234017 | 0.536717 | 9.61173 | 1.59E-05 | 0.001004 | 3.652923 | 0.419709 | 0.653726 | -0.23402 | 5 | 1.28E+08 | F | II | FBN2 | Body | shelf | Body-shelf | chr5:1278: | rs5373949 | 0;1;36 | | | |
| cg0979904 | 0.204666 | 0.454902 | 9.610764 | 1.6E-05 | 0.001004 | 3.652187 | 0.352569 | 0.557235 | -0.20467 | 7 | 47486641 | F | II | TNS3 | 5'UTR | opensea | 5'UTR-open | rs1477464 | 22;23;26;26;35;36 | | | | |
| cg2030434 | 0.246629 | 0.599376 | 9.60919 | 1.6E-05 | 0.001005 | 3.650987 | 0.476061 | 0.72269 | -0.24663 | 10 | 13739925 | R | II | FRMD4A | Body | opensea | Body-opens | rs1396537 | 49;16 | | | | |
| cg1735724 | 0.203025 | 0.580673 | 9.607343 | 1.6E-05 | 0.001006 | 3.649579 | 0.479161 | 0.682186 | -0.20303 | 11 | 30462469 | F | II | MPPED2 | Body | opensea | Body-opens | rs5618390 | 0;21 | | | | |
| cg1269626 | 0.242408 | 0.511622 | 9.605276 | 1.6E-05 | 0.001006 | 3.648004 | 0.390418 | 0.632825 | -0.24241 | 14 | 67446489 | R | II | GPHN | Body | opensea | Body-opens | rs5423226 | 32;1 | | | | |
| cg2374342 | 0.256965 | 0.706424 | 9.604463 | 1.6E-05 | 0.001007 | 3.647383 | 0.577942 | 0.834907 | -0.25696 | 8 | 13170741 | R | II | DLC1 | Body | opensea | Body-opens | rs5633304 | 26 | | | | |
| cg0459252 | 0.235468 | 0.593054 | 9.601857 | 1.61E-05 | 0.001008 | 3.645396 | 0.475319 | 0.710788 | -0.23547 | 1 | 1.58E+08 | R | II | CD1C | TSS1500 | opensea | TSS1500-op | rs5630113 | 50 | | | | |
| cg2338199 | 0.283833 | 0.507977 | 9.598785 | 1.61E-05 | 0.001009 | 3.643052 | 0.366061 | 0.649894 | -0.28383 | 1 | 88867081 | R | II | | IGR | opensea | IGR-opense | rs5368460 | 22 | | | | |
| cg0234589 | 0.203981 | 0.5794 | 9.598663 | 1.61E-05 | 0.001009 | 3.642959 | 0.477409 | 0.681391 | -0.20398 | 20 | 31608207 | F | II | BPIFB2 | ExonBnd | opensea | ExonBnd-op | rs6057703 | 43 | | | | |
| cg1384446 | 0.201818 | 0.353498 | 9.597762 | 1.61E-05 | 0.001009 | 3.642271 | 0.252589 | 0.454407 | -0.20182 | 11 | 35436672 | R | II | SLC1A2 | Body | shelf | Body-shelf | chr11:3544 | rs5674451 | 19 | | | |
| cg1046725 | 0.200493 | 0.613903 | 9.597401 | 1.61E-05 | 0.001009 | 3.641996 | 0.513656 | 0.71415 | -0.20049 | 20 | 24483119 | F | II | SYNDIG1 | 5'UTR | opensea | 5'UTR-open | rs1386376 | 1 | | | | |
| cg2085728 | 0.218018 | 0.491619 | 9.597396 | 1.61E-05 | 0.001009 | 3.641992 | 0.38261 | 0.600628 | -0.21802 | 15 | 51632905 | R | II | GLDN | TSS1500 | shore | TSS1500-sh | chr15:5161 | rs1118695 | 46;27 | | | |
| cg2377719 | 0.210234 | 0.586374 | 9.595534 | 1.61E-05 | 0.00101 | 3.64057 | 0.481257 | 0.691491 | -0.21023 | 5 | 88361885 | R | II | | IGR | opensea | IGR-opense | rs1416695 | 14;8 | | | | |
| cg0396131 | 0.233548 | 0.607138 | 9.594327 | 1.61E-05 | 0.00101 | 3.639649 | 0.490364 | 0.723912 | -0.23355 | 2 | 2.4E+08 | F | II | HDAC4 | Body | opensea | Body-opens | rs5274099 | 1;39;50 | | | | |
| cg2306568 | 0.210517 | 0.627515 | 9.593718 | 1.62E-05 | 0.001011 | 3.639184 | 0.522257 | 0.732773 | -0.21052 | 5 | 97643638 | R | II | | IGR | opensea | IGR-opense | rs5276784 | 29;13 | | | | |
| cg2522099 | 0.20876 | 0.58812 | 9.59348 | 1.62E-05 | 0.001011 | 3.639003 | 0.48374 | 0.6925 | -0.20876 | 5 | 4206669 | R | II | | IGR | opensea | IGR-opense | rs5328821 | 42;2 | | | | |
| cg1350662 | 0.225028 | 0.63585 | 9.590853 | 1.62E-05 | 0.001012 | 3.636996 | 0.523336 | 0.748364 | -0.22503 | 3 | 45131153 | R | II | CDCP1 | Body | opensea | Body-opens | rs1493718 | 2 | | | | |
| cg0525422 | 0.244191 | 0.4917 | 9.588546 | 1.62E-05 | 0.001012 | 3.635235 | 0.369604 | 0.613795 | -0.24419 | 10 | 61050062 | R | II | FAM13C | Body | opensea | Body-opens | rs5729288 | 25;5 | | | | |
| cg1262951 | 0.227468 | 0.649104 | 9.586292 | 1.62E-05 | 0.001013 | 3.633512 | 0.53537 | 0.762838 | -0.22747 | 6 | 27859811 | R | II | HIST1H3J | TSS1500 | shore | TSS1500-sh | chr6:2786( | rs1860837 | 39 | | | |
| cg1718967 | 0.202008 | 0.42276 | 9.586204 | 1.62E-05 | 0.001013 | 3.633445 | 0.321756 | 0.523764 | -0.20201 | 8 | 61846477 | F | II | | IGR | opensea | IGR-opense | rs5479358 | 6;23;50 | | | | |
| cg0543255 | 0.246145 | 0.498094 | 9.58569 | 1.63E-05 | 0.001013 | 3.633052 | 0.375022 | 0.621167 | -0.24614 | 17 | 62632136 | R | II | SMURF2 | Body | opensea | Body-opens | rs5554456 | 29;7;2 | | | | |
| cg1662966 | 0.231229 | 0.579768 | 9.585558 | 1.63E-05 | 0.001013 | 3.632952 | 0.464154 | 0.695383 | -0.23123 | 12 | 31584191 | R | II | DENND5B | Body | opensea | Body-opens | rs1430659 | 2 | | | | |
| cg1278988 | 0.218791 | 0.595954 | 9.585089 | 1.63E-05 | 0.001013 | 3.632594 | 0.486558 | 0.70535 | -0.21879 | 3 | 1.76E+08 | F | II | | IGR | opensea | IGR-opense | rs5366562 | 0 | | | | |
| cg0577435 | 0.21212 | 0.651511 | 9.584647 | 1.63E-05 | 0.001013 | 3.632256 | 0.545451 | 0.757571 | -0.21212 | 4 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1536003 | 0.220556 | 0.641118 | 9.584165 | 1.63E-05 | 0.001013 | 3.631887 | 0.530839 | 0.751396 | -0.22056 | 3 | 41002920 | R | II | | IGR | opensea | IGR-opense | rs1389610 | 46;35;2 | | | | |
| cg1127349 | 0.238282 | 0.540403 | 9.583914 | 1.63E-05 | 0.001013 | 3.631695 | 0.421262 | 0.659544 | -0.23828 | 1 | 52239157 | F | II | OSBPL9 | Body | opensea | Body-opens | rs1482992 | 19;36;39;49 | | | | |
| cg0083112 | 0.214695 | 0.575415 | 9.583119 | 1.63E-05 | 0.001013 | 3.631088 | 0.468068 | 0.682762 | -0.21469 | 1 | 23038925 | R | II | EPHB2 | Body | shore | Body-shore | chr1:2303( | | | | | |
| cg2217613 | 0.244998 | 0.553371 | 9.581583 | 1.63E-05 | 0.001014 | 3.629914 | 0.430872 | 0.67587 | -0.245 | 10 | 33442301 | F | II | | IGR | opensea | IGR-opense | rs1864286 | 23;39 | | | | |
| cg2423421 | 0.211357 | 0.425537 | 9.581413 | 1.63E-05 | 0.001014 | 3.629784 | 0.319859 | 0.531216 | -0.21136 | 6 | 45678425 | F | II | | IGR | opensea | IGR-opense | rs5603071 | 21;26;28 | | | | |
| cg2454516 | 0.214765 | 0.358767 | 9.581357 | 1.63E-05 | 0.001014 | 3.629741 | 0.251384 | 0.46615 | -0.21477 | 6 | 1.55E+08 | R | II | IPCEF1 | 5'UTR | opensea | 5'UTR-open | rs1892452 | 50;21;2;1 | | | | |
| cg1333963 | 0.218657 | 0.500962 | 9.579466 | 1.63E-05 | 0.001015 | 3.628295 | 0.391634 | 0.61029 | -0.21866 | 5 | 1.79E+08 | R | II | RNF130 | Body | opensea | Body-opens | rs5660575 | 48;18 | | | | |
| cg0264033 | 0.202827 | 0.562841 | 9.579084 | 1.63E-05 | 0.001015 | 3.628003 | 0.461427 | 0.664254 | -0.20283 | 2 | 2.06E+08 | R | II | PARD3B | Body | opensea | Body-opens | rs5567470 | 21 | | | | |
| cg1142136 | 0.216921 | 0.512839 | 9.578548 | 1.63E-05 | 0.001015 | 3.627593 | 0.404379 | 0.6213 | -0.21692 | 6 | 1.46E+08 | R | II | LOC10050: | Body | opensea | Body-opens | rs1818323 | 21 | | | | |
| cg0205215 | 0.259187 | 0.472762 | 9.57718 | 1.64E-05 | 0.001015 | 3.626547 | 0.343168 | 0.602355 | -0.25919 | 8 | 26211126 | F | II | PPP2R2A | Body | opensea | Body-opens | | | | | | |
| cg2462348 | 0.20485 | 0.515179 | 9.576417 | 1.64E-05 | 0.001015 | 3.625964 | 0.412754 | 0.617604 | -0.20485 | 18 | 6719757 | R | II | | IGR | opensea | IGR-opense | rs5322106 | 36 | | | | |
| cg0615932 | 0.203013 | 0.567079 | 9.57474 | 1.64E-05 | 0.001016 | 3.624681 | 0.465573 | 0.668586 | -0.20301 | 4 | 74516954 | R | II | | IGR | opensea | IGR-opense | rs1865624 | 2 | | | | |
| cg0092963 | 0.226655 | 0.530784 | 9.574727 | 1.64E-05 | 0.001016 | 3.624671 | 0.417456 | 0.644111 | -0.22666 | 1 | 1379667 | R | II | | IGR | opensea | IGR-opense | rs1386918 | 37 | | | | |
| cg2763896 | 0.20627 | 0.460753 | 9.57433 | 1.64E-05 | 0.001016 | 3.624367 | 0.357618 | 0.563888 | -0.20627 | 1 | 2.19E+08 | F | II | | IGR | opensea | IGR-opense | rs5708386 | 27;49 | | | | |
| cg1583814 | 0.277821 | 0.444971 | 9.573712 | 1.64E-05 | 0.001016 | 3.623895 | 0.306061 | 0.583882 | -0.27782 | 10 | 28700847 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0620457 | 0.214177 | 0.641651 | 9.573604 | 1.64E-05 | 0.001016 | 3.623812 | 0.534562 | 0.748739 | -0.21418 | 6 | 44645167 | F | II | | IGR | opensea | IGR-opense | rs1494794 | 0;1;29;33 | | | | |
| cg0229832 | 0.217707 | 0.671067 | 9.57229 | 1.64E-05 | 0.001017 | 3.622806 | 0.562213 | 0.779921 | -0.21771 | 2 | 69180527 | R | II | GKN2 | TSS1500 | opensea | TSS1500-op | rs7393545 | 43;18;9;2 | | | | |
| cg0631187 | 0.232939 | 0.666299 | 9.572085 | 1.64E-05 | 0.001017 | 3.62265 | 0.549829 | 0.782769 | -0.23294 | 12 | 93427724 | F | II | | IGR | opensea | IGR-opense | rs1502121 | 12 | | | | |
| cg1719706 | 0.21299 | 0.601573 | 9.571249 | 1.64E-05 | 0.001018 | 3.62201 | 0.495078 | 0.708068 | -0.21299 | 4 | 80327523 | R | II | GK2 | 1stExon | opensea | 1stExon-op | rs5664194 | 41;39;35 | | | | |
| cg0326751 | 0.216064 | 0.729951 | 9.57086 | 1.64E-05 | 0.001018 | 3.621713 | 0.621919 | 0.837983 | -0.21606 | 8 | 21796065 | R | II | XPO7 | Body | opensea | Body-opens | | | | | | |
| cg1498563 | 0.231106 | 0.562676 | 9.568702 | 1.65E-05 | 0.001018 | 3.62006 | 0.447123 | 0.678229 | -0.23111 | 4 | 1.16E+08 | F | II | NDST4 | TSS1500 | opensea | TSS1500-op | rs1868936 | 0;36 | | | | |
| cg0950395 | 0.223272 | 0.529583 | 9.56569 | 1.65E-05 | 0.00102 | 3.617755 | 0.417947 | 0.641219 | -0.22327 | 10 | 50565220 | F | II | | IGR | opensea | IGR-opense | rs7974075 | 1 | | | | |
| cg0280755 | 0.259194 | 0.538735 | 9.562478 | 1.65E-05 | 0.001021 | 3.615295 | 0.409138 | 0.668332 | -0.25919 | 2 | 1.55E+08 | R | II | LOC10014( | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0289036 | 0.210723 | 0.637425 | 9.562234 | 1.65E-05 | 0.001021 | 3.615108 | 0.532063 | 0.742786 | -0.21072 | 1 | 1.52E+08 | R | II | TUFT1 | Body | opensea | Body-opens | rs5521988 | 1 | | | | |
| cg1518025 | 0.202656 | 0.548366 | 9.562135 | 1.65E-05 | 0.001021 | 3.615032 | 0.447038 | 0.649694 | -0.20266 | 10 | 24535313 | F | II | KIAA1217 | Body | opensea | Body-opens | | | | | | |
| cg1753908 | 0.250688 | 0.486975 | 9.561775 | 1.65E-05 | 0.001021 | 3.614757 | 0.361631 | 0.612319 | -0.25069 | 1 | 42265746 | F | II | HIVEP3 | 5'UTR | opensea | 5'UTR-open | rs1450071 | 32;42 | | | | |
| cg1327042 | 0.229373 | 0.544367 | 9.561413 | 1.65E-05 | 0.001021 | 3.614479 | 0.429681 | 0.659054 | -0.22937 | 4 | 1.22E+08 | F | II | PRDM5 | Body | opensea | Body-opens | | | | | | |
| cg0794972 | 0.277965 | 0.413362 | 9.56083 | 1.66E-05 | 0.001021 | 3.614033 | 0.274379 | 0.552344 | -0.27797 | 17 | 32576670 | F | II | | IGR | opensea | IGR-opense | rs5612776 | 41 | | | | |
| cg1354721 | 0.256551 | 0.477276 | 9.55777 | 1.66E-05 | 0.001023 | 3.611688 | 0.349001 | 0.605551 | -0.25655 | 2 | 2.24E+08 | R | II | | IGR | opensea | IGR-opense | rs5561144 | 25 | | | | |
| cg1054649 | 0.216252 | 0.525608 | 9.557576 | 1.66E-05 | 0.001023 | 3.611539 | 0.417482 | 0.633734 | -0.21625 | 5 | 1.33E+08 | R | II | FSTL4 | ExonBnd | opensea | ExonBnd-op | | | | | | |
| cg1462230 | 0.216259 | 0.567131 | 9.557192 | 1.66E-05 | 0.001023 | 3.611245 | 0.459001 | 0.67526 | -0.21626 | 21 | 40149168 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2111041 | 0.218227 | 0.587696 | 9.556791 | 1.66E-05 | 0.001023 | 3.610938 | 0.478582 | 0.696809 | -0.21823 | 6 | 1.07E+08 | F | II | AIM1 | Body | opensea | Body-opens | rs5384906 | 1;32;38;51 | | | | |
| cg1467143 | 0.220339 | 0.484138 | 9.556451 | 1.66E-05 | 0.001023 | 3.610677 | 0.373968 | 0.594307 | -0.22034 | 8 | 9216252 | F | II | | IGR | opensea | IGR-opense | rs5278302 | 36;40 | | | | |
| cg1650362 | 0.207181 | 0.648056 | 9.556314 | 1.66E-05 | 0.001023 | 3.610573 | 0.544465 | 0.751647 | -0.20718 | 3 | 1.92E+08 | R | II | FGF12 | Body | opensea | Body-opens | rs5624892 | 33 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1414372 | 0.227468 | 0.682556 | 9.555375 | 1.66E-05 | 0.001023 | 3.609853 | 0.568822 | 0.79629 | -0.22747 | 3 | 27638612 | F | II | | IGR | opensea | IGR-opense | | rs5579865 | 46;12 |
| cg1401807 | 0.229442 | 0.471908 | 9.554648 | 1.66E-05 | 0.001023 | 3.609295 | 0.357187 | 0.586629 | -0.22944 | 1 | 8157705 | R | II | | IGR | opensea | IGR-opense | | rs5579865 | 46;12 |
| cg0807655 | 0.237737 | 0.592765 | 9.554624 | 1.66E-05 | 0.001023 | 3.609277 | 0.473897 | 0.711634 | -0.23774 | 3 | 1.75E+08 | F | II | NAALADL2- | Body | opensea | Body-opens | | rs5411959 | 0 |
| cg2754160 | 0.205082 | 0.456257 | 9.554563 | 1.66E-05 | 0.001023 | 3.60923 | 0.353716 | 0.558798 | -0.20508 | 1 | 1.59E+08 | R | II | AIM2 | 5'UTR | opensea | 5'UTR-open | | rs2298802 | 48;38;32;23;10;1 |
| cg2289271 | 0.233604 | 0.65064 | 9.553903 | 1.66E-05 | 0.001023 | 3.608724 | 0.533839 | 0.767442 | -0.2336 | 6 | 22252037 | R | II | | IGR | opensea | IGR-opense | | rs5285784 | 43;40;35;2 |
| cg1141175 | 0.203369 | 0.58825 | 9.5534 | 1.66E-05 | 0.001024 | 3.608338 | 0.486565 | 0.689934 | -0.20337 | 6 | 52822464 | F | II | | IGR | opensea | IGR-opense | | rs1455683 | 0;48 |
| cg0210889 | 0.20605 | 0.711407 | 9.553195 | 1.66E-05 | 0.001024 | 3.608181 | 0.608382 | 0.814432 | -0.20605 | 10 | 1.29E+08 | F | II | DOCK1 | Body | opensea | Body-opens | | rs5736690 | 19;40 |
| cg0967344 | 0.20031 | 0.4831 | 9.55268 | 1.67E-05 | 0.001024 | 3.607787 | 0.382944 | 0.583255 | -0.20031 | 2 | 34578659 | R | II | | IGR | opensea | IGR-opense | | rs1833988 | 44 |
| cg0650981 | 0.21885 | 0.582569 | 9.551828 | 1.67E-05 | 0.001024 | 3.607133 | 0.473144 | 0.691994 | -0.21885 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-opens | | rs5586205 | 49 |
| cg0040294 | 0.200994 | 0.493774 | 9.55089 | 1.67E-05 | 0.001024 | 3.606414 | 0.393277 | 0.594271 | -0.20099 | 10 | 36783791 | R | II | | IGR | opensea | IGR-opense | | rs5374088 | 23 |
| cg2241067 | 0.211708 | 0.645359 | 9.548419 | 1.67E-05 | 0.001025 | 3.604519 | 0.539505 | 0.751213 | -0.21171 | 14 | 25476564 | F | II | STXBP6 | 5'UTR | opensea | 5'UTR-open | | rs1414717 | 5 |
| cg2033301 | 0.205391 | 0.532995 | 9.548209 | 1.67E-05 | 0.001025 | 3.604357 | 0.4303 | 0.63569 | -0.20539 | 11 | 67442126 | R | II | ALDH3B2 | 5'UTR | opensea | 5'UTR-open | | rs1166382 | 1 |
| cg1884543 | 0.21164 | 0.464961 | 9.547892 | 1.67E-05 | 0.001025 | 3.604114 | 0.359141 | 0.570781 | -0.21164 | 12 | 53193325 | R | II | | IGR | opensea | IGR-opense | | rs5377218 | 38;1 |
| cg0351413 | 0.218163 | 0.473743 | 9.547458 | 1.67E-05 | 0.001026 | 3.603782 | 0.364662 | 0.582825 | -0.21816 | 7 | 50732341 | F | II | GRB10 | Body | opensea | Body-opens | | rs5326268 | 4 |
| cg0687856 | 0.225919 | 0.68079 | 9.547084 | 1.67E-05 | 0.001026 | 3.603495 | 0.567831 | 0.793749 | -0.22592 | 14 | 51649150 | F | II | | IGR | opensea | IGR-opense | | rs5477329 | 4 |
| cg1297939 | 0.217265 | 0.606223 | 9.546846 | 1.67E-05 | 0.001026 | 3.603312 | 0.49759 | 0.714855 | -0.21727 | 17 | 76569921 | F | II | DNAH17 | Body | opensea | Body-opens | | rs1178810 | 1;20;23 |
| cg0576650 | 0.229557 | 0.640334 | 9.546518 | 1.67E-05 | 0.001026 | 3.603061 | 0.525555 | 0.755113 | -0.22956 | 2 | 2.08E+08 | F | II | DYTN | Body | opensea | Body-opens | | rs5351007 | 1;39 |
| cg1557884 | 0.22169 | 0.338619 | 9.546421 | 1.67E-05 | 0.001026 | 3.602986 | 0.227774 | 0.449464 | -0.22169 | 1 | 79839273 | F | II | | IGR | opensea | IGR-opense | | rs5456866 | 1;46 |
| cg1782008 | 0.220209 | 0.472026 | 9.545362 | 1.67E-05 | 0.001026 | 3.602173 | 0.361921 | 0.58213 | -0.22021 | 2 | 1.63E+08 | R | II | FAP | TSS1500 | opensea | TSS1500-op | | rs5695446 | 35 |
| cg0141047 | 0.209625 | 0.391521 | 9.54505 | 1.68E-05 | 0.001026 | 3.601934 | 0.286709 | 0.496334 | -0.20963 | 14 | 27286128 | F | II | LOC10272 | ExonBnd | opensea | ExonBnd-op | | rs5439380 | 29 |
| cg1083556 | 0.205029 | 0.61805 | 9.542166 | 1.68E-05 | 0.001027 | 3.599721 | 0.515536 | 0.720565 | -0.20503 | 20 | 13035458 | F | II | SPTLC3 | Body | opensea | Body-opens | | rs1927100 | 0;1;35;51 |
| cg0888432 | 0.226462 | 0.641244 | 9.541764 | 1.68E-05 | 0.001028 | 3.599412 | 0.528013 | 0.754475 | -0.22646 | 18 | 9354514 | F | II | TWSG1 | Body | opensea | Body-opens | | rs5314704 | 5 |
| cg0587810 | 0.205731 | 0.66336 | 9.54158 | 1.68E-05 | 0.001028 | 3.599271 | 0.560494 | 0.766225 | -0.20573 | 3 | 1.7E+08 | R | II | PRKCI | Body | opensea | Body-opens | | rs5508848 | 29;14 |
| cg1815668 | 0.246375 | 0.389494 | 9.541523 | 1.68E-05 | 0.001028 | 3.599227 | 0.266306 | 0.512681 | -0.24638 | 6 | 53097064 | R | II | | IGR | opensea | IGR-opense | | rs1490449 | 16;4;1 |
| cg2291678 | 0.209105 | 0.506998 | 9.540553 | 1.68E-05 | 0.001028 | 3.598482 | 0.402446 | 0.611551 | -0.20911 | 2 | 47946343 | R | II | | IGR | opensea | IGR-opense | | rs1867275 | 2 |
| cg0138156 | 0.212648 | 0.483196 | 9.535915 | 1.69E-05 | 0.00103 | 3.594921 | 0.376872 | 0.58952 | -0.21265 | 2 | 2.26E+08 | F | II | NYAP2 | Body | opensea | Body-opens | | rs5701942 | 0 |
| cg2229115 | 0.220282 | 0.552505 | 9.533149 | 1.69E-05 | 0.001031 | 3.592796 | 0.442365 | 0.662646 | -0.22028 | 13 | 27232582 | F | II | WASF3 | Body | opensea | Body-opens | | rs3734997 | 1;16;31 |
| cg0700971 | 0.219506 | 0.48228 | 9.532921 | 1.69E-05 | 0.001031 | 3.592621 | 0.372527 | 0.592033 | -0.21951 | 1 | 2.04E+08 | R | II | ATP2B4 | Body | opensea | Body-opens | | rs6182565 | 21;1 |
| cg1447547 | 0.221775 | 0.545029 | 9.532505 | 1.69E-05 | 0.001031 | 3.592302 | 0.434142 | 0.655917 | -0.22177 | 10 | 1.05E+08 | R | II | NEURL | Body | opensea | Body-opens | | rs5615084 | 1 |
| cg1281210 | 0.231654 | 0.441713 | 9.530919 | 1.69E-05 | 0.001032 | 3.591083 | 0.325885 | 0.55754 | -0.23165 | 9 | 27715148 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0200593 | 0.259144 | 0.631461 | 9.530002 | 1.69E-05 | 0.001032 | 3.590378 | 0.501889 | 0.761033 | -0.25914 | 13 | 74137411 | F | II | LINC00392 | TSS1500 | opensea | TSS1500-op | | rs5739170 | 18 |
| cg2454594 | 0.210776 | 0.628023 | 9.528722 | 1.7E-05 | 0.001032 | 3.589394 | 0.522635 | 0.733411 | -0.21078 | 2 | 1.83E+08 | F | II | PPP1R1C | TSS1500 | opensea | TSS1500-op | | | |
| cg1800332 | 0.246154 | 0.524181 | 9.528702 | 1.7E-05 | 0.001032 | 3.589379 | 0.401104 | 0.647258 | -0.24615 | 12 | 32138012 | F | II | KIAA1551 | Body | opensea | Body-opens | | rs7694315 | 15;31;46 |
| cg1439379 | 0.227584 | 0.621621 | 9.527922 | 1.7E-05 | 0.001032 | 3.588779 | 0.507829 | 0.735413 | -0.22758 | 15 | 45379815 | F | II | | IGR | opensea | IGR-opense | | rs1466085 | 40 |
| cg2119722 | 0.22701 | 0.577066 | 9.527865 | 1.7E-05 | 0.001032 | 3.588736 | 0.46356 | 0.690571 | -0.22701 | 17 | 56082780 | R | II | SFRS1 | 3'UTR | shore | 3'UTR-shor | chr17:560 | | |
| cg1618796 | 0.202475 | 0.62601 | 9.526804 | 1.7E-05 | 0.001032 | 3.58792 | 0.524773 | 0.727248 | -0.20247 | 20 | 40332967 | R | II | | IGR | opensea | IGR-opense | | rs1503732 | 7 |
| cg1799699 | 0.25224 | 0.458614 | 9.52641 | 1.7E-05 | 0.001032 | 3.587617 | 0.332493 | 0.584734 | -0.25224 | 11 | 86651974 | F | II | | IGR | opensea | IGR-opense | | rs5448632 | 1 |
| cg1974727 | 0.261892 | 0.489867 | 9.526306 | 1.7E-05 | 0.001032 | 3.587537 | 0.358921 | 0.620813 | -0.26189 | 6 | 28553390 | R | II | SCAND3 | Body | shore | Body-shore | chr6:2855 | rs1865280 | 2 |
| cg0383232 | 0.200558 | 0.391211 | 9.525293 | 1.7E-05 | 0.001033 | 3.586758 | 0.290932 | 0.49149 | -0.20056 | 18 | 28955953 | R | II | DSG4 | TSS1500 | opensea | TSS1500-op | | rs5291773 | 46;2 |
| cg0294457 | 0.267511 | 0.660896 | 9.524567 | 1.7E-05 | 0.001033 | 3.5862 | 0.527141 | 0.794652 | -0.26751 | 14 | 63762854 | F | II | | IGR | opensea | IGR-opense | | rs7455086 | 4;5 |
| cg2097580 | 0.221016 | 0.619886 | 9.52375 | 1.7E-05 | 0.001033 | 3.585571 | 0.509378 | 0.730394 | -0.22102 | 1 | 76254925 | R | II | RABGGTB | Body | opensea | Body-opens | | rs5334552 | 43 |
| cg1134131 | 0.204624 | 0.689791 | 9.522714 | 1.7E-05 | 0.001033 | 3.584775 | 0.587479 | 0.792104 | -0.20462 | 11 | 18285729 | F | II | | IGR | opensea | IGR-opense | | rs5434781 | 1;6;45 |
| cg2288964 | 0.227078 | 0.40676 | 9.52227 | 1.7E-05 | 0.001033 | 3.584433 | 0.293221 | 0.520299 | -0.22708 | 8 | 29107750 | R | II | KIF13B | Body | opensea | Body-opens | | rs1865629 | 28;27;18;2 |
| cg0820239 | 0.214981 | 0.564468 | 9.520492 | 1.71E-05 | 0.001034 | 3.583066 | 0.456978 | 0.671959 | -0.21498 | 7 | 1.4E+08 | F | II | TBXAS1 | 5'UTR | opensea | 5'UTR-open | | rs5580594 | 0;38 |
| cg2587955 | 0.211508 | 0.604007 | 9.519741 | 1.71E-05 | 0.001034 | 3.582488 | 0.498253 | 0.709761 | -0.21151 | 19 | 58620305 | R | II | ZSCAN18 | Body | opensea | Body-opens | | rs2554981 | 34 |
| cg0826803 | 0.272895 | 0.426734 | 9.51823 | 1.71E-05 | 0.001034 | 3.581326 | 0.290286 | 0.563181 | -0.2729 | 1 | 2.3E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1241207 | 0.206251 | 0.472906 | 9.516693 | 1.71E-05 | 0.001035 | 3.580143 | 0.369781 | 0.576032 | -0.20625 | 13 | 24566933 | R | II | SPATA13 | Body | opensea | Body-opens | | rs9553131 | 35;3;1 |
| cg0880180 | 0.239733 | 0.610766 | 9.515993 | 1.71E-05 | 0.001035 | 3.579604 | 0.4909 | 0.730633 | -0.23973 | 1 | 2.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5313164 | 1;30 |
| cg2532673 | 0.230454 | 0.551492 | 9.515495 | 1.71E-05 | 0.001035 | 3.579221 | 0.436265 | 0.666719 | -0.23045 | 4 | 2714321 | R | II | FAM193A | Body | opensea | Body-opens | | rs1126529 | 17;1 |
| cg2400448 | 0.206022 | 0.662908 | 9.51458 | 1.71E-05 | 0.001035 | 3.578517 | 0.559897 | 0.765919 | -0.20602 | 1 | 944783 | R | I | | IGR | shelf | IGR-shelf | chr1:9486 | rs5542646 | 36;6 |
| cg1423285 | 0.20953 | 0.43865 | 9.51458 | 1.71E-05 | 0.001035 | 3.578516 | 0.333885 | 0.543414 | -0.20953 | 9 | 80111634 | F | II | GNA14 | Body | opensea | Body-opens | | rs1156759 | 0 |
| cg0643061 | 0.222124 | 0.579521 | 9.513325 | 1.71E-05 | 0.001036 | 3.57755 | 0.468459 | 0.690583 | -0.22212 | 1 | 2.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1931379 | 5;14;37 |
| cg2024342 | 0.21756 | 0.506001 | 9.512514 | 1.72E-05 | 0.001036 | 3.576926 | 0.397221 | 0.614781 | -0.21756 | 6 | 32059605 | F | II | TNXB | Body | shelf | Body-shelf | chr6:3206 | | |
| cg0789186 | 0.202974 | 0.686311 | 9.512313 | 1.72E-05 | 0.001036 | 3.576771 | 0.584824 | 0.787798 | -0.20297 | 8 | 1.42E+08 | F | II | PTK2 | Body | opensea | Body-opens | | rs5586205 | 0 |
| cg1327437 | 0.219389 | 0.706443 | 9.512264 | 1.72E-05 | 0.001036 | 3.576734 | 0.596748 | 0.816137 | -0.21939 | 2 | 47516134 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1441624 | 8;2 |
| cg1483498 | 0.201826 | 0.607219 | 9.511515 | 1.72E-05 | 0.001036 | 3.576157 | 0.506306 | 0.708132 | -0.20183 | 18 | 43218779 | F | II | SLC14A2 | Body | opensea | Body-opens | | rs5626695 | 1;27 |
| cg0150329 | 0.244332 | 0.576604 | 9.508526 | 1.72E-05 | 0.001037 | 3.573855 | 0.454438 | 0.69877 | -0.24433 | 4 | 2963264 | F | I | NOP14 | Body | shore | Body-shore | chr4:2964 | rs7379210 | 14;21;41;45 |
| cg2190475 | 0.215355 | 0.615752 | 9.508347 | 1.72E-05 | 0.001037 | 3.573717 | 0.508074 | 0.723429 | -0.21535 | 12 | 87233925 | R | II | MGAT4C | TSS1500 | opensea | TSS1500-op | | rs1932128 | 23;12 |
| cg1113614 | 0.218533 | 0.563474 | 9.507919 | 1.72E-05 | 0.001037 | 3.573387 | 0.454207 | 0.67274 | -0.21853 | 16 | 72988399 | F | II | ZFHX3 | Body | opensea | Body-opens | | | |
| cg0301394 | 0.202193 | 0.553325 | 9.507902 | 1.72E-05 | 0.001037 | 3.573374 | 0.452228 | 0.654421 | -0.20219 | 20 | 44142512 | R | II | SPINT3 | Body | opensea | Body-opens | | rs1810173 | 2 |
| cg0065088 | 0.211993 | 0.572576 | 9.506225 | 1.72E-05 | 0.001038 | 3.572082 | 0.46658 | 0.678573 | -0.21199 | 11 | 30533945 | R | II | MPPED2 | Body | opensea | Body-opens | | rs1476658 | 39;21 |
| cg1344953 | 0.215046 | 0.619623 | 9.505419 | 1.73E-05 | 0.001038 | 3.571461 | 0.5121 | 0.727145 | -0.21505 | 1 | 1101348 | R | I | MIR200B | TSS1500 | shore | TSS1500-sh | chr1:1098 | rs8029603 | 48;32 |
| cg1701360 | 0.209413 | 0.706289 | 9.505084 | 1.73E-05 | 0.001038 | 3.571203 | 0.601582 | 0.810995 | -0.20941 | 15 | 33435087 | F | II | FMN1 | Body | opensea | Body-opens | | rs5423124 | 0;12 |
| cg0476329 | 0.206083 | 0.602327 | 9.504209 | 1.73E-05 | 0.001039 | 3.570529 | 0.499285 | 0.705368 | -0.20608 | 1 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5455814 | 1 |
| cg0278161 | 0.213567 | 0.502601 | 9.503911 | 1.73E-05 | 0.001039 | 3.570299 | 0.395818 | 0.609385 | -0.21357 | 1 | 28843701 | R | II | RCC1 | TSS1500 | shore | TSS1500-sh | chr1:2884 | | |
| cg1669479 | 0.201896 | 0.528984 | 9.50314 | 1.73E-05 | 0.001039 | 3.569705 | 0.428036 | 0.629932 | -0.2019 | 4 | 88866784 | R | II | | IGR | opensea | IGR-opense | | rs5491224 | 44;39 |
| cg1295426 | 0.202721 | 0.635365 | 9.502718 | 1.73E-05 | 0.001039 | 3.56938 | 0.534004 | 0.736725 | -0.20272 | 6 | 33093109 | R | II | HLA-DPB2 | Body | opensea | Body-opens | | rs3750244 | 50;20;3 |
| cg1202397 | 0.230973 | 0.501332 | 9.501711 | 1.73E-05 | 0.00104 | 3.568604 | 0.385845 | 0.616818 | -0.23097 | 12 | 1.06E+08 | F | II | NUAK1 | Body | opensea | Body-opens | | rs6094283 | 31 |
| cg0424457 | 0.242159 | 0.606543 | 9.501611 | 1.73E-05 | 0.00104 | 3.568527 | 0.485464 | 0.727623 | -0.24216 | 3 | 34323792 | F | II | | IGR | opensea | IGR-opense | | rs5465365 | 25 |
| cg1186386 | 0.205018 | 0.592471 | 9.500752 | 1.73E-05 | 0.00104 | 3.567865 | 0.489961 | 0.69498 | -0.20502 | 17 | 75706410 | R | II | | IGR | opensea | IGR-opense | | rs1494688 | 29;23 |
| cg0260019 | 0.277543 | 0.529799 | 9.500502 | 1.73E-05 | 0.00104 | 3.567672 | 0.391028 | 0.668571 | -0.27754 | 8 | 1.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs1861060 | 16;2 |
| cg2437212 | 0.20941 | 0.573082 | 9.499235 | 1.73E-05 | 0.00104 | 3.566695 | 0.468377 | 0.677787 | -0.20941 | 1 | 1.85E+08 | R | II | FAM129A | Body | opensea | Body-opens | | rs5379848 | 35;11 |
| cg1008139 | 0.210687 | 0.548139 | 9.498546 | 1.73E-05 | 0.001041 | 3.566164 | 0.442795 | 0.653482 | -0.21069 | 12 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs5359015 | 2 |
| cg1320973 | 0.200717 | 0.680818 | 9.498287 | 1.73E-05 | 0.001041 | 3.565964 | 0.58046 | 0.781176 | -0.20072 | 12 | 8995557 | R | II | A2ML1 | Body | opensea | Body-opens | | rs7137125 | 36 |
| cg1436210 | 0.206407 | 0.65174 | 9.497821 | 1.73E-05 | 0.001041 | 3.565605 | 0.548536 | 0.754944 | -0.20641 | 1 | 91000048 | R | II | | IGR | opensea | IGR-opense | | rs1135501 | 46;33 |
| cg2443605 | 0.228234 | 0.431492 | 9.497277 | 1.74E-05 | 0.001041 | 3.565185 | 0.317375 | 0.545609 | -0.22823 | 7 | 1.55E+08 | R | II | DPP6 | Body | opensea | Body-opens | | rs5374288 | 31;29;16;12;2;1 |
| cg0583581 | 0.242939 | 0.565675 | 9.49686 | 1.74E-05 | 0.001041 | 3.564864 | 0.444205 | 0.687144 | -0.24294 | 1 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs5612743 | 35;9;6 |
| cg1222066 | 0.208084 | 0.642396 | 9.495291 | 1.74E-05 | 0.001042 | 3.563654 | 0.538354 | 0.746439 | -0.20808 | 2 | 20194085 | F | II | MATN3 | Body | shelf | Body-shelf | chr2:2018 | rs5312931 | 32 |
| cg1511024 | 0.202872 | 0.481266 | 9.49522 | 1.74E-05 | 0.001042 | 3.563599 | 0.37983 | 0.582702 | -0.20287 | 11 | 78501744 | F | II | ODZ4 | Body | opensea | Body-opens | | rs5355961 | 1 |
| cg1717844 | 0.21348 | 0.622799 | 9.494397 | 1.74E-05 | 0.001042 | 3.562964 | 0.516059 | 0.729539 | -0.21348 | 10 | 23701242 | R | II | | IGR | opensea | IGR-opense | | rs2004404 | 48;7 |
| cg1607334 | 0.229139 | 0.537509 | 9.491002 | 1.74E-05 | 0.001043 | 3.560345 | 0.422939 | 0.652078 | -0.22914 | 20 | 31631564 | R | II | BPIFB6 | Body | opensea | Body-opens | | rs7942346 | 46 |
| cg1332058 | 0.251092 | 0.44184 | 9.490881 | 1.74E-05 | 0.001043 | 3.560251 | 0.316294 | 0.567386 | -0.25109 | 12 | 79812901 | R | II | MIR1252 | TSS200 | opensea | TSS200-ope | | rs5295216 | 46;2 |
| cg2346748 | 0.219496 | 0.534155 | 9.488442 | 1.75E-05 | 0.001044 | 3.558369 | 0.424408 | 0.643903 | -0.2195 | 1 | 1.75E+08 | F | II | RABGAP1L | Body | opensea | Body-opens | | rs1812494 | 26;46 |
| cg1147324 | 0.209878 | 0.604213 | 9.486663 | 1.75E-05 | 0.001045 | 3.556996 | 0.499274 | 0.709152 | -0.20988 | 17 | 39553960 | R | II | KRT31 | TSS200 | opensea | TSS200-ope | | | |
| cg1022538 | 0.230884 | 0.442197 | 9.485604 | 1.75E-05 | 0.001045 | 3.556178 | 0.326755 | 0.557639 | -0.23088 | 6 | 1.09E+08 | F | II | ARMC2 | 5'UTR | opensea | 5'UTR-open | | rs5521452 | 2;4 |
| cg2111359 | 0.255875 | 0.53552 | 9.484502 | 1.75E-05 | 0.001046 | 3.555327 | 0.407582 | 0.663457 | -0.25588 | 14 | 31858067 | R | II | HEATR5A | 1stExon | opensea | 1stExon-op | | rs3887865 | 44;23;2 |
| cg0205154 | 0.207521 | 0.711741 | 9.483459 | 1.75E-05 | 0.001046 | 3.554522 | 0.607981 | 0.815502 | -0.20752 | 1 | 2.4E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:2401 | rs5772036 | 47;46 |
| cg1472936 | 0.206654 | 0.394452 | 9.482502 | 1.75E-05 | 0.001046 | 3.553782 | 0.291125 | 0.497779 | -0.20665 | 16 | 77364437 | F | II | ADAMTS18 | Body | opensea | Body-opens | | rs274530 | 16;17;46 |
| cg2734309 | 0.219614 | 0.605926 | 9.480912 | 1.76E-05 | 0.001047 | 3.552554 | 0.496118 | 0.715733 | -0.21961 | 2 | 86025560 | R | II | | IGR | opensea | IGR-opense | | rs5503525 | 2 |
| cg0658392 | 0.230017 | 0.484437 | 9.480464 | 1.76E-05 | 0.001047 | 3.552209 | 0.369429 | 0.599446 | -0.23002 | 3 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0677265 | 0.200443 | 0.480389 | 9.480256 | 1.76E-05 | 0.001047 | 3.552048 | 0.380168 | 0.58061 | -0.20044 | 5 | 38048847 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2354609 | 0.204682 | 0.508491 | 9.479879 | 1.76E-05 | 0.001047 | 3.551756 | 0.40615 | 0.610832 | -0.20468 | 16 | 15740943 | F | II | NDE1 | 5'UTR | shelf | 5'UTR-shelf | chr16:157 | rs1465391 | 17;22;30;37;40 |
| cg1626593 | 0.260008 | 0.445822 | 9.47956 | 1.76E-05 | 0.001047 | 3.55151 | 0.315818 | 0.575825 | -0.26001 | 10 | 1.12E+08 | R | II | RBM20 | Body | opensea | Body-opens | | rs5287368 | 41 |
| cg0806342 | 0.224469 | 0.63927 | 9.479323 | 1.76E-05 | 0.001047 | 3.551327 | 0.527035 | 0.751504 | -0.22447 | 2 | 2.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs1442196 | 0 |
| cg1792263 | 0.209302 | 0.504172 | 9.47882 | 1.76E-05 | 0.001047 | 3.550938 | 0.399521 | 0.608823 | -0.2093 | 1 | 69988995 | F | II | | IGR | opensea | IGR-opense | | rs1861992 | 36 |
| cg2065544 | 0.200643 | 0.523203 | 9.478788 | 1.76E-05 | 0.001047 | 3.550914 | 0.422881 | 0.623524 | -0.20064 | 13 | 86240791 | F | II | | IGR | opensea | IGR-opense | | rs4324043 | 41 |
| cg0475943 | 0.22591 | 0.40581 | 9.478513 | 1.76E-05 | 0.001047 | 3.550701 | 0.292855 | 0.518764 | -0.22591 | 8 | 50242329 | F | II | | IGR | opensea | IGR-opense | | rs1843899 | 0;27 |
| cg0082985 | 0.28173 | 0.47357 | 9.478448 | 1.76E-05 | 0.001047 | 3.550651 | 0.332705 | 0.614435 | -0.28173 | 2 | 1.79E+08 | F | II | OSBPL6 | 5'UTR | opensea | 5'UTR-open | | rs5694126 | 0;1 |
| cg1274324 | 0.213357 | 0.415142 | 9.47791 | 1.76E-05 | 0.001047 | 3.550235 | 0.308464 | 0.52182 | -0.21336 | 8 | 49636840 | R | II | EFCAB1 | 3'UTR | opensea | 3'UTR-open | | rs5582310 | 28;22;17 |
| cg2082502 | 0.201272 | 0.480695 | 9.475794 | 1.76E-05 | 0.001048 | 3.5486 | 0.38006 | 0.581331 | -0.20127 | 2 | 1.25E+08 | R | II | CNTNAP5 | Body | opensea | Body-opens | | rs1882126 | 1 |
| cg0396225 | 0.253546 | 0.523242 | 9.472327 | 1.77E-05 | 0.001049 | 3.54592 | 0.39647 | 0.650015 | -0.25355 | 13 | 96211557 | R | II | CLDN10 | Body | opensea | Body-opens | | rs5545256 | 24 |
| cg0452743 | 0.202711 | 0.573136 | 9.4716 | 1.77E-05 | 0.001049 | 3.545358 | 0.47178 | 0.674491 | -0.20271 | 11 | 1.12E+08 | F | II | DLAT | Body | opensea | Body-opens | | rs3699024 | 0;25 |
| cg2549646 | 0.219426 | 0.523581 | 9.471255 | 1.77E-05 | 0.001049 | 3.545091 | 0.413868 | 0.633293 | -0.21943 | 15 | 76258485 | R | II | NRG4 | Body | opensea | Body-opens | | rs5429589 | 28;10;9 |
| cg1987159 | 0.220037 | 0.493113 | 9.470258 | 1.77E-05 | 0.001049 | 3.54432 | 0.383094 | 0.603132 | -0.22004 | 13 | 59592287 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1511478 | 0.20871 | 0.478162 | 9.470024 | 1.77E-05 | 0.001049 | 3.544139 | 0.373807 | 0.582517 | -0.20871 | 5 | 31745603 | F | II | | IGR | opensea | IGR-opense | | rs5633689 | 0;6;12;32 |
| cg1740408 | 0.218462 | 0.483272 | 9.469302 | 1.77E-05 | 0.001049 | 3.543581 | 0.374041 | 0.592503 | -0.21846 | 3 | 39449544 | F | II | SNORA6 | TSS1500 | shore | TSS1500-sh | chr3:3944 | rs1810418 | 1 |
| cg0408314 | 0.237928 | 0.476157 | 9.468528 | 1.77E-05 | 0.001049 | 3.542982 | 0.357193 | 0.59512 | -0.23793 | 17 | 64028625 | R | II | CEP112 | Body | opensea | Body-opens | | rs5435131 | 42;2 |
| cg0801496 | 0.22195 | 0.475943 | 9.467875 | 1.77E-05 | 0.00105 | 3.542477 | 0.364968 | 0.586918 | -0.22195 | 17 | 10372972 | F | II | MYH4 | TSS200 | opensea | TSS200-ope | | rs1814821 | 1 |
| cg1318615 | 0.21895 | 0.481275 | 9.467503 | 1.77E-05 | 0.00105 | 3.542189 | 0.371799 | 0.59075 | -0.21895 | 1 | 86063729 | R | II | | IGR | opensea | IGR-opense | | rs1849554 | 49;48 |
| cg0688211 | 0.20319 | 0.506376 | 9.467176 | 1.78E-05 | 0.00105 | 3.541936 | 0.404781 | 0.607971 | -0.20319 | 12 | 39725994 | R | II | KIF21A | Body | opensea | Body-opens | | rs7834430 | 2 |
| cg0449163 | 0.268863 | 0.532912 | 9.465714 | 1.78E-05 | 0.00105 | 3.540805 | 0.39848 | 0.667344 | -0.26886 | 2 | 1.74E+08 | F | II | ZAK | Body | opensea | Body-opens | | rs1116036 | 0;21 |
| cg0250734 | 0.201334 | 0.62064 | 9.465226 | 1.78E-05 | 0.00105 | 3.540428 | 0.519973 | 0.721307 | -0.20133 | 13 | 40714464 | R | II | | IGR | opensea | IGR-opense | | rs5359402 | 25;24 |
| cg0001410 | 0.229755 | 0.560633 | 9.463853 | 1.78E-05 | 0.001051 | 3.539365 | 0.445756 | 0.675511 | -0.22976 | 22 | 22220367 | R | II | MAPK1 | Body | shore | Body-shore | chr22:2222 | rs5293634 | 2 |
| cg2213009 | 0.238412 | 0.611324 | 9.46384 | 1.78E-05 | 0.001051 | 3.539355 | 0.492118 | 0.73053 | -0.23841 | 2 | 59098148 | F | II | LINC01122 | Body | opensea | Body-opens | | rs7553148 | 0;6;26 |
| cg0784263 | 0.232468 | 0.52817 | 9.46367 | 1.78E-05 | 0.001051 | 3.539223 | 0.411936 | 0.644404 | -0.23247 | 13 | 47862393 | F | II | | IGR | opensea | IGR-opense | | rs1409901 | 46 |
| cg1238629 | 0.215222 | 0.513408 | 9.462742 | 1.78E-05 | 0.001051 | 3.538506 | 0.405797 | 0.621018 | -0.21522 | 1 | 2.1E+08 | R | II | LOC64258 | Body | opensea | Body-opens | | rs1174186 | 2 |
| cg2453318 | 0.204188 | 0.575055 | 9.461064 | 1.78E-05 | 0.001052 | 3.537207 | 0.472961 | 0.677149 | -0.20419 | 1 | 2.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1437442 | 21;45 |
| cg2393984 | 0.255781 | 0.469867 | 9.459359 | 1.79E-05 | 0.001053 | 3.535887 | 0.341977 | 0.597758 | -0.25578 | 6 | 3585854 | R | II | | IGR | opensea | IGR-opense | | rs7372105 | 13;12 |
| cg2660857 | 0.203219 | 0.518075 | 9.459331 | 1.79E-05 | 0.001053 | 3.535865 | 0.416465 | 0.619684 | -0.20322 | 1 | 2.06E+08 | F | II | SLC26A9 | Body | opensea | Body-opens | | rs1467772 | 27;43;45 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0151816 | 0.23272 | 0.647749 | 9.4591 | 1.79E-05 | 0.001053 | 3.535686 | 0.531389 | 0.764109 | -0.23272 | 6 | 92828798 | F | II | | IGR | opensea | IGR-opense | | rs1174980 | 1;3;44 |
| cg1221499 | 0.206656 | 0.606989 | 9.458588 | 1.79E-05 | 0.001053 | 3.53529 | 0.50366 | 0.710317 | -0.20666 | 10 | 49764906 | R | II | ARHGAP22 | Body | opensea | Body-opens | | | |
| cg2454543 | 0.21652 | 0.610226 | 9.458402 | 1.79E-05 | 0.001053 | 3.535146 | 0.501966 | 0.718486 | -0.21652 | 2 | 2.07E+08 | R | II | ADAM23 | Body | opensea | Body-opens | | rs5765901 | 33;27 |
| cg0397805 | 0.215692 | 0.693094 | 9.456842 | 1.79E-05 | 0.001053 | 3.533938 | 0.585248 | 0.800941 | -0.21569 | 2 | 26740200 | F | II | OTOF | Body | opensea | Body-opens | | | |
| cg0193448 | 0.217764 | 0.556476 | 9.452999 | 1.79E-05 | 0.001055 | 3.530961 | 0.447594 | 0.665358 | -0.21776 | 8 | 1.41E+08 | R | II | TRAPPC9 | Body | opensea | Body-opens | | rs7666046 | 12 |
| cg2522615 | 0.218673 | 0.466458 | 9.452441 | 1.79E-05 | 0.001056 | 3.530529 | 0.357122 | 0.575795 | -0.21867 | 10 | 89554130 | R | II | ATAD1 | Body | opensea | Body-opens | | | |
| cg0178974 | 0.217181 | 0.588683 | 9.452375 | 1.79E-05 | 0.001056 | 3.530478 | 0.480093 | 0.697274 | -0.21718 | 1 | 2.36E+08 | F | II | NID1 | Body | shelf | Body-shelf | chr1:23615 | rs3512212 | 5;31 |
| cg1335025 | 0.24582 | 0.583829 | 9.45181 | 1.8E-05 | 0.001056 | 3.530041 | 0.460919 | 0.706739 | -0.24582 | 15 | 42344200 | F | II | PLA2G4E | TSS1500 | opensea | TSS1500-op | | rs5443423 | 0;17 |
| cg2435067 | 0.217577 | 0.4841 | 9.45113 | 1.8E-05 | 0.001056 | 3.529513 | 0.375312 | 0.592889 | -0.21758 | 7 | 83878136 | F | II | | IGR | opensea | IGR-opense | | rs5476220 | 26;43 |
| cg1722122 | 0.244294 | 0.451466 | 9.449419 | 1.8E-05 | 0.001056 | 3.528188 | 0.329319 | 0.573613 | -0.24429 | 11 | 64414192 | F | II | NRXN2 | Body | shelf | Body-shelf | chr11:644( | rs1813472 | 0;10;15 |
| cg0999221 | 0.244371 | 0.443633 | 9.448873 | 1.8E-05 | 0.001057 | 3.527764 | 0.321447 | 0.565818 | -0.24437 | 11 | 32353565 | R | II | | IGR | shore | IGR-shore | chr11:323 | | |
| cg0581590 | 0.208188 | 0.449012 | 9.448091 | 1.8E-05 | 0.001057 | 3.527158 | 0.344918 | 0.553106 | -0.20819 | 9 | 18472812 | F | II | ADAMTSL1 | TSS1500 | opensea | TSS1500-op | | rs5661056 | 31;34;36 |
| cg1283376 | 0.215552 | 0.427266 | 9.446916 | 1.8E-05 | 0.001057 | 3.526247 | 0.31949 | 0.535042 | -0.21555 | 2 | 69470878 | F | II | ANTXR1 | Body | opensea | Body-opens | | rs1436090 | 1;18;46 |
| cg0662591 | 0.302976 | 0.517093 | 9.445908 | 1.8E-05 | 0.001058 | 3.525466 | 0.365605 | 0.668581 | -0.30298 | 4 | 1.2E+08 | F | II | SEC24D | Body | opensea | Body-opens | | | |
| cg0518983 | 0.20187 | 0.657591 | 9.445322 | 1.8E-05 | 0.001058 | 3.525012 | 0.556656 | 0.758527 | -0.20187 | 1 | 2.2E+08 | F | II | RNU5F-1 | Body | opensea | Body-opens | | rs5674268 | 1 |
| cg2337668 | 0.240866 | 0.589659 | 9.444995 | 1.8E-05 | 0.001058 | 3.524758 | 0.469227 | 0.710092 | -0.24087 | 6 | 3324763 | F | II | SLC22A23 | Body | opensea | Body-opens | | rs5282426 | 0;7;38 |
| cg0357743 | 0.207009 | 0.596301 | 9.443642 | 1.81E-05 | 0.001059 | 3.523709 | 0.492797 | 0.699805 | -0.20701 | 2 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2631452 | 0.244331 | 0.472568 | 9.443493 | 1.81E-05 | 0.001059 | 3.523594 | 0.350402 | 0.594733 | -0.24433 | 5 | 1.63E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1670340 | 0.210859 | 0.672458 | 9.443315 | 1.81E-05 | 0.001059 | 3.523455 | 0.567028 | 0.777887 | -0.21086 | 15 | 64540345 | R | II | CSNK1G1 | Body | opensea | Body-opens | | rs1389649 | 6;2 |
| cg2476296 | 0.202786 | 0.656335 | 9.442595 | 1.81E-05 | 0.001059 | 3.522897 | 0.554942 | 0.757728 | -0.20279 | 5 | 60937901 | R | II | FLJ37543 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1562530 | 0.204273 | 0.621209 | 9.442579 | 1.81E-05 | 0.001059 | 3.522885 | 0.519073 | 0.723346 | -0.20427 | 5 | 1.43E+08 | R | II | | IGR | opensea | IGR-opense | | rs5446488 | 14;1 |
| cg2062715 | 0.20661 | 0.436303 | 9.44085 | 1.81E-05 | 0.00106 | 3.521543 | 0.332998 | 0.539608 | -0.20661 | 8 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1050514 | 25;1 |
| cg1965882 | 0.241857 | 0.594539 | 9.440667 | 1.81E-05 | 0.001061 | 3.521401 | 0.47361 | 0.715467 | -0.24186 | 3 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0557979 | 0.206568 | 0.459107 | 9.438312 | 1.81E-05 | 0.001062 | 3.519574 | 0.355823 | 0.562391 | -0.20657 | 10 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs5277668 | 50;27 |
| cg1866446 | 0.211558 | 0.453814 | 9.437176 | 1.82E-05 | 0.001062 | 3.518693 | 0.348035 | 0.559593 | -0.21156 | 8 | 58163581 | R | II | | IGR | opensea | IGR-opense | | rs5628264 | 15;1 |
| cg2206927 | 0.213694 | 0.505478 | 9.437068 | 1.82E-05 | 0.001062 | 3.518609 | 0.398631 | 0.612325 | -0.21369 | 13 | 67205408 | R | II | PCDH9 | Body | opensea | Body-opens | | rs1458948 | 24 |
| cg0853044 | 0.23362 | 0.520746 | 9.437058 | 1.82E-05 | 0.001062 | 3.518601 | 0.403936 | 0.637556 | -0.23362 | 1 | 55944299 | R | II | | IGR | opensea | IGR-opense | | rs5666229 | 27;1 |
| cg1498181 | 0.234207 | 0.583385 | 9.436347 | 1.82E-05 | 0.001063 | 3.51805 | 0.466282 | 0.700489 | -0.23421 | 7 | 96597711 | F | II | | IGR | opensea | IGR-opense | | rs5549519 | 22 |
| cg0791683 | 0.203285 | 0.434556 | 9.435432 | 1.82E-05 | 0.001063 | 3.51734 | 0.332913 | 0.536199 | -0.20329 | 5 | 89517850 | R | II | LINC01339 | Body | opensea | Body-opens | | rs1005973 | 19;17;10;7 |
| cg1048805 | 0.225032 | 0.682125 | 9.434138 | 1.82E-05 | 0.001064 | 3.516335 | 0.569609 | 0.794641 | -0.22503 | 7 | 1.33E+08 | F | II | CHCHD3 | Body | opensea | Body-opens | | | |
| cg0192854 | 0.20085 | 0.504601 | 9.433621 | 1.82E-05 | 0.001064 | 3.515934 | 0.404176 | 0.605026 | -0.20085 | 4 | 48972614 | R | II | | IGR | opensea | IGR-opense | | rs5642916 | 25;1 |
| cg2116803 | 0.201787 | 0.597703 | 9.433128 | 1.82E-05 | 0.001064 | 3.515551 | 0.49681 | 0.698597 | -0.20179 | 13 | 74703602 | R | II | KLF12 | 5'UTR | opensea | 5'UTR-open | | rs5390619 | 32 |
| cg0843448 | 0.208648 | 0.670827 | 9.432818 | 1.82E-05 | 0.001064 | 3.51531 | 0.566502 | 0.775151 | -0.20865 | 14 | 34771014 | F | II | | IGR | opensea | IGR-opense | | rs1481305 | 0;1;11;23 |
| cg2568743 | 0.213636 | 0.569371 | 9.432804 | 1.82E-05 | 0.001064 | 3.515299 | 0.462553 | 0.676189 | -0.21364 | 18 | 72006048 | F | II | C18orf63 | ExonBnd | opensea | ExonBnd-op | | rs1155169 | 17 |
| cg2487546 | 0.210283 | 0.62707 | 9.42992 | 1.83E-05 | 0.001065 | 3.51306 | 0.521928 | 0.732212 | -0.21028 | 10 | 34864942 | F | II | PARD3 | Body | opensea | Body-opens | | rs5671771 | 6;42 |
| cg0936726 | 0.245611 | 0.583584 | 9.429806 | 1.83E-05 | 0.001065 | 3.512972 | 0.460778 | 0.706389 | -0.24561 | 6 | 6643814 | F | II | LY86 | Body | opensea | Body-opens | | rs1903988 | 41 |
| cg0486617 | 0.201732 | 0.46598 | 9.429763 | 1.83E-05 | 0.001065 | 3.512938 | 0.365114 | 0.566846 | -0.20173 | 2 | 1.06E+08 | F | II | FHL2 | Body | opensea | Body-opens | | rs1838274 | 17;42;46 |
| cg2700415 | 0.209064 | 0.600834 | 9.427962 | 1.83E-05 | 0.001066 | 3.51154 | 0.496301 | 0.705366 | -0.20906 | 8 | 82261965 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2159389 | 0.222707 | 0.496482 | 9.426707 | 1.83E-05 | 0.001066 | 3.510565 | 0.385129 | 0.607835 | -0.22271 | 12 | 1.09E+08 | R | II | CORO1C | Body | opensea | Body-opens | | rs1914517 | 1 |
| cg0747313 | 0.227213 | 0.620295 | 9.426106 | 1.83E-05 | 0.001066 | 3.510098 | 0.506688 | 0.733901 | -0.22721 | 10 | 1.22E+08 | F | II | | IGR | shelf | IGR-shelf | chr10:122 | | |
| cg1000358 | 0.230331 | 0.543095 | 9.424973 | 1.83E-05 | 0.001067 | 3.509217 | 0.427929 | 0.65826 | -0.23033 | 6 | 56755793 | R | II | DST | Body | opensea | Body-opens | | rs5579069 | 48;41;32;22 |
| cg0042833 | 0.200598 | 0.554885 | 9.42194 | 1.84E-05 | 0.001067 | 3.50686 | 0.454585 | 0.655184 | -0.2006 | 5 | 59553800 | F | II | PDE4D | 5'UTR | opensea | 5'UTR-open | | | |
| cg0005069 | 0.219513 | 0.468922 | 9.421734 | 1.84E-05 | 0.001067 | 3.5067 | 0.359165 | 0.578678 | -0.21951 | 2 | 25524877 | R | II | DNMT3A | Body | opensea | Body-opens | | rs1813232 | 33 |
| cg0740829 | 0.239629 | 0.636028 | 9.420175 | 1.84E-05 | 0.001068 | 3.505489 | 0.516213 | 0.755843 | -0.23963 | 17 | 67038755 | F | II | ABCA9 | Body | opensea | Body-opens | | rs5772285 | 24;28 |
| cg0984015 | 0.216528 | 0.616416 | 9.418139 | 1.84E-05 | 0.001069 | 3.503906 | 0.508152 | 0.72468 | -0.21653 | 11 | 10716592 | F | II | MRVI1 | TSS1500 | opensea | TSS1500-op | | rs5506164 | 0 |
| cg0096624 | 0.222281 | 0.438193 | 9.418139 | 1.84E-05 | 0.001069 | 3.503906 | 0.327053 | 0.549334 | -0.22228 | 19 | 11819352 | R | II | | IGR | opensea | IGR-opense | | rs5316481 | 36;17;8 |
| cg1203661 | 0.278659 | 0.480439 | 9.417307 | 1.84E-05 | 0.001069 | 3.503258 | 0.341109 | 0.619768 | -0.27866 | 4 | 80929171 | R | II | ANTXR2 | Body | opensea | Body-opens | | rs5659504 | 28;2;1 |
| cg0874102 | 0.219829 | 0.490778 | 9.416767 | 1.84E-05 | 0.001069 | 3.502839 | 0.380863 | 0.600692 | -0.21983 | 11 | 76455305 | F | II | | IGR | opensea | IGR-opense | | rs1807350 | 19;20;27 |
| cg1534855 | 0.254013 | 0.503734 | 9.415528 | 1.85E-05 | 0.001069 | 3.501875 | 0.376728 | 0.63074 | -0.25401 | 10 | 12163898 | R | II | DHTKD1 | 3'UTR | opensea | 3'UTR-open | | rs1150130 | 35;23 |
| cg2166535 | 0.245226 | 0.567825 | 9.414976 | 1.85E-05 | 0.00107 | 3.501446 | 0.445212 | 0.690437 | -0.24523 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0963330 | 0.213136 | 0.589528 | 9.410818 | 1.85E-05 | 0.001072 | 3.498211 | 0.48296 | 0.696096 | -0.21314 | 2 | 65678133 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2688618 | 0.207055 | 0.619515 | 9.409677 | 1.85E-05 | 0.001072 | 3.497323 | 0.515987 | 0.723042 | -0.20706 | 6 | 4251695 | F | II | | IGR | shelf | IGR-shelf | chr6:42548 | rs3683205 | 0;1;17;30;39;40;46 |
| cg0271466 | 0.205313 | 0.608372 | 9.409665 | 1.85E-05 | 0.001072 | 3.497314 | 0.505716 | 0.711029 | -0.20531 | 3 | 16131767 | R | II | | IGR | opensea | IGR-opense | | rs1837935 | 45 |
| cg0033459 | 0.208753 | 0.614914 | 9.409506 | 1.85E-05 | 0.001072 | 3.49719 | 0.510538 | 0.71929 | -0.20875 | 13 | 31641914 | F | II | | IGR | opensea | IGR-opense | | rs5612970 | 0;20 |
| cg2595419 | 0.220401 | 0.634124 | 9.409383 | 1.85E-05 | 0.001072 | 3.497094 | 0.523923 | 0.744324 | -0.2204 | 5 | 1.32E+08 | R | II | IL5 | TSS200 | opensea | TSS200-ope | | rs1906949 | 43;1 |
| cg1110815 | 0.221008 | 0.583589 | 9.408507 | 1.85E-05 | 0.001072 | 3.496412 | 0.473085 | 0.694093 | -0.22101 | 13 | 86373073 | R | II | SLITRK6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1258523 | 0.212042 | 0.590142 | 9.40732 | 1.86E-05 | 0.001073 | 3.495489 | 0.484121 | 0.696164 | -0.21204 | 10 | 44918789 | F | II | | IGR | opensea | IGR-opense | | rs5372645 | 1 |
| cg0203851 | 0.204333 | 0.575858 | 9.405797 | 1.86E-05 | 0.001073 | 3.494303 | 0.473692 | 0.678025 | -0.20433 | 2 | 1.82E+08 | F | II | SCHLAP1 | Body | opensea | Body-opens | | rs1906597 | 1;2;49 |
| cg0357137 | 0.225376 | 0.423483 | 9.405364 | 1.86E-05 | 0.001073 | 3.493966 | 0.310795 | 0.536171 | -0.22538 | 22 | 22935973 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0105970 | 0.208854 | 0.693646 | 9.4041 | 1.86E-05 | 0.001073 | 3.492982 | 0.589219 | 0.798074 | -0.20885 | 5 | 34914428 | R | II | RAD1 | Body | shore | Body-shore | chr5:34915 | rs2069470 | 26 |
| cg1546355 | 0.244299 | 0.4736 | 9.402061 | 1.86E-05 | 0.001074 | 3.491394 | 0.35145 | 0.595749 | -0.2443 | 13 | 21904723 | F | II | LINC00539 | ExonBnd | opensea | ExonBnd-op | | rs5703387 | 0;29;41;42 |
| cg0683222 | 0.224308 | 0.634222 | 9.401423 | 1.86E-05 | 0.001075 | 3.490897 | 0.522068 | 0.746376 | -0.22431 | 6 | 14192840 | F | II | | IGR | opensea | IGR-opense | | rs5569941 | 47 |
| cg0964430 | 0.20367 | 0.647061 | 9.4013 | 1.86E-05 | 0.001075 | 3.490801 | 0.545226 | 0.748896 | -0.20367 | 13 | 72022552 | F | II | DACH1 | Body | opensea | Body-opens | | rs5722599 | 6 |
| cg1415368 | 0.217627 | 0.468266 | 9.400567 | 1.87E-05 | 0.001075 | 3.49023 | 0.359453 | 0.57708 | -0.21763 | 4 | 10732403 | R | II | | IGR | opensea | IGR-opense | | rs1897782 | 47;1 |
| cg0251033 | 0.214621 | 0.463639 | 9.400021 | 1.87E-05 | 0.001075 | 3.489805 | 0.356329 | 0.57095 | -0.21462 | 6 | 1186717 | F | II | | IGR | opensea | IGR-opense | | rs1154428 | 35;40;51 |
| cg1395975 | 0.238775 | 0.639419 | 9.399284 | 1.87E-05 | 0.001075 | 3.48923 | 0.520032 | 0.758807 | -0.23877 | 2 | 2.07E+08 | F | II | ADAM23 | Body | opensea | Body-opens | | rs1112685 | 31 |
| cg1954657 | 0.23097 | 0.540918 | 9.399217 | 1.87E-05 | 0.001075 | 3.489179 | 0.425433 | 0.656403 | -0.23097 | 6 | 1.01E+08 | R | II | | IGR | shore | IGR-shore | chr6:10067 | rs1415675 | 25 |
| cg0528680 | 0.250573 | 0.418622 | 9.398885 | 1.87E-05 | 0.001075 | 3.48892 | 0.293336 | 0.543908 | -0.25057 | 4 | 78274985 | R | II | | IGR | opensea | IGR-opense | | rs7285981 | 12;2;1 |
| cg0624433 | 0.222673 | 0.577733 | 9.397783 | 1.87E-05 | 0.001076 | 3.488062 | 0.466396 | 0.689069 | -0.22267 | 6 | 29555026 | R | II | OR2H2 | TSS1500 | opensea | TSS1500-op | | rs5777860 | 10 |
| cg2178131 | 0.206968 | 0.586508 | 9.397542 | 1.87E-05 | 0.001076 | 3.487873 | 0.483024 | 0.689992 | -0.20697 | 17 | 61020813 | F | II | MIR633 | TSS1500 | opensea | TSS1500-op | | rs5419856 | 29;35 |
| cg0156178 | 0.245869 | 0.670553 | 9.395176 | 1.87E-05 | 0.001077 | 3.48603 | 0.547619 | 0.793487 | -0.24587 | 9 | 1.01E+08 | F | II | GABBR2 | Body | opensea | Body-opens | | | |
| cg0079154 | 0.206661 | 0.606257 | 9.395142 | 1.87E-05 | 0.001077 | 3.486003 | 0.502927 | 0.709588 | -0.20666 | 2 | 30966534 | R | II | CAPN13 | Body | opensea | Body-opens | | rs1420063 | 32;31;8;2 |
| cg0257500 | 0.22146 | 0.538628 | 9.394677 | 1.87E-05 | 0.001077 | 3.485641 | 0.427899 | 0.649358 | -0.22146 | 2 | 46897669 | R | II | | IGR | opensea | IGR-opense | | rs1448545 | 1 |
| cg0967648 | 0.212502 | 0.601672 | 9.394615 | 1.87E-05 | 0.001077 | 3.485593 | 0.495421 | 0.707923 | -0.2125 | 17 | 49232155 | R | II | NME1 | 5'UTR | shore | 5'UTR-shor | chr17:492 | rs5778731 | 48;42;20;2 |
| cg1996939 | 0.216475 | 0.431972 | 9.393783 | 1.88E-05 | 0.001077 | 3.484944 | 0.323734 | 0.54021 | -0.21648 | 18 | 24167674 | F | II | KCTD1 | Body | opensea | Body-opens | | rs5292305 | 28 |
| cg2260817 | 0.206661 | 0.583634 | 9.393256 | 1.88E-05 | 0.001077 | 3.484533 | 0.480304 | 0.686964 | -0.20666 | 19 | 39290548 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1069826 | 0.200165 | 0.649422 | 9.392004 | 1.88E-05 | 0.001078 | 3.483557 | 0.54934 | 0.749504 | -0.20016 | 5 | 1.58E+08 | F | II | EBF1 | Body | opensea | Body-opens | | rs1164709 | 9;28 |
| cg0386613 | 0.22385 | 0.363205 | 9.390603 | 1.88E-05 | 0.001078 | 3.482464 | 0.251281 | 0.47513 | -0.22385 | 5 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs1124217 | 10;15 |
| cg0522162 | 0.216867 | 0.582364 | 9.389681 | 1.88E-05 | 0.001079 | 3.481746 | 0.47393 | 0.690797 | -0.21687 | 5 | 55593516 | F | II | | IGR | opensea | IGR-opense | | rs5656334 | 35 |
| cg1725160 | 0.207875 | 0.556572 | 9.389199 | 1.88E-05 | 0.001079 | 3.48137 | 0.452635 | 0.66051 | -0.20787 | 3 | 65489574 | R | II | MAGI1 | Body | opensea | Body-opens | | rs5378932 | 42;12 |
| cg1549470 | 0.2135 | 0.501399 | 9.38753 | 1.88E-05 | 0.00108 | 3.480068 | 0.394649 | 0.608149 | -0.2135 | 15 | 45268816 | R | II | C15orf43 | Body | opensea | Body-opens | | | |
| cg1384513 | 0.222771 | 0.546406 | 9.384062 | 1.89E-05 | 0.001081 | 3.477362 | 0.43502 | 0.657791 | -0.22277 | 1 | 1.65E+08 | R | II | PBX1 | Body | shore | Body-shore | chr1:1645 | | |
| cg1680729 | 0.255723 | 0.495932 | 9.38243 | 1.89E-05 | 0.001082 | 3.476089 | 0.36807 | 0.623793 | -0.25572 | 16 | 14375926 | F | II | | IGR | shelf | IGR-shelf | chr16:143 | rs1850731 | 0;3 |
| cg1968397 | 0.209205 | 0.53147 | 9.381711 | 1.89E-05 | 0.001082 | 3.475528 | 0.426868 | 0.636073 | -0.2092 | 2 | 57725263 | R | II | | IGR | opensea | IGR-opense | | rs5293954 | 23;2 |
| cg2669568 | 0.222295 | 0.625558 | 9.380916 | 1.89E-05 | 0.001082 | 3.474907 | 0.51441 | 0.736705 | -0.2223 | 17 | 64269194 | F | II | | IGR | opensea | IGR-opense | | rs5301052 | 25;50 |
| cg1892925 | 0.239099 | 0.488334 | 9.380191 | 1.89E-05 | 0.001082 | 3.474341 | 0.368785 | 0.607884 | -0.2391 | 7 | 1.08E+08 | R | II | LAMB4 | Body | opensea | Body-opens | | rs5446010 | 34;26;2;1 |
| cg1943907 | 0.202839 | 0.503406 | 9.37952 | 1.9E-05 | 0.001082 | 3.473817 | 0.401987 | 0.604826 | -0.20284 | 17 | 74557625 | F | II | SNORD1A | TSS200 | shelf | TSS200-she | chr17:745 | rs1871478 | 1;5 |
| cg0608288 | 0.21449 | 0.533424 | 9.379446 | 1.9E-05 | 0.001082 | 3.473759 | 0.426179 | 0.640669 | -0.21449 | 16 | 89686744 | R | II | DPEP1 | 5'UTR | opensea | 5'UTR-open | | rs7488343 | 28;2 |
| cg0122137 | 0.26347 | 0.455543 | 9.378041 | 1.9E-05 | 0.001083 | 3.472662 | 0.323808 | 0.587278 | -0.26347 | 17 | 1263732 | F | II | YWHAE | Body | opensea | Body-opens | | rs7863643 | 27 |
| cg2181490 | 0.219827 | 0.525483 | 9.37603 | 1.9E-05 | 0.001084 | 3.471092 | 0.41557 | 0.635397 | -0.21983 | 10 | 13812297 | F | II | FRMD4A | Body | opensea | Body-opens | | rs1886019 | 0;26;27;44 |
| cg1255718 | 0.225796 | 0.657851 | 9.374497 | 1.9E-05 | 0.001085 | 3.469894 | 0.544952 | 0.770749 | -0.2258 | 2 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | rs5658390 | 0 |
| cg1916317 | 0.223988 | 0.363687 | 9.372945 | 1.91E-05 | 0.001085 | 3.468682 | 0.251693 | 0.475681 | -0.22399 | 8 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs5693639 | 0;47 |
| cg1340841 | 0.258172 | 0.59922 | 9.37279 | 1.91E-05 | 0.001085 | 3.468561 | 0.470134 | 0.728306 | -0.25817 | 1 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2472374 | 0.244884 | 0.541353 | 9.371798 | 1.91E-05 | 0.001086 | 3.467786 | 0.418911 | 0.663794 | -0.24488 | 9 | 1.01E+08 | F | II | TRIM14 | Body | opensea | Body-opens | | | |
| cg0728549 | 0.262968 | 0.518765 | 9.371791 | 1.91E-05 | 0.001086 | 3.467781 | 0.387281 | 0.650249 | -0.26297 | 1 | 32071681 | F | II | | IGR | opensea | IGR-opense | | rs5399555 | 24;49 |
| cg2097140 | 0.225719 | 0.542173 | 9.371698 | 1.91E-05 | 0.001086 | 3.467708 | 0.429313 | 0.655032 | -0.22572 | 3 | 5022392 | R | II | BHLHE40 | Body | shore | Body-shore | chr3:5019 | | |
| cg1197613 | 0.218398 | 0.564612 | 9.371272 | 1.91E-05 | 0.001086 | 3.467375 | 0.455413 | 0.673811 | -0.2184 | 15 | 63113869 | R | II | TLN2 | Body | opensea | Body-opens | | rs1149510 | 2 |
| cg0632549 | 0.235066 | 0.685673 | 9.370963 | 1.91E-05 | 0.001086 | 3.467134 | 0.56814 | 0.803206 | -0.23507 | 8 | 10767745 | R | II | XKR6 | Body | opensea | Body-opens | | rs1410685 | 1 |
| cg0228710 | 0.219586 | 0.573434 | 9.37031 | 1.91E-05 | 0.001086 | 3.466624 | 0.463641 | 0.683227 | -0.21959 | 6 | 32115284 | R | I | | IGR | shore | IGR-shore | chr6:3211( | rs1380605 | 47;17;13;2 |
| cg1963737 | 0.245954 | 0.505474 | 9.370116 | 1.91E-05 | 0.001086 | 3.466472 | 0.382497 | 0.628451 | -0.24595 | 17 | 57907234 | F | II | VMP1 | Body | opensea | Body-opens | | rs1143354 | 0;1 |
| cg0227554 | 0.248008 | 0.60594 | 9.369101 | 1.91E-05 | 0.001086 | 3.465678 | 0.481936 | 0.729944 | -0.24801 | 8 | 19040543 | R | II | | IGR | opensea | IGR-opense | | rs5608581 | 1 |
| cg2266935 | 0.212949 | 0.631507 | 9.368187 | 1.91E-05 | 0.001086 | 3.464965 | 0.525033 | 0.737982 | -0.21295 | 5 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs1386673 | 5 |
| cg0476630 | 0.223965 | 0.643275 | 9.367299 | 1.91E-05 | 0.001087 | 3.464271 | 0.531292 | 0.755257 | -0.22396 | 6 | 18047219 | R | II | | IGR | opensea | IGR-opense | | rs3748844 | 27;26;1 |
| cg0179274 | 0.22226 | 0.475185 | 9.365742 | 1.92E-05 | 0.001087 | 3.463053 | 0.364055 | 0.586315 | -0.22226 | 3 | 38835179 | R | II | SCN10A | Body | opensea | Body-opens | | rs5436902 | 29;9;8 |
| cg0207907 | 0.269017 | 0.474324 | 9.364868 | 1.92E-05 | 0.001088 | 3.462369 | 0.339816 | 0.608833 | -0.26902 | 1 | 2.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs5520171 | 9;8 |
| cg2714917 | 0.221272 | 0.635236 | 9.364487 | 1.92E-05 | 0.001088 | 3.462072 | 0.5246 | 0.745872 | -0.22127 | 11 | 86451848 | F | II | | IGR | opensea | IGR-opense | | rs5414569 | 38;48 |
| cg1155448 | 0.214345 | 0.614357 | 9.363709 | 1.92E-05 | 0.001088 | 3.461464 | 0.507185 | 0.72153 | -0.21434 | 1 | 1.88E+08 | F | II | | IGR | opensea | IGR-opense | | rs5536702 | 25;29 |
| cg1736534 | 0.207071 | 0.659218 | 9.361071 | 1.92E-05 | 0.00109 | 3.459401 | 0.555682 | 0.762754 | -0.20707 | 4 | 1.07E+08 | F | II | ARHGEF38 | 3'UTR | opensea | 3'UTR-open | | rs7709654 | 38 |
| cg0235075 | 0.23323 | 0.584038 | 9.360654 | 1.92E-05 | 0.00109 | 3.459075 | 0.467423 | 0.700653 | -0.23323 | 4 | 55898322 | R | II | | IGR | opensea | IGR-opense | | rs1382338 | 37;1 |
| cg0959553 | 0.208444 | 0.550513 | 9.35924 | 1.93E-05 | 0.00109 | 3.457968 | 0.446292 | 0.654735 | -0.20844 | 18 | 66597897 | F | II | CCDC102B | Body | opensea | Body-opens | | | |
| cg0429259 | 0.247709 | 0.374788 | 9.357272 | 1.93E-05 | 0.001091 | 3.456428 | 0.250933 | 0.498642 | -0.24771 | 9 | 1.13E+08 | F | II | PALM2 | Body | opensea | Body-opens | | rs5661767 | 0;28 |
| cg0287964 | 0.266059 | 0.616182 | 9.356934 | 1.93E-05 | 0.001091 | 3.456163 | 0.483152 | 0.749211 | -0.26606 | 2 | 2.34E+08 | F | II | KCNJ13 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2137475 | 0.207468 | 0.57973 | 9.356547 | 1.93E-05 | 0.001091 | 3.455861 | 0.475996 | 0.683464 | -0.20747 | 3 | 42452862 | F | II | LYZL4 | TSS1500 | opensea | TSS1500-op | | rs5660270 | 37 |
| cg1264048 | 0.204289 | 0.556148 | 9.356502 | 1.93E-05 | 0.001091 | 3.455826 | 0.454004 | 0.658293 | -0.20429 | 1 | 28905573 | F | II | SNHG12 | Body | shelf | Body-shelf | chr1:2890( | rs1829755 | 0;18 |
| cg0764149 | 0.234674 | 0.565943 | 9.355828 | 1.93E-05 | 0.001091 | 3.455299 | 0.448606 | 0.68328 | -0.23467 | 22 | 33195343 | F | II | SYN3 | Body | shelf | Body-shelf | chr22:331( | rs1395135 | 0 |
| cg2169950 | 0.205058 | 0.533472 | 9.355408 | 1.93E-05 | 0.001091 | 3.45497 | 0.430943 | 0.636001 | -0.20506 | 4 | 80786707 | F | II | | IGR | opensea | IGR-opense | | rs1389780 | 0;1 |
| cg2189686 | 0.228811 | 0.462679 | 9.355343 | 1.93E-05 | 0.001091 | 3.454919 | 0.348274 | 0.577085 | -0.22881 | 1 | 32625023 | R | II | KPNA6 | Body | opensea | Body-opens | | | |
| cg2144174 | 0.214724 | 0.581831 | 9.354069 | 1.93E-05 | 0.001092 | 3.453921 | 0.474469 | 0.689193 | -0.21472 | 5 | 1.22E+08 | R | I | LOC10050 | Body | opensea | Body-opens | | rs7329152 | 48;30;16;2 |
| cg1735143 | 0.202413 | 0.577684 | 9.35399 | 1.93E-05 | 0.001092 | 3.45386 | 0.476478 | 0.67889 | -0.20241 | 13 | 93888067 | R | II | GPC6 | Body | opensea | Body-opens | | rs1436027 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1140446 | 0.264518 | 0.432603 | 9.353462 | 1.93E-05 | 0.001092 | 3.453446 | 0.300344 | 0.564862 | -0.26452 | 2 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2526116 | 0.203509 | 0.731296 | 9.353431 | 1.93E-05 | 0.001092 | 3.453422 | 0.629542 | 0.833051 | -0.20351 | 11 | 47123246 | R | II | C11orf49 | Body | opensea | Body-open | rs5575349 | 1 | | | | |
| cg0191877 | 0.235079 | 0.536748 | 9.353241 | 1.93E-05 | 0.001092 | 3.453273 | 0.419209 | 0.654287 | -0.23508 | 15 | 40144688 | R | II | GPR176 | Body | opensea | Body-open | rs7668831 | 21;16 | | | | |
| cg0818939 | 0.201592 | 0.526253 | 9.351962 | 1.94E-05 | 0.001092 | 3.452272 | 0.425457 | 0.627049 | -0.20159 | 10 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5419473 | 0;10;24 | | | | |
| cg1406875 | 0.213068 | 0.571992 | 9.351735 | 1.94E-05 | 0.001092 | 3.452095 | 0.465458 | 0.678526 | -0.21307 | 5 | 59019044 | F | II | PDE4D | Body | opensea | Body-open | rs5730788 | 47 | | | | |
| cg0348331 | 0.202473 | 0.590313 | 9.351599 | 1.94E-05 | 0.001092 | 3.451988 | 0.489077 | 0.69155 | -0.20247 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | rs1467471 | 21;2 | | | | |
| cg0951117 | 0.218905 | 0.607824 | 9.351324 | 1.94E-05 | 0.001093 | 3.451772 | 0.498371 | 0.717276 | -0.21891 | 1 | 2.48E+08 | R | II | C1orf150 | 3'UTR | opensea | 3'UTR-open | rs1999612 | 32;9;2 | | | | |
| cg0547735 | 0.233088 | 0.471118 | 9.349796 | 1.94E-05 | 0.001093 | 3.450576 | 0.354574 | 0.587662 | -0.23309 | 3 | 1.32E+08 | R | II | CPNE4 | Body | opensea | Body-open | | | | | | |
| cg1070765 | 0.238905 | 0.50664 | 9.34932 | 1.94E-05 | 0.001093 | 3.450203 | 0.387188 | 0.626092 | -0.2389 | 3 | 1.84E+08 | F | II | LOC10192 | TSS200 | opensea | TSS200-ope | rs5774671 | 26 | | | | |
| cg1983671 | 0.211977 | 0.52727 | 9.348736 | 1.94E-05 | 0.001093 | 3.449746 | 0.421281 | 0.633259 | -0.21198 | 11 | 17464823 | R | II | ABCC8 | Body | opensea | Body-open | rs2021837 | 18;17 | | | | |
| cg1975239 | 0.24589 | 0.513851 | 9.347415 | 1.94E-05 | 0.001094 | 3.448711 | 0.390906 | 0.636796 | -0.24589 | 2 | 1.09E+08 | R | II | LIMS1 | 5'UTR | opensea | 5'UTR-open | rs7867094 | 32;14;2 | | | | |
| cg0264397 | 0.241908 | 0.612984 | 9.346602 | 1.94E-05 | 0.001094 | 3.448075 | 0.49203 | 0.733938 | -0.24191 | 17 | 68071130 | R | II | KCNJ16 | TSS1500 | opensea | TSS1500-op | rs1145580 | 48;41;24;22;19;18 | | | | |
| cg0558807 | 0.220834 | 0.438128 | 9.345458 | 1.95E-05 | 0.001095 | 3.447178 | 0.327711 | 0.548544 | -0.22083 | 20 | 17486490 | F | II | BFSP1 | Body | opensea | Body-open | rs5340175 | 10;41 | | | | |
| cg2436060 | 0.205475 | 0.668403 | 9.344968 | 1.95E-05 | 0.001095 | 3.446794 | 0.565666 | 0.771141 | -0.20548 | 17 | 8837741 | R | II | PIK3R5 | 5'UTR | opensea | 5'UTR-open | rs1478987 | 48;43 | | | | |
| cg0365104 | 0.253261 | 0.570554 | 9.344275 | 1.95E-05 | 0.001095 | 3.446251 | 0.443923 | 0.697185 | -0.25326 | 14 | 55542565 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2761332 | 0.212163 | 0.569583 | 9.343432 | 1.95E-05 | 0.001096 | 3.445591 | 0.463501 | 0.675664 | -0.21216 | 13 | 42943425 | R | II | | IGR | opensea | IGR-opense | rs3690180 | 49;38;20;14;2 | | | | |
| cg0111307 | 0.242574 | 0.57566 | 9.342287 | 1.95E-05 | 0.001096 | 3.444694 | 0.454373 | 0.696947 | -0.24257 | 6 | 1.56E+08 | F | II | | IGR | opensea | IGR-opense | rs5275182 | 31;44 | | | | |
| cg1639160 | 0.200121 | 0.685721 | 9.341758 | 1.95E-05 | 0.001096 | 3.444278 | 0.585661 | 0.785782 | -0.20012 | 1 | 1.56E+08 | R | II | SEMA4A | Body | opensea | Body-open | rs5409797 | 50 | | | | |
| cg2224368 | 0.214902 | 0.637167 | 9.34062 | 1.95E-05 | 0.001097 | 3.443387 | 0.529716 | 0.744617 | -0.2149 | 17 | 41052543 | R | II | G6PC | TSS1500 | opensea | TSS1500-op | rs1396895 | 51;41;4 | | | | |
| cg1985456 | 0.227363 | 0.677881 | 9.340311 | 1.95E-05 | 0.001097 | 3.443145 | 0.5642 | 0.791563 | -0.22736 | 12 | 66989336 | F | II | GRIP1 | Body | opensea | Body-open | rs5668670 | 32;46 | | | | |
| cg2739491 | 0.232732 | 0.455475 | 9.339011 | 1.95E-05 | 0.001097 | 3.442125 | 0.339109 | 0.571841 | -0.23273 | 16 | 23304561 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2276423 | 0.218206 | 0.44979 | 9.336856 | 1.96E-05 | 0.001098 | 3.440435 | 0.340687 | 0.558893 | -0.21821 | 2 | 17796973 | R | II | VSNL1 | Body | opensea | Body-open | | | | | | |
| cg2453022 | 0.203632 | 0.60258 | 9.336658 | 1.96E-05 | 0.001098 | 3.440281 | 0.500764 | 0.704396 | -0.20363 | 2 | 1.03E+08 | F | II | IL1R1 | 5'UTR | opensea | 5'UTR-open | rs1459900 | 1;8;13 | | | | |
| cg0833873 | 0.233922 | 0.5091 | 9.336412 | 1.96E-05 | 0.001098 | 3.440087 | 0.39214 | 0.626061 | -0.23392 | 4 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | rs1417029 | 31 | | | | |
| cg1279363 | 0.200065 | 0.570199 | 9.334473 | 1.96E-05 | 0.001099 | 3.438566 | 0.470166 | 0.670231 | -0.20006 | 6 | 1.35E+08 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | rs1879965 | 0;13;45 | | | | |
| cg1650943 | 0.229158 | 0.518715 | 9.334287 | 1.96E-05 | 0.001099 | 3.438421 | 0.404136 | 0.633294 | -0.22916 | 6 | 16699516 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | rs7372521 | 43;3 | | | | |
| cg1429397 | 0.209437 | 0.578626 | 9.333121 | 1.96E-05 | 0.0011 | 3.437506 | 0.473908 | 0.683345 | -0.20944 | 5 | 90167401 | R | II | ADGRV1 | Body | opensea | Body-open | rs5578921 | 30 | | | | |
| cg0516130 | 0.207264 | 0.61494 | 9.331822 | 1.97E-05 | 0.0011 | 3.436487 | 0.511308 | 0.718572 | -0.20726 | 10 | 16158824 | R | II | | IGR | opensea | IGR-opense | rs1138041 | 25;14 | | | | |
| cg1991750 | 0.232458 | 0.521645 | 9.33177 | 1.97E-05 | 0.0011 | 3.436446 | 0.405416 | 0.637874 | -0.23246 | 18 | 56208955 | R | II | ALPK2 | Body | opensea | Body-open | rs5411683 | 51;30;11 | | | | |
| cg2452184 | 0.223398 | 0.547164 | 9.331281 | 1.97E-05 | 0.0011 | 3.436062 | 0.435465 | 0.658863 | -0.2234 | 4 | 1.03E+08 | R | II | BANK1 | Body | opensea | Body-open | rs1864329 | 18;12;2 | | | | |
| cg2235498 | 0.244459 | 0.455413 | 9.330889 | 1.97E-05 | 0.0011 | 3.435755 | 0.333184 | 0.577643 | -0.24446 | 21 | 33344786 | R | II | HUNK | Body | opensea | Body-open | | | | | | |
| cg1743935 | 0.201471 | 0.702414 | 9.329585 | 1.97E-05 | 0.001101 | 3.434731 | 0.601679 | 0.80315 | -0.20147 | 21 | 45653242 | R | II | ICOSLG | Body | opensea | Body-open | rs5542423 | 2 | | | | |
| cg2172956 | 0.207356 | 0.420039 | 9.329543 | 1.97E-05 | 0.001101 | 3.434699 | 0.31636 | 0.523717 | -0.20736 | 16 | 80661293 | R | II | CDYL2 | Body | opensea | Body-open | rs5573937 | 32 | | | | |
| cg2042310 | 0.209004 | 0.607205 | 9.327416 | 1.97E-05 | 0.001102 | 3.433029 | 0.502703 | 0.711708 | -0.209 | 6 | 28919021 | F | II | | IGR | opensea | IGR-opense | rs1164161 | 15 | | | | |
| cg0044976 | 0.253804 | 0.488789 | 9.32608 | 1.97E-05 | 0.001102 | 3.43198 | 0.361887 | 0.61569 | -0.2538 | 12 | 31559410 | F | II | DENND5B | Body | opensea | Body-open | | | | | | |
| cg0259391 | 0.200046 | 0.536335 | 9.324266 | 1.98E-05 | 0.001102 | 3.430557 | 0.436312 | 0.636359 | -0.20005 | 1 | 22164880 | R | II | HSPG2 | Body | opensea | Body-open | rs7980394 | 43 | | | | |
| cg2269665 | 0.207402 | 0.667914 | 9.322221 | 1.98E-05 | 0.001103 | 3.42895 | 0.564214 | 0.771615 | -0.2074 | 1 | 64255970 | R | II | ROR1 | Body | opensea | Body-open | rs5680831 | 36;29;14 | | | | |
| cg2445215 | 0.261478 | 0.51216 | 9.32109 | 1.98E-05 | 0.001104 | 3.428062 | 0.381421 | 0.642899 | -0.26148 | 2 | 12433867 | R | II | LOC10050 | Body | opensea | Body-open | rs5563541 | 1 | | | | |
| cg1638160 | 0.208415 | 0.490264 | 9.319937 | 1.98E-05 | 0.001104 | 3.427156 | 0.386057 | 0.594472 | -0.20841 | 11 | 70002745 | F | II | ANO1 | Body | shore | Body-shore | chr11:700( | | | | | |
| cg1717817 | 0.20951 | 0.44503 | 9.319897 | 1.98E-05 | 0.001104 | 3.427125 | 0.340275 | 0.549785 | -0.20951 | 1 | 1.84E+08 | F | II | | IGR | opensea | IGR-opense | rs1395128 | 29 | | | | |
| cg1981114 | 0.202226 | 0.544225 | 9.319794 | 1.98E-05 | 0.001104 | 3.427044 | 0.443112 | 0.645338 | -0.20223 | 18 | 46286151 | R | II | KIAA0427 | Body | shore | Body-shore | chr18:462 | rs5485708 | 39;1 | | | |
| cg2431204 | 0.222026 | 0.526609 | 9.318052 | 1.99E-05 | 0.001104 | 3.425675 | 0.415596 | 0.637622 | -0.22203 | 1 | 22672625 | R | II | | IGR | shelf | IGR-shelf | chr1:2266( | rs5511470 | 29;25;2;1 | | | |
| cg0636735 | 0.217009 | 0.617905 | 9.317834 | 1.99E-05 | 0.001104 | 3.425504 | 0.5094 | 0.72641 | -0.21701 | 3 | 8363442 | F | II | | IGR | opensea | IGR-opense | rs5419719 | 29;46 | | | | |
| cg1397632 | 0.217854 | 0.670571 | 9.316704 | 1.99E-05 | 0.001105 | 3.424616 | 0.561644 | 0.779498 | -0.21785 | 10 | 34604934 | R | II | PARD3 | Body | opensea | Body-open | rs1100973 | 41;30;26 | | | | |
| cg0724544 | 0.209121 | 0.678637 | 9.316524 | 1.99E-05 | 0.001105 | 3.424475 | 0.574077 | 0.783198 | -0.20912 | 1 | 1.56E+08 | F | II | PMF1 | Body | shore | Body-shore | chr1:1561( | | | | | |
| cg1373383 | 0.238915 | 0.63147 | 9.315739 | 1.99E-05 | 0.001105 | 3.423857 | 0.512013 | 0.750928 | -0.23891 | 10 | 9059161 | F | II | | IGR | opensea | IGR-opense | rs5575364 | 0 | | | | |
| cg2205860 | 0.217546 | 0.610808 | 9.31555 | 1.99E-05 | 0.001105 | 3.42371 | 0.502035 | 0.719581 | -0.21755 | 13 | 43935238 | R | II | ENOX1 | Body | opensea | Body-open | rs5768211 | 43 | | | | |
| cg0036892 | 0.210749 | 0.552732 | 9.315399 | 1.99E-05 | 0.001105 | 3.423591 | 0.447358 | 0.658106 | -0.21075 | 9 | 1.02E+08 | F | II | GALNT12 | Body | shelf | Body-shelf | chr9:1015( | rs5617446 | 1;27;40 | | | |
| cg1420807 | 0.228026 | 0.464066 | 9.315229 | 1.99E-05 | 0.001105 | 3.423457 | 0.350053 | 0.578079 | -0.22803 | 2 | 81724589 | R | II | | IGR | opensea | IGR-opense | rs1895720 | 2 | | | | |
| cg2738266 | 0.217414 | 0.618501 | 9.314701 | 1.99E-05 | 0.001105 | 3.423042 | 0.509794 | 0.727208 | -0.21741 | 4 | 1.2E+08 | F | II | MYOZ2 | TSS1500 | opensea | TSS1500-op | rs1163808 | 8 | | | | |
| cg1266330 | 0.221735 | 0.460361 | 9.313993 | 1.99E-05 | 0.001106 | 3.422485 | 0.349493 | 0.571228 | -0.22174 | 6 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | rs5779602 | 42;14;4;2;1 | | | | |
| cg2655769 | 0.244231 | 0.498658 | 9.313924 | 1.99E-05 | 0.001106 | 3.422431 | 0.376543 | 0.620774 | -0.24423 | 1 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | rs5310098 | 0;38 | | | | |
| cg2452416 | 0.205449 | 0.404716 | 9.313475 | 1.99E-05 | 0.001106 | 3.422078 | 0.301992 | 0.507441 | -0.20545 | 2 | 2.04E+08 | R | II | | IGR | opensea | IGR-opense | rs5756511 | 1 | | | | |
| cg0665056 | 0.235265 | 0.541911 | 9.313435 | 1.99E-05 | 0.001106 | 3.422047 | 0.424279 | 0.659543 | -0.23526 | 2 | 1.66E+08 | F | II | SLC38A11 | Body | opensea | Body-open | rs7548124 | 12;26 | | | | |
| cg1861368 | 0.21456 | 0.626058 | 9.313275 | 1.99E-05 | 0.001106 | 3.421921 | 0.518778 | 0.733338 | -0.21456 | 19 | 5282167 | F | II | PTPRS | Body | opensea | Body-open | rs3756982 | 1;29;30;49 | | | | |
| cg0719208 | 0.240302 | 0.494033 | 9.31258 | 1.99E-05 | 0.001106 | 3.421375 | 0.373882 | 0.614184 | -0.2403 | 14 | 75981936 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0698545 | 0.208178 | 0.541448 | 9.311343 | 2E-05 | 0.001107 | 3.420402 | 0.437359 | 0.645537 | -0.20818 | 14 | 95653488 | R | II | CLMN | 3'UTR | opensea | 3'UTR-open | rs5291332 | 2;1 | | | | |
| cg0323704 | 0.217937 | 0.65518 | 9.310946 | 2E-05 | 0.001107 | 3.42009 | 0.546212 | 0.764149 | -0.21794 | 5 | 77175909 | R | II | | IGR | opensea | IGR-opense | rs1821166 | 35;34;1 | | | | |
| cg0372915 | 0.204368 | 0.525918 | 9.309976 | 2E-05 | 0.001107 | 3.419327 | 0.423734 | 0.628102 | -0.20437 | 7 | 19961027 | F | II | | IGR | opensea | IGR-opense | rs5542116 | 0;3;27;51 | | | | |
| cg1275694 | 0.218146 | 0.577927 | 9.307114 | 2E-05 | 0.001109 | 3.417076 | 0.468854 | 0.687 | -0.21815 | 7 | 1.57E+08 | F | II | PTPRN2 | Body | shore | Body-shore | chr7:1574( | rs1812796 | 1;19;21 | | | |
| cg1719897 | 0.216212 | 0.587384 | 9.306166 | 2E-05 | 0.001109 | 3.41633 | 0.479278 | 0.69549 | -0.21621 | 16 | 72277225 | R | II | | IGR | opensea | IGR-opense | rs5449548 | 28;27;11;6 | | | | |
| cg2094485 | 0.239962 | 0.559554 | 9.305919 | 2E-05 | 0.001109 | 3.416136 | 0.439573 | 0.679535 | -0.23996 | 12 | 81172316 | R | II | | IGR | opensea | IGR-opense | rs1811075 | 23;1 | | | | |
| cg2300002 | 0.230938 | 0.508383 | 9.305308 | 2.01E-05 | 0.001109 | 3.415655 | 0.392914 | 0.623852 | -0.23094 | 12 | 93707765 | R | II | LOC643335 | Body | opensea | Body-open | rs5449117 | 45;2 | | | | |
| cg0282572 | 0.213259 | 0.561174 | 9.304396 | 2.01E-05 | 0.00111 | 3.414938 | 0.454544 | 0.667803 | -0.21326 | 21 | 31540204 | F | II | CLDN17 | TSS1500 | opensea | TSS1500-op | rs5428913 | 3;8;26;34 | | | | |
| cg2689516 | 0.215513 | 0.600803 | 9.299101 | 2.01E-05 | 0.001111 | 3.41077 | 0.493047 | 0.70856 | -0.21551 | 14 | 91010168 | F | II | TTC7B | Body | shelf | Body-shelf | chr14:910( | | | | | |
| cg1981830 | 0.208684 | 0.490458 | 9.298724 | 2.02E-05 | 0.001111 | 3.410474 | 0.386116 | 0.5948 | -0.20868 | 14 | 75946745 | R | II | | IGR | opensea | IGR-opense | rs1425667 | 18 | | | | |
| cg0926467 | 0.204735 | 0.512418 | 9.298691 | 2.02E-05 | 0.001111 | 3.410448 | 0.410051 | 0.614786 | -0.20474 | 16 | 20684636 | F | II | ACSM1 | Body | opensea | Body-open | rs5551033 | 20;37;46 | | | | |
| cg0159768 | 0.214514 | 0.629245 | 9.298614 | 2.02E-05 | 0.001111 | 3.410387 | 0.521988 | 0.736502 | -0.21451 | 10 | 54739651 | F | II | | IGR | opensea | IGR-opense | rs1849449 | 1;8;18;29;33;48 | | | | |
| cg2327498 | 0.21225 | 0.6219 | 9.298373 | 2.02E-05 | 0.001112 | 3.410197 | 0.515774 | 0.728025 | -0.21225 | 2 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | rs5621905 | 1;40;51 | | | | |
| cg0394712 | 0.225435 | 0.538335 | 9.294557 | 2.02E-05 | 0.001113 | 3.407192 | 0.425617 | 0.651052 | -0.22544 | 6 | 22926357 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2588287 | 0.21057 | 0.698301 | 9.294106 | 2.02E-05 | 0.001113 | 3.406836 | 0.593016 | 0.803586 | -0.21057 | 22 | 17701547 | R | II | CECR1 | TSS1500 | opensea | TSS1500-op | rs1896588 | 45;19 | | | | |
| cg1159060 | 0.216986 | 0.477404 | 9.291091 | 2.03E-05 | 0.001115 | 3.404461 | 0.368911 | 0.585897 | -0.21699 | 8 | 52169322 | R | II | | IGR | opensea | IGR-opense | rs7653671 | 23;5 | | | | |
| cg1634204 | 0.242599 | 0.565469 | 9.290633 | 2.03E-05 | 0.001115 | 3.4041 | 0.444169 | 0.686768 | -0.2426 | 1 | 1.99E+08 | R | II | | IGR | opensea | IGR-opense | rs3032430 | 43;37;34;33;22;1 | | | | |
| cg1319523 | 0.22529 | 0.693528 | 9.290587 | 2.03E-05 | 0.001115 | 3.404065 | 0.580883 | 0.806173 | -0.22529 | 7 | 1.38E+08 | F | II | SVOPL | Body | opensea | Body-open | rs1426466 | 10;25 | | | | |
| cg1597187 | 0.239477 | 0.426607 | 9.290448 | 2.03E-05 | 0.001115 | 3.403955 | 0.306868 | 0.546345 | -0.23948 | 2 | 2.27E+08 | R | II | | IGR | opensea | IGR-opense | rs1380049 | 20;2;1 | | | | |
| cg0850513 | 0.21881 | 0.572182 | 9.290239 | 2.03E-05 | 0.001115 | 3.40379 | 0.462777 | 0.681587 | -0.21881 | 1 | 2.05E+08 | F | II | LEMD1 | 1stExon | opensea | 1stExon-op | | | | | | |
| cg0941529 | 0.235217 | 0.576687 | 9.289626 | 2.03E-05 | 0.001116 | 3.403307 | 0.459078 | 0.694296 | -0.23522 | 14 | 99309749 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1357321 | 0.202942 | 0.497162 | 9.289514 | 2.03E-05 | 0.001116 | 3.403219 | 0.395691 | 0.598633 | -0.20294 | 9 | 1.26E+08 | R | II | CRB2 | Body | shore | Body-shore | chr9:1261( | rs1453242 | 15;2 | | | |
| cg1316349 | 0.257935 | 0.642702 | 9.289058 | 2.03E-05 | 0.001116 | 3.402859 | 0.513734 | 0.771669 | -0.25793 | 1 | 2.16E+08 | R | II | KCTD3 | Body | opensea | Body-open | rs5289969 | 10;1 | | | | |
| cg0262137 | 0.213594 | 0.549312 | 9.288773 | 2.03E-05 | 0.001116 | 3.402635 | 0.442515 | 0.656109 | -0.21359 | 1 | 85461303 | R | II | MCOLN2 | Body | shore | Body-shore | chr1:8546( | rs2389792 | 49;35 | | | |
| cg0886514 | 0.203651 | 0.592571 | 9.288561 | 2.03E-05 | 0.001116 | 3.402467 | 0.490745 | 0.694396 | -0.20365 | 10 | 71507307 | R | II | | IGR | opensea | IGR-opense | rs1433531 | 33;2 | | | | |
| cg0274778 | 0.217025 | 0.689866 | 9.288425 | 2.03E-05 | 0.001116 | 3.40236 | 0.581353 | 0.798378 | -0.21702 | 5 | 32531247 | F | II | | IGR | opensea | IGR-opense | rs1503571 | 0;5;36 | | | | |
| cg0680570 | 0.213721 | 0.543374 | 9.288235 | 2.03E-05 | 0.001116 | 3.402211 | 0.436513 | 0.650234 | -0.21372 | 16 | 81160871 | F | II | PKD1L2 | Body | opensea | Body-open | rs3408037 | 11 | | | | |
| cg0871926 | 0.251697 | 0.491203 | 9.285738 | 2.04E-05 | 0.001117 | 3.400242 | 0.365354 | 0.617051 | -0.2517 | 4 | 1.29E+08 | R | II | INTU | Body | opensea | Body-open | rs5681101 | 1 | | | | |
| cg0116279 | 0.238935 | 0.584248 | 9.28412 | 2.04E-05 | 0.001118 | 3.398966 | 0.464781 | 0.703716 | -0.23893 | 1 | 64293256 | R | II | ROR1 | Body | opensea | Body-open | rs5512446 | 27 | | | | |
| cg0569049 | 0.217745 | 0.595421 | 9.283779 | 2.04E-05 | 0.001118 | 3.398698 | 0.486548 | 0.704294 | -0.21775 | 1 | 2.25E+08 | F | II | CNIH3 | Body | opensea | Body-open | rs5573136 | 1;38;41;42 | | | | |
| cg1813354 | 0.224387 | 0.541904 | 9.282718 | 2.04E-05 | 0.001118 | 3.397861 | 0.429711 | 0.654098 | -0.22439 | 14 | 33682124 | F | II | NPAS3 | Body | opensea | Body-open | rs5528915 | 16;24;29 | | | | |
| cg0468019 | 0.247364 | 0.605602 | 9.281598 | 2.04E-05 | 0.001118 | 3.396978 | 0.48192 | 0.729284 | -0.24736 | 9 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0116536 | 0.227174 | 0.474445 | 9.280941 | 2.04E-05 | 0.001119 | 3.39646 | 0.360858 | 0.588032 | -0.22717 | 1 | 2.12E+08 | F | II | LPGAT1 | Body | opensea | Body-open | rs5356322 | 26 | | | | |
| cg1957609 | 0.208352 | 0.427435 | 9.279164 | 2.05E-05 | 0.001119 | 3.395058 | 0.323259 | 0.531611 | -0.20835 | 6 | 1.07E+08 | F | II | | IGR | shelf | IGR-shelf | chr6:1065( | rs1427808 | 20;33 | | | |
| cg0456022 | 0.214452 | 0.533746 | 9.27889 | 2.05E-05 | 0.00112 | 3.394841 | 0.42652 | 0.640972 | -0.21445 | 20 | 50098437 | R | II | NFATC2 | Body | opensea | Body-open | | | | | | |
| cg2073684 | 0.2602 | 0.471003 | 9.278714 | 2.05E-05 | 0.00112 | 3.394702 | 0.340903 | 0.601103 | -0.2602 | 2 | 73902031 | F | II | ALMS1P | ExonBnd | opensea | ExonBnd-op | rs2010199 | 0;1 | | | | |
| cg1355150 | 0.200882 | 0.606124 | 9.27732 | 2.05E-05 | 0.00112 | 3.393602 | 0.505683 | 0.706565 | -0.20088 | 12 | 2014983 | R | II | CACNA2D4 | Body | shelf | Body-shelf | chr12:201( | rs1489500 | 17;2 | | | |
| cg0428642 | 0.200863 | 0.597923 | 9.277242 | 2.05E-05 | 0.00112 | 3.393541 | 0.497492 | 0.698354 | -0.20086 | 22 | 28513008 | F | II | TTC28 | Body | opensea | Body-open | rs5581824 | 1;33 | | | | |
| cg1614453 | 0.207931 | 0.5405 | 9.276238 | 2.05E-05 | 0.00112 | 3.392749 | 0.436535 | 0.644465 | -0.20793 | 1 | 87677564 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0895992 | 0.219039 | 0.460464 | 9.274939 | 2.05E-05 | 0.001121 | 3.391723 | 0.350945 | 0.569984 | -0.21904 | 10 | 92806758 | F | II | LINC00502 | ExonBnd | opensea | ExonBnd-op | rs5273723 | 1 | | | | |
| cg1428599 | 0.214236 | 0.590283 | 9.274327 | 2.05E-05 | 0.001121 | 3.39124 | 0.483165 | 0.6974 | -0.21424 | 7 | 1.15E+08 | R | II | LINC01393 | Body | opensea | Body-open | rs5479742 | 38;1 | | | | |
| cg2689995 | 0.212912 | 0.46964 | 9.273886 | 2.05E-05 | 0.001121 | 3.390892 | 0.363184 | 0.576096 | -0.21291 | 4 | 8649781 | R | II | | IGR | shelf | IGR-shelf | chr4:8645( | rs5562054 | 42 | | | |
| cg1206217 | 0.223047 | 0.631697 | 9.271521 | 2.06E-05 | 0.001122 | 3.389025 | 0.520174 | 0.743221 | -0.22305 | 6 | 56734221 | F | II | DST | Body | opensea | Body-open | rs1827318 | 1 | | | | |
| cg0347861 | 0.226409 | 0.609366 | 9.269673 | 2.06E-05 | 0.001123 | 3.387566 | 0.496161 | 0.72257 | -0.22641 | 3 | 1.36E+08 | R | II | PPP2R3A | 5'UTR | opensea | 5'UTR-open | rs1141954 | 33;1 | | | | |
| cg0104830 | 0.22027 | 0.5806 | 9.264774 | 2.07E-05 | 0.001126 | 3.383696 | 0.470465 | 0.690734 | -0.22027 | 8 | 17762019 | F | II | | IGR | opensea | IGR-opense | rs5581583 | 35;48 | | | | |
| cg1223222 | 0.268013 | 0.571534 | 9.263862 | 2.07E-05 | 0.001126 | 3.382975 | 0.437528 | 0.705541 | -0.26801 | 13 | 98825268 | F | II | FARP1 | 5'UTR | shelf | 5'UTR-shelf | chr13:988( | rs7410869 | 0;1;2;51 | | | |
| cg0320317 | 0.224054 | 0.5593 | 9.261651 | 2.07E-05 | 0.001127 | 3.381228 | 0.447273 | 0.671327 | -0.22405 | 1 | 92275181 | R | II | TGFBR3 | Body | opensea | Body-open | rs1788198 | 31;23 | | | | |
| cg1593312 | 0.237951 | 0.482532 | 9.261628 | 2.07E-05 | 0.001127 | 3.38121 | 0.363557 | 0.601508 | -0.23795 | 14 | 1.02E+08 | R | II | | IGR | shore | IGR-shore | chr14:102( | rs4906136 | 13;2 | | | |
| cg1366458 | 0.230078 | 0.476911 | 9.260602 | 2.07E-05 | 0.001127 | 3.380399 | 0.361872 | 0.59195 | -0.23008 | 17 | 74557494 | F | II | SNORD1A | TSS1500 | shelf | TSS1500-sh | chr17:745( | | | | | |
| cg1278796 | 0.217143 | 0.487887 | 9.260309 | 2.08E-05 | 0.001127 | 3.380167 | 0.379316 | 0.596458 | -0.21714 | 4 | 1.5E+08 | R | II | | IGR | opensea | IGR-opense | rs7295998 | 2 | | | | |
| cg0503477 | 0.218771 | 0.549451 | 9.259192 | 2.08E-05 | 0.001128 | 3.379284 | 0.440065 | 0.658836 | -0.21877 | 1 | 2.1E+08 | R | II | | IGR | opensea | IGR-opense | rs5710818 | 32;17;13;1 | | | | |
| cg0829168 | 0.224688 | 0.483085 | 9.257777 | 2.08E-05 | 0.001129 | 3.378166 | 0.370741 | 0.595429 | -0.22469 | 22 | 49749753 | F | II | | IGR | opensea | IGR-opense | rs5325898 | 37 | | | | |
| cg1071826 | 0.201176 | 0.585953 | 9.257648 | 2.08E-05 | 0.001129 | 3.378063 | 0.485365 | 0.686541 | -0.20118 | 2 | 9783004 | F | II | | IGR | opensea | IGR-opense | rs1922104 | 1;18 | | | | |
| cg0595445 | 0.203289 | 0.592108 | 9.256129 | 2.08E-05 | 0.001129 | 3.376862 | 0.490464 | 0.693753 | -0.20329 | 14 | 52064259 | F | II | FRMD6-AS2 | Body | opensea | Body-open | rs5430772 | 0;1 | | | | |
| cg0748235 | 0.232578 | 0.601986 | 9.255404 | 2.08E-05 | 0.00113 | 3.376288 | 0.485697 | 0.718275 | -0.23258 | 9 | 1982266 | F | II | | IGR | opensea | IGR-opense | rs5697162 | 0;1;6;20;27;29 | | | | |
| cg1937112 | 0.210894 | 0.60642 | 9.255266 | 2.08E-05 | 0.00113 | 3.37618 | 0.500973 | 0.711867 | -0.21089 | 1 | 1.75E+08 | R | II | TNN | Body | shore | Body-shore | chr1:1750( | rs5510594 | 48;2 | | | |
| cg1437750 | 0.206183 | 0.51481 | 9.252513 | 2.09E-05 | 0.001131 | 3.374002 | 0.411719 | 0.617902 | -0.20618 | 11 | 26744743 | R | II | SLC5A12 | TSS1500 | opensea | TSS1500-op | rs5470070 | 49 | | | | |
| cg2264678 | 0.243171 | 0.60454 | 9.250395 | 2.09E-05 | 0.001132 | 3.372326 | 0.482955 | 0.726125 | -0.24317 | 6 | 1.45E+08 | R | II | UTRN | Body | opensea | Body-open | rs5298981 | 44 | | | | |
| cg0189525 | 0.222009 | 0.613901 | 9.248172 | 2.09E-05 | 0.001132 | 3.370567 | 0.502896 | 0.724905 | -0.22201 | 7 | 55133046 | R | II | EGFR | Body | opensea | Body-open | rs5309502 | 35;18 | | | | |
| cg1980503 | 0.210968 | 0.682518 | 9.246964 | 2.1E-05 | 0.001133 | 3.369611 | 0.577034 | 0.788002 | -0.21097 | 10 | 13766768 | R | II | FRMD4A | Body | opensea | Body-open | rs1814195 | 32 | | | | |
| cg2482679 | 0.219679 | 0.626218 | 9.246039 | 2.1E-05 | 0.001133 | 3.368878 | 0.516379 | 0.736058 | -0.21968 | 2 | 65825029 | R | II | | IGR | opensea | IGR-opense | rs5326276 | 19;13;10 | | | | |
| cg0159414 | 0.205525 | 0.663434 | 9.244017 | 2.1E-05 | 0.001134 | 3.367277 | 0.560671 | 0.766196 | -0.20553 | 2 | 47414734 | R | II | | IGR | opensea | IGR-opense | rs1841327 | 2;1 | | | | |
| cg2330235 | 0.203599 | 0.57804 | 9.24165 | 2.1E-05 | 0.001135 | 3.365403 | 0.476241 | 0.67984 | -0.2036 | 17 | 27372891 | R | II | PIPOX | Body | opensea | Body-open | rs7597223 | 42;41;4;2 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2027496 | 0.209015 | 0.697821 | 9.240982 | 2.11E-05 | 0.001135 | 3.364873 | 0.593313 | 0.802328 | -0.20901 | 18 | 59989045 | F | II | | IGR | shelf | IGR-shelf | chr18:599 | rs5410808 | 0;20;26;38 |
| cg2056150 | 0.211855 | 0.710374 | 9.240654 | 2.11E-05 | 0.001135 | 3.364614 | 0.604446 | 0.816301 | -0.21186 | 14 | 79715920 | R | II | NRXN3 | Body | opensea | Body-open | | rs1449897 | 7;2 |
| cg0844271 | 0.20673 | 0.518885 | 9.240457 | 2.11E-05 | 0.001135 | 3.364457 | 0.41552 | 0.62225 | -0.20673 | 5 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5314279 | 23;19 |
| cg1330871 | 0.24857 | 0.443618 | 9.240279 | 2.11E-05 | 0.001135 | 3.364317 | 0.319333 | 0.567903 | -0.24857 | 7 | 70065077 | F | II | AUTS2 | Body | shelf | Body-shelf | chr7:7006 | rs1845834 | 0;3;51 |
| cg2282215 | 0.215622 | 0.635723 | 9.239472 | 2.11E-05 | 0.001136 | 3.363677 | 0.527912 | 0.743534 | -0.21562 | 6 | 64486333 | R | II | EYS | Body | opensea | Body-open | | rs7578366 | 10 |
| cg2134803 | 0.250768 | 0.563127 | 9.238498 | 2.11E-05 | 0.001136 | 3.362905 | 0.437743 | 0.688511 | -0.25077 | 5 | 1.29E+08 | F | II | ADAMTS19 | Body | opensea | Body-open | | rs1494714 | 0;21 |
| cg1332043 | 0.201487 | 0.548502 | 9.237476 | 2.11E-05 | 0.001137 | 3.362095 | 0.447759 | 0.649246 | -0.20149 | 8 | 55138014 | F | II | | IGR | opensea | IGR-opense | | rs7359489 | 40 |
| cg0068613 | 0.202063 | 0.625296 | 9.236978 | 2.11E-05 | 0.001137 | 3.361701 | 0.524265 | 0.726327 | -0.20206 | 6 | 1.68E+08 | F | II | MLLT4 | Body | opensea | Body-open | | | |
| cg0753924 | 0.20252 | 0.726864 | 9.236637 | 2.11E-05 | 0.001137 | 3.361431 | 0.625604 | 0.828125 | -0.20252 | 7 | 93919388 | F | II | | IGR | opensea | IGR-opense | | rs5531540 | 7;9;16;36 |
| cg2636216 | 0.204014 | 0.6111 | 9.235051 | 2.12E-05 | 0.001138 | 3.360174 | 0.509093 | 0.713106 | -0.20401 | 1 | 2.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5498040 | 2 |
| cg2727324 | 0.236686 | 0.518327 | 9.234654 | 2.12E-05 | 0.001138 | 3.35986 | 0.399985 | 0.63667 | -0.23669 | 6 | 3802297 | F | II | | IGR | opensea | IGR-opense | | rs5780338 | 1 |
| cg0372532 | 0.254095 | 0.416392 | 9.23404 | 2.12E-05 | 0.001138 | 3.359373 | 0.289344 | 0.543439 | -0.2541 | 20 | 50015815 | F | II | NFATC2 | Body | opensea | Body-open | | rs7545307 | 0;11;49 |
| cg2645014 | 0.213366 | 0.680199 | 9.232689 | 2.12E-05 | 0.001138 | 3.358301 | 0.573516 | 0.786882 | -0.21337 | 7 | 47375903 | F | II | TNS3 | Body | opensea | Body-open | | | |
| cg1802326 | 0.22984 | 0.545422 | 9.232447 | 2.12E-05 | 0.001138 | 3.35811 | 0.430502 | 0.660342 | -0.22984 | 11 | 84403466 | R | II | DLG2 | Body | opensea | Body-open | | rs5309154 | 2 |
| cg1197032 | 0.222459 | 0.614141 | 9.232047 | 2.12E-05 | 0.001139 | 3.357793 | 0.502912 | 0.725371 | -0.22246 | 7 | 40529988 | R | II | SUGCT | Body | opensea | Body-open | | rs1474069 | 2 |
| cg0411214 | 0.201045 | 0.562806 | 9.232036 | 2.12E-05 | 0.001139 | 3.357784 | 0.462284 | 0.663328 | -0.20104 | 2 | 2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1840751 | 9 |
| cg1694025 | 0.222424 | 0.577489 | 9.231875 | 2.12E-05 | 0.001139 | 3.357656 | 0.466277 | 0.688701 | -0.22242 | 1 | 2.36E+08 | F | II | GPR137B | Body | opensea | Body-open | | rs5433993 | 0;1;9 |
| cg2675391 | 0.230893 | 0.516634 | 9.230681 | 2.12E-05 | 0.001139 | 3.356709 | 0.401188 | 0.632081 | -0.23089 | 14 | 24540526 | R | II | CPNE6 | TSS200 | opensea | TSS200-ope | | | |
| cg1353075 | 0.245838 | 0.650778 | 9.230331 | 2.12E-05 | 0.001139 | 3.356432 | 0.527859 | 0.773697 | -0.24584 | 20 | 20406628 | F | II | RALGAPA2 | Body | opensea | Body-open | | rs1405844 | 15;19 |
| cg0337754 | 0.231706 | 0.5664 | 9.22872 | 2.13E-05 | 0.00114 | 3.355154 | 0.450546 | 0.682253 | -0.23171 | 6 | 47170067 | F | II | | IGR | opensea | IGR-opense | | rs5530303 | 0;33;43;47 |
| cg1196211 | 0.225313 | 0.639992 | 9.228082 | 2.13E-05 | 0.00114 | 3.354648 | 0.527335 | 0.752648 | -0.22531 | 3 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | rs5704644 | 1;2;35 |
| cg2184301 | 0.200121 | 0.507827 | 9.226984 | 2.13E-05 | 0.00114 | 3.353777 | 0.407766 | 0.607887 | -0.20012 | 1 | 1.53E+08 | R | II | PGLYRP3 | TSS1500 | opensea | TSS1500-op | | rs2987761 | 46;37;24 |
| cg0532484 | 0.206371 | 0.623396 | 9.226619 | 2.13E-05 | 0.00114 | 3.353488 | 0.52021 | 0.726581 | -0.20637 | 13 | 97550987 | F | II | | IGR | opensea | IGR-opense | | rs1921852 | 1;43 |
| cg1015845 | 0.233293 | 0.610403 | 9.226112 | 2.13E-05 | 0.001141 | 3.353086 | 0.493756 | 0.727049 | -0.23329 | 1 | 93937840 | R | II | FNBP1L | Body | opensea | Body-open | | rs1880176 | 16;2 |
| cg0506431 | 0.220903 | 0.531175 | 9.225958 | 2.13E-05 | 0.001141 | 3.352963 | 0.420723 | 0.641626 | -0.2209 | 5 | 1.33E+08 | F | II | FSTL4 | Body | opensea | Body-open | | rs5451529 | 0;3;10;28;44 |
| cg1458062 | 0.207832 | 0.504384 | 9.225521 | 2.13E-05 | 0.001141 | 3.352616 | 0.400468 | 0.608301 | -0.20783 | 5 | 43602116 | R | II | NNT | TSS1500 | shore | TSS1500-sh | chr5:4360 | rs5735963 | 49;16 |
| cg0888230 | 0.21307 | 0.467711 | 9.223561 | 2.13E-05 | 0.001142 | 3.351061 | 0.361176 | 0.574246 | -0.21307 | 19 | 29489929 | R | II | | IGR | opensea | IGR-opense | | rs1404326 | 46;24;2 |
| cg2680858 | 0.214829 | 0.60076 | 9.222684 | 2.14E-05 | 0.001142 | 3.350365 | 0.493345 | 0.708174 | -0.21483 | 1 | 1.53E+08 | F | II | S100A12 | Body | opensea | Body-open | | rs2233864 | 0;1 |
| cg2688131 | 0.227726 | 0.556525 | 9.222562 | 2.14E-05 | 0.001142 | 3.350269 | 0.442662 | 0.670388 | -0.22773 | 13 | 95719669 | F | II | ABCC4 | Body | opensea | Body-open | | rs1162551 | 1 |
| cg1107098 | 0.216685 | 0.401932 | 9.220522 | 2.14E-05 | 0.001142 | 3.348649 | 0.293589 | 0.510275 | -0.21669 | 6 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5780015 | 0;1;30;32 |
| cg0226149 | 0.208934 | 0.570037 | 9.220337 | 2.14E-05 | 0.001142 | 3.348503 | 0.46557 | 0.674505 | -0.20893 | 10 | 80192517 | R | II | | IGR | opensea | IGR-opense | | rs1505463 | 39 |
| cg0075643 | 0.235865 | 0.541527 | 9.218083 | 2.14E-05 | 0.001143 | 3.346713 | 0.423594 | 0.65946 | -0.23587 | 5 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | rs1842809 | 49 |
| cg0941859 | 0.21597 | 0.48082 | 9.217407 | 2.14E-05 | 0.001143 | 3.346176 | 0.372835 | 0.588805 | -0.21597 | 7 | 81112712 | F | II | | IGR | opensea | IGR-opense | | rs5485935 | 4 |
| cg2057825 | 0.251416 | 0.561408 | 9.216602 | 2.15E-05 | 0.001143 | 3.345537 | 0.4357 | 0.687116 | -0.25142 | 10 | 97732488 | F | II | | IGR | opensea | IGR-opense | | rs5757202 | 34 |
| cg0053320 | 0.230441 | 0.475462 | 9.215195 | 2.15E-05 | 0.001143 | 3.344419 | 0.360241 | 0.590682 | -0.23044 | 9 | 1E+08 | F | II | LOC100495 | Body | opensea | Body-open | | rs5578909 | 10 |
| cg0750555 | 0.243888 | 0.655021 | 9.214601 | 2.15E-05 | 0.001144 | 3.343947 | 0.533077 | 0.776965 | -0.24389 | 5 | 36648568 | R | II | SLC1A3 | Body | opensea | Body-open | | rs5560676 | 48;24;7 |
| cg1539212 | 0.206713 | 0.633897 | 9.213923 | 2.15E-05 | 0.001144 | 3.343409 | 0.530541 | 0.737254 | -0.20671 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs5708426 | 9 |
| cg1398805 | 0.257382 | 0.60935 | 9.213089 | 2.15E-05 | 0.001144 | 3.342746 | 0.480658 | 0.738041 | -0.25738 | 7 | 83792237 | F | II | SEMA3A | Body | opensea | Body-open | | rs5497181 | 21;40 |
| cg1085597 | 0.250195 | 0.526857 | 9.21077 | 2.16E-05 | 0.001144 | 3.340904 | 0.40176 | 0.651955 | -0.2502 | 8 | 23780241 | F | II | | IGR | opensea | IGR-opense | | rs5753882 | 1 |
| cg2277903 | 0.212162 | 0.573773 | 9.210567 | 2.16E-05 | 0.001144 | 3.340743 | 0.467692 | 0.679854 | -0.21216 | 4 | 52921007 | F | II | SPATA18 | Body | shelf | Body-shelf | chr4:5291 | | |
| cg0251785 | 0.200513 | 0.425661 | 9.210352 | 2.16E-05 | 0.001144 | 3.340572 | 0.325405 | 0.525918 | -0.20051 | 3 | 1.71E+08 | F | II | | IGR | opensea | IGR-opense | | rs3724153 | 0;2;10;17;37;49 |
| cg0170680 | 0.226801 | 0.511922 | 9.210045 | 2.16E-05 | 0.001144 | 3.340328 | 0.398522 | 0.625323 | -0.2268 | 4 | 1.46E+08 | R | II | | IGR | opensea | IGR-opense | | rs1811951 | 1 |
| cg1360235 | 0.258245 | 0.645051 | 9.209968 | 2.16E-05 | 0.001144 | 3.340267 | 0.515928 | 0.774173 | -0.25825 | 3 | 14885560 | F | II | FGD5 | Body | opensea | Body-open | | rs5469159 | 33 |
| cg0832971 | 0.220276 | 0.441855 | 9.209509 | 2.16E-05 | 0.001145 | 3.339902 | 0.331717 | 0.551993 | -0.22028 | 1 | 15114228 | F | II | KAZN | Body | opensea | Body-open | | rs1885493 | 42 |
| cg2053628 | 0.231898 | 0.642785 | 9.209235 | 2.16E-05 | 0.001145 | 3.339684 | 0.526836 | 0.758735 | -0.2319 | 4 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | | rs1438863 | 0;24 |
| cg0846176 | 0.24453 | 0.477385 | 9.206133 | 2.16E-05 | 0.001146 | 3.337218 | 0.35512 | 0.59965 | -0.24453 | 16 | 80212320 | F | II | LOC10272 | Body | opensea | Body-open | | rs5603573 | 1;13;47 |
| cg2155641 | 0.221805 | 0.684866 | 9.205973 | 2.16E-05 | 0.001146 | 3.337091 | 0.573964 | 0.795769 | -0.2218 | 18 | 53399036 | F | II | | IGR | opensea | IGR-opense | | rs1868557 | 0;1;11 |
| cg1437288 | 0.209905 | 0.521258 | 9.203564 | 2.17E-05 | 0.001147 | 3.335175 | 0.416306 | 0.626211 | -0.20991 | 3 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs5496071 | 1;23 |
| cg2089999 | 0.200726 | 0.421091 | 9.203506 | 2.17E-05 | 0.001147 | 3.335129 | 0.320728 | 0.521454 | -0.20073 | 12 | 33023315 | F | II | PKP2 | Body | opensea | Body-open | | | |
| cg0084800 | 0.210535 | 0.619991 | 9.201138 | 2.17E-05 | 0.001148 | 3.333246 | 0.514723 | 0.725258 | -0.21053 | 12 | 68553396 | F | II | IFNG | 1stExon | opensea | 1stExon-op | | rs1814075 | 4;26;37 |
| cg2651127 | 0.22102 | 0.494885 | 9.200975 | 2.17E-05 | 0.001148 | 3.333117 | 0.384375 | 0.605394 | -0.22102 | 4 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | | rs4443239 | 19 |
| cg0836117 | 0.227085 | 0.334233 | 9.19939 | 2.17E-05 | 0.001148 | 3.331855 | 0.22069 | 0.447776 | -0.22709 | 9 | 90079331 | R | II | | IGR | opensea | IGR-opense | | rs1175023 | 22;18;2 |
| cg1717095 | 0.215659 | 0.59326 | 9.198634 | 2.18E-05 | 0.001149 | 3.331254 | 0.48543 | 0.70109 | -0.21566 | 8 | 99056508 | F | II | RPL30 | Body | shore | Body-shore | chr8:9905 | rs1867525 | 36;44 |
| cg1775378 | 0.242499 | 0.589247 | 9.1981 | 2.18E-05 | 0.001149 | 3.330829 | 0.467998 | 0.710496 | -0.2425 | 10 | 81026766 | F | II | ZMIZ1 | Body | opensea | Body-open | | rs5323573 | 1;14;47 |
| cg0938982 | 0.221711 | 0.455537 | 9.197773 | 2.18E-05 | 0.001149 | 3.330569 | 0.344682 | 0.566393 | -0.22171 | 10 | 31883099 | F | II | | IGR | opensea | IGR-opense | | rs8010784 | 35 |
| cg1115420 | 0.235103 | 0.606188 | 9.197579 | 2.18E-05 | 0.001149 | 3.330414 | 0.488636 | 0.723739 | -0.2351 | 12 | 5757554 | R | II | ANO2 | Body | opensea | Body-open | | rs1148484 | 1 |
| cg1860235 | 0.209477 | 0.441858 | 9.197262 | 2.18E-05 | 0.001149 | 3.330162 | 0.33712 | 0.546597 | -0.20948 | 10 | 3269930 | R | II | | IGR | opensea | IGR-opense | | rs1403675 | 47;38;8 |
| cg1898921 | 0.207409 | 0.497191 | 9.197178 | 2.18E-05 | 0.001149 | 3.330095 | 0.393486 | 0.600895 | -0.20741 | 13 | 73034831 | R | II | | IGR | opensea | IGR-opense | | rs3706356 | 1 |
| cg1371980 | 0.200538 | 0.676314 | 9.194398 | 2.18E-05 | 0.00115 | 3.327882 | 0.576045 | 0.776583 | -0.20054 | 21 | 40168528 | F | II | | IGR | opensea | IGR-opense | | rs5687085 | 6;34;39 |
| cg0189707 | 0.214098 | 0.418729 | 9.193739 | 2.18E-05 | 0.00115 | 3.327358 | 0.31168 | 0.525778 | -0.2141 | 13 | 1.07E+08 | R | II | ARGLU1 | Body | opensea | Body-open | | rs5706313 | 51;33;1 |
| cg1462326 | 0.208672 | 0.637349 | 9.193102 | 2.18E-05 | 0.00115 | 3.326851 | 0.533013 | 0.741685 | -0.20867 | 13 | 86374678 | F | II | SLITRK6 | TSS1500 | opensea | TSS1500-op | | rs5730180 | 41 |
| cg0610234 | 0.206563 | 0.568478 | 9.190647 | 2.19E-05 | 0.001151 | 3.324896 | 0.465196 | 0.67176 | -0.20656 | 6 | 8859229 | F | II | | IGR | opensea | IGR-opense | | rs1886097 | 3;8;33;48 |
| cg2260816 | 0.216149 | 0.573845 | 9.190335 | 2.19E-05 | 0.001152 | 3.324648 | 0.46577 | 0.68192 | -0.21615 | 1 | 95352630 | R | II | SLC44A3 | Body | opensea | Body-open | | rs5689956 | 4;2 |
| cg2671027 | 0.241774 | 0.495945 | 9.18883 | 2.19E-05 | 0.001152 | 3.323449 | 0.375057 | 0.616832 | -0.24177 | 7 | 86374484 | R | II | GRM3 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2165775 | 0.228578 | 0.512507 | 9.188367 | 2.19E-05 | 0.001152 | 3.323081 | 0.398218 | 0.626796 | -0.22858 | 11 | 11535011 | R | II | GALNT18 | Body | opensea | Body-open | | rs1883311 | 46;21;17;14;8;1 |
| cg0937189 | 0.202035 | 0.682218 | 9.188096 | 2.19E-05 | 0.001152 | 3.322864 | 0.581201 | 0.783235 | -0.20203 | 11 | 66788739 | R | II | SYT12 | TSS1500 | shore | TSS1500-sh | chr11:667 | rs5457259 | 2 |
| cg1122457 | 0.235707 | 0.507225 | 9.187529 | 2.19E-05 | 0.001152 | 3.322413 | 0.389371 | 0.625078 | -0.23571 | 10 | 34794060 | R | II | PARD3 | Body | opensea | Body-open | | rs773973 | r 44;37 |
| cg1541263 | 0.2218 | 0.644725 | 9.187345 | 2.19E-05 | 0.001152 | 3.322266 | 0.533825 | 0.755625 | -0.2218 | 21 | 36422800 | R | II | RUNX1 | TSS1500 | opensea | TSS1500-op | | rs1160822 | 31;5;1 |
| cg0222000 | 0.213213 | 0.697331 | 9.187124 | 2.19E-05 | 0.001152 | 3.32209 | 0.590725 | 0.803938 | -0.21321 | 6 | 13192742 | F | II | PHACTR1 | Body | opensea | Body-open | | rs3864311 | 17;29 |
| cg1518630 | 0.227631 | 0.550299 | 9.186895 | 2.19E-05 | 0.001152 | 3.321908 | 0.436484 | 0.664115 | -0.22763 | 13 | 55110248 | R | II | | IGR | opensea | IGR-opense | | rs5697292 | 42;31;26;1 |
| cg1172943 | 0.238115 | 0.484022 | 9.18645 | 2.2E-05 | 0.001152 | 3.321554 | 0.364964 | 0.603079 | -0.23811 | 2 | 2.09E+08 | F | II | CRYGA | TSS200 | opensea | TSS200-ope | | | |
| cg0109933 | 0.204758 | 0.396745 | 9.184559 | 2.2E-05 | 0.001153 | 3.320047 | 0.294366 | 0.499123 | -0.20476 | 7 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs1731757 | 19;38;40;43 |
| cg1023641 | 0.218912 | 0.594031 | 9.182244 | 2.2E-05 | 0.001154 | 3.318202 | 0.484575 | 0.703487 | -0.21891 | 7 | 24789868 | R | II | DFNA5 | 5'UTR | opensea | 5'UTR-open | | rs1410942 | 31;24 |
| cg2474346 | 0.21806 | 0.604214 | 9.182114 | 2.2E-05 | 0.001154 | 3.318098 | 0.495184 | 0.713244 | -0.21806 | 13 | 65669420 | R | II | | IGR | opensea | IGR-opense | | rs5744790 | 29 |
| cg1802333 | 0.225227 | 0.532817 | 9.181703 | 2.2E-05 | 0.001155 | 3.31777 | 0.420203 | 0.64543 | -0.22523 | 11 | 1.31E+08 | R | II | C11orf44 | TSS1500 | opensea | TSS1500-op | | | |
| cg1008108 | 0.200089 | 0.674271 | 9.181071 | 2.2E-05 | 0.001155 | 3.317267 | 0.574226 | 0.774316 | -0.20009 | 15 | 66417557 | F | II | MEGF11 | Body | opensea | Body-open | | rs1159554 | 0;50 |
| cg1215317 | 0.245041 | 0.656004 | 9.180526 | 2.21E-05 | 0.001155 | 3.316832 | 0.533484 | 0.778525 | -0.24504 | 4 | 40477836 | F | II | RBM47 | 5'UTR | opensea | 5'UTR-open | | rs5309442 | 41 |
| cg2343906 | 0.215179 | 0.542957 | 9.179197 | 2.21E-05 | 0.001156 | 3.315773 | 0.435368 | 0.650547 | -0.21518 | 12 | 20422450 | F | II | | IGR | opensea | IGR-opense | | rs5687916 | 21 |
| cg2497687 | 0.209206 | 0.440523 | 9.178695 | 2.21E-05 | 0.001156 | 3.315372 | 0.33592 | 0.545126 | -0.20921 | 17 | 47792648 | R | II | FAM117A | Body | opensea | Body-open | | | |
| cg1974459 | 0.228879 | 0.52627 | 9.177925 | 2.21E-05 | 0.001156 | 3.314758 | 0.411831 | 0.64071 | -0.22888 | 4 | 81226861 | R | II | | IGR | opensea | IGR-opense | | rs1150348 | 33;30 |
| cg2600187 | 0.231479 | 0.563173 | 9.177246 | 2.21E-05 | 0.001156 | 3.314217 | 0.447434 | 0.678913 | -0.23148 | 13 | 60053878 | F | II | | IGR | opensea | IGR-opense | | rs1506114 | 1;4;11;36 |
| cg1731275 | 0.201952 | 0.393697 | 9.176502 | 2.21E-05 | 0.001156 | 3.313624 | 0.292721 | 0.494673 | -0.20195 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0363145 | 0.217268 | 0.636158 | 9.176468 | 2.21E-05 | 0.001156 | 3.313597 | 0.527524 | 0.744792 | -0.21727 | 10 | 20230737 | F | II | PLXDC2 | Body | opensea | Body-open | | rs5671935 | 18;51 |
| cg2026014 | 0.216107 | 0.591246 | 9.175991 | 2.21E-05 | 0.001157 | 3.313216 | 0.483192 | 0.6993 | -0.21611 | 17 | 18017367 | R | II | MYO15A | 5'UTR | opensea | 5'UTR-open | | rs5745443 | 41 |
| cg0253396 | 0.216328 | 0.585997 | 9.175308 | 2.21E-05 | 0.001157 | 3.312672 | 0.477833 | 0.694161 | -0.21633 | 13 | 87781746 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1269862 | 0.210643 | 0.629729 | 9.175271 | 2.21E-05 | 0.001157 | 3.312642 | 0.524408 | 0.735051 | -0.21064 | 17 | 32581466 | F | II | CCL2 | TSS1500 | opensea | TSS1500-op | | rs1492104 | 1;43 |
| cg1339900 | 0.20856 | 0.566836 | 9.175132 | 2.21E-05 | 0.001157 | 3.312531 | 0.462556 | 0.671115 | -0.20856 | 10 | 4386826 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2700016 | 0.210745 | 0.580163 | 9.174018 | 2.22E-05 | 0.001157 | 3.311642 | 0.474791 | 0.685536 | -0.21074 | 5 | 91633920 | F | II | | IGR | opensea | IGR-opense | | rs1505382 | 1 |
| cg0738337 | 0.279952 | 0.463409 | 9.172074 | 2.22E-05 | 0.001158 | 3.310091 | 0.323433 | 0.603385 | -0.27995 | 7 | 40766405 | R | II | SUGCT | Body | opensea | Body-open | | rs1875599 | 1 |
| cg1457836 | 0.205712 | 0.76232 | 9.1715 | 2.22E-05 | 0.001159 | 3.309633 | 0.659464 | 0.865176 | -0.20571 | 17 | 42785078 | F | II | DBF4B | TSS1500 | shore | TSS1500-sh | chr17:427 | rs1835658 | 1;7;39 |
| cg1416167 | 0.225095 | 0.644447 | 9.168574 | 2.23E-05 | 0.00116 | 3.307298 | 0.5319 | 0.756995 | -0.22509 | 1 | 32118219 | F | II | COL16A1 | 3'UTR | opensea | 3'UTR-open | | rs1813187 | 28;45 |
| cg2224544 | 0.221584 | 0.626896 | 9.167868 | 2.23E-05 | 0.001161 | 3.306735 | 0.516104 | 0.737688 | -0.22158 | 2 | 2.18E+08 | F | II | DIRC3 | Body | opensea | Body-open | | rs1164498 | 1;31 |
| cg0979936 | 0.20739 | 0.683543 | 9.165826 | 2.23E-05 | 0.001162 | 3.305104 | 0.579848 | 0.787239 | -0.20739 | 20 | 51268046 | F | II | | IGR | opensea | IGR-opense | | rs5594264 | 0;36;39 |
| cg0118670 | 0.203934 | 0.688738 | 9.165661 | 2.23E-05 | 0.001162 | 3.304973 | 0.586771 | 0.790705 | -0.20393 | 6 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs1160596 | 1 |
| cg1566195 | 0.22249 | 0.63639 | 9.165046 | 2.23E-05 | 0.001162 | 3.304481 | 0.525145 | 0.747635 | -0.22249 | 15 | 82172767 | R | II | | IGR | opensea | IGR-opense | | rs1160227 | 2;1 |
| cg0683400 | 0.234328 | 0.569636 | 9.164242 | 2.23E-05 | 0.001163 | 3.30384 | 0.452472 | 0.686799 | -0.23433 | 10 | 22499738 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0405038 | 0.210128 | 0.656039 | 9.163433 | 2.23E-05 | 0.001163 | 3.303194 | 0.550974 | 0.761103 | -0.21013 | 3 | 1.84E+08 | F | II | | IGR | opensea | IGR-opense | | rs5755120 | 0 |
| cg1703664 | 0.231913 | 0.497183 | 9.162868 | 2.24E-05 | 0.001163 | 3.302742 | 0.381226 | 0.613139 | -0.23191 | 3 | 52723544 | F | II | GNL3 | Body | shelf | Body-shelf | chr3:5271 | rs7610171 | 33 |
| cg0562692 | 0.245028 | 0.507409 | 9.162008 | 2.24E-05 | 0.001163 | 3.302055 | 0.384895 | 0.629923 | -0.24503 | 4 | 14362239 | R | II | | IGR | opensea | IGR-opense | | rs5280285 | 41;30 |
| cg1721053 | 0.247089 | 0.582158 | 9.16187 | 2.24E-05 | 0.001163 | 3.301945 | 0.458613 | 0.705702 | -0.24709 | 3 | 1.83E+08 | F | II | MCF2L2 | Body | opensea | Body-open | | rs5675522 | 43 |
| cg1007333 | 0.243666 | 0.44761 | 9.159045 | 2.24E-05 | 0.001164 | 3.299688 | 0.325777 | 0.569443 | -0.24367 | 10 | 89521994 | R | II | ATAD1 | Body | opensea | Body-open | | rs5710980 | 2 |
| cg2070796 | 0.238245 | 0.502044 | 9.159021 | 2.24E-05 | 0.001164 | 3.299669 | 0.382921 | 0.621166 | -0.23825 | 12 | 1.31E+08 | R | II | ADGRD1 | Body | opensea | Body-open | | rs2021903 | 6;4 |
| cg1830353 | 0.237929 | 0.574352 | 9.158954 | 2.24E-05 | 0.001164 | 3.299615 | 0.455388 | 0.693316 | -0.23793 | 5 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs5765614 | 0;11;47;49 |
| cg0359342 | 0.222492 | 0.636735 | 9.158556 | 2.24E-05 | 0.001164 | 3.299298 | 0.525489 | 0.747981 | -0.22249 | 18 | 24337465 | R | II | | IGR | opensea | IGR-opense | | rs527616 | r 43;26;2 |
| cg2084084 | 0.239512 | 0.547805 | 9.15843 | 2.24E-05 | 0.001164 | 3.299197 | 0.428049 | 0.66756 | -0.23951 | 4 | 16025934 | F | II | PROM1 | ExonBnd | opensea | ExonBnd-op | | rs1871160 | 0;1 |
| cg0370108 | 0.229076 | 0.557349 | 9.158329 | 2.24E-05 | 0.001164 | 3.299117 | 0.442811 | 0.671886 | -0.22908 | 8 | 52680434 | R | II | PXDNL | Body | opensea | Body-open | | | |
| cg2075878 | 0.217248 | 0.549286 | 9.158238 | 2.24E-05 | 0.001164 | 3.299044 | 0.440663 | 0.65791 | -0.21725 | 15 | 82206091 | F | II | | IGR | opensea | IGR-opense | | rs1840791 | 1 |
| cg0801418 | 0.217631 | 0.469401 | 9.157821 | 2.24E-05 | 0.001165 | 3.29871 | 0.360586 | 0.578217 | -0.21763 | 6 | 33241594 | R | II | RPS18 | Body | shore | Body-shore | chr6:3323 | rs1178140 | 51;50;36 |
| cg1420804 | 0.215488 | 0.585186 | 9.15751 | 2.25E-05 | 0.001165 | 3.298462 | 0.477443 | 0.69293 | -0.21549 | 15 | 40080369 | F | II | | IGR | opensea | IGR-opense | | rs5737836 | 0;4;39 |
| cg1721097 | 0.206491 | 0.604441 | 9.157202 | 2.25E-05 | 0.001165 | 3.298216 | 0.501196 | 0.707686 | -0.20649 | 21 | 31869664 | F | II | KRTAP19-4 | TSS1500 | opensea | TSS1500-op | | rs1880154 | 1;3;5;16 |
| cg0573010 | 0.206506 | 0.530204 | 9.157159 | 2.25E-05 | 0.001165 | 3.298182 | 0.426951 | 0.633457 | -0.20651 | 3 | 2933815 | F | II | CNTN4 | TSS200 | opensea | TSS200-ope | | rs5684547 | 0;35;37 |
| cg2600384 | 0.243669 | 0.668742 | 9.156807 | 2.25E-05 | 0.001165 | 3.2979 | 0.546907 | 0.790576 | -0.24367 | 5 | 78445588 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2186208 | 0.227256 | 0.539462 | 9.15654 | 2.25E-05 | 0.001165 | 3.297687 | 0.425834 | 0.65309 | -0.22726 | 14 | 77769687 | R | II | POMT2 | Body | opensea | Body-open | | rs8035559 | 29;9;1 |
| cg1546622 | 0.239234 | 0.535077 | 9.155298 | 2.25E-05 | 0.001166 | 3.296694 | 0.41546 | 0.654694 | -0.23923 | 7 | 1.52E+08 | F | II | KMT2C | Body | opensea | Body-open | | rs1841775 | 39;50 |
| cg1750959 | 0.225305 | 0.619438 | 9.155059 | 2.25E-05 | 0.001166 | 3.296503 | 0.506786 | 0.732091 | -0.22531 | 1 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs4459133 | 38;31;1 |
| cg0950702 | 0.210955 | 0.477176 | 9.153119 | 2.25E-05 | 0.001167 | 3.294952 | 0.371699 | 0.582654 | -0.21095 | 13 | 93895610 | R | II | GPC6 | Body | opensea | Body-open | | | |
| cg0246939 | 0.252089 | 0.599479 | 9.152889 | 2.25E-05 | 0.001167 | 3.294768 | 0.473435 | 0.725524 | -0.25209 | 8 | 412261 | R | II | FBXO25 | Body | opensea | Body-open | | rs5674489 | 31 |
| cg2670772 | 0.227013 | 0.558539 | 9.152411 | 2.25E-05 | 0.001167 | 3.294386 | 0.445032 | 0.672046 | -0.22701 | 7 | 1.42E+08 | F | II | CLEC5A | TSS1500 | opensea | TSS1500-op | | rs1381434 | 28;32 |
| cg0457031 | 0.246057 | 0.670269 | 9.149646 | 2.26E-05 | 0.001169 | 3.292175 | 0.547241 | 0.793297 | -0.24606 | 6 | 24776902 | R | II | GMNN | 5'UTR | shore | 5'UTR-shor | chr6:2477 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2611323 | 0.202793 | 0.561694 | 9.149524 | 2.26E-05 | 0.001169 | 3.292078 | 0.460297 | 0.663091 | -0.20279 | 5 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | | rs5484021 | 0 | | | | | |
| cg1351365 | 0.217809 | 0.507922 | 9.149414 | 2.26E-05 | 0.001169 | 3.291989 | 0.399017 | 0.616827 | -0.21781 | 1 | 48671325 | R | II | | IGR | opensea | IGR-opense | | rs1486751 | 45;1 | | | | | |
| cg0626547 | 0.202017 | 0.646415 | 9.149273 | 2.26E-05 | 0.001169 | 3.291877 | 0.545406 | 0.747424 | -0.20202 | 5 | 1.03E+08 | R | II | LOC10246 | Body | opensea | Body-opens | | rs1119039 | 51;4 | | | | | |
| cg1550648 | 0.227679 | 0.570776 | 9.148973 | 2.26E-05 | 0.001169 | 3.291637 | 0.456937 | 0.684616 | -0.22768 | 20 | 14782540 | R | II | MACROD2 | Body | opensea | Body-opens | | rs5397076 | 32;11;1 | | | | | |
| cg0531854 | 0.226389 | 0.604897 | 9.148781 | 2.26E-05 | 0.001169 | 3.291483 | 0.491703 | 0.718092 | -0.22639 | 2 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1648806 | 0.246623 | 0.532357 | 9.148128 | 2.26E-05 | 0.001169 | 3.290961 | 0.409046 | 0.655669 | -0.24662 | 1 | 2.05E+08 | R | II | | IGR | shore | IGR-shore | chr1:20465 | rs5549247 | 32;27 | | | | | |
| cg0250272 | 0.201905 | 0.560371 | 9.147851 | 2.26E-05 | 0.001169 | 3.290739 | 0.459418 | 0.661323 | -0.20191 | 20 | 11780146 | F | II | | IGR | opensea | IGR-opense | | rs1138817 | 25 | | | | | |
| cg1056898 | 0.205306 | 0.63267 | 9.147804 | 2.26E-05 | 0.001169 | 3.290701 | 0.530018 | 0.735323 | -0.20531 | 15 | 80521890 | F | II | LINC01314 | Body | opensea | Body-opens | | rs1487441 | 24;31 | | | | | |
| cg2736706 | 0.232388 | 0.511153 | 9.147108 | 2.26E-05 | 0.00117 | 3.290145 | 0.394959 | 0.627347 | -0.23239 | 15 | 34662635 | F | II | | IGR | shelf | IGR-shelf | chr15:3465 | rs8042929 | 34 | | | | | |
| cg1185691 | 0.214817 | 0.613761 | 9.145823 | 2.27E-05 | 0.00117 | 3.289117 | 0.506352 | 0.721169 | -0.21482 | 5 | 1.6E+08 | F | II | FABP6 | Body | opensea | Body-opens | | rs1120587 | 0;12 | | | | | |
| cg1243958 | 0.207058 | 0.593361 | 9.145822 | 2.27E-05 | 0.00117 | 3.289116 | 0.489832 | 0.69689 | -0.20706 | 2 | 2.17E+08 | F | II | LINC00607 | Body | opensea | Body-opens | | rs5636087 | 1;3;24 | | | | | |
| cg0758636 | 0.243741 | 0.522387 | 9.145656 | 2.27E-05 | 0.00117 | 3.288983 | 0.400517 | 0.644257 | -0.24374 | 17 | 54620995 | R | II | | IGR | opensea | IGR-opense | | rs1493894 | 43;25;11 | | | | | |
| cg2738053 | 0.217128 | 0.57029 | 9.145491 | 2.27E-05 | 0.00117 | 3.288851 | 0.461725 | 0.678854 | -0.21713 | 1 | 1.62E+08 | R | II | NOS1AP | Body | opensea | Body-opens | | rs1820874 | 42;33;2;1 | | | | | |
| cg0483769 | 0.211555 | 0.525756 | 9.145005 | 2.27E-05 | 0.001171 | 3.288462 | 0.419979 | 0.631533 | -0.21155 | 6 | 35742999 | F | II | CLPSL2 | TSS1500 | shore | TSS1500-sh | chr6:3574 | rs1139058 | 0;41 | | | | | |
| cg0335173 | 0.23448 | 0.457381 | 9.144715 | 2.27E-05 | 0.001171 | 3.28823 | 0.340141 | 0.574621 | -0.23448 | 18 | 21717196 | F | II | | IGR | shore | IGR-shore | chr18:217 | rs7949387 | 24 | | | | | |
| cg0999803 | 0.207692 | 0.563226 | 9.144277 | 2.27E-05 | 0.001171 | 3.287879 | 0.45938 | 0.667072 | -0.20769 | 10 | 75654563 | F | II | | IGR | opensea | IGR-opense | | rs5530564 | 36;46 | | | | | |
| cg2324728 | 0.209961 | 0.547375 | 9.144215 | 2.27E-05 | 0.001171 | 3.28783 | 0.442394 | 0.652355 | -0.20996 | 17 | 60937887 | F | II | MIR548W | Body | opensea | Body-opens | | rs1896087 | 23 | | | | | |
| cg1333212 | 0.207962 | 0.615588 | 9.143834 | 2.27E-05 | 0.001171 | 3.287525 | 0.511607 | 0.719568 | -0.20796 | 5 | 1.57E+08 | F | II | CYFIP2 | Body | opensea | Body-opens | | rs1882697 | 1 | | | | | |
| cg1337635 | 0.283798 | 0.48651 | 9.143093 | 2.27E-05 | 0.001171 | 3.286932 | 0.344611 | 0.628409 | -0.2838 | 6 | 87892453 | F | II | ZNF292 | Body | opensea | Body-opens | | rs1178603 | 7;21;32 | | | | | |
| cg0496491 | 0.210542 | 0.543515 | 9.142826 | 2.27E-05 | 0.001171 | 3.286718 | 0.438244 | 0.648786 | -0.21054 | 2 | 1.59E+08 | F | II | CCDC148 | Body | opensea | Body-opens | | rs5667910 | 0;1;45;48;49 | | | | | |
| cg0240039 | 0.207823 | 0.646319 | 9.142424 | 2.27E-05 | 0.001171 | 3.286396 | 0.542408 | 0.750231 | -0.20782 | 10 | 23392945 | R | II | MSRB2 | Body | opensea | Body-opens | | rs1426276 | 18;2 | | | | | |
| cg2091862 | 0.203456 | 0.455441 | 9.140759 | 2.27E-05 | 0.001172 | 3.285064 | 0.353712 | 0.557169 | -0.20346 | 12 | 78800882 | F | II | | IGR | opensea | IGR-opense | | rs1828029 | 1;41 | | | | | |
| cg0218959 | 0.217245 | 0.509986 | 9.140568 | 2.27E-05 | 0.001172 | 3.284911 | 0.401363 | 0.618609 | -0.21725 | 15 | 60881071 | F | II | RORA | Body | shelf | Body-shelf | chr15:6088 | rs5778999 | 5;41 | | | | | |
| cg0135229 | 0.205142 | 0.673638 | 9.139593 | 2.28E-05 | 0.001172 | 3.28413 | 0.571067 | 0.776208 | -0.20514 | 6 | 1.1E+08 | F | II | CCDC162 | TSS1500 | shelf | TSS1500-sh | chr6:1096 | rs1833220 | 19;51 | | | | | |
| cg2568091 | 0.224511 | 0.589572 | 9.139183 | 2.28E-05 | 0.001172 | 3.283802 | 0.477317 | 0.701828 | -0.22451 | 1 | 29288906 | R | II | EPB41 | 5'UTR | opensea | 5'UTR-open | | rs1511929 | 45;43;3 | | | | | |
| cg2102515 | 0.204981 | 0.705483 | 9.139173 | 2.28E-05 | 0.001172 | 3.283794 | 0.602992 | 0.807973 | -0.20498 | 1 | 86901291 | R | II | CLCA2 | Body | opensea | Body-opens | | rs5673549 | 1 | | | | | |
| cg1736307 | 0.204176 | 0.568177 | 9.139052 | 2.28E-05 | 0.001172 | 3.283697 | 0.466089 | 0.670265 | -0.20418 | 5 | 37802433 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0772723 | 0.204891 | 0.536636 | 9.13857 | 2.28E-05 | 0.001173 | 3.283311 | 0.434191 | 0.639081 | -0.20489 | 13 | 46726752 | F | II | LCP1 | Body | opensea | Body-opens | | | | | | | | |
| cg2524096 | 0.226607 | 0.534622 | 9.138083 | 2.28E-05 | 0.001173 | 3.282922 | 0.421318 | 0.647926 | -0.22661 | 4 | 79339974 | R | II | FRAS1 | Body | opensea | Body-opens | | rs1449887 | 48;45;26 | | | | | |
| cg1082900 | 0.214634 | 0.553322 | 9.137306 | 2.28E-05 | 0.001173 | 3.282299 | 0.446005 | 0.660639 | -0.21463 | 14 | 60179825 | F | II | RTN1 | Body | opensea | Body-opens | | rs5530072 | 29 | | | | | |
| cg2744212 | 0.206885 | 0.732768 | 9.136227 | 2.28E-05 | 0.001173 | 3.281435 | 0.629325 | 0.83621 | -0.20689 | 14 | 93043537 | F | II | RIN3 | Body | opensea | Body-opens | | rs5679090 | 38 | | | | | |
| cg0203202 | 0.203383 | 0.638888 | 9.135879 | 2.28E-05 | 0.001174 | 3.281157 | 0.537196 | 0.740579 | -0.20338 | 6 | 1.32E+08 | R | II | ENPP3 | Body | opensea | Body-opens | | rs1875462 | 43;2 | | | | | |
| cg0588739 | 0.221255 | 0.598113 | 9.133574 | 2.29E-05 | 0.001175 | 3.27931 | 0.487485 | 0.70874 | -0.22126 | 3 | 58709278 | F | II | | IGR | opensea | IGR-opense | | rs5555093 | 0;11 | | | | | |
| cg0073860 | 0.215881 | 0.532361 | 9.132348 | 2.29E-05 | 0.001175 | 3.278327 | 0.424421 | 0.640302 | -0.21588 | 6 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs3768844 | 40;12;2 | | | | | |
| cg0322499 | 0.290116 | 0.441388 | 9.131841 | 2.29E-05 | 0.001176 | 3.277921 | 0.29633 | 0.586446 | -0.29012 | 1 | 51750976 | F | II | | IGR | opensea | IGR-opense | | rs5510240 | 11;47 | | | | | |
| cg2731544 | 0.210573 | 0.663226 | 9.131599 | 2.29E-05 | 0.001176 | 3.277728 | 0.55794 | 0.768513 | -0.21057 | 7 | 79770081 | F | II | GNAI1 | 5'UTR | opensea | 5'UTR-open | | rs3769406 | 10 | | | | | |
| cg1384023 | 0.213195 | 0.569008 | 9.130939 | 2.29E-05 | 0.001176 | 3.277198 | 0.462411 | 0.675606 | -0.21319 | 9 | 89218392 | F | II | | IGR | opensea | IGR-opense | | rs5695931 | 19;48 | | | | | |
| cg2752207 | 0.222497 | 0.572663 | 9.130853 | 2.29E-05 | 0.001176 | 3.27713 | 0.461415 | 0.683912 | -0.2225 | 1 | 22290005 | R | II | | IGR | opensea | IGR-opense | | rs3747667 | 20 | | | | | |
| cg0787438 | 0.26488 | 0.558333 | 9.130715 | 2.29E-05 | 0.001176 | 3.277019 | 0.425893 | 0.690773 | -0.26488 | 5 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5399479 | 17 | | | | | |
| cg1028289 | 0.251514 | 0.616218 | 9.130105 | 2.29E-05 | 0.001176 | 3.27653 | 0.490461 | 0.741974 | -0.25151 | 5 | 73611882 | F | II | | IGR | opensea | IGR-opense | | rs5614390 | 46 | | | | | |
| cg2756978 | 0.249268 | 0.508056 | 9.129928 | 2.29E-05 | 0.001176 | 3.276388 | 0.383422 | 0.63269 | -0.24927 | 6 | 27078427 | R | II | | IGR | opensea | IGR-opense | | rs1394768 | 18 | | | | | |
| cg0839874 | 0.225054 | 0.52497 | 9.129465 | 2.29E-05 | 0.001176 | 3.276017 | 0.412443 | 0.637497 | -0.22505 | 9 | 96819093 | R | II | PTPDC1 | 5'UTR | opensea | 5'UTR-open | | rs5487173 | 43;7;1 | | | | | |
| cg1528914 | 0.221216 | 0.456312 | 9.129263 | 2.29E-05 | 0.001176 | 3.275855 | 0.345704 | 0.56692 | -0.22122 | 12 | 91311493 | R | II | LINC00615 | TSS1500 | opensea | TSS1500-op | | rs5279504 | 46;7 | | | | | |
| cg0301729 | 0.216723 | 0.553354 | 9.129193 | 2.29E-05 | 0.001176 | 3.275799 | 0.444992 | 0.661715 | -0.21672 | 11 | 15886708 | R | II | | IGR | opensea | IGR-opense | | rs1470609 | 1 | | | | | |
| cg1403332 | 0.205026 | 0.653346 | 9.127805 | 2.3E-05 | 0.001177 | 3.274687 | 0.550833 | 0.755859 | -0.20503 | 12 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1452936 | 1;39 | | | | | |
| cg2171391 | 0.234718 | 0.507745 | 9.12703 | 2.3E-05 | 0.001177 | 3.274065 | 0.390386 | 0.625103 | -0.23472 | 5 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs1472804 | 35;42 | | | | | |
| cg1693605 | 0.221035 | 0.615408 | 9.126601 | 2.3E-05 | 0.001177 | 3.273721 | 0.504891 | 0.725925 | -0.22103 | 11 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | rs5512982 | 49;46;29;21;10;2;1 | | | | | |
| cg1259425 | 0.281439 | 0.576177 | 9.12659 | 2.3E-05 | 0.001177 | 3.273712 | 0.435457 | 0.716896 | -0.28144 | 17 | 8902590 | R | II | | IGR | shelf | IGR-shelf | chr17:8904 | rs5738899 | 48;40;31;25 | | | | | |
| cg1090352 | 0.241787 | 0.508957 | 9.126211 | 2.3E-05 | 0.001177 | 3.273409 | 0.388064 | 0.629851 | -0.24179 | 5 | 1.57E+08 | F | II | ADAM19 | Body | opensea | Body-opens | | rs7476710 | 28;48 | | | | | |
| cg0826743 | 0.205015 | 0.623879 | 9.126041 | 2.3E-05 | 0.001177 | 3.273272 | 0.521371 | 0.726386 | -0.20502 | 1 | 2.06E+08 | R | II | MFSD4 | Body | opensea | Body-opens | | rs5562286 | 4;1 | | | | | |
| cg2329986 | 0.238824 | 0.590622 | 9.12461 | 2.3E-05 | 0.001178 | 3.272125 | 0.47121 | 0.710034 | -0.23882 | 1 | 53326448 | F | II | ZYG11A | Body | opensea | Body-opens | | rs5273807 | 0;1 | | | | | |
| cg2216303 | 0.217032 | 0.604099 | 9.124429 | 2.3E-05 | 0.001178 | 3.27198 | 0.495583 | 0.712616 | -0.21703 | 4 | 80781490 | R | II | PCAT4 | Body | opensea | Body-opens | | rs7653619 | 46 | | | | | |
| cg2761666 | 0.2487 | 0.480569 | 9.123779 | 2.3E-05 | 0.001178 | 3.271458 | 0.356219 | 0.604919 | -0.2487 | 2 | 1.68E+08 | R | II | | IGR | opensea | IGR-opense | | rs3719208 | 48;2 | | | | | |
| cg1507405 | 0.230135 | 0.594864 | 9.123659 | 2.3E-05 | 0.001178 | 3.271362 | 0.479796 | 0.709931 | -0.23014 | 2 | 2.17E+08 | F | II | LINC00607 | Body | opensea | Body-opens | | rs5375507 | 13 | | | | | |
| cg1861800 | 0.277259 | 0.649429 | 9.122568 | 2.31E-05 | 0.001178 | 3.270488 | 0.510799 | 0.788058 | -0.27726 | 5 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs1851255 | 38 | | | | | |
| cg1121709 | 0.206327 | 0.527902 | 9.121815 | 2.31E-05 | 0.001178 | 3.269883 | 0.424739 | 0.631065 | -0.20633 | 1 | 33560126 | R | II | AZIN2 | Body | opensea | Body-opens | | rs1165054 | 44;15;13;2 | | | | | |
| cg1136292 | 0.201167 | 0.50207 | 9.121346 | 2.31E-05 | 0.001178 | 3.269507 | 0.401486 | 0.602653 | -0.20117 | 16 | 87041023 | F | II | | IGR | opensea | IGR-opense | | rs1152986 | 0;25;29;49 | | | | | |
| cg1189220 | 0.233193 | 0.478739 | 9.120841 | 2.31E-05 | 0.001179 | 3.269102 | 0.362142 | 0.595335 | -0.23319 | 20 | 44572943 | F | II | PCIF1 | Body | shore | Body-shore | chr20:4451 | rs1850555 | 13;26 | | | | | |
| cg1074724 | 0.219494 | 0.387832 | 9.120763 | 2.31E-05 | 0.001179 | 3.269039 | 0.278085 | 0.497579 | -0.21949 | 21 | 45033804 | R | II | HSF2BP | Body | opensea | Body-opens | | rs1403877 | 50;42;36;27;2 | | | | | |
| cg1940336 | 0.214244 | 0.592952 | 9.120074 | 2.31E-05 | 0.001179 | 3.268487 | 0.48583 | 0.700075 | -0.21424 | 5 | 67611940 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2164639 | 0.205445 | 0.609732 | 9.118094 | 2.31E-05 | 0.00118 | 3.266897 | 0.507009 | 0.712454 | -0.20544 | 3 | 23710303 | F | II | | IGR | opensea | IGR-opense | | rs5295698 | 0;1;46;50;51 | | | | | |
| cg0247739 | 0.212732 | 0.603068 | 9.117421 | 2.32E-05 | 0.00118 | 3.266357 | 0.496702 | 0.709434 | -0.21273 | 8 | 1.05E+08 | R | II | DCSTAMP | 5'UTR | opensea | 5'UTR-open | | rs3697949 | 23;1 | | | | | |
| cg1458625 | 0.206675 | 0.557388 | 9.117406 | 2.32E-05 | 0.00118 | 3.266346 | 0.45405 | 0.660725 | -0.20667 | 19 | 43160953 | F | II | | IGR | opensea | IGR-opense | | rs1450077 | 0;27 | | | | | |
| cg0849143 | 0.243143 | 0.519808 | 9.116894 | 2.32E-05 | 0.00118 | 3.265935 | 0.398237 | 0.64138 | -0.24314 | 1 | 78442533 | R | II | FUBP1 | Body | shore | Body-shore | chr1:7844 | | | | | | | |
| cg2426611 | 0.201615 | 0.681595 | 9.116294 | 2.32E-05 | 0.00118 | 3.265454 | 0.580787 | 0.782402 | -0.20162 | 1 | 72263819 | F | II | NEGR1-IT1 | Body | opensea | Body-opens | | rs5434976 | 8 | | | | | |
| cg1387661 | 0.205894 | 0.623447 | 9.114164 | 2.32E-05 | 0.001181 | 3.263743 | 0.5205 | 0.726394 | -0.20589 | 2 | 16999102 | F | II | | IGR | opensea | IGR-opense | | rs1162780 | 0 | | | | | |
| cg2737971 | 0.253609 | 0.549131 | 9.113326 | 2.32E-05 | 0.001181 | 3.263071 | 0.422326 | 0.675935 | -0.25361 | 3 | 16171610 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0628172 | 0.208614 | 0.657807 | 9.112399 | 2.32E-05 | 0.001182 | 3.262327 | 0.5535 | 0.762114 | -0.20861 | 7 | 20686712 | F | II | ABCB5 | TSS1500 | opensea | TSS1500-op | | | | | | | | |
| cg0666507 | 0.240292 | 0.609531 | 9.111372 | 2.33E-05 | 0.001182 | 3.261502 | 0.489385 | 0.729677 | -0.24029 | 14 | 1.01E+08 | R | II | WDR25 | Body | opensea | Body-opens | | rs1475404 | 30 | | | | | |
| cg1776096 | 0.243431 | 0.555729 | 9.11051 | 2.33E-05 | 0.001183 | 3.26081 | 0.434013 | 0.677444 | -0.24343 | 7 | 39012419 | F | II | | IGR | shelf | IGR-shelf | chr7:3901 | rs5274543 | 1;12;13;23 | | | | | |
| cg2668325 | 0.218585 | 0.671745 | 9.110297 | 2.33E-05 | 0.001183 | 3.260638 | 0.562453 | 0.781038 | -0.21859 | 17 | 54802123 | F | I | | IGR | opensea | IGR-opense | | rs5635290 | 16;17;40 | | | | | |
| cg2385185 | 0.235336 | 0.501166 | 9.108358 | 2.33E-05 | 0.001184 | 3.259081 | 0.383498 | 0.618834 | -0.23534 | 15 | 44380216 | R | II | FRMD5 | Body | opensea | Body-opens | | rs5306438 | 48;42 | | | | | |
| cg1301985 | 0.221911 | 0.609369 | 9.108227 | 2.33E-05 | 0.001184 | 3.258976 | 0.498413 | 0.720324 | -0.22191 | 2 | 70945292 | R | II | ADD2 | 5'UTR | opensea | 5'UTR-open | | rs3755361 | 43;30;2 | | | | | |
| cg2626808 | 0.221103 | 0.561152 | 9.108159 | 2.33E-05 | 0.001184 | 3.258921 | 0.450601 | 0.671704 | -0.2211 | 10 | 98117676 | F | II | OPALIN | 5'UTR | opensea | 5'UTR-open | | rs7415364 | 33 | | | | | |
| cg0752192 | 0.205019 | 0.384006 | 9.106666 | 2.33E-05 | 0.001185 | 3.257722 | 0.281497 | 0.486515 | -0.20502 | 5 | 1.4E+08 | R | II | SLC4A9 | Body | shore | Body-shore | chr5:1397 | rs5515573 | 40;8 | | | | | |
| cg0874315 | 0.22726 | 0.692479 | 9.106627 | 2.33E-05 | 0.001185 | 3.257691 | 0.57885 | 0.806109 | -0.22726 | 22 | 36346442 | F | II | RBFOX2 | Body | opensea | Body-opens | | | | | | | | |
| cg0786541 | 0.206965 | 0.734358 | 9.105747 | 2.34E-05 | 0.001185 | 3.256983 | 0.630875 | 0.837841 | -0.20697 | 7 | 22702505 | F | II | LOC40131 | Body | shelf | Body-shelf | chr7:2270 | rs5607884 | 50 | | | | | |
| cg1174230 | 0.220981 | 0.466786 | 9.103918 | 2.34E-05 | 0.001185 | 3.255513 | 0.356296 | 0.577276 | -0.22098 | 6 | 1.68E+08 | F | II | MLLT4 | 5'UTR | shelf | 5'UTR-shelf | chr6:1682 | | | | | | | |
| cg2052907 | 0.201168 | 0.663387 | 9.10386 | 2.34E-05 | 0.001185 | 3.255467 | 0.562803 | 0.763971 | -0.20117 | 4 | 20286834 | R | II | SLIT2 | Body | opensea | Body-opens | | | | | | | | |
| cg1961950 | 0.233046 | 0.421988 | 9.103286 | 2.34E-05 | 0.001186 | 3.255006 | 0.305465 | 0.538511 | -0.23305 | 11 | 85850481 | F | II | | IGR | opensea | IGR-opense | | rs1504211 | 10;30;36;43 | | | | | |
| cg0238494 | 0.241454 | 0.430669 | 9.103159 | 2.34E-05 | 0.001186 | 3.254903 | 0.309942 | 0.551396 | -0.24145 | 3 | 1.96E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1449182 | 0.208734 | 0.582129 | 9.102546 | 2.34E-05 | 0.001186 | 3.254411 | 0.477762 | 0.686496 | -0.20873 | 18 | 36124953 | F | II | | IGR | opensea | IGR-opense | | rs5415594 | 42 | | | | | |
| cg1834540 | 0.207811 | 0.683228 | 9.101803 | 2.34E-05 | 0.001186 | 3.253814 | 0.579322 | 0.787133 | -0.20781 | 4 | 1.52E+08 | R | II | FAM160A1 | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg0879770 | 0.203227 | 0.535663 | 9.101261 | 2.34E-05 | 0.001186 | 3.253378 | 0.434049 | 0.637276 | -0.20323 | 16 | 65692605 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1161645 | 0.252417 | 0.372722 | 9.099903 | 2.35E-05 | 0.001186 | 3.252286 | 0.246514 | 0.498931 | -0.25242 | 4 | 38525723 | R | II | LINC01258 | TSS1500 | opensea | TSS1500-op | | rs1832261 | 33 | | | | | |
| cg0130344 | 0.215358 | 0.658537 | 9.098516 | 2.35E-05 | 0.001187 | 3.251171 | 0.550858 | 0.766215 | -0.21536 | 6 | 1.47E+08 | R | II | ADGB | Body | opensea | Body-opens | | rs1844026 | 48;20;10;1 | | | | | |
| cg1017703 | 0.205217 | 0.452743 | 9.098202 | 2.35E-05 | 0.001187 | 3.250918 | 0.350134 | 0.555351 | -0.20522 | 20 | 47897207 | R | II | C20orf199 | Body | shelf | Body-shelf | chr20:4785 | rs5637059 | 11 | | | | | |
| cg1975451 | 0.257378 | 0.558571 | 9.0956 | 2.35E-05 | 0.001188 | 3.248825 | 0.429882 | 0.68726 | -0.25738 | 2 | 2.25E+08 | F | II | WDFY1 | ExonBnd | opensea | ExonBnd-op | | rs1407775 | 0;2;6 | | | | | |
| cg1636605 | 0.222427 | 0.640395 | 9.094995 | 2.36E-05 | 0.001188 | 3.248339 | 0.529181 | 0.751608 | -0.22243 | 7 | 93365934 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1385884 | 0.216458 | 0.589287 | 9.094746 | 2.36E-05 | 0.001189 | 3.248139 | 0.481058 | 0.697516 | -0.21646 | 10 | 1.29E+08 | R | II | DOCK1 | Body | opensea | Body-opens | | rs2010144 | 49;47 | | | | | |
| cg2029166 | 0.200648 | 0.443059 | 9.094581 | 2.36E-05 | 0.001189 | 3.248006 | 0.342736 | 0.543383 | -0.20065 | 7 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs5576818 | 37 | | | | | |
| cg2319801 | 0.224861 | 0.618476 | 9.094148 | 2.36E-05 | 0.001189 | 3.247658 | 0.506045 | 0.730906 | -0.22486 | 1 | 1.62E+08 | R | II | | IGR | opensea | IGR-opense | | rs1505133 | 46;31;30 | | | | | |
| cg0606759 | 0.224955 | 0.610042 | 9.093666 | 2.36E-05 | 0.001189 | 3.247269 | 0.497564 | 0.722519 | -0.22496 | 4 | 1.77E+08 | R | II | GPM6A | 5'UTR | shelf | 5'UTR-shelf | chr4:1769 | rs5297090 | 2 | | | | | |
| cg2113981 | 0.204252 | 0.72849 | 9.09341 | 2.36E-05 | 0.001189 | 3.247064 | 0.626364 | 0.830616 | -0.20425 | 8 | 75911816 | R | II | CRISPLD1 | TSS1500 | opensea | TSS1500-op | | rs5578140 | 17 | | | | | |
| cg1643668 | 0.218142 | 0.626852 | 9.093346 | 2.36E-05 | 0.001189 | 3.247012 | 0.517781 | 0.735923 | -0.21814 | 1 | 1.86E+08 | F | II | HMCN1 | Body | opensea | Body-opens | | rs5560106 | 0;14;35 | | | | | |
| cg0507523 | 0.210484 | 0.688598 | 9.092984 | 2.36E-05 | 0.001189 | 3.246721 | 0.583356 | 0.793841 | -0.21048 | 6 | 1.26E+08 | R | II | LOC64362 | TSS1500 | opensea | TSS1500-op | | rs6940748 | 34;1 | | | | | |
| cg2368895 | 0.21874 | 0.654578 | 9.09279 | 2.36E-05 | 0.001189 | 3.246565 | 0.545208 | 0.763948 | -0.21874 | 1 | 2.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1128375 | 13;28;48 | | | | | |
| cg0730179 | 0.244405 | 0.39227 | 9.092149 | 2.36E-05 | 0.001189 | 3.246049 | 0.270068 | 0.514473 | -0.24441 | 3 | 1.68E+08 | F | II | LINC01330 | Body | opensea | Body-opens | | rs1491570 | 0;1;51 | | | | | |
| cg2391616 | 0.200797 | 0.53734 | 9.091071 | 2.36E-05 | 0.00119 | 3.245182 | 0.436942 | 0.637739 | -0.2008 | 5 | 59326529 | R | II | PDE4D | Body | opensea | Body-opens | | | | | | | | |
| cg0498924 | 0.216769 | 0.417441 | 9.090163 | 2.36E-05 | 0.00119 | 3.244451 | 0.309056 | 0.525826 | -0.21677 | 2 | 1.39E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg2726697 | 0.21278 | 0.623779 | 9.08982 | 2.37E-05 | 0.00119 | 3.244175 | 0.517389 | 0.730169 | -0.21278 | 3 | 1.24E+08 | F | II | MYLK | 5'UTR | opensea | 5'UTR-open | | rs5585121 | 31 | | | | | |
| cg2064263 | 0.217394 | 0.610523 | 9.089611 | 2.37E-05 | 0.00119 | 3.244007 | 0.501826 | 0.71922 | -0.21739 | 8 | 22846006 | F | II | RHOBTB2 | 5'UTR | opensea | 5'UTR-open | | rs5300857 | 13 | | | | | |
| cg1635485 | 0.229709 | 0.657492 | 9.088551 | 2.37E-05 | 0.00119 | 3.243154 | 0.542637 | 0.772347 | -0.22971 | 12 | 19218990 | F | II | | IGR | opensea | IGR-opense | | rs5481738 | 12 | | | | | |
| cg1435470 | 0.205811 | 0.57471 | 9.087346 | 2.37E-05 | 0.00119 | 3.242183 | 0.471805 | 0.677615 | -0.20581 | 11 | 7985276 | R | II | NLRP10 | TSS1500 | opensea | TSS1500-op | | rs1147846 | 51;25 | | | | | |
| cg0785917 | 0.203163 | 0.556112 | 9.085392 | 2.37E-05 | 0.001191 | 3.24061 | 0.45453 | 0.657693 | -0.20316 | 15 | 57098497 | R | II | | IGR | opensea | IGR-opense | | rs1120718 | 1 | | | | | |
| cg1756448 | 0.215836 | 0.649785 | 9.08469 | 2.37E-05 | 0.001192 | 3.240045 | 0.541867 | 0.757703 | -0.21584 | 12 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs5566322 | 1 | | | | | |
| cg2166463 | 0.257763 | 0.511192 | 9.084453 | 2.38E-05 | 0.001192 | 3.239854 | 0.382311 | 0.640074 | -0.25776 | 3 | 70432664 | R | I | | IGR | opensea | IGR-opense | | rs1820123 | 13;3 | | | | | |
| cg1785186 | 0.255222 | 0.470031 | 9.083941 | 2.38E-05 | 0.001192 | 3.239442 | 0.34242 | 0.597642 | -0.25522 | 2 | 58748306 | F | II | | IGR | opensea | IGR-opense | | rs1864157 | 0;3;44 | | | | | |
| cg0315534 | 0.222247 | 0.638999 | 9.079909 | 2.38E-05 | 0.001194 | 3.236194 | 0.527876 | 0.750123 | -0.22225 | 4 | 11642410 | F | II | | IGR | opensea | IGR-opense | | rs3675930 | 21;45 | | | | | |
| cg0502469 | 0.201128 | 0.616799 | 9.07926 | 2.38E-05 | 0.001194 | 3.235671 | 0.516234 | 0.717363 | -0.20113 | 4 | 1.6E+08 | R | II | | IGR | opensea | IGR-opense | | rs5278146 | 28;25;2 | | | | | |
| cg2406791 | 0.250227 | 0.540693 | 9.076158 | 2.39E-05 | 0.001196 | 3.23317 | 0.415579 | 0.665806 | -0.25023 | 6 | 16729610 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg1172047 | 0.20885 | 0.632922 | 9.075539 | 2.39E-05 | 0.001196 | 3.232672 | 0.528497 | 0.737347 | -0.20885 | 1 | 82481416 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1046790 | 0.202248 | 0.667561 | 9.075093 | 2.39E-05 | 0.001196 | 3.232312 | 0.566437 | 0.768685 | -0.20225 | 10 | 1.22E+08 | R | II | LINC01561 | Body | opensea | Body-opens | | rs5305244 | 31;6 | | | | | |
| cg0535941 | 0.21091 | 0.554747 | 9.075006 | 2.39E-05 | 0.001196 | 3.232242 | 0.449292 | 0.660202 | -0.21091 | 1 | 2.08E+08 | R | II | CR1 | Body | opensea | Body-opens | | rs5529182 | 35;1 | | | | | |
| cg0505081 | 0.22079 | 0.484531 | 9.074034 | 2.39E-05 | 0.001197 | 3.231459 | 0.374137 | 0.594926 | -0.22079 | 6 | 42745007 | R | II | | IGR | opensea | IGR-opense | | rs5606735 | 34;33;14 | | | | | |
| cg2638131 | 0.223765 | 0.742997 | 9.073257 | 2.4E-05 | 0.001197 | 3.230832 | 0.631114 | 0.85488 | -0.22377 | 1 | 93042953 | R | II | EVI5 | Body | opensea | Body-opens | | rs5717128 | 5;2 | | | | | |
| cg0087044 | 0.200887 | 0.558818 | 9.072888 | 2.4E-05 | 0.001197 | 3.230534 | 0.458374 | 0.659262 | -0.20089 | 2 | 40508306 | R | II | SLC8A1 | Body | opensea | Body-opens | | rs5623954 | 45;26;7 | | | | | |
| cg0603162 | 0.228951 | 0.599995 | 9.072478 | 2.4E-05 | 0.001197 | 3.230204 | 0.48552 | 0.714471 | -0.22895 | 20 | 35923593 | F | II | MANBAL | 5'UTR | opensea | 5'UTR-open | | | | | | | | |
| cg0946539 | 0.227573 | 0.670633 | 9.07041 | 2.4E-05 | 0.001198 | 3.228536 | 0.556847 | 0.784419 | -0.22757 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs5616773 | 38;2 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0895383 | 0.201884 | 0.484809 | 9.069068 | 2.4E-05 | 0.001199 | 3.227454 | 0.383867 | 0.58575 | -0.20188 | 20 | 56704172 | F | II | | IGR | opensea | IGR-opense | | rs1151134 | 28 |
| cg2637715 | 0.204041 | 0.701847 | 9.068418 | 2.41E-05 | 0.001199 | 3.22693 | 0.599826 | 0.803867 | -0.20404 | 1 | 1.51E+08 | R | II | HORMAD1 | Body | opensea | Body-opens | | rs5876837 | 22 |
| cg2734106 | 0.214939 | 0.583395 | 9.06787 | 2.41E-05 | 0.001199 | 3.226488 | 0.475926 | 0.690864 | -0.21494 | 20 | 10055284 | R | II | SNAP25-AS | Body | opensea | Body-opens | | rs5693178 | 33 |
| cg1256389 | 0.205555 | 0.555725 | 9.067805 | 2.41E-05 | 0.001199 | 3.226435 | 0.452948 | 0.658503 | -0.20555 | 22 | 32978938 | R | II | SYN3 | Body | opensea | Body-opens | | rs5630659 | 49 |
| cg0939011 | 0.223556 | 0.431226 | 9.067104 | 2.41E-05 | 0.001199 | 3.22587 | 0.319448 | 0.543004 | -0.22356 | 1 | 1.97E+08 | F | II | CFH | Body | opensea | Body-opens | | rs1905743 | 12;48 |
| cg0357090 | 0.229473 | 0.614809 | 9.066381 | 2.41E-05 | 0.0012 | 3.225286 | 0.500073 | 0.729546 | -0.22947 | 10 | 7682790 | R | II | ITIH5 | Body | opensea | Body-opens | | rs5705894 | 34;22;1 |
| cg0203986 | 0.227739 | 0.582649 | 9.065246 | 2.41E-05 | 0.0012 | 3.22437 | 0.468779 | 0.696518 | -0.22774 | 10 | 97518677 | F | II | ENTPD1 | Body | opensea | Body-opens | | rs5328523 | 0;22 |
| cg1530636 | 0.215303 | 0.653934 | 9.063898 | 2.41E-05 | 0.001201 | 3.223282 | 0.546282 | 0.761585 | -0.2153 | 1 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs1392161 | 50 |
| cg0053117 | 0.20361 | 0.639072 | 9.063603 | 2.41E-05 | 0.001201 | 3.223044 | 0.537267 | 0.740877 | -0.20361 | 8 | 28814510 | F | II | HMBOX1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1362024 | 0.269424 | 0.450379 | 9.063432 | 2.41E-05 | 0.001201 | 3.222906 | 0.315667 | 0.585091 | -0.26942 | 9 | 1.26E+08 | F | II | DENND1A | Body | opensea | Body-opens | | rs5630428 | 48 |
| cg2515918 | 0.232949 | 0.542602 | 9.063156 | 2.41E-05 | 0.001201 | 3.222683 | 0.426128 | 0.659077 | -0.23295 | 2 | 2.31E+08 | R | II | TRIP12 | Body | opensea | Body-opens | | | |
| cg1420924 | 0.237526 | 0.600031 | 9.06114 | 2.42E-05 | 0.001202 | 3.221056 | 0.481267 | 0.718794 | -0.23753 | 3 | 14307176 | F | II | | IGR | opensea | IGR-opense | | rs5690595 | 31 |
| cg2521788 | 0.213477 | 0.537821 | 9.061051 | 2.42E-05 | 0.001202 | 3.220984 | 0.431082 | 0.64456 | -0.21348 | 19 | 14975658 | R | II | | IGR | opensea | IGR-opense | | rs5425417 | 7;6;2 |
| cg0521867 | 0.2001 | 0.564915 | 9.060742 | 2.42E-05 | 0.001202 | 3.220735 | 0.464865 | 0.664965 | -0.2001 | 6 | 46081541 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0078232 | 0.211471 | 0.616258 | 9.060685 | 2.42E-05 | 0.001202 | 3.220688 | 0.510523 | 0.721994 | -0.21147 | 12 | 30351139 | F | II | | IGR | shelf | IGR-shelf | chr12:303 | rs1482863 | 0 |
| cg0150781 | 0.202698 | 0.476664 | 9.058534 | 2.42E-05 | 0.001202 | 3.218951 | 0.375315 | 0.578014 | -0.2027 | 17 | 8035482 | R | II | | IGR | opensea | IGR-opense | | rs5441448 | 31;27;19 |
| cg1908577 | 0.211783 | 0.685692 | 9.058286 | 2.42E-05 | 0.001202 | 3.218751 | 0.5798 | 0.791584 | -0.21178 | 10 | 90022495 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1379557 | 0.250357 | 0.543448 | 9.058264 | 2.42E-05 | 0.001202 | 3.218734 | 0.418269 | 0.668626 | -0.25036 | 3 | 35747962 | R | II | ARPP21 | Body | opensea | Body-opens | | rs5677037 | 7 |
| cg2219921 | 0.204897 | 0.525071 | 9.056784 | 2.43E-05 | 0.001203 | 3.217539 | 0.422623 | 0.62752 | -0.2049 | 9 | 7569630 | R | II | | IGR | opensea | IGR-opense | | rs1268613 | 22;2;1 |
| cg1889441 | 0.208172 | 0.654795 | 9.055834 | 2.43E-05 | 0.001203 | 3.216771 | 0.550709 | 0.758881 | -0.20817 | 10 | 99053792 | R | II | ARHGAP19 | TSS1500 | shore | TSS1500-sh | chr10:9904 | rs3572887 | 31 |
| cg2644808 | 0.231501 | 0.513219 | 9.055535 | 2.43E-05 | 0.001203 | 3.21653 | 0.397469 | 0.62897 | -0.2315 | 5 | 1.71E+08 | R | II | FBXW11 | Body | opensea | Body-opens | | | |
| cg0935305 | 0.252171 | 0.438505 | 9.055022 | 2.43E-05 | 0.001203 | 3.216115 | 0.312419 | 0.56459 | -0.25217 | 2 | 1.67E+08 | R | II | SCN1A | 3'UTR | opensea | 3'UTR-open | | | |
| cg0391251 | 0.226944 | 0.566454 | 9.053785 | 2.43E-05 | 0.001204 | 3.215115 | 0.452982 | 0.679926 | -0.22694 | 8 | 19221205 | R | II | SH2D4A | Body | opensea | Body-opens | | | |
| cg0829978 | 0.201734 | 0.512291 | 9.052844 | 2.43E-05 | 0.001204 | 3.214356 | 0.411423 | 0.613158 | -0.20173 | 2 | 48920986 | F | II | GTF2A1L | Body | opensea | Body-opens | | rs1875015 | 25 |
| cg2736037 | 0.230906 | 0.616548 | 9.051005 | 2.44E-05 | 0.001205 | 3.212869 | 0.501095 | 0.732001 | -0.23091 | 2 | 1.67E+08 | R | II | | IGR | opensea | IGR-opense | | rs5608819 | 1 |
| cg0881151 | 0.208804 | 0.537828 | 9.049249 | 2.44E-05 | 0.001205 | 3.21145 | 0.433427 | 0.64223 | -0.2088 | 13 | 35043968 | R | II | LINC00457 | Body | opensea | Body-opens | | rs5483855 | 47 |
| cg0570946 | 0.22514 | 0.605789 | 9.049046 | 2.44E-05 | 0.001205 | 3.211286 | 0.493219 | 0.718359 | -0.22514 | 18 | 21794764 | F | II | OSBPL1A | Body | opensea | Body-opens | | rs1424704 | 1;15 |
| cg0207725 | 0.232043 | 0.47293 | 9.049031 | 2.44E-05 | 0.001205 | 3.211274 | 0.356909 | 0.588951 | -0.23204 | 17 | 15133981 | R | II | PMP22 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0718021 | 0.227741 | 0.551824 | 9.048092 | 2.44E-05 | 0.001206 | 3.210514 | 0.437953 | 0.665695 | -0.22774 | 17 | 74557703 | F | II | SNORD1A | TSS200 | shelf | TSS200-she | chr17:745 | rs2021779 | 1;15;18 |
| cg1372021 | 0.224813 | 0.664706 | 9.047901 | 2.44E-05 | 0.001206 | 3.21036 | 0.552299 | 0.777112 | -0.22481 | 6 | 1.28E+08 | R | II | PTPRK | Body | opensea | Body-opens | | rs1463301 | 31;18;1 |
| cg0846138 | 0.215772 | 0.506444 | 9.047619 | 2.44E-05 | 0.001206 | 3.210132 | 0.398558 | 0.614329 | -0.21577 | 12 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs3736354 | 7;49 |
| cg2299056 | 0.221554 | 0.499584 | 9.046906 | 2.45E-05 | 0.001206 | 3.209556 | 0.388807 | 0.610362 | -0.22155 | 9 | 1.2E+08 | R | II | ASTN2 | Body | opensea | Body-opens | | rs1868995 | 1 |
| cg1076599 | 0.221601 | 0.678206 | 9.046145 | 2.45E-05 | 0.001206 | 3.208941 | 0.567405 | 0.789006 | -0.2216 | 15 | 99722217 | R | II | TTC23 | Body | opensea | Body-opens | | rs1512321 | 15;11;8;7 |
| cg0762800 | 0.230131 | 0.543161 | 9.045035 | 2.45E-05 | 0.001207 | 3.208043 | 0.428095 | 0.658226 | -0.23013 | 1 | 61365275 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2085111 | 0.211725 | 0.585694 | 9.043904 | 2.45E-05 | 0.001207 | 3.207128 | 0.479831 | 0.691556 | -0.21172 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs7898632 | 1 |
| cg0086820 | 0.248395 | 0.471073 | 9.043622 | 2.45E-05 | 0.001207 | 3.2069 | 0.346876 | 0.595271 | -0.2484 | 6 | 1.5E+08 | F | II | TAB2 | Body | shore | Body-shore | chr6:1496 | rs1445708 | 34;51 |
| cg1278569 | 0.20319 | 0.599246 | 9.043255 | 2.45E-05 | 0.001208 | 3.206603 | 0.497651 | 0.700842 | -0.20319 | 18 | 57146966 | R | II | CCBE1 | Body | opensea | Body-opens | | rs1789476 | 45;43;1 |
| cg0838841 | 0.244508 | 0.540418 | 9.041867 | 2.46E-05 | 0.001208 | 3.20548 | 0.418165 | 0.662672 | -0.24451 | 2 | 2.26E+08 | R | II | DOCK10 | Body | opensea | Body-opens | | rs5635179 | 7 |
| cg0222857 | 0.227024 | 0.611202 | 9.040702 | 2.46E-05 | 0.001209 | 3.204538 | 0.49769 | 0.724714 | -0.22702 | 12 | 94441067 | R | II | | IGR | opensea | IGR-opense | | rs1388971 | 40 |
| cg1513519 | 0.293903 | 0.649838 | 9.039613 | 2.46E-05 | 0.001209 | 3.203656 | 0.502886 | 0.796789 | -0.2939 | 6 | 1.33E+08 | F | II | VNN2 | Body | opensea | Body-opens | | rs1472691 | 1;4;35;37 |
| cg0431896 | 0.222375 | 0.716669 | 9.038081 | 2.46E-05 | 0.00121 | 3.202417 | 0.605481 | 0.827856 | -0.22237 | 12 | 46005881 | R | II | | IGR | opensea | IGR-opense | | rs1895940 | 19;9;6 |
| cg1761272 | 0.20015 | 0.550926 | 9.03499 | 2.47E-05 | 0.001211 | 3.199915 | 0.450852 | 0.651001 | -0.20015 | 8 | 81235210 | R | II | | IGR | opensea | IGR-opense | | rs5492705 | 42;2;1 |
| cg1766458 | 0.221774 | 0.522978 | 9.034089 | 2.47E-05 | 0.001211 | 3.199186 | 0.412091 | 0.633865 | -0.22177 | 16 | 23853554 | R | II | PRKCB | Body | opensea | Body-opens | | rs7195232 | 35;31;1 |
| cg0548188 | 0.208657 | 0.53447 | 9.034079 | 2.47E-05 | 0.001211 | 3.199177 | 0.430142 | 0.638799 | -0.20866 | 3 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs5666432 | 30;42 |
| cg1273357 | 0.213675 | 0.4116 | 9.033665 | 2.47E-05 | 0.001211 | 3.198842 | 0.304763 | 0.518438 | -0.21367 | 12 | 5261497 | F | II | | IGR | opensea | IGR-opense | | rs1158490 | 0;1;19;44 |
| cg0466172 | 0.236931 | 0.502135 | 9.033403 | 2.47E-05 | 0.001211 | 3.19863 | 0.38367 | 0.620601 | -0.23693 | 5 | 83007630 | F | II | HAPLN1 | 5'UTR | opensea | 5'UTR-open | | rs5496193 | 9;26 |
| cg1354600 | 0.242147 | 0.558936 | 9.030398 | 2.48E-05 | 0.001213 | 3.196197 | 0.437862 | 0.680009 | -0.24215 | 1 | 1.93E+08 | F | II | LINC01031 | Body | opensea | Body-opens | | | |
| cg1854628 | 0.203281 | 0.574952 | 9.029444 | 2.48E-05 | 0.001214 | 3.195424 | 0.473312 | 0.676592 | -0.20328 | 2 | 2.34E+08 | R | II | NGEF | Body | opensea | Body-opens | | rs1878709 | 14 |
| cg1113246 | 0.235439 | 0.584877 | 9.029397 | 2.48E-05 | 0.001214 | 3.195386 | 0.467158 | 0.702597 | -0.23544 | 8 | 1.42E+08 | R | II | PTP4A3 | 5'UTR | shelf | 5'UTR-shelf | chr8:1424 | rs1832582 | 44;26 |
| cg2266603 | 0.259769 | 0.518895 | 9.028685 | 2.48E-05 | 0.001214 | 3.194809 | 0.389011 | 0.64878 | -0.25977 | 1 | 1.5E+08 | F | II | VPS45 | Body | opensea | Body-opens | | rs1419694 | 0;27 |
| cg0528493 | 0.218794 | 0.547921 | 9.027729 | 2.48E-05 | 0.001215 | 3.194034 | 0.438524 | 0.657317 | -0.21879 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2224770 | 0.234389 | 0.630186 | 9.027372 | 2.48E-05 | 0.001215 | 3.193745 | 0.512992 | 0.747381 | -0.23439 | 13 | 39953175 | F | II | LHFP | Body | opensea | Body-opens | | rs1492705 | 3;20;26;39;47 |
| cg0100476 | 0.202671 | 0.580245 | 9.027044 | 2.48E-05 | 0.001215 | 3.193479 | 0.478909 | 0.68158 | -0.20267 | 9 | 34956991 | R | II | KIAA1045 | TSS1500 | shore | TSS1500-sh | chr9:3495 | rs5706344 | 5 |
| cg1294863 | 0.228957 | 0.508989 | 9.026282 | 2.49E-05 | 0.001215 | 3.192862 | 0.394511 | 0.623467 | -0.22896 | 6 | 23891030 | R | II | | IGR | opensea | IGR-opense | | rs3718337 | 34;11;9 |
| cg1008439 | 0.228538 | 0.560115 | 9.026059 | 2.49E-05 | 0.001215 | 3.192681 | 0.445846 | 0.674384 | -0.22854 | 3 | 35822275 | R | II | ARPP21 | Body | opensea | Body-opens | | rs5390510 | 27;18;8 |
| cg0216785 | 0.208872 | 0.581132 | 9.025789 | 2.49E-05 | 0.001215 | 3.192463 | 0.476695 | 0.685568 | -0.20887 | 2 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs1896881 | 32;31;30;12;2 |
| cg2758322 | 0.217636 | 0.61124 | 9.02532 | 2.49E-05 | 0.001215 | 3.192083 | 0.502423 | 0.720058 | -0.21764 | 16 | 3064377 | F | II | CLDN9 | 3'UTR | shore | 3'UTR-shor | chr16:306 | rs5589085 | 48 |
| cg0166344 | 0.232799 | 0.571801 | 9.02481 | 2.49E-05 | 0.001215 | 3.191669 | 0.455402 | 0.688201 | -0.2328 | 12 | 1056096 | R | II | RAD52 | 5'UTR | shelf | 5'UTR-shelf | chr12:105 | rs5578862 | 22 |
| cg1679919 | 0.224262 | 0.591298 | 9.021489 | 2.49E-05 | 0.001217 | 3.188977 | 0.479167 | 0.703429 | -0.22426 | 3 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs1848708 | 47;13;1 |
| cg1668296 | 0.220295 | 0.644985 | 9.019918 | 2.5E-05 | 0.001217 | 3.187704 | 0.534837 | 0.755132 | -0.2203 | 3 | 1.75E+08 | F | II | NAALADL2- | TSS1500 | opensea | TSS1500-o | | rs1437869 | 0;14 |
| cg2116168 | 0.205577 | 0.642409 | 9.019236 | 2.5E-05 | 0.001218 | 3.187151 | 0.53962 | 0.745197 | -0.20558 | 5 | 1.6E+08 | R | II | ATP10B | Body | opensea | Body-opens | | rs5338251 | 42;10;1 |
| cg1545269 | 0.275289 | 0.597897 | 9.018472 | 2.5E-05 | 0.001218 | 3.186531 | 0.460252 | 0.735541 | -0.27529 | 3 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5704379 | 51;47;46;22;11 |
| cg1671876 | 0.216592 | 0.581445 | 9.017423 | 2.5E-05 | 0.001219 | 3.18568 | 0.473149 | 0.689741 | -0.21659 | 3 | 55721067 | R | II | ERC2 | Body | opensea | Body-opens | | | |
| cg1606205 | 0.221789 | 0.685082 | 9.017202 | 2.5E-05 | 0.001219 | 3.185501 | 0.574188 | 0.795977 | -0.22179 | 3 | 1.68E+08 | F | II | MIR551B | TSS1500 | opensea | TSS1500-o | | rs5506286 | 11 |
| cg2583286 | 0.200448 | 0.665009 | 9.016853 | 2.5E-05 | 0.001219 | 3.185218 | 0.564785 | 0.765233 | -0.20045 | 12 | 22952457 | R | II | | IGR | opensea | IGR-opense | | rs5556303 | 48;36;33;7 |
| cg1108772 | 0.246514 | 0.580677 | 9.016109 | 2.5E-05 | 0.00122 | 3.184614 | 0.45742 | 0.703934 | -0.24651 | 5 | 56894899 | R | II | | IGR | opensea | IGR-opense | | rs1136506 | 48 |
| cg1983189 | 0.23087 | 0.692066 | 9.015294 | 2.51E-05 | 0.00122 | 3.183953 | 0.576631 | 0.807501 | -0.23087 | 2 | 37313112 | R | II | GPATCH11 | 5'UTR | shore | 5'UTR-shor | chr2:3731 | rs1505764 | 49;35;2 |
| cg0303542 | 0.258138 | 0.50293 | 9.014662 | 2.51E-05 | 0.00122 | 3.183441 | 0.37386 | 0.631999 | -0.25814 | 2 | 2.02E+08 | R | II | ORC2 | Body | opensea | Body-opens | | | |
| cg2577774 | 0.201658 | 0.650515 | 9.013046 | 2.51E-05 | 0.00122 | 3.182129 | 0.549686 | 0.751344 | -0.20166 | 20 | 55626400 | F | II | | IGR | opensea | IGR-opense | | rs5643636 | 0;22 |
| cg2494268 | 0.23781 | 0.66188 | 9.012911 | 2.51E-05 | 0.00122 | 3.18202 | 0.542975 | 0.780785 | -0.23781 | 13 | 77518644 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1931887 | 0.224841 | 0.549083 | 9.011949 | 2.51E-05 | 0.001221 | 3.181238 | 0.436663 | 0.661504 | -0.22484 | 18 | 5413514 | F | II | EPB41L3 | Body | opensea | Body-opens | | rs5582564 | 2;7;34;40 |
| cg0351582 | 0.204732 | 0.473136 | 9.011809 | 2.51E-05 | 0.001221 | 3.181126 | 0.37077 | 0.575502 | -0.20473 | 7 | 1.34E+08 | F | II | | IGR | opensea | IGR-opense | | rs5742849 | 0;22;34 |
| cg2489195 | 0.224696 | 0.525675 | 9.010358 | 2.52E-05 | 0.001222 | 3.179948 | 0.413327 | 0.638022 | -0.2247 | 19 | 2669059 | F | II | GNG7 | 5'UTR | opensea | 5'UTR-open | | rs5986768 | 32 |
| cg1800663 | 0.248426 | 0.485062 | 9.007812 | 2.52E-05 | 0.001223 | 3.177881 | 0.360849 | 0.609275 | -0.24843 | 4 | 89713820 | F | II | FAM13A | Body | opensea | Body-opens | | | |
| cg1416162 | 0.203825 | 0.761577 | 9.007777 | 2.52E-05 | 0.001223 | 3.177852 | 0.659664 | 0.863489 | -0.20383 | 1 | 1.75E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg2507933 | 0.23216 | 0.654649 | 9.007207 | 2.52E-05 | 0.001223 | 3.177389 | 0.538569 | 0.770729 | -0.23216 | 8 | 1.28E+08 | F | II | PRNCR1 | Body | opensea | Body-opens | | rs5596037 | 13;23;47 |
| cg2259067 | 0.217363 | 0.612822 | 9.006524 | 2.52E-05 | 0.001223 | 3.176835 | 0.50414 | 0.721503 | -0.21736 | 5 | 1.45E+08 | F | II | SH3RF2 | Body | opensea | Body-opens | | rs5577051 | 0;5;18 |
| cg1083207 | 0.2244 | 0.476042 | 9.006517 | 2.52E-05 | 0.001223 | 3.176829 | 0.363842 | 0.588241 | -0.2244 | 12 | 21418929 | F | II | SLCO1A2 | 3'UTR | opensea | 3'UTR-open | | rs5359474 | 1;10;40 |
| cg1441989 | 0.207329 | 0.594199 | 9.005744 | 2.53E-05 | 0.001224 | 3.176201 | 0.490534 | 0.697863 | -0.20733 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs5277616 | 27;1 |
| cg1968802 | 0.2135 | 0.676664 | 9.005447 | 2.53E-05 | 0.001224 | 3.17596 | 0.569914 | 0.783414 | -0.2135 | 14 | 90922528 | R | II | LINC00642 | Body | opensea | Body-opens | | rs5304790 | 32;31;30;18;17;15;14;1 |
| cg0047456 | 0.217183 | 0.421392 | 9.005122 | 2.53E-05 | 0.001224 | 3.175696 | 0.312801 | 0.529984 | -0.21718 | 6 | 1.35E+08 | F | II | SGK1 | Body | opensea | Body-opens | | rs5497521 | 11 |
| cg2202122 | 0.248314 | 0.422799 | 9.00506 | 2.53E-05 | 0.001224 | 3.175646 | 0.298642 | 0.546956 | -0.24831 | 8 | 43015521 | F | II | HGSNAT | Body | opensea | Body-opens | | rs3700179 | 0;22 |
| cg2461313 | 0.270132 | 0.469674 | 9.004832 | 2.53E-05 | 0.001224 | 3.175461 | 0.334608 | 0.60474 | -0.27013 | 8 | 1.29E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2563552 | 0.206767 | 0.601808 | 9.004059 | 2.53E-05 | 0.001224 | 3.174833 | 0.498425 | 0.705192 | -0.20677 | 2 | 2.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs1862718 | 1;44 |
| cg1929346 | 0.205077 | 0.534416 | 9.003276 | 2.53E-05 | 0.001224 | 3.174197 | 0.431878 | 0.636955 | -0.20508 | 17 | 1973400 | F | I | SMG6 | Body | opensea | Body-opens | | rs5709369 | 16;44 |
| cg1017954 | 0.237811 | 0.597875 | 9.003047 | 2.53E-05 | 0.001224 | 3.174011 | 0.47897 | 0.716781 | -0.23781 | 20 | 43177026 | R | II | PKIG | 5'UTR | opensea | 5'UTR-open | | | |
| cg2234576 | 0.218064 | 0.649191 | 9.002918 | 2.53E-05 | 0.001224 | 3.173906 | 0.540159 | 0.758223 | -0.21806 | 3 | 37614806 | R | II | ITGA9 | Body | opensea | Body-opens | | rs5718780 | 46;40;20;1 |
| cg0102030 | 0.202289 | 0.547415 | 9.002874 | 2.53E-05 | 0.001224 | 3.17387 | 0.446271 | 0.64856 | -0.20229 | 8 | 1.03E+08 | R | II | GRHL2 | 3'UTR | opensea | 3'UTR-open | | rs5452438 | 1 |
| cg2764885 | 0.216353 | 0.654342 | 8.997785 | 2.54E-05 | 0.001227 | 3.169735 | 0.546166 | 0.762519 | -0.21635 | 1 | 2.48E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0224198 | 0.205966 | 0.433332 | 8.997451 | 2.54E-05 | 0.001227 | 3.169464 | 0.330349 | 0.536315 | -0.20597 | 10 | 5566543 | R | II | CALML3 | TSS1500 | shore | TSS1500-sh | chr10:5567 | rs5377631 | 19 |
| cg1998085 | 0.24173 | 0.576377 | 8.994838 | 2.55E-05 | 0.001228 | 3.16734 | 0.455512 | 0.697242 | -0.24173 | 9 | 84947928 | F | II | | IGR | opensea | IGR-opense | | rs1512624 | 9 |
| cg1394377 | 0.215411 | 0.558699 | 8.994832 | 2.55E-05 | 0.001228 | 3.167335 | 0.450994 | 0.666405 | -0.21541 | 3 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2442772 | 0.24596 | 0.555363 | 8.994791 | 2.55E-05 | 0.001228 | 3.167301 | 0.432384 | 0.678343 | -0.24596 | 12 | 6234257 | F | II | VWF | TSS1500 | opensea | TSS1500-o | | rs6175044 | 1;44 |
| cg2037253 | 0.22071 | 0.623377 | 8.993392 | 2.55E-05 | 0.001228 | 3.166164 | 0.513022 | 0.733732 | -0.22071 | 1 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | rs5504320 | 45 |
| cg2125094 | 0.242084 | 0.531974 | 8.99269 | 2.55E-05 | 0.001228 | 3.165593 | 0.410932 | 0.653016 | -0.24208 | 3 | 24181646 | F | II | THRB | Body | opensea | Body-opens | | rs5681678 | 26 |
| cg1904007 | 0.207431 | 0.488508 | 8.989921 | 2.56E-05 | 0.00123 | 3.163341 | 0.384793 | 0.592224 | -0.20743 | 2 | 2.43E+08 | F | II | D2HGDH | Body | opensea | Body-opens | | rs5636153 | 1;6;13;23;34 |
| cg0248580 | 0.232706 | 0.57668 | 8.988062 | 2.56E-05 | 0.001231 | 3.161828 | 0.460327 | 0.693033 | -0.23271 | 15 | 60834343 | F | II | RORA-AS1 | Body | opensea | Body-opens | | rs5460707 | 0;29 |
| cg1936975 | 0.232485 | 0.448926 | 8.98798 | 2.56E-05 | 0.001231 | 3.161762 | 0.332684 | 0.565168 | -0.23248 | 7 | 17442601 | R | II | KCCAT333 | Body | opensea | Body-opens | | | |
| cg0679542 | 0.213518 | 0.578717 | 8.98761 | 2.56E-05 | 0.001231 | 3.16146 | 0.471958 | 0.685477 | -0.21352 | 19 | 43857111 | R | II | CD177 | TSS1500 | opensea | TSS1500-o | | rs5484376 | 38;1 |
| cg0210038 | 0.20957 | 0.497989 | 8.987509 | 2.56E-05 | 0.001231 | 3.161379 | 0.393204 | 0.602774 | -0.20957 | 13 | 1.11E+08 | F | II | COL4A2 | Body | opensea | Body-opens | | rs1886978 | 0;19;49 |
| cg2307339 | 0.210316 | 0.645881 | 8.986292 | 2.56E-05 | 0.001231 | 3.160388 | 0.540723 | 0.751039 | -0.21032 | 4 | 71740118 | R | II | | IGR | opensea | IGR-opense | | rs5502072 | 1 |
| cg1033721 | 0.20539 | 0.6254 | 8.985882 | 2.56E-05 | 0.001231 | 3.160054 | 0.522705 | 0.728095 | -0.20539 | 8 | 89970130 | F | II | | IGR | opensea | IGR-opense | | rs1901400 | 5;19;45 |
| cg0896830 | 0.247844 | 0.600789 | 8.985829 | 2.56E-05 | 0.001231 | 3.160012 | 0.476867 | 0.724711 | -0.24784 | 6 | 97098046 | R | II | | IGR | opensea | IGR-opense | | rs5610783 | 37;31;22;6;2 |
| cg2166747 | 0.207888 | 0.674818 | 8.984468 | 2.57E-05 | 0.001232 | 3.158904 | 0.570874 | 0.778762 | -0.20789 | 4 | 15716937 | F | II | BST1 | Body | opensea | Body-opens | | rs2021514 | 0 |
| cg0912761 | 0.236016 | 0.63907 | 8.984056 | 2.57E-05 | 0.001232 | 3.158568 | 0.521062 | 0.757078 | -0.23602 | 5 | 58551379 | F | II | PDE4D | Body | opensea | Body-opens | | | |
| cg1731687 | 0.215434 | 0.515664 | 8.982622 | 2.57E-05 | 0.001233 | 3.157401 | 0.407947 | 0.623381 | -0.21543 | 12 | 1.23E+08 | R | II | PITPNM2 | Body | shelf | Body-shelf | chr12:123 | rs5374403 | 44;31;2 |
| cg0578358 | 0.223775 | 0.619382 | 8.982575 | 2.57E-05 | 0.001233 | 3.157363 | 0.507494 | 0.731269 | -0.22378 | 1 | 2.01E+08 | F | II | TMEM9 | Body | opensea | Body-opens | | | |
| cg0510486 | 0.201368 | 0.682805 | 8.982202 | 2.57E-05 | 0.001233 | 3.157059 | 0.58212 | 0.783489 | -0.20137 | 4 | 1.7E+08 | R | II | SH3RF1 | Body | opensea | Body-opens | | rs5643051 | 33 |
| cg0037224 | 0.202993 | 0.550914 | 8.981915 | 2.57E-05 | 0.001233 | 3.156826 | 0.449417 | 0.65241 | -0.20299 | 4 | 1.86E+08 | F | II | ACSL1 | 5'UTR | shore | 5'UTR-shor | chr4:1857 | rs5429250 | 4 |
| cg2417631 | 0.20736 | 0.56628 | 8.98136 | 2.57E-05 | 0.001234 | 3.156374 | 0.4626 | 0.66996 | -0.20736 | 8 | 94495440 | R | II | LINC00535 | Body | opensea | Body-opens | | rs5594403 | 27 |
| cg0899990 | 0.227383 | 0.535583 | 8.980848 | 2.57E-05 | 0.001234 | 3.155957 | 0.421891 | 0.649274 | -0.22738 | 12 | 91331583 | F | II | LINC00615 | Body | opensea | Body-opens | | rs1474119 | 0 |
| cg0314653 | 0.21143 | 0.676975 | 8.97962 | 2.58E-05 | 0.001234 | 3.154957 | 0.571259 | 0.78269 | -0.21143 | 4 | 74587910 | R | II | | IGR | opensea | IGR-opense | | rs5318357 | 16;1 |
| cg1612803 | 0.230533 | 0.474943 | 8.977927 | 2.58E-05 | 0.001235 | 3.153578 | 0.359676 | 0.590209 | -0.23053 | 3 | 53664611 | F | II | CACNA1D | Body | opensea | Body-opens | | rs1387787 | 22 |
| cg1591565 | 0.220796 | 0.736393 | 8.976572 | 2.58E-05 | 0.001235 | 3.152474 | 0.625995 | 0.846791 | -0.2208 | 11 | 65262358 | F | II | | IGR | shelf | IGR-shelf | chr11:652 | rs5521616 | 9 |
| cg0494922 | 0.255303 | 0.508285 | 8.975732 | 2.59E-05 | 0.001235 | 3.15179 | 0.380633 | 0.635936 | -0.2553 | 13 | 50796845 | F | II | | IGR | opensea | IGR-opense | | rs5384783 | 0;8;21;24 |
| cg0749824 | 0.207183 | 0.647061 | 8.975605 | 2.59E-05 | 0.001235 | 3.151686 | 0.543469 | 0.750652 | -0.20718 | 2 | 2E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:2004 | | |
| cg0567437 | 0.215412 | 0.412135 | 8.975509 | 2.59E-05 | 0.001235 | 3.151608 | 0.304429 | 0.519841 | -0.21541 | 20 | 43275684 | R | II | ADA | Body | opensea | Body-opens | | | |
| cg2478129 | 0.20456 | 0.436713 | 8.974983 | 2.59E-05 | 0.001235 | 3.15118 | 0.334433 | 0.538993 | -0.20456 | 9 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5638965 | 43;18;5 |
| cg1570253 | 0.248278 | 0.50896 | 8.974056 | 2.59E-05 | 0.001236 | 3.150424 | 0.384821 | 0.633099 | -0.24828 | 5 | 1.27E+08 | R | II | MEGF10 | Body | opensea | Body-opens | | rs31483;rs | 45;33;31;26;17 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1338251 | 0.228636 | 0.640351 | 8.972806 | 2.59E-05 | 0.001236 | 3.149406 | 0.526033 | 0.754669 | -0.22864 | 10 | 52336353 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5513262 | 51;48;41;25 |
| cg1905435 | 0.204003 | 0.618619 | 8.971959 | 2.59E-05 | 0.001236 | 3.148715 | 0.516617 | 0.720621 | -0.204 | 5 | 78219426 | R | II | ARSB | Body | opensea | Body-open | | rs1866801 | 51;20;2;1 |
| cg1957470 | 0.213162 | 0.571872 | 8.971408 | 2.59E-05 | 0.001237 | 3.148266 | 0.465291 | 0.678453 | -0.21316 | 12 | 67490706 | F | II | LOC10272 | TSS1500 | opensea | TSS1500-o | | rs5491007 | 4;46 |
| cg2102646 | 0.20832 | 0.581273 | 8.970935 | 2.59E-05 | 0.001237 | 3.147881 | 0.477113 | 0.685434 | -0.20832 | 3 | 13539059 | F | II | HDAC11 | Body | opensea | Body-open | | rs3683436 | 8 |
| cg1606620 | 0.206799 | 0.530036 | 8.970779 | 2.6E-05 | 0.001237 | 3.147754 | 0.426636 | 0.633435 | -0.2068 | 9 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs1868457 | 36;39;51 |
| cg2280968 | 0.238647 | 0.559743 | 8.969584 | 2.6E-05 | 0.001237 | 3.146779 | 0.440419 | 0.679066 | -0.23865 | 1 | 1.83E+08 | F | II | LAMC1 | Body | opensea | Body-open | | rs1463331 | 20;29 |
| cg0769425 | 0.21824 | 0.603843 | 8.969534 | 2.6E-05 | 0.001237 | 3.146739 | 0.494723 | 0.712963 | -0.21824 | 8 | 1.08E+08 | R | II | ANGPT1 | Body | opensea | Body-open | | rs2837370 | 44;30;16;1 |
| cg1226215 | 0.207691 | 0.592932 | 8.968392 | 2.6E-05 | 0.001238 | 3.145808 | 0.489087 | 0.696778 | -0.20769 | 5 | 1.07E+08 | R | II | EFNA5 | Body | opensea | Body-open | | rs5592572 | 49;26;1 |
| cg2720525 | 0.225521 | 0.502478 | 8.967746 | 2.6E-05 | 0.001238 | 3.145281 | 0.389717 | 0.615238 | -0.22552 | 9 | 1536731 | R | II | | IGR | opensea | IGR-opense | | rs1388997 | 46;40;2;1 |
| cg1952840 | 0.212828 | 0.71624 | 8.966781 | 2.6E-05 | 0.001239 | 3.144494 | 0.609826 | 0.822654 | -0.21283 | 5 | 10140142 | R | II | | IGR | opensea | IGR-opense | | rs5495528 | 38;25;1 |
| cg1502903 | 0.217481 | 0.500755 | 8.964391 | 2.61E-05 | 0.00124 | 3.142545 | 0.392015 | 0.609496 | -0.21748 | 4 | 1.47E+08 | R | II | ZNF827 | Body | opensea | Body-open | | rs5540705 | 44;41;2 |
| cg1715162 | 0.203298 | 0.718252 | 8.963491 | 2.61E-05 | 0.00124 | 3.141811 | 0.616603 | 0.819901 | -0.2033 | 3 | 1.86E+08 | R | I | AHSG | TSS1500 | opensea | TSS1500-o | | rs5457082 | 47;43;42;40;14;13;1 |
| cg2445228 | 0.210344 | 0.461852 | 8.963288 | 2.61E-05 | 0.001241 | 3.141645 | 0.35668 | 0.567024 | -0.21034 | 6 | 31542740 | R | II | TNF | TSS1500 | opensea | TSS1500-o | | rs4248160 | 49 |
| cg0248893 | 0.216274 | 0.396514 | 8.963236 | 2.61E-05 | 0.001241 | 3.141602 | 0.288377 | 0.50465 | -0.21627 | 1 | 1.56E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:1564 | | |
| cg2459849 | 0.239599 | 0.473223 | 8.961835 | 2.61E-05 | 0.001241 | 3.14046 | 0.353423 | 0.593022 | -0.2396 | 13 | 37064804 | F | II | | IGR | opensea | IGR-opense | | rs1381921 | 1;13;41 |
| cg1340870 | 0.201003 | 0.60492 | 8.961825 | 2.61E-05 | 0.001241 | 3.140451 | 0.504418 | 0.705421 | -0.201 | 1 | 59664430 | F | II | | IGR | opensea | IGR-opense | | rs1848312 | 19 |
| cg0256897 | 0.228507 | 0.63404 | 8.960394 | 2.62E-05 | 0.001242 | 3.139283 | 0.519786 | 0.748293 | -0.22851 | 7 | 36320660 | R | II | EEPD1 | Body | opensea | Body-open | | rs5485360 | 23 |
| cg2462877 | 0.233967 | 0.47053 | 8.960301 | 2.62E-05 | 0.001242 | 3.139208 | 0.353547 | 0.587513 | -0.23397 | 8 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1448584 | 11;20;25;35 |
| cg1674023 | 0.215086 | 0.6275 | 8.959722 | 2.62E-05 | 0.001243 | 3.138735 | 0.519957 | 0.735043 | -0.21509 | 6 | 1.32E+08 | R | II | MED23 | Body | opensea | Body-open | | | |
| cg0762325 | 0.219453 | 0.457724 | 8.959107 | 2.62E-05 | 0.001243 | 3.138234 | 0.347998 | 0.567451 | -0.21945 | 2 | 67518001 | R | II | | IGR | opensea | IGR-opense | | rs5627685 | 43;10;9;1 |
| cg1276277 | 0.219862 | 0.498378 | 8.958756 | 2.62E-05 | 0.001243 | 3.137947 | 0.388447 | 0.608309 | -0.21986 | 19 | 33137590 | F | II | ANKRD27 | Body | opensea | Body-open | | rs1130307 | 1;25;39 |
| cg1362600 | 0.219955 | 0.448498 | 8.958636 | 2.62E-05 | 0.001243 | 3.137849 | 0.33852 | 0.558475 | -0.21995 | 11 | 16177409 | R | II | SOX6 | Body | opensea | Body-open | | | |
| cg2290299 | 0.230465 | 0.643794 | 8.958379 | 2.62E-05 | 0.001243 | 3.137639 | 0.528562 | 0.759027 | -0.23046 | 2 | 70629122 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1235111 | 0.227899 | 0.679074 | 8.958088 | 2.62E-05 | 0.001243 | 3.137402 | 0.565124 | 0.793023 | -0.2279 | 4 | 74853485 | F | II | PPBP | Body | opensea | Body-open | | rs5631200 | 0;1 |
| cg2145658 | 0.231037 | 0.618799 | 8.957957 | 2.62E-05 | 0.001243 | 3.137295 | 0.50328 | 0.734317 | -0.23104 | 8 | 65828722 | F | II | | IGR | opensea | IGR-opense | | rs7823966 | 9 |
| cg0742967 | 0.220135 | 0.630164 | 8.956337 | 2.62E-05 | 0.001244 | 3.135973 | 0.520097 | 0.740232 | -0.22014 | 4 | 1.82E+08 | R | II | | IGR | opensea | IGR-opense | | rs1169853 | 10 |
| cg0347704 | 0.205144 | 0.541446 | 8.955953 | 2.63E-05 | 0.001244 | 3.135659 | 0.438874 | 0.644018 | -0.20514 | 5 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1231687 | 0.224729 | 0.549266 | 8.955915 | 2.63E-05 | 0.001244 | 3.135628 | 0.436902 | 0.661631 | -0.22473 | 1 | 71356710 | R | II | PTGER3 | 3'UTR | opensea | 3'UTR-open | | rs4147114 | 47;20;2 |
| cg0972073 | 0.247624 | 0.523291 | 8.955884 | 2.63E-05 | 0.001244 | 3.135602 | 0.399479 | 0.647103 | -0.24762 | 10 | 1.29E+08 | R | II | DOCK1 | ExonBnd | opensea | ExonBnd-o | | rs1880210 | 17 |
| cg0077666 | 0.205871 | 0.514666 | 8.955541 | 2.63E-05 | 0.001244 | 3.135323 | 0.41173 | 0.617601 | -0.20587 | 2 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs5407897 | 27 |
| cg1760405 | 0.20869 | 0.584212 | 8.954851 | 2.63E-05 | 0.001245 | 3.134759 | 0.479867 | 0.688557 | -0.20869 | 2 | 2.39E+08 | R | II | FAM132B | TSS1500 | shore | TSS1500-sh | chr2:2390 | rs1512462 | 25;2 |
| cg1915617 | 0.200492 | 0.332888 | 8.954431 | 2.63E-05 | 0.001245 | 3.134416 | 0.232643 | 0.433134 | -0.20049 | 17 | 70131300 | R | II | | IGR | opensea | IGR-opense | | rs5419783 | 39;29;2 |
| cg0452039 | 0.208382 | 0.423467 | 8.953329 | 2.63E-05 | 0.001245 | 3.133516 | 0.319276 | 0.527658 | -0.20838 | 5 | 1E+08 | R | II | ST8SIA4 | Body | opensea | Body-open | | rs1385491 | 40 |
| cg0540771 | 0.204565 | 0.566957 | 8.953275 | 2.63E-05 | 0.001245 | 3.133472 | 0.464674 | 0.669239 | -0.20456 | 11 | 45722308 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2254070 | 0.231676 | 0.435447 | 8.952756 | 2.63E-05 | 0.001245 | 3.133049 | 0.319609 | 0.551285 | -0.23168 | 10 | 1.09E+08 | R | II | SORCS1 | Body | opensea | Body-open | | rs1878637 | 6;1 |
| cg1354236 | 0.206603 | 0.544925 | 8.952707 | 2.63E-05 | 0.001245 | 3.133009 | 0.441624 | 0.648227 | -0.2066 | 10 | 95049539 | R | II | | IGR | opensea | IGR-opense | | rs5583929 | 49;34;12;6;2 |
| cg2582767 | 0.257233 | 0.521276 | 8.951076 | 2.64E-05 | 0.001246 | 3.131676 | 0.392659 | 0.649893 | -0.25723 | 17 | 15255513 | F | II | | IGR | opensea | IGR-opense | | rs5677320 | 37;41 |
| cg0382398 | 0.212837 | 0.354048 | 8.94908 | 2.64E-05 | 0.001247 | 3.130045 | 0.24763 | 0.460467 | -0.21284 | 9 | 1E+08 | R | II | TMOD1 | Body | opensea | Body-open | | rs1455096 | 41;40;2 |
| cg0976728 | 0.236182 | 0.617234 | 8.949002 | 2.64E-05 | 0.001247 | 3.129982 | 0.499143 | 0.735325 | -0.23618 | 8 | 1.31E+08 | R | II | CCDC26 | TSS1500 | opensea | TSS1500-o | | rs5707536 | 41;2 |
| cg1041784 | 0.218322 | 0.585565 | 8.944019 | 2.65E-05 | 0.001249 | 3.12591 | 0.476405 | 0.694726 | -0.21832 | 4 | 74375460 | F | II | LOC72804 | ExonBnd | opensea | ExonBnd-o | | rs1093807 | 13;26 |
| cg1494855 | 0.226906 | 0.573055 | 8.942785 | 2.65E-05 | 0.00125 | 3.124901 | 0.459602 | 0.686508 | -0.22691 | 4 | 1.24E+08 | R | II | IL21 | TSS1500 | opensea | TSS1500-o | | rs5512936 | 2;1 |
| cg2287947 | 0.21644 | 0.637475 | 8.942106 | 2.65E-05 | 0.00125 | 3.124345 | 0.529255 | 0.745695 | -0.21644 | 21 | 39114939 | R | II | KCNJ6 | Body | opensea | Body-open | | rs5708659 | 48;40;2 |
| cg0069124 | 0.204701 | 0.615763 | 8.940248 | 2.66E-05 | 0.001251 | 3.122826 | 0.513413 | 0.718113 | -0.2047 | 5 | 36458165 | R | II | | IGR | opensea | IGR-opense | | rs1886378 | 50;42;32 |
| cg0077966 | 0.204124 | 0.685629 | 8.939391 | 2.66E-05 | 0.001252 | 3.122125 | 0.583566 | 0.787691 | -0.20412 | 4 | 1.42E+08 | F | II | RNF150 | Body | opensea | Body-open | | rs5329888 | 31;48 |
| cg1169219 | 0.234771 | 0.632098 | 8.939252 | 2.66E-05 | 0.001252 | 3.122012 | 0.514712 | 0.749484 | -0.23477 | 17 | 53639752 | R | II | | IGR | shore | IGR-shore | chr17:536 | rs1911408 | 38;1 |
| cg1775789 | 0.242088 | 0.505041 | 8.937834 | 2.66E-05 | 0.001253 | 3.120852 | 0.383997 | 0.626085 | -0.24209 | 2 | 1.45E+08 | F | II | ZEB2 | Body | opensea | Body-open | | rs5428056 | 27 |
| cg0763343 | 0.205747 | 0.563507 | 8.937288 | 2.66E-05 | 0.001253 | 3.120405 | 0.460634 | 0.666381 | -0.20575 | 5 | 1.53E+08 | F | II | GRIA1 | TSS1500 | opensea | TSS1500-o | | | |
| cg1431632 | 0.200659 | 0.57386 | 8.936548 | 2.67E-05 | 0.001253 | 3.1198 | 0.47353 | 0.674189 | -0.20066 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1076455 | 0.224286 | 0.525675 | 8.935559 | 2.67E-05 | 0.001254 | 3.118991 | 0.413532 | 0.637818 | -0.22429 | 11 | 12419531 | R | II | PARVA | Body | opensea | Body-open | | rs1818671 | 50;44 |
| cg0279154 | 0.215604 | 0.598236 | 8.934184 | 2.67E-05 | 0.001255 | 3.117866 | 0.490434 | 0.706039 | -0.2156 | 3 | 31777556 | F | II | OSBPL10 | Body | opensea | Body-open | | rs1161721 | 36;43;47 |
| cg2607931 | 0.222019 | 0.536848 | 8.933301 | 2.67E-05 | 0.001255 | 3.117143 | 0.425839 | 0.647857 | -0.22202 | 4 | 1.39E+08 | F | II | LINC00499 | Body | opensea | Body-open | | rs5690028 | 29;39 |
| cg0275174 | 0.211678 | 0.562503 | 8.933203 | 2.67E-05 | 0.001255 | 3.117063 | 0.456664 | 0.668342 | -0.21168 | 6 | 52532536 | R | II | LOC73010 | Body | shelf | Body-shelf | chr6:5252 | | |
| cg1122425 | 0.211318 | 0.502462 | 8.933134 | 2.67E-05 | 0.001255 | 3.117006 | 0.396803 | 0.608121 | -0.21132 | 12 | 6335277 | F | II | CD9 | Body | opensea | Body-open | | rs5636211 | 8 |
| cg2581860 | 0.213325 | 0.547317 | 8.93293 | 2.67E-05 | 0.001255 | 3.11684 | 0.440654 | 0.653979 | -0.21333 | 2 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs1379590 | 51 |
| cg2400671 | 0.209581 | 0.585626 | 8.932647 | 2.67E-05 | 0.001255 | 3.116608 | 0.480836 | 0.690417 | -0.20958 | 3 | 13568212 | F | II | | IGR | opensea | IGR-opense | | rs5347239 | 0;37 |
| cg0163323 | 0.213838 | 0.5073 | 8.93214 | 2.68E-05 | 0.001255 | 3.116193 | 0.400381 | 0.614219 | -0.21384 | 2 | 2.17E+08 | R | II | XRCC5 | Body | opensea | Body-open | | rs5779289 | 12 |
| cg0643387 | 0.214122 | 0.547529 | 8.932017 | 2.68E-05 | 0.001255 | 3.116092 | 0.440468 | 0.65459 | -0.21412 | 9 | 26065861 | R | II | LOC10050 | TSS1500 | opensea | TSS1500-o | | rs5405646 | 26;24;15;1 |
| cg0501860 | 0.20409 | 0.609501 | 8.931561 | 2.68E-05 | 0.001255 | 3.115719 | 0.507456 | 0.711546 | -0.20409 | 9 | 71460554 | F | II | PIP5K1B | Body | opensea | Body-open | | rs5754598 | 1 |
| cg2477800 | 0.212301 | 0.669554 | 8.931198 | 2.68E-05 | 0.001256 | 3.115422 | 0.563404 | 0.775704 | -0.2123 | 2 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs1339259 | 8;45;48 |
| cg0208669 | 0.250634 | 0.522727 | 8.930206 | 2.68E-05 | 0.001256 | 3.114609 | 0.39741 | 0.648044 | -0.25063 | 1 | 56756750 | R | II | | IGR | opensea | IGR-opense | | rs1407779 | 1 |
| cg0685877 | 0.203953 | 0.660172 | 8.929755 | 2.68E-05 | 0.001256 | 3.114241 | 0.558195 | 0.762148 | -0.20395 | 13 | 72364593 | F | II | DACH1 | Body | opensea | Body-open | | | |
| cg1376751 | 0.208241 | 0.383226 | 8.929072 | 2.68E-05 | 0.001257 | 3.113681 | 0.279105 | 0.487346 | -0.20824 | 3 | 1.73E+08 | R | II | SPATA16 | Body | opensea | Body-open | | | |
| cg2521560 | 0.21205 | 0.542874 | 8.928805 | 2.68E-05 | 0.001257 | 3.113463 | 0.436849 | 0.648899 | -0.21205 | 10 | 44820772 | F | II | | IGR | opensea | IGR-opense | | rs7956674 | 25 |
| cg0825073 | 0.23351 | 0.643226 | 8.927676 | 2.68E-05 | 0.001257 | 3.112538 | 0.526471 | 0.759981 | -0.23351 | 5 | 73772012 | R | II | | IGR | opensea | IGR-opense | | rs5729064 | 28;23;14;8;1 |
| cg1447432 | 0.220402 | 0.485515 | 8.92669 | 2.69E-05 | 0.001257 | 3.11173 | 0.375314 | 0.595717 | -0.2204 | 18 | 71303654 | F | II | | IGR | opensea | IGR-opense | | rs1473913 | 16 |
| cg0063529 | 0.209949 | 0.629034 | 8.925976 | 2.69E-05 | 0.001257 | 3.111146 | 0.52406 | 0.734009 | -0.20995 | 1 | 68850147 | F | II | | IGR | opensea | IGR-opense | | rs5738757 | 14 |
| cg1280232 | 0.22494 | 0.578828 | 8.924988 | 2.69E-05 | 0.001257 | 3.110336 | 0.466358 | 0.691298 | -0.22494 | 18 | 21032446 | R | II | RIOK3 | TSS1500 | shore | TSS1500-sh | chr18:210 | rs1396406 | 1 |
| cg1415970 | 0.21073 | 0.569945 | 8.924278 | 2.69E-05 | 0.001258 | 3.109756 | 0.46458 | 0.67531 | -0.21073 | 9 | 89580839 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1554257 | 0.23503 | 0.465474 | 8.924195 | 2.69E-05 | 0.001258 | 3.109687 | 0.347959 | 0.582989 | -0.23503 | 6 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0875680 | 0.218947 | 0.557591 | 8.924166 | 2.69E-05 | 0.001258 | 3.109663 | 0.448117 | 0.667064 | -0.21895 | 15 | 38087461 | F | II | | IGR | opensea | IGR-opense | | rs5555044 | 1;29;32;51 |
| cg2611047 | 0.207583 | 0.53431 | 8.923817 | 2.69E-05 | 0.001258 | 3.109378 | 0.430519 | 0.638102 | -0.20758 | 11 | 32054712 | R | II | | IGR | opensea | IGR-opense | | rs1925007 | 51;1 |
| cg2279533 | 0.230163 | 0.512543 | 8.923557 | 2.69E-05 | 0.001258 | 3.109164 | 0.397462 | 0.627624 | -0.23016 | 6 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1985875 | 0.200889 | 0.446285 | 8.923286 | 2.69E-05 | 0.001258 | 3.108943 | 0.34584 | 0.546729 | -0.20089 | 5 | 1.56E+08 | F | II | SGCD | Body | opensea | Body-open | | rs5710046 | 0;38;39;49 |
| cg1459752 | 0.208101 | 0.526828 | 8.922042 | 2.7E-05 | 0.001259 | 3.107923 | 0.422777 | 0.630878 | -0.2081 | 6 | 1.67E+08 | F | II | LOC10192 | Body | opensea | Body-open | | rs1918786 | 1;20;34 |
| cg2750929 | 0.228464 | 0.586767 | 8.921805 | 2.7E-05 | 0.001259 | 3.107729 | 0.472535 | 0.700999 | -0.22846 | 6 | 14919597 | R | II | | IGR | opensea | IGR-opense | | rs1812149 | 46;45;2 |
| cg1148391 | 0.228087 | 0.466695 | 8.918218 | 2.7E-05 | 0.001261 | 3.104789 | 0.352651 | 0.580738 | -0.22809 | 3 | 58860839 | F | II | C3orf67 | Body | opensea | Body-open | | rs1163807 | 1 |
| cg1160235 | 0.226016 | 0.740188 | 8.917882 | 2.71E-05 | 0.001261 | 3.104514 | 0.62718 | 0.853196 | -0.22602 | 1 | 78137696 | F | II | ZZZ3 | 5'UTR | opensea | 5'UTR-open | | rs1133918 | 0;18 |
| cg1230517 | 0.206062 | 0.580047 | 8.917165 | 2.71E-05 | 0.001261 | 3.103926 | 0.477016 | 0.683078 | -0.20606 | 16 | 11119093 | R | II | CLEC16A | Body | opensea | Body-open | | rs1903964 | 12;1 |
| cg0079539 | 0.229507 | 0.580987 | 8.916142 | 2.71E-05 | 0.001262 | 3.103087 | 0.466234 | 0.69574 | -0.22951 | 14 | 87113901 | F | II | | IGR | opensea | IGR-opense | | rs5332678 | 8 |
| cg2429475 | 0.249627 | 0.536286 | 8.915234 | 2.71E-05 | 0.001262 | 3.102343 | 0.411472 | 0.661099 | -0.24963 | 12 | 46028329 | F | II | | IGR | opensea | IGR-opense | | rs3744955 | 1;19 |
| cg0862397 | 0.205676 | 0.547963 | 8.914853 | 2.71E-05 | 0.001262 | 3.10203 | 0.445124 | 0.650801 | -0.20568 | 1 | 36936639 | R | II | CSF3R | Body | opensea | Body-open | | rs5543295 | 51;40;20;3;2;1 |
| cg0198853 | 0.219707 | 0.584334 | 8.911703 | 2.72E-05 | 0.001263 | 3.099447 | 0.47448 | 0.694187 | -0.21971 | 8 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs5379764 | 41;2;1 |
| cg1018169 | 0.218723 | 0.655596 | 8.910788 | 2.72E-05 | 0.001264 | 3.098696 | 0.546234 | 0.764958 | -0.21872 | 12 | 58187866 | R | II | TSFM | Body | opensea | Body-open | | | |
| cg2450428 | 0.202092 | 0.653506 | 8.910032 | 2.72E-05 | 0.001264 | 3.098076 | 0.55246 | 0.754552 | -0.20209 | 6 | 32061478 | F | II | TNXB | Body | shelf | Body-shelf | chr6:3206 | rs5666083 | 51 |
| cg2539628 | 0.203117 | 0.345806 | 8.90892 | 2.72E-05 | 0.001264 | 3.097164 | 0.244248 | 0.447365 | -0.20312 | 7 | 17301295 | R | II | | IGR | opensea | IGR-opense | | rs5543470 | 48;10;4 |
| cg1474745 | 0.211823 | 0.41395 | 8.908852 | 2.72E-05 | 0.001264 | 3.097108 | 0.308039 | 0.519862 | -0.21182 | 1 | 40063592 | R | II | | IGR | opensea | IGR-opense | | rs5500148 | 19;1 |
| cg0716158 | 0.215109 | 0.571839 | 8.905787 | 2.73E-05 | 0.001266 | 3.094592 | 0.464285 | 0.679394 | -0.21511 | 3 | 12779524 | F | II | TMEM40 | Body | opensea | Body-open | | | |
| cg1696783 | 0.209518 | 0.642733 | 8.905264 | 2.73E-05 | 0.001267 | 3.094164 | 0.537974 | 0.747492 | -0.20952 | 17 | 79467055 | R | II | | IGR | shore | IGR-shore | chr17:794 | rs1176820 | 50;7 |
| cg1625865 | 0.282708 | 0.509754 | 8.904259 | 2.73E-05 | 0.001267 | 3.093338 | 0.368401 | 0.651108 | -0.28271 | 3 | 29338542 | F | II | RBMS3 | Body | opensea | Body-open | | rs8023379 | 0;27;51 |
| cg0284788 | 0.220097 | 0.690616 | 8.903726 | 2.74E-05 | 0.001267 | 3.092901 | 0.580567 | 0.800664 | -0.2201 | 10 | 13802920 | F | II | FRMD4A | Body | opensea | Body-open | | rs5559958 | 30 |
| cg1289585 | 0.201558 | 0.645298 | 8.903366 | 2.74E-05 | 0.001267 | 3.092605 | 0.544519 | 0.746077 | -0.20156 | 6 | 1.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs1405407 | 27 |
| cg2683801 | 0.220859 | 0.574133 | 8.902985 | 2.74E-05 | 0.001268 | 3.092292 | 0.463703 | 0.684562 | -0.22086 | 4 | 78072602 | F | II | | IGR | opensea | IGR-opense | | rs5583227 | 5;7;40 |
| cg0757275 | 0.241826 | 0.525543 | 8.902925 | 2.74E-05 | 0.001268 | 3.092244 | 0.40463 | 0.646456 | -0.24183 | 2 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs5331996 | 1 |
| cg1901755 | 0.206188 | 0.59165 | 8.901829 | 2.74E-05 | 0.001268 | 3.091343 | 0.488556 | 0.694744 | -0.20619 | 10 | 34817409 | R | II | PARD3 | Body | opensea | Body-open | | rs1826736 | 50 |
| cg1243665 | 0.2119 | 0.564624 | 8.901485 | 2.74E-05 | 0.001269 | 3.091061 | 0.458674 | 0.670574 | -0.2119 | 18 | 20787494 | R | II | CABLES1 | Body | opensea | Body-open | | rs1509924 | 49;39;35;18;8 |
| cg2549106 | 0.222776 | 0.534944 | 8.901383 | 2.74E-05 | 0.001269 | 3.090977 | 0.423556 | 0.646332 | -0.22278 | 15 | 58328952 | F | II | ALDH1A2 | Body | opensea | Body-open | | rs5609434 | 37 |
| cg2402880 | 0.22964 | 0.45562 | 8.901104 | 2.74E-05 | 0.001269 | 3.090748 | 0.340801 | 0.57044 | -0.22964 | 6 | 1.53E+08 | R | II | RGS17 | 5'UTR | opensea | 5'UTR-open | | rs5282674 | 47 |
| cg1614551 | 0.22622 | 0.543671 | 8.900475 | 2.74E-05 | 0.001269 | 3.090232 | 0.430561 | 0.656781 | -0.22622 | 3 | 72772498 | F | II | | IGR | opensea | IGR-opense | | rs5587456 | 1;29;47 |
| cg0371423 | 0.218237 | 0.629358 | 8.898309 | 2.75E-05 | 0.00127 | 3.088452 | 0.52024 | 0.738477 | -0.21824 | 1 | 88066830 | R | II | | IGR | opensea | IGR-opense | | rs1412040 | 40 |
| cg1100785 | 0.205527 | 0.662497 | 8.897334 | 2.75E-05 | 0.00127 | 3.087651 | 0.559734 | 0.765261 | -0.20553 | 2 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs5543523 | 40 |
| cg1579117 | 0.204733 | 0.55327 | 8.896861 | 2.75E-05 | 0.00127 | 3.087262 | 0.450903 | 0.655636 | -0.20473 | 1 | 2.19E+08 | R | II | MIR548F3 | Body | opensea | Body-open | | rs1899741 | 9 |
| cg1249178 | 0.203866 | 0.657691 | 8.895499 | 2.75E-05 | 0.001271 | 3.086143 | 0.555758 | 0.759624 | -0.20387 | 3 | 1.86E+08 | R | II | FETUB | 5'UTR | opensea | 5'UTR-open | | rs5741689 | 43 |
| cg0277746 | 0.211034 | 0.415171 | 8.895359 | 2.75E-05 | 0.001271 | 3.086028 | 0.309654 | 0.520688 | -0.21103 | 13 | 63801462 | F | II | LINC00376 | Body | opensea | Body-open | | | |
| cg1447552 | 0.218352 | 0.558245 | 8.895231 | 2.75E-05 | 0.001271 | 3.085923 | 0.44907 | 0.667421 | -0.21835 | 8 | 43046589 | R | II | HGSNAT | Body | opensea | Body-open | | rs1812906 | 27 |
| cg2104582 | 0.200382 | 0.667942 | 8.894859 | 2.75E-05 | 0.001271 | 3.085618 | 0.567751 | 0.768133 | -0.20038 | 8 | 89310065 | F | II | MMP16 | Body | opensea | Body-open | | rs1491187 | 0;27 |
| cg0522945 | 0.213662 | 0.61293 | 8.894699 | 2.76E-05 | 0.001271 | 3.085486 | 0.506099 | 0.71976 | -0.21366 | 12 | 7985739 | F | II | SLC2A14 | Body | opensea | Body-open | | rs2376906 | 12;13 |
| cg2594725 | 0.247746 | 0.6135 | 8.894427 | 2.76E-05 | 0.001271 | 3.085263 | 0.489626 | 0.737373 | -0.24775 | 20 | 9288423 | R | II | PLCB4 | TSS200 | opensea | TSS200-ope | | | |
| cg0854430 | 0.203908 | 0.57178 | 8.893027 | 2.76E-05 | 0.001272 | 3.084112 | 0.469826 | 0.673734 | -0.20391 | 8 | 28725934 | R | II | INTS9 | 5'UTR | opensea | 5'UTR-open | | rs1814370 | 13;1 |
| cg2157979 | 0.236169 | 0.63853 | 8.89244 | 2.76E-05 | 0.001272 | 3.08363 | 0.520446 | 0.756614 | -0.23617 | 8 | 18577100 | R | II | PSD3 | Body | opensea | Body-open | | rs7768848 | 39;2 |
| cg0205874 | 0.212759 | 0.394654 | 8.889914 | 2.77E-05 | 0.001274 | 3.081553 | 0.288275 | 0.501034 | -0.21276 | 1 | 94724340 | R | II | | IGR | opensea | IGR-opense | | rs1146860 | 8 |
| cg0363282 | 0.2041 | 0.557437 | 8.889069 | 2.77E-05 | 0.001274 | 3.080858 | 0.455387 | 0.659487 | -0.2041 | 4 | 1.7E+08 | R | II | PALLD | Body | opensea | Body-open | | rs5746345 | 48;40 |
| cg2468691 | 0.211074 | 0.469985 | 8.888605 | 2.77E-05 | 0.001274 | 3.080476 | 0.364448 | 0.575522 | -0.21107 | 1 | 2.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs5553421 | 14 |
| cg2082118 | 0.216873 | 0.517905 | 8.887668 | 2.77E-05 | 0.001274 | 3.079706 | 0.409469 | 0.626342 | -0.21687 | 1 | 2E+08 | R | II | | IGR | opensea | IGR-opense | | rs1898721 | 1 |
| cg1258058 | 0.202561 | 0.62551 | 8.887078 | 2.77E-05 | 0.001275 | 3.079221 | 0.524229 | 0.72679 | -0.20256 | 12 | 13759540 | F | II | GRIN2B | Body | opensea | Body-open | | rs1231359 | 15;37;47;48 |
| cg1276764 | 0.201038 | 0.407501 | 8.886962 | 2.77E-05 | 0.001275 | 3.079125 | 0.306982 | 0.50802 | -0.20104 | 18 | 62295302 | F | II | | IGR | opensea | IGR-opense | | rs5606910 | 0;1;20 |
| cg0602383 | 0.242383 | 0.495896 | 8.886523 | 2.77E-05 | 0.001275 | 3.078765 | 0.374704 | 0.617088 | -0.24238 | 10 | 71273679 | F | II | | IGR | opensea | IGR-opense | | rs5513129 | 0;17 |
| cg2653094 | 0.2298 | 0.409441 | 8.885946 | 2.77E-05 | 0.001275 | 3.07829 | 0.294541 | 0.524341 | -0.2298 | 2 | 2.32E+08 | F | II | ARMC9 | Body | shelf | Body-shelf | chr2:2321 | | |
| cg1976181 | 0.240329 | 0.416937 | 8.885446 | 2.78E-05 | 0.001275 | 3.077878 | 0.296772 | 0.537101 | -0.24033 | 18 | 12255836 | R | II | CIDEA | Body | shore | Body-shore | chr18:122 | | |
| cg2014617 | 0.251087 | 0.516163 | 8.885324 | 2.78E-05 | 0.001275 | 3.077778 | 0.39062 | 0.641707 | -0.25109 | 8 | 1.23E+08 | R | II | HAS2 | Body | opensea | Body-open | | rs5386940 | 37;22;17;11 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0176771 | 0.285601 | 0.46932 | 8.885234 | 2.78E-05 | 0.001275 | 3.077704 | 0.32652 | 0.612121 | -0.2856 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1399560 | 0.228573 | 0.532187 | 8.885147 | 2.78E-05 | 0.001275 | 3.077633 | 0.417901 | 0.646473 | -0.22857 | 2 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | rs1841940 | 41;27;10;7 | | | | | |
| cg1458109 | 0.2253 | 0.604509 | 8.883842 | 2.78E-05 | 0.001276 | 3.076559 | 0.491859 | 0.71716 | -0.2253 | 13 | 52520116 | R | II | ATP7B | Body | opensea | Body-opens | | rs5353968 | 46 | | | | | |
| cg0335448 | 0.210104 | 0.591769 | 8.88258 | 2.78E-05 | 0.001277 | 3.07552 | 0.486717 | 0.696821 | -0.2101 | 6 | 20039211 | F | II | | IGR | opensea | IGR-opense | | rs5531747 | 0;30 | | | | | |
| cg0791467 | 0.212246 | 0.642149 | 8.882508 | 2.78E-05 | 0.001277 | 3.075461 | 0.536026 | 0.748272 | -0.21225 | 1 | 1.65E+08 | F | II | LOC400794 | Body | opensea | Body-opens | | | | | | | | |
| cg1255099 | 0.207338 | 0.603838 | 8.882308 | 2.78E-05 | 0.001277 | 3.075297 | 0.500169 | 0.707507 | -0.20734 | 8 | 55318116 | F | II | | IGR | opensea | IGR-opense | | rs5421168 | 26;45;47 | | | | | |
| cg1731113 | 0.213718 | 0.356832 | 8.881477 | 2.78E-05 | 0.001277 | 3.074613 | 0.249973 | 0.463691 | -0.21372 | 12 | 88693546 | R | II | | IGR | opensea | IGR-opense | | rs5493641 | 36;2;1 | | | | | |
| cg0688937 | 0.211556 | 0.680272 | 8.879829 | 2.79E-05 | 0.001278 | 3.073257 | 0.574494 | 0.78605 | -0.21156 | 4 | 1.02E+08 | R | II | PPP3CA | Body | opensea | Body-opens | | rs5703326 | 1 | | | | | |
| cg0379385 | 0.255319 | 0.514995 | 8.879401 | 2.79E-05 | 0.001278 | 3.072904 | 0.387336 | 0.642655 | -0.25532 | 13 | 76867659 | F | II | | IGR | opensea | IGR-opense | | rs5769345 | 5;8;37 | | | | | |
| cg0150020 | 0.238177 | 0.580017 | 8.879196 | 2.79E-05 | 0.001278 | 3.072736 | 0.460928 | 0.699105 | -0.23818 | 10 | 13144314 | R | II | OPTN | 5'UTR | shore | 5'UTR-shor | chr10:131 | rs478911;r | 35;27;26 | | | | | |
| cg0022245 | 0.218501 | 0.482506 | 8.879127 | 2.79E-05 | 0.001278 | 3.072679 | 0.373255 | 0.591756 | -0.2185 | 5 | 1.24E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5644652 | 14 | | | | | |
| cg2464725 | 0.207329 | 0.561006 | 8.877585 | 2.79E-05 | 0.001279 | 3.071409 | 0.457341 | 0.664671 | -0.20733 | 7 | 94997769 | F | II | PON3 | Body | opensea | Body-opens | | rs5822130 | 48 | | | | | |
| cg2054701 | 0.27367 | 0.491091 | 8.877027 | 2.79E-05 | 0.001279 | 3.07095 | 0.354256 | 0.627926 | -0.27367 | 12 | 1.11E+08 | R | II | PPP1CC | Body | opensea | Body-opens | | rs5500907 | 44;32;25;20 | | | | | |
| cg1574120 | 0.20314 | 0.683636 | 8.875598 | 2.8E-05 | 0.001279 | 3.069773 | 0.582066 | 0.785206 | -0.20314 | 8 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0070468 | 0.224229 | 0.611609 | 8.875428 | 2.8E-05 | 0.001279 | 3.069633 | 0.499495 | 0.723724 | -0.22423 | 19 | 30115207 | R | II | | IGR | opensea | IGR-opense | | rs1414310 | 36;24;21;5;4;1 | | | | | |
| cg0640457 | 0.210763 | 0.533046 | 8.875375 | 2.8E-05 | 0.001279 | 3.069589 | 0.427665 | 0.638428 | -0.21076 | 8 | 1.31E+08 | F | II | ASAP1 | Body | shelf | Body-shelf | chr8:1313 | rs1441805 | 1 | | | | | |
| cg1296954 | 0.214654 | 0.584259 | 8.875051 | 2.8E-05 | 0.00128 | 3.069323 | 0.476932 | 0.691586 | -0.21465 | 2 | 35695553 | R | II | | IGR | opensea | IGR-opense | | rs5720417 | 45;43;2 | | | | | |
| cg0285467 | 0.210518 | 0.700764 | 8.874416 | 2.8E-05 | 0.00128 | 3.0688 | 0.595506 | 0.806023 | -0.21052 | 8 | 21000500 | R | II | | IGR | opensea | IGR-opense | | rs1884682 | 49;29;19;7 | | | | | |
| cg1232649 | 0.232267 | 0.52476 | 8.874077 | 2.8E-05 | 0.00128 | 3.068521 | 0.408626 | 0.640894 | -0.23227 | 4 | 91549443 | F | II | CCSER1 | Body | opensea | Body-opens | | rs5708374 | 35;44 | | | | | |
| cg0845233 | 0.204555 | 0.558423 | 8.873921 | 2.8E-05 | 0.00128 | 3.068392 | 0.456145 | 0.6607 | -0.20455 | 2 | 1.42E+08 | F | II | LRP1B | Body | opensea | Body-opens | | rs5724573 | 8;19;29;31;36 | | | | | |
| cg0488514 | 0.249272 | 0.633091 | 8.873122 | 2.8E-05 | 0.00128 | 3.067734 | 0.508455 | 0.757727 | -0.24927 | 9 | 1.1E+08 | R | II | MIR548Q | Body | opensea | Body-opens | | rs5409613 | 2 | | | | | |
| cg0633283 | 0.201711 | 0.520346 | 8.873084 | 2.8E-05 | 0.00128 | 3.067703 | 0.41949 | 0.621201 | -0.20171 | 3 | 13941267 | F | II | | IGR | shelf | IGR-shelf | chr3:1393 | rs5485284 | 21;37 | | | | | |
| cg0881731 | 0.23155 | 0.587243 | 8.872647 | 2.8E-05 | 0.00128 | 3.067343 | 0.471468 | 0.703019 | -0.23155 | 20 | 31903641 | R | II | | IGR | opensea | IGR-opense | | rs1455251 | 22;1 | | | | | |
| cg1819590 | 0.223405 | 0.573562 | 8.872215 | 2.8E-05 | 0.00128 | 3.066987 | 0.461859 | 0.685264 | -0.2234 | 2 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs1902997 | 0;8 | | | | | |
| cg0722341 | 0.2368 | 0.520734 | 8.872203 | 2.8E-05 | 0.00128 | 3.066977 | 0.402334 | 0.639134 | -0.2368 | 2 | 28668934 | F | II | | IGR | opensea | IGR-opense | | rs6752004 | 15 | | | | | |
| cg0047939 | 0.207542 | 0.643413 | 8.871674 | 2.81E-05 | 0.00128 | 3.066541 | 0.539642 | 0.747184 | -0.20754 | 9 | 1E+08 | R | II | LOC10049 | Body | opensea | Body-opens | | rs5691454 | 43 | | | | | |
| cg0057419 | 0.210758 | 0.545769 | 8.871029 | 2.81E-05 | 0.001281 | 3.06601 | 0.44039 | 0.651148 | -0.21076 | 1 | 22137992 | F | II | LDLRAD2 | TSS1500 | shelf | TSS1500-sh | chr1:2214 | rs5570268 | 0;13;30;47 | | | | | |
| cg2614402 | 0.267635 | 0.525238 | 8.870804 | 2.81E-05 | 0.001281 | 3.065825 | 0.39142 | 0.659055 | -0.26764 | 3 | 69047209 | F | II | EOGT | Body | opensea | Body-opens | | rs1473270 | 1;30 | | | | | |
| cg1060029 | 0.245766 | 0.44257 | 8.870226 | 2.81E-05 | 0.001281 | 3.065349 | 0.319687 | 0.565453 | -0.24577 | 20 | 1789945 | F | II | | IGR | opensea | IGR-opense | | rs5665149 | 38 | | | | | |
| cg0550700 | 0.230571 | 0.627114 | 8.870165 | 2.81E-05 | 0.001281 | 3.065298 | 0.511828 | 0.742399 | -0.23057 | 5 | 68728606 | R | II | MARVELD2 | Body | opensea | Body-opens | | | | | | | | |
| cg0363414 | 0.226611 | 0.535525 | 8.870085 | 2.81E-05 | 0.001281 | 3.065232 | 0.422219 | 0.64883 | -0.22661 | 6 | 484044 | R | II | | IGR | opensea | IGR-opense | | rs1869715 | 1 | | | | | |
| cg1519364 | 0.231866 | 0.606034 | 8.869806 | 2.81E-05 | 0.001281 | 3.065002 | 0.490102 | 0.721967 | -0.23187 | 3 | 1.5E+08 | R | II | ANKUB1 | Body | opensea | Body-opens | | rs3750897 | 49;28;2;1 | | | | | |
| cg1884349 | 0.204444 | 0.556414 | 8.868233 | 2.81E-05 | 0.001281 | 3.063706 | 0.454192 | 0.658636 | -0.20444 | 3 | 1.29E+08 | R | II | H1FOO | TSS1500 | opensea | TSS1500-op | | rs1820435 | 9;8 | | | | | |
| cg0808681 | 0.215844 | 0.618216 | 8.867384 | 2.82E-05 | 0.001282 | 3.063007 | 0.510294 | 0.726138 | -0.21584 | 6 | 1.3E+08 | R | II | TMEM244 | TSS1500 | opensea | TSS1500-op | | rs1118835 | 38;36;23;18;2;1 | | | | | |
| cg2302587 | 0.222139 | 0.588025 | 8.866941 | 2.82E-05 | 0.001282 | 3.062641 | 0.476956 | 0.699094 | -0.22214 | 7 | 77487860 | F | II | PHTF2 | Body | opensea | Body-opens | | rs5363026 | 41;41 | | | | | |
| cg1052339 | 0.220567 | 0.463282 | 8.866563 | 2.82E-05 | 0.001282 | 3.06233 | 0.352999 | 0.573565 | -0.22057 | 10 | 12606492 | F | II | CAMK1D | Body | opensea | Body-opens | | | | | | | | |
| cg0700190 | 0.21564 | 0.658393 | 8.866493 | 2.82E-05 | 0.001282 | 3.062272 | 0.550573 | 0.766213 | -0.21564 | 20 | 12160957 | F | II | | IGR | opensea | IGR-opense | | rs5386042 | 33 | | | | | |
| cg1012413 | 0.213146 | 0.513175 | 8.864679 | 2.82E-05 | 0.001283 | 3.060777 | 0.406602 | 0.619749 | -0.21315 | 6 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0284191 | 0.265237 | 0.442454 | 8.864243 | 2.82E-05 | 0.001283 | 3.060417 | 0.309836 | 0.575073 | -0.26524 | 6 | 1.53E+08 | R | II | SYNE1 | 5'UTR | shore | 5'UTR-shor | chr6:1529 | rs5615733 | 22;19;2;1 | | | | | |
| cg0205002 | 0.221366 | 0.563308 | 8.864146 | 2.82E-05 | 0.001283 | 3.060337 | 0.452625 | 0.673991 | -0.22137 | 7 | 43156037 | R | II | HECW1 | 5'UTR | shelf | 5'UTR-shelf | chr7:4315 | rs5330254 | 34 | | | | | |
| cg1090730 | 0.265573 | 0.663611 | 8.863886 | 2.82E-05 | 0.001283 | 3.060123 | 0.530825 | 0.796398 | -0.26557 | 11 | 71852326 | R | II | | IGR | opensea | IGR-opense | | rs5572563 | 34;8 | | | | | |
| cg0288154 | 0.208853 | 0.595083 | 8.862846 | 2.83E-05 | 0.001284 | 3.059265 | 0.490656 | 0.69951 | -0.20885 | 4 | 1.7E+08 | R | II | SH3RF1 | Body | opensea | Body-opens | | | | | | | | |
| cg1386118 | 0.211529 | 0.540248 | 8.860993 | 2.83E-05 | 0.001284 | 3.057738 | 0.434484 | 0.646013 | -0.21153 | 9 | 1.4E+08 | F | II | GRIN1 | Body | shore | Body-shore | chr9:1400 | rs1439268 | 33 | | | | | |
| cg2450930 | 0.215363 | 0.612013 | 8.86067 | 2.83E-05 | 0.001284 | 3.057471 | 0.504331 | 0.719695 | -0.21536 | 2 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0267332 | 0.209788 | 0.673797 | 8.860367 | 2.83E-05 | 0.001284 | 3.057221 | 0.568903 | 0.778691 | -0.20979 | 6 | 8087102 | R | II | EEF1E1 | Body | opensea | Body-opens | | rs5276477 | 16;7;2 | | | | | |
| cg1095405 | 0.233232 | 0.625129 | 8.860149 | 2.83E-05 | 0.001284 | 3.057041 | 0.508513 | 0.741745 | -0.23323 | 15 | 94425363 | R | II | | IGR | opensea | IGR-opense | | rs7498408 | 28;13;1 | | | | | |
| cg0526102 | 0.202714 | 0.619531 | 8.860004 | 2.83E-05 | 0.001284 | 3.056921 | 0.518174 | 0.720887 | -0.20271 | 10 | 55577995 | R | II | PCDH15 | Body | opensea | Body-opens | | rs1159085 | 36;5 | | | | | |
| cg1685850 | 0.219775 | 0.624597 | 8.858534 | 2.83E-05 | 0.001285 | 3.055709 | 0.514709 | 0.734484 | -0.21978 | 11 | 88347154 | F | II | GRM5 | Body | opensea | Body-opens | | rs5370141 | 0;15;23;44 | | | | | |
| cg1223246 | 0.218389 | 0.546932 | 8.858202 | 2.84E-05 | 0.001285 | 3.055435 | 0.437737 | 0.656127 | -0.21839 | 2 | 1.01E+08 | F | II | LONRF2 | Body | opensea | Body-opens | | rs5711136 | 0;1;38 | | | | | |
| cg2234506 | 0.200957 | 0.773136 | 8.857108 | 2.84E-05 | 0.001286 | 3.054533 | 0.672657 | 0.873614 | -0.20096 | 5 | 6795634 | R | II | | IGR | opensea | IGR-opense | | rs5626137 | 29;8 | | | | | |
| cg0368009 | 0.202001 | 0.562704 | 8.856384 | 2.84E-05 | 0.001286 | 3.053935 | 0.461704 | 0.663705 | -0.202 | 6 | 40774214 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg1824717 | 0.22271 | 0.555609 | 8.856116 | 2.84E-05 | 0.001286 | 3.053714 | 0.444253 | 0.666964 | -0.22271 | 22 | 19436867 | F | II | C22orf39 | TSS1500 | shore | TSS1500-sh | chr22:194 | rs5413501 | 10 | | | | | |
| cg1517673 | 0.220157 | 0.577878 | 8.856043 | 2.84E-05 | 0.001286 | 3.053653 | 0.467799 | 0.687956 | -0.22016 | 13 | 29078048 | R | II | | IGR | opensea | IGR-opense | | rs5476535 | 40;4 | | | | | |
| cg0460421 | 0.200181 | 0.530376 | 8.855543 | 2.84E-05 | 0.001286 | 3.053241 | 0.430285 | 0.630466 | -0.20018 | 8 | 1.07E+08 | F | II | ZFPM2 | Body | opensea | Body-opens | | rs1443182 | 0;20;29;30 | | | | | |
| cg1483785 | 0.226487 | 0.425687 | 8.855299 | 2.84E-05 | 0.001286 | 3.05304 | 0.312444 | 0.538931 | -0.22649 | 12 | 54916439 | F | II | NCKAP1L | Body | opensea | Body-opens | | rs1115973 | 19;35;49 | | | | | |
| cg1492413 | 0.247358 | 0.649454 | 8.853063 | 2.85E-05 | 0.001287 | 3.051194 | 0.525775 | 0.773133 | -0.24736 | 13 | 74207962 | R | II | | IGR | opensea | IGR-opense | | rs1829570 | 42;22 | | | | | |
| cg1409115 | 0.235944 | 0.548645 | 8.8528 | 2.85E-05 | 0.001287 | 3.050977 | 0.430673 | 0.666617 | -0.23594 | 4 | 79358764 | F | II | FRAS1 | Body | opensea | Body-opens | | rs5445028 | 33;44 | | | | | |
| cg0595946 | 0.203841 | 0.524114 | 8.852728 | 2.85E-05 | 0.001287 | 3.050918 | 0.422193 | 0.626034 | -0.20384 | 8 | 70064456 | R | II | | IGR | opensea | IGR-opense | | rs1899346 | 45;8 | | | | | |
| cg0844914 | 0.213894 | 0.586625 | 8.852216 | 2.85E-05 | 0.001288 | 3.050495 | 0.479678 | 0.693571 | -0.21389 | 11 | 1857919 | F | II | SYT8 | Body | opensea | Body-opens | | rs1466231 | 0;11;17;31;38 | | | | | |
| cg0242318 | 0.236189 | 0.529443 | 8.851763 | 2.85E-05 | 0.001288 | 3.050121 | 0.411348 | 0.647537 | -0.23619 | 13 | 37337525 | F | II | | IGR | opensea | IGR-opense | | rs5448666 | 16 | | | | | |
| cg0212342 | 0.268649 | 0.411737 | 8.851012 | 2.85E-05 | 0.001288 | 3.049501 | 0.277413 | 0.546062 | -0.26865 | 8 | 74433128 | R | II | STAU2 | Body | opensea | Body-opens | | rs5459806 | 1 | | | | | |
| cg1376036 | 0.211138 | 0.48541 | 8.850918 | 2.85E-05 | 0.001288 | 3.049424 | 0.379841 | 0.59098 | -0.21114 | 15 | 80104644 | R | II | | IGR | opensea | IGR-opense | | rs5743151 | 51 | | | | | |
| cg1530235 | 0.202194 | 0.657939 | 8.850648 | 2.85E-05 | 0.001288 | 3.0492 | 0.556842 | 0.759036 | -0.20219 | 11 | 68180760 | R | II | LRP5 | Body | shore | Body-shore | chr11:681 | rs5716977 | 33;26 | | | | | |
| cg2103874 | 0.208286 | 0.517145 | 8.849321 | 2.86E-05 | 0.001288 | 3.048104 | 0.413002 | 0.621288 | -0.20829 | 2 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0895051 | 0.273652 | 0.564719 | 8.84915 | 2.86E-05 | 0.001288 | 3.047963 | 0.427893 | 0.701545 | -0.27365 | 2 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5540531 | 38;32;3 | | | | | |
| cg2445182 | 0.205293 | 0.497854 | 8.847972 | 2.86E-05 | 0.001288 | 3.046991 | 0.395207 | 0.6005 | -0.20529 | 2 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs1461057 | 37 | | | | | |
| cg1589963 | 0.203913 | 0.634445 | 8.847676 | 2.86E-05 | 0.001288 | 3.046746 | 0.532489 | 0.736402 | -0.20391 | 3 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | rs5704529 | 36;23;12;1 | | | | | |
| cg0365743 | 0.210663 | 0.5056 | 8.847509 | 2.86E-05 | 0.001288 | 3.046608 | 0.400269 | 0.610932 | -0.21066 | 6 | 1.47E+08 | F | II | STXBP5-AS | Body | opensea | Body-opens | | rs1160426 | 8 | | | | | |
| cg2691763 | 0.215596 | 0.405817 | 8.84707 | 2.86E-05 | 0.001289 | 3.046246 | 0.298019 | 0.513615 | -0.2156 | 3 | 1.84E+08 | F | II | | IGR | opensea | IGR-opense | | rs7944696 | 1 | | | | | |
| cg1671069 | 0.233541 | 0.617347 | 8.846387 | 2.86E-05 | 0.001289 | 3.045681 | 0.500576 | 0.734118 | -0.23354 | 11 | 60101357 | R | II | MS4A6E | TSS1500 | opensea | TSS1500-op | | | | | | | | |
| cg2704945 | 0.219276 | 0.531899 | 8.845682 | 2.86E-05 | 0.001289 | 3.045099 | 0.42226 | 0.641537 | -0.21928 | 7 | 37744254 | F | II | | IGR | opensea | IGR-opense | | rs1915094 | 10;27 | | | | | |
| cg1767164 | 0.201852 | 0.577334 | 8.843912 | 2.87E-05 | 0.00129 | 3.043637 | 0.476409 | 0.67826 | -0.20185 | 15 | 27706516 | R | II | GABRG3 | Body | opensea | Body-opens | | | | | | | | |
| cg2317934 | 0.215176 | 0.693728 | 8.84381 | 2.87E-05 | 0.00129 | 3.043553 | 0.58614 | 0.801316 | -0.21518 | 4 | 1E+08 | F | II | ADH7 | TSS1500 | opensea | TSS1500-op | | rs1831506 | 1;2;8 | | | | | |
| cg0618082 | 0.241017 | 0.432932 | 8.84218 | 2.87E-05 | 0.001291 | 3.042205 | 0.312424 | 0.553441 | -0.24102 | 8 | 48812543 | F | II | PRKDC | Body | opensea | Body-opens | | rs1459568 | 0;6 | | | | | |
| cg2734259 | 0.222502 | 0.577271 | 8.841968 | 2.87E-05 | 0.001291 | 3.04203 | 0.46602 | 0.688522 | -0.2225 | 5 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs1146037 | 1 | | | | | |
| cg0564701 | 0.215793 | 0.596289 | 8.840893 | 2.87E-05 | 0.001291 | 3.041142 | 0.488392 | 0.704186 | -0.21579 | 11 | 1.25E+08 | F | II | HEPACAM | TSS1500 | opensea | TSS1500-op | | rs5409619 | 1;9;13;23;24 | | | | | |
| cg1336341 | 0.203197 | 0.566702 | 8.840677 | 2.88E-05 | 0.001292 | 3.040964 | 0.465104 | 0.6683 | -0.2032 | 11 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs5356158 | 1 | | | | | |
| cg2411852 | 0.224852 | 0.552426 | 8.840535 | 2.88E-05 | 0.001292 | 3.040846 | 0.44 | 0.664852 | -0.22485 | 7 | 90397517 | F | II | CDK14 | Body | opensea | Body-opens | | rs1848588 | 0;31 | | | | | |
| cg1567876 | 0.216499 | 0.618565 | 8.839934 | 2.88E-05 | 0.001292 | 3.040349 | 0.510316 | 0.726814 | -0.2165 | 10 | 52287323 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs5283948 | 10;1 | | | | | |
| cg2377685 | 0.212746 | 0.634965 | 8.83991 | 2.88E-05 | 0.001292 | 3.040329 | 0.528592 | 0.741338 | -0.21275 | 2 | 59662053 | F | II | | IGR | opensea | IGR-opense | | rs5562569 | 37 | | | | | |
| cg1437996 | 0.207188 | 0.561206 | 8.839872 | 2.88E-05 | 0.001292 | 3.040298 | 0.457612 | 0.6648 | -0.20719 | 21 | 33968392 | F | II | | IGR | opensea | IGR-opense | | rs5530376 | 43 | | | | | |
| cg2564530 | 0.217907 | 0.500043 | 8.839503 | 2.88E-05 | 0.001292 | 3.039993 | 0.39109 | 0.608997 | -0.21791 | 16 | 67642367 | F | II | CTCF | 5'UTR | opensea | 5'UTR-open | | rs5691246 | 9;38;40 | | | | | |
| cg1058235 | 0.231569 | 0.602794 | 8.838107 | 2.88E-05 | 0.001292 | 3.038839 | 0.487009 | 0.718578 | -0.23157 | 2 | 33090774 | F | II | LINC00486 | Body | opensea | Body-opens | | rs5777335 | 0 | | | | | |
| cg0125426 | 0.225106 | 0.641012 | 8.83439 | 2.89E-05 | 0.001294 | 3.035765 | 0.528459 | 0.753565 | -0.22511 | 6 | 33205676 | F | II | | IGR | opensea | IGR-opense | | rs5501420 | 24;36 | | | | | |
| cg1760134 | 0.214483 | 0.464085 | 8.833984 | 2.89E-05 | 0.001294 | 3.03543 | 0.356843 | 0.571327 | -0.21448 | 7 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs5522345 | 14;2 | | | | | |
| cg2328743 | 0.204219 | 0.618903 | 8.832174 | 2.89E-05 | 0.001295 | 3.033932 | 0.516794 | 0.721013 | -0.20422 | 4 | 57937220 | R | II | IGFBP7 | Body | opensea | Body-opens | | rs1718841 | 51;41;27;24;19;18 | | | | | |
| cg2520248 | 0.224358 | 0.389676 | 8.831676 | 2.9E-05 | 0.001295 | 3.03352 | 0.277497 | 0.501854 | -0.22436 | 9 | 1.12E+08 | F | II | | IGR | opensea | IGR-opense | | rs1858313 | 0 | | | | | |
| cg0307282 | 0.230351 | 0.541934 | 8.831455 | 2.9E-05 | 0.001295 | 3.033337 | 0.426758 | 0.65711 | -0.23035 | 3 | 34612693 | R | II | | IGR | opensea | IGR-opense | | rs1852918 | 40;37;2 | | | | | |
| cg0018289 | 0.236848 | 0.670375 | 8.830804 | 2.9E-05 | 0.001295 | 3.032799 | 0.551951 | 0.788799 | -0.23685 | 6 | 1.4E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0815524 | 0.201333 | 0.650624 | 8.829676 | 2.9E-05 | 0.001295 | 3.031866 | 0.549958 | 0.751291 | -0.20133 | 5 | 72919936 | R | II | | IGR | shore | IGR-shore | chr5:7292 | rs2112161 | 51;49;37;8 | | | | | |
| cg1208496 | 0.218682 | 0.559909 | 8.828761 | 2.9E-05 | 0.001296 | 3.031108 | 0.450568 | 0.669249 | -0.21868 | 7 | 1.07E+08 | F | II | SLC26A4 | ExonBnd | opensea | ExonBnd-op | | rs3777137 | 1;29;30 | | | | | |
| cg1844748 | 0.24219 | 0.581099 | 8.827778 | 2.9E-05 | 0.001296 | 3.030294 | 0.460004 | 0.702194 | -0.24219 | 1 | 1.5E+08 | R | II | PRPF3 | 5'UTR | shore | 5'UTR-shor | chr1:1502 | rs3677403 | 23 | | | | | |
| cg1689846 | 0.212536 | 0.545032 | 8.827386 | 2.91E-05 | 0.001297 | 3.02997 | 0.438764 | 0.6513 | -0.21254 | 13 | 29680394 | R | II | MTUS2 | Body | opensea | Body-opens | | rs5416829 | 40;2;1 | | | | | |
| cg2347501 | 0.209572 | 0.338425 | 8.826864 | 2.91E-05 | 0.001297 | 3.029537 | 0.233639 | 0.44321 | -0.20957 | 3 | 1.24E+08 | R | II | KALRN | Body | opensea | Body-opens | | rs1168113 | 10 | | | | | |
| cg0475031 | 0.213622 | 0.593911 | 8.826243 | 2.91E-05 | 0.001297 | 3.029024 | 0.487099 | 0.700722 | -0.21362 | 1 | 42935595 | F | II | PPCS | Body | opensea | Body-opens | | rs7406844 | 0;16 | | | | | |
| cg0811166 | 0.200128 | 0.425646 | 8.825748 | 2.91E-05 | 0.001297 | 3.028614 | 0.325582 | 0.525709 | -0.20013 | 12 | 2223540 | R | II | CACNA1C | Body | shore | Body-shore | chr12:222 | | | | | | | |
| cg1463074 | 0.201134 | 0.500468 | 8.824503 | 2.91E-05 | 0.001298 | 3.027583 | 0.399901 | 0.601035 | -0.20113 | 3 | 1.8E+08 | R | II | | IGR | opensea | IGR-opense | | rs1879617 | 13 | | | | | |
| cg2270012 | 0.212331 | 0.710401 | 8.824188 | 2.91E-05 | 0.001298 | 3.027322 | 0.604236 | 0.816567 | -0.21233 | 4 | 4272480 | F | II | LYAR | Body | opensea | Body-opens | | rs1093783 | 22 | | | | | |
| cg1386068 | 0.234269 | 0.555109 | 8.823851 | 2.91E-05 | 0.001298 | 3.027043 | 0.437975 | 0.672244 | -0.23427 | 20 | 37650491 | F | II | DHX35 | ExonBnd | opensea | ExonBnd-op | | rs5344168 | 27;28 | | | | | |
| cg1249091 | 0.207563 | 0.732905 | 8.823229 | 2.92E-05 | 0.001298 | 3.026529 | 0.629123 | 0.836686 | -0.20756 | 7 | 6712945 | F | II | | IGR | opensea | IGR-opense | | rs1483039 | 1 | | | | | |
| cg0004551 | 0.239687 | 0.542571 | 8.822756 | 2.92E-05 | 0.001298 | 3.026136 | 0.422727 | 0.662414 | -0.23969 | 20 | 35723332 | F | II | RBL1 | Body | shore | Body-shore | chr20:357 | | | | | | | |
| cg2194598 | 0.226277 | 0.572921 | 8.821533 | 2.92E-05 | 0.001299 | 3.025123 | 0.459783 | 0.68606 | -0.22628 | 4 | 70826695 | F | II | CSN2 | 1stExon | opensea | 1stExon-op | | rs2016252 | 8;12;19;29;42 | | | | | |
| cg2481527 | 0.208601 | 0.482958 | 8.820475 | 2.92E-05 | 0.0013 | 3.024247 | 0.378657 | 0.587258 | -0.2086 | 4 | 23780009 | R | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0818291 | 0.221765 | 0.416353 | 8.820026 | 2.92E-05 | 0.0013 | 3.023876 | 0.305471 | 0.527236 | -0.22177 | 3 | 1.88E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | | |
| cg0724454 | 0.205186 | 0.539207 | 8.818147 | 2.93E-05 | 0.001301 | 3.022319 | 0.436614 | 0.6418 | -0.20519 | 15 | 92983829 | R | II | ST8SIA2 | Body | opensea | Body-opens | | rs5596691 | 35;13;1 | | | | | |
| cg0898748 | 0.218844 | 0.462607 | 8.817165 | 2.93E-05 | 0.001301 | 3.021505 | 0.353185 | 0.572029 | -0.21884 | 1 | 10585305 | R | II | PEX14 | Body | opensea | Body-opens | | rs5475825 | 2 | | | | | |
| cg0019729 | 0.203386 | 0.643594 | 8.816996 | 2.93E-05 | 0.001301 | 3.021365 | 0.541901 | 0.745287 | -0.20339 | 2 | 2870610 | F | II | | IGR | opensea | IGR-opense | | rs5621872 | 26;28;34;35;40 | | | | | |
| cg1116406 | 0.224332 | 0.548387 | 8.816111 | 2.93E-05 | 0.001302 | 3.020632 | 0.43622 | 0.660553 | -0.22433 | 14 | 66171298 | F | II | FUT8 | Body | opensea | Body-opens | | rs5436008 | 8 | | | | | |
| cg1349786 | 0.210149 | 0.569064 | 8.816026 | 2.93E-05 | 0.001302 | 3.020561 | 0.463989 | 0.674138 | -0.21015 | 5 | 9524497 | F | II | SEMA5A | 5'UTR | opensea | 5'UTR-open | | rs5318858 | 1;16;39 | | | | | |
| cg0741526 | 0.223889 | 0.629256 | 8.814511 | 2.94E-05 | 0.001303 | 3.019305 | 0.517311 | 0.7412 | -0.22389 | 2 | 1.03E+08 | F | II | IL18RAP | Body | opensea | Body-opens | | rs5582622 | 27 | | | | | |
| cg0709885 | 0.234206 | 0.395064 | 8.813823 | 2.94E-05 | 0.001303 | 3.018735 | 0.277961 | 0.512167 | -0.23421 | 17 | 27048437 | F | II | SNORD4A | TSS1500 | shore | TSS1500-sh | chr17:270 | rs5410853 | 1;20;24;33 | | | | | |
| cg2647251 | 0.246404 | 0.438613 | 8.813779 | 2.94E-05 | 0.001303 | 3.018699 | 0.315411 | 0.561815 | -0.2464 | 12 | 27332626 | F | II | | IGR | opensea | IGR-opense | | rs5736890 | 1 | | | | | |
| cg0890996 | 0.209811 | 0.571467 | 8.813227 | 2.94E-05 | 0.001303 | 3.018241 | 0.466562 | 0.676373 | -0.20981 | 1 | 76262984 | R | II | MSH4 | Body | shore | Body-shore | chr1:7626 | rs5745312 | 46 | | | | | |
| cg2552844 | 0.20123 | 0.717893 | 8.811825 | 2.94E-05 | 0.001304 | 3.017079 | 0.617277 | 0.818508 | -0.20123 | 1 | 2.17E+08 | R | II | ESRRG | 5'UTR | opensea | 5'UTR-open | | rs5368377 | 2 | | | | | |
| cg2258314 | 0.241972 | 0.424615 | 8.81164 | 2.94E-05 | 0.001304 | 3.016925 | 0.303629 | 0.545601 | -0.24197 | 3 | 44331824 | F | II | C3orf77 | Body | opensea | Body-opens | | rs5561627 | 0 | | | | | |
| cg2502863 | 0.221947 | 0.649023 | 8.810952 | 2.94E-05 | 0.001304 | 3.016355 | 0.53805 | 0.759997 | -0.22195 | 11 | 9884897 | R | II | SBF2 | Body | opensea | Body-opens | | | | | | | | |
| cg1661353 | 0.210509 | 0.61355 | 8.8108 | 2.94E-05 | 0.001304 | 3.016229 | 0.508295 | 0.718804 | -0.21051 | 4 | 1.76E+08 | R | II | | IGR | opensea | IGR-opense | | rs1385533 | 51 | | | | | |
| cg1344721 | 0.202714 | 0.408373 | 8.810668 | 2.94E-05 | 0.001304 | 3.01612 | 0.307016 | 0.509731 | -0.20271 | 19 | 51211846 | R | II | SHANK1 | Body | opensea | Body-opens | | rs5583463 | 10 | | | | | |
| cg0138587 | 0.267656 | 0.49613 | 8.807357 | 2.95E-05 | 0.001306 | 3.013373 | 0.362302 | 0.629958 | -0.26766 | 5 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs7378434 | 8 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1160179 | 0.210496 | 0.496034 | 8.806703 | 2.95E-05 | 0.001307 | 3.012831 | 0.390786 | 0.601282 | -0.2105 | 1 | 60891629 | F | II | | IGR | opensea | IGR-opense | | rs1120760 | 13;39 |
| cg1156448 | 0.211604 | 0.585863 | 8.805271 | 2.96E-05 | 0.001307 | 3.011643 | 0.480061 | 0.691666 | -0.2116 | 21 | 40266574 | F | II | LOC40086 | Body | opensea | Body-opens | | rs5498630 | 10;20 |
| cg1244578 | 0.218539 | 0.533527 | 8.804631 | 2.96E-05 | 0.001308 | 3.011112 | 0.424258 | 0.642797 | -0.21854 | 15 | 89533560 | R | II | | IGR | opensea | IGR-opense | | rs1466176 | 25;15;2 |
| cg1066137 | 0.223007 | 0.616643 | 8.804438 | 2.96E-05 | 0.001308 | 3.010952 | 0.50514 | 0.728146 | -0.22301 | 1 | 2.18E+08 | F | II | GPATCH2 | Body | opensea | Body-opens | | rs1867127 | 0;1 |
| cg1753736 | 0.236359 | 0.577819 | 8.803975 | 2.96E-05 | 0.001308 | 3.010567 | 0.45964 | 0.695999 | -0.23636 | 4 | 75260310 | F | II | | IGR | opensea | IGR-opense | | rs5771241 | 1;2;22;27 |
| cg0303648 | 0.201548 | 0.549761 | 8.803354 | 2.96E-05 | 0.001308 | 3.010053 | 0.448987 | 0.650534 | -0.20155 | 10 | 82300151 | R | II | SH2D4B | TSS1500 | shelf | TSS1500-sh | chr10:8225 | rs5650443 | 45;19;12 |
| cg0399564 | 0.219789 | 0.614368 | 8.803218 | 2.96E-05 | 0.001308 | 3.00994 | 0.504474 | 0.724262 | -0.21979 | 10 | 11425457 | F | II | | IGR | opensea | IGR-opense | | rs1849379 | 1 |
| cg0286018 | 0.256038 | 0.577587 | 8.802427 | 2.96E-05 | 0.001309 | 3.009283 | 0.449568 | 0.705606 | -0.25604 | 21 | 39876250 | R | II | ERG | Body | opensea | Body-opens | | | |
| cg2358205 | 0.235712 | 0.639757 | 8.802349 | 2.96E-05 | 0.001309 | 3.009218 | 0.521901 | 0.757613 | -0.23571 | 3 | 3152201 | R | II | IL5RA | TSS200 | opensea | TSS200-ope | | rs1132542 | 28;17;12;9 |
| cg1449128 | 0.21979 | 0.503628 | 8.800948 | 2.97E-05 | 0.001309 | 3.008055 | 0.393733 | 0.613523 | -0.21979 | 4 | 74846046 | F | II | | IGR | shore | IGR-shore | chr4:7484 | rs1478434 | 1;28;29;42 |
| cg0661569 | 0.200886 | 0.559634 | 8.800707 | 2.97E-05 | 0.001309 | 3.007856 | 0.459191 | 0.660077 | -0.20089 | 13 | 78832424 | F | II | | IGR | opensea | IGR-opense | | rs5646600 | 40 |
| cg2163654 | 0.205123 | 0.566553 | 8.800702 | 2.97E-05 | 0.001309 | 3.007851 | 0.463991 | 0.669114 | -0.20512 | 10 | 45804715 | R | II | OR13A1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1581934 | 0.20208 | 0.517826 | 8.800242 | 2.97E-05 | 0.001309 | 3.007469 | 0.416786 | 0.618866 | -0.20208 | 7 | 28579607 | F | II | CREB5 | Body | opensea | Body-opens | | rs5645345 | 0 |
| cg0998867 | 0.230162 | 0.467294 | 8.799227 | 2.97E-05 | 0.00131 | 3.006627 | 0.352213 | 0.582375 | -0.23016 | 4 | 8351738 | F | II | | IGR | shelf | IGR-shelf | chr4:8347 | rs7795991 | 15;33 |
| cg2063104 | 0.202065 | 0.651112 | 8.797922 | 2.97E-05 | 0.001311 | 3.005543 | 0.55008 | 0.752144 | -0.20206 | 19 | 41255890 | F | II | C19orf54 | TSS200 | shore | TSS200-shc | chr19:412 | rs5410414 | 14;17;30 |
| cg0761315 | 0.221666 | 0.483428 | 8.797717 | 2.98E-05 | 0.001311 | 3.005373 | 0.372595 | 0.594261 | -0.22167 | 14 | 1.04E+08 | F | II | TDRD9 | Body | opensea | Body-opens | | rs2003308 | 20;44;50 |
| cg0540574 | 0.212957 | 0.423411 | 8.797535 | 2.98E-05 | 0.001311 | 3.005222 | 0.316932 | 0.52989 | -0.21296 | 14 | 93313134 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0098335 | 0.221349 | 0.59877 | 8.796891 | 2.98E-05 | 0.001311 | 3.004687 | 0.488095 | 0.709444 | -0.22135 | 8 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs5552767 | 21;1 |
| cg2110886 | 0.219295 | 0.655195 | 8.796397 | 2.98E-05 | 0.001311 | 3.004277 | 0.545548 | 0.764843 | -0.21929 | 7 | 28852950 | F | II | CREB5 | Body | opensea | Body-opens | | rs1892503 | 0;39 |
| cg0431731 | 0.209686 | 0.309559 | 8.796323 | 2.98E-05 | 0.001311 | 3.004215 | 0.204716 | 0.414402 | -0.20969 | 12 | 76338627 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1436033 | 0.208208 | 0.591437 | 8.795686 | 2.98E-05 | 0.001311 | 3.003687 | 0.487332 | 0.695541 | -0.20821 | 2 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0461250 | 0.211811 | 0.445861 | 8.794931 | 2.98E-05 | 0.001311 | 3.003059 | 0.339956 | 0.551767 | -0.21181 | 2 | 2.23E+08 | F | II | SGPP2 | Body | opensea | Body-opens | | rs5350487 | 17;25 |
| cg0813032 | 0.215298 | 0.724343 | 8.79485 | 2.98E-05 | 0.001311 | 3.002992 | 0.616694 | 0.831992 | -0.2153 | 18 | 32401932 | R | II | DTNA | Body | opensea | Body-opens | | rs5317338 | 2;1 |
| cg1248612 | 0.267054 | 0.491225 | 8.794777 | 2.98E-05 | 0.001311 | 3.002931 | 0.357698 | 0.624752 | -0.26705 | 8 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs7957746 | 1 |
| cg1793146 | 0.221223 | 0.448002 | 8.794605 | 2.98E-05 | 0.001312 | 3.002788 | 0.33739 | 0.558613 | -0.22122 | 6 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs5320112 | 46 |
| cg0692329 | 0.21058 | 0.593427 | 8.794294 | 2.98E-05 | 0.001312 | 3.00253 | 0.488137 | 0.698716 | -0.21058 | 12 | 90456743 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2047307 | 0.250718 | 0.444525 | 8.792385 | 2.99E-05 | 0.001312 | 3.000944 | 0.319166 | 0.569884 | -0.25072 | 15 | 48106646 | F | II | LINC01491 | Body | opensea | Body-opens | | rs5373693 | 0;17;30 |
| cg2036028 | 0.209027 | 0.563221 | 8.791899 | 2.99E-05 | 0.001312 | 3.000541 | 0.458707 | 0.667734 | -0.20903 | 7 | 47989345 | F | II | PKD1L1 | TSS1500 | opensea | TSS1500-op | | | |
| cg2510088 | 0.219071 | 0.529923 | 8.791847 | 2.99E-05 | 0.001312 | 3.000497 | 0.420387 | 0.639458 | -0.21907 | 11 | 5878019 | F | II | OR52E8 | 1stExon | opensea | 1stExon-op | | rs1491428 | 16;31;40;44;46;50 |
| cg2219210 | 0.21787 | 0.696604 | 8.790959 | 2.99E-05 | 0.001313 | 2.999759 | 0.587669 | 0.805539 | -0.21787 | 15 | 83594012 | F | II | HOMER2 | Body | opensea | Body-opens | | rs1511789 | 48 |
| cg1436659 | 0.23102 | 0.506847 | 8.790911 | 2.99E-05 | 0.001313 | 2.999719 | 0.391338 | 0.622357 | -0.23102 | 14 | 23841754 | F | II | IL25 | TSS1500 | opensea | TSS1500-op | | rs5619445 | 1 |
| cg1914867 | 0.230625 | 0.521871 | 8.789112 | 3E-05 | 0.001314 | 2.998224 | 0.406559 | 0.637184 | -0.23062 | 11 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs5741286 | 26;38 |
| cg2503831 | 0.22726 | 0.483645 | 8.78785 | 3E-05 | 0.001315 | 2.997175 | 0.370015 | 0.597276 | -0.22726 | 10 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs1439551 | 9 |
| cg1242362 | 0.203336 | 0.734652 | 8.787595 | 3E-05 | 0.001315 | 2.996963 | 0.632984 | 0.83632 | -0.20334 | 2 | 45469414 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2006035 | 0.245023 | 0.4604 | 8.787396 | 3E-05 | 0.001315 | 2.996798 | 0.337888 | 0.582911 | -0.24502 | 8 | 1.07E+08 | F | II | ZFPM2-AS1 | Body | opensea | Body-opens | | rs1896580 | 4;26;26 |
| cg1533581 | 0.20321 | 0.579826 | 8.787092 | 3E-05 | 0.001315 | 2.996545 | 0.478221 | 0.681431 | -0.20321 | 6 | 37836577 | F | II | ZFAND3 | Body | opensea | Body-opens | | rs1470998 | 0;29 |
| cg1346400 | 0.23421 | 0.645082 | 8.786654 | 3E-05 | 0.001315 | 2.996181 | 0.527977 | 0.762188 | -0.23421 | 17 | 38976709 | F | II | TMEM99 | 5'UTR | opensea | 5'UTR-open | | rs5535599 | 1;7;15;20;38;45 |
| cg2523201 | 0.200594 | 0.562327 | 8.786164 | 3E-05 | 0.001315 | 2.995774 | 0.46203 | 0.662624 | -0.20059 | 21 | 25695067 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | | |
| cg1496373 | 0.239335 | 0.525741 | 8.785925 | 3E-05 | 0.001315 | 2.995575 | 0.406074 | 0.645408 | -0.23933 | 7 | 19752782 | F | II | | IGR | shelf | IGR-shelf | chr7:1974 | rs1422947 | 0;1;23 |
| cg1035030 | 0.201694 | 0.589298 | 8.785136 | 3.01E-05 | 0.001316 | 2.994919 | 0.488451 | 0.690145 | -0.20169 | 8 | 19935591 | R | II | | IGR | opensea | IGR-opense | | rs5323543 | 28;21;5;1 |
| cg1659274 | 0.209458 | 0.612856 | 8.784743 | 3.01E-05 | 0.001316 | 2.994592 | 0.508127 | 0.717585 | -0.20946 | 9 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs7699568 | 7;1 |
| cg0853320 | 0.21525 | 0.618121 | 8.783411 | 3.01E-05 | 0.001316 | 2.993485 | 0.510496 | 0.725746 | -0.21525 | 8 | 821387 | F | II | ERICH1-AS1 | Body | opensea | Body-opens | | rs5694385 | 24 |
| cg1644966 | 0.2277 | 0.465943 | 8.783316 | 3.01E-05 | 0.001316 | 2.993406 | 0.352093 | 0.579793 | -0.2277 | 1 | 2.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs5285268 | 42;2;1 |
| cg0685463 | 0.2165 | 0.668658 | 8.783211 | 3.01E-05 | 0.001316 | 2.993319 | 0.560408 | 0.776908 | -0.2165 | 7 | 22702493 | F | II | LOC40131 | Body | shelf | Body-shelf | chr7:2270 | rs3684775 | 1 |
| cg2293877 | 0.200671 | 0.58646 | 8.782216 | 3.01E-05 | 0.001317 | 2.992491 | 0.486124 | 0.686795 | -0.20067 | 10 | 73185294 | R | II | CDH23 | 5'UTR | opensea | 5'UTR-open | | rs1421553 | 50 |
| cg0724725 | 0.240099 | 0.592668 | 8.780315 | 3.02E-05 | 0.001318 | 2.990909 | 0.472618 | 0.712717 | -0.2401 | 2 | 1.66E+08 | R | II | CSRNP3 | Body | opensea | Body-opens | | rs5640375 | 49;35 |
| cg2495115 | 0.218372 | 0.528068 | 8.778625 | 3.02E-05 | 0.001319 | 2.989503 | 0.418883 | 0.637254 | -0.21837 | 6 | 70894520 | F | II | COL19A1 | Body | opensea | Body-opens | | rs5354028 | 14;49 |
| cg1755836 | 0.216684 | 0.686464 | 8.778229 | 3.02E-05 | 0.001319 | 2.989174 | 0.578122 | 0.794806 | -0.21668 | 8 | 1.06E+08 | F | II | ZFPM2 | Body | opensea | Body-opens | | rs1400871 | 2;14 |
| cg2005885 | 0.241685 | 0.567429 | 8.777971 | 3.02E-05 | 0.001319 | 2.988959 | 0.446586 | 0.688271 | -0.24168 | 2 | 2.25E+08 | F | II | AP1S3 | Body | opensea | Body-opens | | rs3738281 | 1;19 |
| cg0513215 | 0.200071 | 0.5987 | 8.777754 | 3.02E-05 | 0.001319 | 2.988779 | 0.498665 | 0.698736 | -0.20007 | 4 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs6138977 | 47;3 |
| cg0751754 | 0.221405 | 0.529851 | 8.775968 | 3.03E-05 | 0.00132 | 2.987292 | 0.419149 | 0.640554 | -0.22141 | 5 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs1846596 | 28;22;14;2 |
| cg1939315 | 0.221299 | 0.619596 | 8.775707 | 3.03E-05 | 0.00132 | 2.987075 | 0.508947 | 0.730246 | -0.2213 | 3 | 14802578 | R | II | C3orf20 | Body | opensea | Body-opens | | rs7573707 | 39;1 |
| cg0641371 | 0.220252 | 0.567575 | 8.77565 | 3.03E-05 | 0.00132 | 2.987028 | 0.457449 | 0.677701 | -0.22025 | 1 | 1.85E+08 | F | II | FAM129A | Body | opensea | Body-opens | | rs5555361 | 0 |
| cg0709918 | 0.200002 | 0.63403 | 8.775649 | 3.03E-05 | 0.00132 | 2.987026 | 0.534029 | 0.734031 | -0.2 | 3 | 61947083 | R | II | PTPRG | Body | opensea | Body-opens | | rs1891201 | 1 |
| cg0584597 | 0.229771 | 0.526353 | 8.775484 | 3.03E-05 | 0.00132 | 2.986889 | 0.411467 | 0.641238 | -0.22977 | 10 | 3634843 | R | II | LOC10537 | Body | opensea | Body-opens | | rs5478352 | 50;49 |
| cg2044501 | 0.229003 | 0.558508 | 8.775399 | 3.03E-05 | 0.00132 | 2.986818 | 0.444006 | 0.673009 | -0.229 | 12 | 82987128 | F | II | | IGR | opensea | IGR-opense | | rs1167473 | 8;9 |
| cg1316052 | 0.204906 | 0.629323 | 8.774986 | 3.03E-05 | 0.00132 | 2.986474 | 0.52687 | 0.731776 | -0.20491 | 7 | 28991987 | R | II | | IGR | shelf | IGR-shelf | chr7:2899 | rs5674932 | 43;37;34;7;5 |
| cg1602503 | 0.252686 | 0.637241 | 8.774242 | 3.03E-05 | 0.00132 | 2.985856 | 0.510898 | 0.763584 | -0.25269 | 1 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5453057 | 10;9 |
| cg0762003 | 0.261963 | 0.469175 | 8.774201 | 3.03E-05 | 0.00132 | 2.985821 | 0.338194 | 0.600157 | -0.26196 | 13 | 39771708 | R | II | | IGR | opensea | IGR-opense | | rs5583166 | 24 |
| cg1688693 | 0.21528 | 0.631863 | 8.774161 | 3.03E-05 | 0.00132 | 2.985788 | 0.524222 | 0.739503 | -0.21528 | 2 | 2.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs5653095 | 0;1;11 |
| cg1049965 | 0.210694 | 0.576466 | 8.772889 | 3.03E-05 | 0.001321 | 2.984729 | 0.471119 | 0.681813 | -0.21069 | 3 | 12465415 | F | II | PPARG | Body | opensea | Body-opens | | rs1908012 | 12;35;37 |
| cg2320181 | 0.20649 | 0.584631 | 8.772451 | 3.04E-05 | 0.001321 | 2.984364 | 0.481387 | 0.687876 | -0.20649 | 19 | 40007922 | R | II | SELV | Body | shore | Body-shore | chr19:400 | rs1414039 | 2 |
| cg2081477 | 0.201659 | 0.61873 | 8.772071 | 3.04E-05 | 0.001321 | 2.984048 | 0.517901 | 0.719559 | -0.20166 | 4 | 10467319 | R | II | | IGR | shelf | IGR-shelf | chr4:1046 | rs5656291 | 39;13;9;8 |
| cg0413554 | 0.207257 | 0.492395 | 8.770757 | 3.04E-05 | 0.001322 | 2.982954 | 0.388767 | 0.596023 | -0.20726 | 4 | 42296896 | R | II | | IGR | opensea | IGR-opense | | rs5487525 | 51;2 |
| cg0116889 | 0.202679 | 0.499416 | 8.768373 | 3.05E-05 | 0.001324 | 2.980968 | 0.398076 | 0.600755 | -0.20268 | 22 | 26222189 | F | II | MYO18B | Body | opensea | Body-opens | | rs7856155 | 0 |
| cg0832330 | 0.213319 | 0.64971 | 8.768127 | 3.05E-05 | 0.001324 | 2.980763 | 0.54305 | 0.756369 | -0.21332 | 16 | 72201692 | F | II | PMFBP1 | Body | opensea | Body-opens | | | |
| cg1368974 | 0.204409 | 0.480173 | 8.768017 | 3.05E-05 | 0.001324 | 2.980672 | 0.377969 | 0.582377 | -0.20441 | 6 | 76491683 | F | II | MYO6 | 5'UTR | opensea | 5'UTR-open | | rs1473692 | 1;6;8;16 |
| cg0870291 | 0.216487 | 0.492776 | 8.767314 | 3.05E-05 | 0.001324 | 2.980086 | 0.384532 | 0.601019 | -0.21649 | 1 | 76253688 | F | II | RABGGTB | Body | opensea | Body-opens | | rs3743855 | 0 |
| cg2075883 | 0.231591 | 0.443824 | 8.766744 | 3.05E-05 | 0.001324 | 2.979611 | 0.328029 | 0.55962 | -0.23159 | 4 | 1.14E+08 | F | II | ANK2 | Body | opensea | Body-opens | | rs5699997 | 31;46 |
| cg0720663 | 0.230337 | 0.575857 | 8.766531 | 3.05E-05 | 0.001324 | 2.979433 | 0.460689 | 0.691025 | -0.23034 | 5 | 1.42E+08 | R | II | FGF1 | 5'UTR | opensea | 5'UTR-open | | rs1407738 | 15;6;1 |
| cg2687683 | 0.237399 | 0.352128 | 8.766012 | 3.05E-05 | 0.001324 | 2.979001 | 0.233428 | 0.470828 | -0.2374 | 16 | 2013573 | F | I | SNHG9 | TSS1500 | shore | TSS1500-sh | chr16:201 | rs5421878 | 0;15;28 |
| cg2012459 | 0.204822 | 0.509944 | 8.765961 | 3.05E-05 | 0.001324 | 2.978959 | 0.407533 | 0.612355 | -0.20482 | 14 | 35825453 | R | II | | IGR | opensea | IGR-opense | | rs8005252 | 19;18;2;1 |
| cg1629503 | 0.241991 | 0.627547 | 8.765764 | 3.05E-05 | 0.001324 | 2.978794 | 0.506551 | 0.748542 | -0.24199 | 5 | 94784489 | F | II | FAM81B | Body | opensea | Body-opens | | rs5710572 | 12;50 |
| cg0432779 | 0.244817 | 0.58694 | 8.764781 | 3.05E-05 | 0.001324 | 2.977976 | 0.464531 | 0.709348 | -0.24482 | 21 | 46937803 | F | II | SLC19A1 | Body | opensea | Body-opens | | rs1911766 | 14;15;35 |
| cg1346727 | 0.215545 | 0.611116 | 8.764652 | 3.05E-05 | 0.001324 | 2.977868 | 0.503344 | 0.718889 | -0.21555 | 4 | 96458630 | R | II | UNC5C | Body | opensea | Body-opens | | rs5300867 | 42;34 |
| cg0636231 | 0.23064 | 0.543102 | 8.763549 | 3.06E-05 | 0.001325 | 2.976949 | 0.427782 | 0.658422 | -0.23064 | 6 | 52819489 | F | II | | IGR | opensea | IGR-opense | | rs1176404 | 1;4;12;21;45;48 |
| cg1211123 | 0.211465 | 0.539123 | 8.762322 | 3.06E-05 | 0.001326 | 2.975926 | 0.433391 | 0.644856 | -0.21147 | 1 | 2.08E+08 | F | II | | IGR | opensea | IGR-opense | | rs7530217 | 1;5 |
| cg0416363 | 0.214967 | 0.681722 | 8.761869 | 3.06E-05 | 0.001326 | 2.975549 | 0.574239 | 0.789206 | -0.21497 | 2 | 16832247 | R | II | FAM49A | 5'UTR | opensea | 5'UTR-open | | rs7592753 | 7;1 |
| cg0670299 | 0.201342 | 0.630498 | 8.760436 | 3.06E-05 | 0.001327 | 2.974354 | 0.529827 | 0.731169 | -0.20134 | 11 | 92562727 | R | II | FAT3 | Body | opensea | Body-opens | | rs5687594 | 4 |
| cg1656616 | 0.242265 | 0.628027 | 8.758374 | 3.07E-05 | 0.001328 | 2.972634 | 0.506895 | 0.74916 | -0.24227 | 4 | 1.54E+08 | R | II | FHDC1 | Body | shelf | Body-shelf | chr4:1538 | rs5719589 | 8 |
| cg0259658 | 0.231917 | 0.566287 | 8.757699 | 3.07E-05 | 0.001328 | 2.972071 | 0.450329 | 0.682246 | -0.23192 | 11 | 1.2E+08 | R | II | | IGR | opensea | IGR-opense | | rs1174593 | 22 |
| cg1137518 | 0.248314 | 0.447905 | 8.757643 | 3.07E-05 | 0.001328 | 2.972025 | 0.323748 | 0.572062 | -0.24831 | 1 | 2.37E+08 | R | II | RYR2 | Body | opensea | Body-opens | | rs1463152 | 51;1 |
| cg0449787 | 0.209662 | 0.481114 | 8.757589 | 3.07E-05 | 0.001328 | 2.97198 | 0.376283 | 0.585946 | -0.20966 | 1 | 42277284 | F | II | HIVEP3 | 5'UTR | opensea | 5'UTR-open | | rs5433217 | 1;14;32 |
| cg1160510 | 0.237353 | 0.553614 | 8.757177 | 3.07E-05 | 0.001328 | 2.971636 | 0.434938 | 0.672291 | -0.23735 | 1 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs5291798 | 18;19 |
| cg1956611 | 0.210894 | 0.648122 | 8.756886 | 3.07E-05 | 0.001328 | 2.971393 | 0.542675 | 0.753569 | -0.21089 | 1 | 2.05E+08 | R | II | LRRN2 | 5'UTR | opensea | 5'UTR-open | | rs1477295 | 1 |
| cg2445511 | 0.200024 | 0.488483 | 8.756534 | 3.07E-05 | 0.001328 | 2.9711 | 0.388471 | 0.588495 | -0.20002 | 2 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs5721112 | 17 |
| cg2315480 | 0.204244 | 0.551777 | 8.755881 | 3.08E-05 | 0.001329 | 2.970556 | 0.449655 | 0.653899 | -0.20424 | 1 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs5467094 | 0;28 |
| cg2564555 | 0.25329 | 0.46051 | 8.754127 | 3.08E-05 | 0.00133 | 2.969092 | 0.333865 | 0.587154 | -0.25329 | 6 | 17470599 | F | II | CAP2 | Body | opensea | Body-opens | | rs5680000 | 5;38 |
| cg0795677 | 0.211759 | 0.499124 | 8.752556 | 3.08E-05 | 0.001331 | 2.967781 | 0.393245 | 0.605004 | -0.21176 | 15 | 71839040 | F | II | THSD4 | TSS1500 | opensea | TSS1500-op | | rs5715089 | 0;11;22;35 |
| cg2555491 | 0.21122 | 0.513804 | 8.752291 | 3.08E-05 | 0.001331 | 2.967561 | 0.408195 | 0.619414 | -0.21122 | 3 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2545581 | 0.206173 | 0.596727 | 8.751783 | 3.09E-05 | 0.001331 | 2.967137 | 0.49364 | 0.699813 | -0.20617 | 2 | 68157657 | F | II | | IGR | opensea | IGR-opense | | rs5699698 | 1;41;50 |
| cg1841833 | 0.229892 | 0.456584 | 8.750993 | 3.09E-05 | 0.001332 | 2.966477 | 0.341638 | 0.57153 | -0.22989 | 6 | 65488422 | R | II | EYS | Body | opensea | Body-opens | | rs1421072 | 1 |
| cg1868806 | 0.202949 | 0.354005 | 8.750398 | 3.09E-05 | 0.001332 | 2.96598 | 0.252531 | 0.45548 | -0.20295 | 6 | 31146471 | R | II | PSORS1C3 | TSS1500 | shore | TSS1500-sh | chr6:3114 | rs1052986 | 34;2;1 |
| cg2619848 | 0.242593 | 0.577403 | 8.749958 | 3.09E-05 | 0.001332 | 2.965613 | 0.456106 | 0.698699 | -0.24259 | 13 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs5367734 | 1 |
| cg2650816 | 0.229885 | 0.56592 | 8.749825 | 3.09E-05 | 0.001332 | 2.965502 | 0.450977 | 0.680862 | -0.22989 | 2 | 1.83E+08 | F | II | | IGR | opensea | IGR-opense | | rs5774855 | 0;1 |
| cg1495926 | 0.223653 | 0.434773 | 8.748811 | 3.09E-05 | 0.001333 | 2.964656 | 0.322947 | 0.5466 | -0.22365 | 4 | 9917839 | F | II | SLC2A9 | Body | opensea | Body-opens | | rs5424328 | 0;39 |
| cg2396697 | 0.22592 | 0.696537 | 8.748739 | 3.09E-05 | 0.001333 | 2.964596 | 0.583577 | 0.809498 | -0.22592 | 3 | 57145711 | R | II | IL17RD | Body | opensea | Body-opens | | rs5469212 | 35 |
| cg1315935 | 0.218827 | 0.630108 | 8.747092 | 3.1E-05 | 0.001333 | 2.963221 | 0.520695 | 0.739521 | -0.21883 | 10 | 25040372 | F | II | | IGR | opensea | IGR-opense | | rs5276501 | 0;16;27 |
| cg0696263 | 0.232857 | 0.537856 | 8.746239 | 3.1E-05 | 0.001333 | 2.962508 | 0.421427 | 0.654284 | -0.23286 | 18 | 61939606 | F | II | LOC28429 | Body | opensea | Body-opens | | rs1492375 | 0;1;7;8 |
| cg0925464 | 0.205483 | 0.668253 | 8.745274 | 3.1E-05 | 0.001334 | 2.961703 | 0.565512 | 0.770995 | -0.20548 | 1 | 84378747 | F | II | MIR548AP | Body | opensea | Body-opens | | rs1397600 | 12 |
| cg2081095 | 0.214001 | 0.624286 | 8.744825 | 3.1E-05 | 0.001334 | 2.961328 | 0.517286 | 0.731287 | -0.214 | 14 | 56552265 | R | II | | IGR | opensea | IGR-opense | | rs1184602 | 33 |
| cg2025159 | 0.222588 | 0.625129 | 8.742646 | 3.11E-05 | 0.001335 | 2.959508 | 0.513835 | 0.736423 | -0.22259 | 6 | 74232674 | R | II | | IGR | shore | IGR-shore | chr6:7422 | rs1394399 | 40;32;16;15 |
| cg1257071 | 0.203884 | 0.458289 | 8.742494 | 3.11E-05 | 0.001335 | 2.959381 | 0.356347 | 0.560231 | -0.20388 | 10 | 3822379 | R | II | KLF6 | Body | shore | Body-shore | chr10:382 | rs1864099 | 30 |
| cg0311735 | 0.245256 | 0.50832 | 8.741893 | 3.11E-05 | 0.001335 | 2.958879 | 0.385692 | 0.630948 | -0.24526 | 10 | 34653147 | F | II | PARD3 | Body | opensea | Body-opens | | rs1166202 | 1;12;32;38 |
| cg2321664 | 0.240126 | 0.640323 | 8.73981 | 3.12E-05 | 0.001336 | 2.957139 | 0.52026 | 0.760386 | -0.24013 | 7 | 1.42E+08 | R | II | MGAM | ExonBnd | opensea | ExonBnd-o | | | |
| cg2383968 | 0.256314 | 0.512346 | 8.737409 | 3.12E-05 | 0.001337 | 2.955132 | 0.384189 | 0.640503 | -0.25631 | 7 | 56118238 | F | II | CCT6A | TSS1500 | shore | TSS1500-sh | chr7:5611 | | |
| cg2117058 | 0.214507 | 0.632464 | 8.736685 | 3.12E-05 | 0.001338 | 2.954527 | 0.525211 | 0.739718 | -0.21451 | 5 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | rs3442866 | 13 |
| cg0292486 | 0.223653 | 0.497885 | 8.736401 | 3.12E-05 | 0.001338 | 2.95429 | 0.386059 | 0.609712 | -0.22365 | 6 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0293693 | 0.231754 | 0.650321 | 8.7359 | 3.13E-05 | 0.001338 | 2.953871 | 0.534444 | 0.766197 | -0.23175 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5372686 | 0 |
| cg1749759 | 0.255017 | 0.512019 | 8.735617 | 3.13E-05 | 0.001338 | 2.953634 | 0.38451 | 0.639528 | -0.25502 | 3 | 1.55E+08 | F | II | LOC10050 | TSS200 | opensea | TSS200-ope | | rs5758219 | 0 |
| cg2624194 | 0.223841 | 0.617073 | 8.734467 | 3.13E-05 | 0.001339 | 2.952673 | 0.505153 | 0.728994 | -0.22384 | 3 | 1.55E+08 | R | II | PLCH1 | Body | opensea | Body-opens | | rs1479018 | 8 |
| cg0854849 | 0.252705 | 0.478157 | 8.73414 | 3.13E-05 | 0.001339 | 2.952399 | 0.351804 | 0.604509 | -0.2527 | 20 | 43883546 | F | II | SLPI | TSS1500 | opensea | TSS1500-op | | rs5485454 | 14;27 |
| cg1053393 | 0.204801 | 0.666431 | 8.733166 | 3.13E-05 | 0.001339 | 2.951585 | 0.564031 | 0.768832 | -0.2048 | 14 | 76345499 | F | II | TTLL5 | Body | opensea | Body-opens | | | |
| cg0905667 | 0.201753 | 0.608651 | 8.731045 | 3.14E-05 | 0.00134 | 2.949812 | 0.507775 | 0.709528 | -0.20175 | 5 | 88743831 | R | II | | IGR | opensea | IGR-opense | | rs5564947 | 38 |
| cg1850414 | 0.206101 | 0.55509 | 8.730534 | 3.14E-05 | 0.00134 | 2.949384 | 0.45204 | 0.658141 | -0.2061 | 1 | 7219603 | R | II | CAMTA1 | Body | opensea | Body-opens | | rs5591219 | 47;19;1 |
| cg1676986 | 0.202752 | 0.62728 | 8.729559 | 3.14E-05 | 0.001341 | 2.948568 | 0.525904 | 0.728656 | -0.20275 | 1 | 43487359 | F | II | | IGR | opensea | IGR-opense | | rs5648672 | 1;46 |
| cg0682838 | 0.212235 | 0.720864 | 8.728563 | 3.14E-05 | 0.001342 | 2.947736 | 0.614746 | 0.826981 | -0.21223 | 11 | 84998667 | R | II | DLG2 | Body | opensea | Body-opens | | rs1391787 | 50;44;2 |
| cg1919746 | 0.254673 | 0.514962 | 8.726767 | 3.15E-05 | 0.001342 | 2.946233 | 0.387626 | 0.642298 | -0.25467 | 1 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs1175151 | 11 |
| cg2348474 | 0.205832 | 0.680462 | 8.725273 | 3.15E-05 | 0.001343 | 2.944982 | 0.577546 | 0.783378 | -0.20583 | 5 | 1.43E+08 | R | II | | IGR | opensea | IGR-opense | | rs1818658 | 35;18;2 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1618861 | 0.223428 | 0.553425 | 8.725199 | 3.15E-05 | 0.001343 | 2.94492 | 0.441711 | 0.665139 | -0.22343 | 2 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1489323 | 1 |
| cg2148491 | 0.212649 | 0.626312 | 8.724204 | 3.16E-05 | 0.001343 | 2.944088 | 0.519988 | 0.732636 | -0.21265 | 2 | 40097661 | F | II | | IGR | opensea | IGR-opense | | rs5557528 | 19;35;44 |
| cg1814290 | 0.232653 | 0.613264 | 8.723889 | 3.16E-05 | 0.001343 | 2.943824 | 0.496938 | 0.729591 | -0.23265 | 3 | 1.67E+08 | F | II | WDR49 | Body | opensea | Body-opens | | rs2020586 | 14 |
| cg0872326 | 0.215352 | 0.524262 | 8.723797 | 3.16E-05 | 0.001343 | 2.943747 | 0.416586 | 0.631938 | -0.21535 | 2 | 2.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs7838170 | 41;2 |
| cg1046580 | 0.229733 | 0.580634 | 8.723303 | 3.16E-05 | 0.001344 | 2.943333 | 0.465767 | 0.6955 | -0.22973 | 8 | 1.35E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | rs1904172 | 1;23;41;47 |
| cg0982468 | 0.217066 | 0.485238 | 8.721743 | 3.16E-05 | 0.001344 | 2.942028 | 0.376705 | 0.593771 | -0.21707 | 10 | 52298570 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs1896173 | 0;50 |
| cg0414716 | 0.213516 | 0.466685 | 8.721656 | 3.16E-05 | 0.001344 | 2.941955 | 0.359927 | 0.573443 | -0.21352 | 8 | 67835448 | F | II | SNHG6 | Body | shelf | Body-shelf | chr8:67837 | rs1165600 | 1 |
| cg1479384 | 0.255825 | 0.572686 | 8.720982 | 3.16E-05 | 0.001344 | 2.94139 | 0.444774 | 0.700599 | -0.25583 | 2 | 1.01E+08 | R | II | AFF3 | Body | opensea | Body-opens | | rs5705603 | 51;10 |
| cg1331626 | 0.202243 | 0.602444 | 8.720859 | 3.16E-05 | 0.001344 | 2.941288 | 0.501323 | 0.703566 | -0.20224 | 2 | 1.9E+08 | R | II | COL5A2 | Body | opensea | Body-opens | | rs1876201 | 48 |
| cg1455676 | 0.207 | 0.491641 | 8.720827 | 3.16E-05 | 0.001344 | 2.941261 | 0.388141 | 0.595141 | -0.207 | 1 | 1.71E+08 | R | II | | IGR | opensea | IGR-opense | | rs1470501 | 29;2 |
| cg0536560 | 0.202621 | 0.604389 | 8.720291 | 3.16E-05 | 0.001344 | 2.940812 | 0.503078 | 0.705699 | -0.20262 | 13 | 55827087 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0413794 | 0.255918 | 0.523356 | 8.719256 | 3.17E-05 | 0.001345 | 2.939945 | 0.395397 | 0.651315 | -0.25592 | 4 | 1.64E+08 | R | II | NAF1 | Body | shore | Body-shore | chr4:16404 | rs5424135 | 46;36 |
| cg1303504 | 0.252796 | 0.540813 | 8.717559 | 3.17E-05 | 0.001346 | 2.938524 | 0.414415 | 0.667211 | -0.2528 | 1 | 2.21E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1840820 | 0.215621 | 0.643424 | 8.717284 | 3.17E-05 | 0.001346 | 2.938294 | 0.535614 | 0.751235 | -0.21562 | 2 | 193509 | R | II | | IGR | shelf | IGR-shelf | chr2:19741 | rs5401746 | 51;2;1 |
| cg0242632 | 0.216111 | 0.636816 | 8.715628 | 3.18E-05 | 0.001347 | 2.936907 | 0.52876 | 0.744871 | -0.21611 | 2 | 2.43E+08 | R | II | D2HGDH | Body | opensea | Body-opens | | rs5625708 | 28;4;1 |
| cg0370812 | 0.21337 | 0.410245 | 8.713631 | 3.18E-05 | 0.001348 | 2.935233 | 0.30356 | 0.51693 | -0.21337 | 2 | 2.11E+08 | F | II | CPS1 | Body | opensea | Body-opens | | rs5569192 | 0;3;21 |
| cg1963364 | 0.276954 | 0.460143 | 8.713409 | 3.18E-05 | 0.001348 | 2.935047 | 0.321666 | 0.59862 | -0.27695 | 15 | 76428015 | R | II | C15orf27 | Body | opensea | Body-opens | | rs885388;r | 23;14;1 |
| cg1073568 | 0.207798 | 0.452922 | 8.712974 | 3.18E-05 | 0.001348 | 2.934683 | 0.349023 | 0.556821 | -0.2078 | 18 | 21032577 | F | II | RIOK3 | TSS1500 | shore | TSS1500-sh | chr18:2102 | rs5669039 | 22 |
| cg0682772 | 0.21545 | 0.576689 | 8.712722 | 3.18E-05 | 0.001349 | 2.934472 | 0.468964 | 0.684414 | -0.21545 | 1 | 2.04E+08 | F | II | ETNK2 | Body | opensea | Body-opens | | rs5545969 | 1;27;49 |
| cg1268564 | 0.212653 | 0.672413 | 8.712645 | 3.18E-05 | 0.001349 | 2.934407 | 0.566086 | 0.778739 | -0.21265 | 1 | 2.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs5285683 | 15 |
| cg2345332 | 0.255901 | 0.515331 | 8.712624 | 3.18E-05 | 0.001349 | 2.934389 | 0.387381 | 0.643282 | -0.2559 | 4 | 14235703 | F | II | | IGR | opensea | IGR-opense | | rs5392765 | 1;3;7;19 |
| cg2451695 | 0.215692 | 0.432883 | 8.712514 | 3.18E-05 | 0.001349 | 2.934298 | 0.325037 | 0.540729 | -0.21569 | 13 | 89889903 | F | II | LINC01047 | TSS1500 | opensea | TSS1500-o | | rs1433831 | 0;1;22;33;48 |
| cg0229857 | 0.213919 | 0.479294 | 8.710937 | 3.19E-05 | 0.001349 | 2.932976 | 0.372334 | 0.586254 | -0.21392 | 10 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1157682 | 15;21;41 |
| cg1531713 | 0.217804 | 0.647478 | 8.710594 | 3.19E-05 | 0.00135 | 2.932689 | 0.538576 | 0.75638 | -0.2178 | 12 | 7900595 | F | II | CLEC4C | 5'UTR | opensea | 5'UTR-open | | | |
| cg0032221 | 0.20862 | 0.593641 | 8.710493 | 3.19E-05 | 0.00135 | 2.932604 | 0.489331 | 0.697951 | -0.20862 | 22 | 28072555 | R | II | | IGR | shore | IGR-shore | chr22:2807 | | |
| cg1782217 | 0.27029 | 0.541355 | 8.709124 | 3.19E-05 | 0.00135 | 2.931456 | 0.40621 | 0.6765 | -0.27029 | 2 | 1.45E+08 | F | II | | IGR | opensea | IGR-opense | | rs7373270 | |
| cg0554359 | 0.200181 | 0.593644 | 8.708573 | 3.19E-05 | 0.001351 | 2.930994 | 0.493554 | 0.693735 | -0.20018 | 2 | 21511899 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1385372 | 0.216091 | 0.417482 | 8.705051 | 3.2E-05 | 0.001353 | 2.928041 | 0.309437 | 0.525528 | -0.21609 | 20 | 38192245 | R | II | | IGR | opensea | IGR-opense | | rs7926079 | 20 |
| cg1162242 | 0.216887 | 0.665887 | 8.704313 | 3.21E-05 | 0.001353 | 2.927422 | 0.557444 | 0.77433 | -0.21689 | 3 | 1.51E+08 | F | II | P2RY14 | 5'UTR | opensea | 5'UTR-open | | rs5679373 | 0;22;47 |
| cg1751534 | 0.273408 | 0.544164 | 8.70218 | 3.21E-05 | 0.001354 | 2.925633 | 0.407461 | 0.680868 | -0.27341 | 1 | 1.59E+08 | R | II | AIM2 | TSS1500 | opensea | TSS1500-o | | rs5652591 | 46;45;10;3 |
| cg1370134 | 0.214747 | 0.728353 | 8.701333 | 3.21E-05 | 0.001354 | 2.924922 | 0.620979 | 0.835726 | -0.21475 | 15 | 81212443 | R | II | CEMIP | ExonBnd | opensea | ExonBnd-o | | rs3716661 | 28;1 |
| cg0488099 | 0.217404 | 0.529807 | 8.701021 | 3.21E-05 | 0.001355 | 2.92466 | 0.421105 | 0.638509 | -0.2174 | 12 | 52887566 | R | II | KRT6A | TSS1500 | opensea | TSS1500-o | | | |
| cg1949972 | 0.205648 | 0.54785 | 8.700959 | 3.21E-05 | 0.001355 | 2.924608 | 0.445026 | 0.650674 | -0.20565 | 12 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs5503662 | 2;33;51 |
| cg2231328 | 0.201634 | 0.613966 | 8.700614 | 3.22E-05 | 0.001355 | 2.924318 | 0.513149 | 0.714783 | -0.20163 | 5 | 78057829 | F | II | | IGR | opensea | IGR-opense | | rs5600384 | 0;36 |
| cg2180802 | 0.227757 | 0.441999 | 8.70015 | 3.22E-05 | 0.001355 | 2.923929 | 0.328121 | 0.555877 | -0.22776 | 18 | 11871622 | F | II | GNAL | Body | opensea | Body-opens | | rs5325637 | 0 |
| cg0939965 | 0.216721 | 0.473085 | 8.698074 | 3.22E-05 | 0.001356 | 2.922187 | 0.364725 | 0.581445 | -0.21672 | 10 | 82773304 | F | II | | IGR | opensea | IGR-opense | | rs1448274 | 0;1;13 |
| cg1610107 | 0.245701 | 0.5302 | 8.697399 | 3.22E-05 | 0.001356 | 2.92162 | 0.407349 | 0.65305 | -0.2457 | 10 | 1.3E+08 | F | II | CLRN3 | 3'UTR | opensea | 3'UTR-open | | rs2296785 | 27;40 |
| cg0262308 | 0.203063 | 0.635351 | 8.69654 | 3.23E-05 | 0.001356 | 2.920899 | 0.533819 | 0.736882 | -0.20306 | 2 | 31138302 | R | II | GALNT14 | Body | opensea | Body-opens | | rs5680433 | 48 |
| cg1279609 | 0.220859 | 0.523438 | 8.69648 | 3.23E-05 | 0.001356 | 2.920849 | 0.413009 | 0.633868 | -0.22086 | 2 | 67911314 | R | II | | IGR | opensea | IGR-opense | | rs5729674 | 29;2;1 |
| cg1004704 | 0.212052 | 0.519995 | 8.695345 | 3.23E-05 | 0.001357 | 2.919896 | 0.413969 | 0.626021 | -0.21205 | 12 | 3446781 | F | II | | IGR | opensea | IGR-opense | | rs5649109 | 42;43;44 |
| cg0672062 | 0.212457 | 0.543004 | 8.695322 | 3.23E-05 | 0.001357 | 2.919877 | 0.436776 | 0.649233 | -0.21246 | 8 | 12646117 | F | II | LOC34035 | Body | opensea | Body-opens | | rs4481594 | 8;17;20 |
| cg0718821 | 0.208241 | 0.638636 | 8.693745 | 3.23E-05 | 0.001358 | 2.918553 | 0.534515 | 0.742756 | -0.20824 | 3 | 36592561 | R | II | | IGR | opensea | IGR-opense | | rs5847923 | 51;10 |
| cg2553234 | 0.222304 | 0.579975 | 8.692514 | 3.24E-05 | 0.001358 | 2.917519 | 0.468823 | 0.691127 | -0.2223 | 14 | 78047326 | F | II | SPTLC2 | Body | opensea | Body-opens | | rs1468760 | 1;24;27 |
| cg1785303 | 0.22357 | 0.624898 | 8.690769 | 3.24E-05 | 0.001359 | 2.916053 | 0.513113 | 0.736683 | -0.22357 | 2 | 69084431 | R | II | | IGR | opensea | IGR-opense | | rs5613635 | 21 |
| cg2686992 | 0.2054 | 0.637321 | 8.690657 | 3.24E-05 | 0.001359 | 2.915959 | 0.53462 | 0.740021 | -0.2054 | 6 | 53528893 | F | II | KLHL31 | 5'UTR | opensea | 5'UTR-open | | rs5758979 | 0;36 |
| cg1400512 | 0.222952 | 0.564744 | 8.690437 | 3.24E-05 | 0.001359 | 2.915774 | 0.453268 | 0.67622 | -0.22295 | 9 | 93652538 | R | II | SYK | Body | opensea | Body-opens | | rs5311974 | 51;1 |
| cg0347965 | 0.206224 | 0.630693 | 8.68945 | 3.24E-05 | 0.001359 | 2.914945 | 0.527581 | 0.733805 | -0.20622 | 2 | 1.36E+08 | F | II | ZRANB3 | Body | opensea | Body-opens | | rs1840871 | 2 |
| cg1829376 | 0.20535 | 0.729047 | 8.689422 | 3.24E-05 | 0.001359 | 2.914922 | 0.626372 | 0.831723 | -0.20535 | 3 | 1.9E+08 | F | II | P3H2-AS1 | Body | shore | Body-shore | chr3:18983 | | |
| cg1996944 | 0.204969 | 0.710722 | 8.689139 | 3.25E-05 | 0.001359 | 2.914684 | 0.608238 | 0.813207 | -0.20497 | 20 | 11791322 | R | II | LINC00687 | Body | opensea | Body-opens | | rs1898646 | 40;38;37;2;1 |
| cg1204318 | 0.225578 | 0.581175 | 8.688493 | 3.25E-05 | 0.001359 | 2.914141 | 0.468386 | 0.693964 | -0.22558 | 1 | 2.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs1464454 | 1;8;30 |
| cg0498743 | 0.202083 | 0.398706 | 8.686315 | 3.25E-05 | 0.001361 | 2.912311 | 0.297665 | 0.499748 | -0.20208 | 20 | 42380335 | F | II | | IGR | opensea | IGR-opense | | rs5711956 | 1;44;45 |
| cg0668237 | 0.254569 | 0.562821 | 8.685889 | 3.25E-05 | 0.001361 | 2.911953 | 0.435536 | 0.690105 | -0.25457 | 3 | 32291082 | R | II | CMTM8 | Body | opensea | Body-opens | | rs5515548 | 49;1 |
| cg1004261 | 0.241311 | 0.578891 | 8.685777 | 3.25E-05 | 0.001361 | 2.911859 | 0.458235 | 0.699546 | -0.24131 | 2 | 1.62E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0605948 | 0.201085 | 0.605373 | 8.685521 | 3.25E-05 | 0.001361 | 2.911643 | 0.50483 | 0.705915 | -0.20108 | 10 | 46171106 | F | II | | IGR | shelf | IGR-shelf | chr10:4616 | | |
| cg1937553 | 0.20707 | 0.557545 | 8.684814 | 3.26E-05 | 0.001361 | 2.91105 | 0.45401 | 0.66108 | -0.20707 | 2 | 64008069 | R | II | | IGR | opensea | IGR-opense | | rs5301480 | 1 |
| cg0365983 | 0.204774 | 0.584882 | 8.684462 | 3.26E-05 | 0.001362 | 2.910753 | 0.482495 | 0.687269 | -0.20477 | 5 | 35058495 | F | II | PRLR | Body | opensea | Body-opens | | rs5584100 | 0;8;29 |
| cg2673785 | 0.214961 | 0.541097 | 8.68411 | 3.26E-05 | 0.001362 | 2.910458 | 0.433617 | 0.648578 | -0.21496 | 12 | 18849720 | R | II | PLCZ1 | Body | opensea | Body-opens | | rs7887755 | 32 |
| cg0845390 | 0.211913 | 0.563212 | 8.682831 | 3.26E-05 | 0.001363 | 2.909383 | 0.457255 | 0.669169 | -0.21191 | 17 | 71688187 | R | II | | IGR | opensea | IGR-opense | | rs5509517 | 48;40;22;16 |
| cg2734905 | 0.205236 | 0.720586 | 8.681224 | 3.27E-05 | 0.001363 | 2.908032 | 0.617968 | 0.823204 | -0.20524 | 5 | 1.42E+08 | F | II | | IGR | opensea | IGR-opense | | rs1480598 | 0 |
| cg1436406 | 0.210778 | 0.58546 | 8.6797 | 3.27E-05 | 0.001365 | 2.90675 | 0.480071 | 0.690848 | -0.21078 | 11 | 74667918 | R | II | SPCS2 | Body | opensea | Body-opens | | rs1146544 | 39;17 |
| cg1665803 | 0.256582 | 0.477699 | 8.679596 | 3.27E-05 | 0.001365 | 2.906662 | 0.349408 | 0.60599 | -0.25658 | 10 | 22919045 | F | II | PIP4K2A | Body | opensea | Body-opens | | rs1878955 | 0;40;42;44 |
| cg0849883 | 0.220885 | 0.54524 | 8.678795 | 3.27E-05 | 0.001365 | 2.905989 | 0.434797 | 0.655682 | -0.22088 | 3 | 1.49E+08 | R | II | WWTR1 | Body | opensea | Body-opens | | | |
| cg2739840 | 0.223919 | 0.671171 | 8.678445 | 3.27E-05 | 0.001365 | 2.905694 | 0.559211 | 0.783131 | -0.22392 | 1 | 56976548 | F | II | PPAP2B | Body | opensea | Body-opens | | rs5439112 | 41 |
| cg1622002 | 0.200694 | 0.619298 | 8.678388 | 3.27E-05 | 0.001365 | 2.905646 | 0.518951 | 0.719645 | -0.20069 | 4 | 1.4E+08 | R | II | ELF2 | Body | shelf | Body-shelf | chr4:14000 | rs5612697 | 46 |
| cg2038872 | 0.246236 | 0.642009 | 8.676963 | 3.28E-05 | 0.001366 | 2.904448 | 0.518891 | 0.765127 | -0.24624 | 15 | 99200492 | F | II | IGF1R | Body | opensea | Body-opens | | | |
| cg1797401 | 0.232649 | 0.542729 | 8.676658 | 3.28E-05 | 0.001366 | 2.904191 | 0.426404 | 0.659054 | -0.23265 | 11 | 1.2E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0662160 | 0.233756 | 0.481739 | 8.674315 | 3.28E-05 | 0.001367 | 2.90222 | 0.364862 | 0.598617 | -0.23376 | 5 | 82999102 | R | II | HAPLN1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2033901 | 0.222862 | 0.675067 | 8.67258 | 3.29E-05 | 0.001368 | 2.90076 | 0.563636 | 0.786498 | -0.22286 | 6 | 1.2E+08 | F | II | LOC285762 | Body | opensea | Body-opens | | | |
| cg0073759 | 0.255095 | 0.612744 | 8.671452 | 3.29E-05 | 0.001369 | 2.89981 | 0.485197 | 0.740292 | -0.2551 | 1 | 43422337 | F | II | SLC2A1 | Body | shore | Body-shore | chr1:43423 | rs5319325 | 13;46 |
| cg1223097 | 0.218188 | 0.645186 | 8.670096 | 3.3E-05 | 0.00137 | 2.898669 | 0.536092 | 0.75428 | -0.21819 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | rs5736131 | 0;3;19 |
| cg0888178 | 0.238797 | 0.594907 | 8.669755 | 3.3E-05 | 0.00137 | 2.898382 | 0.475509 | 0.714306 | -0.2388 | 3 | 1.55E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:15545 | rs5742892 | 46;44;29 |
| cg1795101 | 0.258853 | 0.454476 | 8.669604 | 3.3E-05 | 0.00137 | 2.898255 | 0.325049 | 0.583902 | -0.25885 | 11 | 59972522 | F | II | | IGR | opensea | IGR-opense | | rs1907343 | 29 |
| cg2758252 | 0.240101 | 0.555972 | 8.668496 | 3.3E-05 | 0.001371 | 2.897322 | 0.435922 | 0.676023 | -0.2401 | 1 | 15734285 | F | II | | IGR | shore | IGR-shore | chr1:15736 | rs5475215 | 0;16 |
| cg0062856 | 0.201856 | 0.599504 | 8.668122 | 3.3E-05 | 0.001371 | 2.897007 | 0.498576 | 0.700432 | -0.20186 | 5 | 71749237 | F | II | ZNF366 | Body | opensea | Body-opens | | rs5724812 | 0 |
| cg1211225 | 0.238983 | 0.588189 | 8.667475 | 3.3E-05 | 0.001371 | 2.896461 | 0.468698 | 0.707681 | -0.23898 | 2 | 1.97E+08 | F | II | HECW2 | Body | opensea | Body-opens | | rs5283422 | 0;1;35 |
| cg0847692 | 0.241376 | 0.544335 | 8.667102 | 3.3E-05 | 0.001371 | 2.896148 | 0.423647 | 0.665023 | -0.24138 | 11 | 82690000 | F | II | RAB30 | 3'UTR | opensea | 3'UTR-open | | rs5695125 | 19 |
| cg0691947 | 0.262305 | 0.455378 | 8.666346 | 3.31E-05 | 0.001372 | 2.895511 | 0.324226 | 0.586531 | -0.26231 | 2 | 1.74E+08 | R | II | ZAK | Body | opensea | Body-opens | | rs5422204 | 33 |
| cg1541500 | 0.220838 | 0.571723 | 8.665511 | 3.31E-05 | 0.001372 | 2.894808 | 0.461304 | 0.682142 | -0.22084 | 12 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5343378 | 49;27;8 |
| cg0557407 | 0.201781 | 0.609666 | 8.66545 | 3.31E-05 | 0.001372 | 2.894756 | 0.508775 | 0.710556 | -0.20178 | 3 | 1.43E+08 | F | II | PAQR9-AS1 | Body | opensea | Body-opens | | rs5332156 | 1;31 |
| cg0146552 | 0.202829 | 0.59395 | 8.665117 | 3.31E-05 | 0.001372 | 2.894475 | 0.492535 | 0.695364 | -0.20283 | 6 | 29548535 | F | II | SNORD32B | TSS1500 | opensea | TSS1500-o | | rs3723249 | 36 |
| cg1785517 | 0.231607 | 0.546892 | 8.664878 | 3.31E-05 | 0.001372 | 2.894275 | 0.431089 | 0.662696 | -0.23161 | 20 | 19967270 | F | II | RIN2 | Body | opensea | Body-opens | | rs5354627 | 0;31;37 |
| cg0896065 | 0.237287 | 0.418063 | 8.66477 | 3.31E-05 | 0.001372 | 2.894183 | 0.29942 | 0.536707 | -0.23729 | 6 | 1.67E+08 | R | II | RPS6KA2 | Body | opensea | Body-opens | | rs5563195 | 20;1 |
| cg0259670 | 0.20302 | 0.638111 | 8.664731 | 3.31E-05 | 0.001372 | 2.894151 | 0.536601 | 0.739621 | -0.20302 | 13 | 93457414 | R | II | GPC5 | Body | opensea | Body-opens | | rs5482627 | 35 |
| cg0929206 | 0.240236 | 0.635954 | 8.664444 | 3.31E-05 | 0.001372 | 2.893909 | 0.515836 | 0.756072 | -0.24024 | 4 | 77801348 | F | II | | IGR | opensea | IGR-opense | | rs1860110 | 0 |
| cg1810865 | 0.237265 | 0.491781 | 8.664288 | 3.31E-05 | 0.001372 | 2.893777 | 0.373148 | 0.610414 | -0.23727 | 1 | 1.13E+08 | R | II | CAPZA1 | Body | opensea | Body-opens | | | |
| cg1182632 | 0.206993 | 0.694927 | 8.664141 | 3.31E-05 | 0.001372 | 2.893654 | 0.591431 | 0.798423 | -0.20699 | 8 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | rs5504851 | 23 |
| cg0056367 | 0.210041 | 0.597469 | 8.663883 | 3.31E-05 | 0.001372 | 2.893436 | 0.492448 | 0.70249 | -0.21004 | 4 | 1.42E+08 | R | II | RNF150 | Body | opensea | Body-opens | | rs5283362 | 13 |
| cg2689368 | 0.207845 | 0.569159 | 8.663213 | 3.31E-05 | 0.001373 | 2.892872 | 0.465237 | 0.673082 | -0.20784 | 6 | 2523615 | F | II | | IGR | opensea | IGR-opense | | rs1828131 | 0;1;24;44 |
| cg1312114 | 0.277988 | 0.569063 | 8.662598 | 3.32E-05 | 0.001373 | 2.892354 | 0.430069 | 0.708057 | -0.27799 | 15 | 33218656 | R | II | FMN1 | Body | opensea | Body-opens | | rs5462501 | 39 |
| cg1158526 | 0.210544 | 0.596923 | 8.662326 | 3.32E-05 | 0.001373 | 2.892125 | 0.49165 | 0.702195 | -0.21054 | 6 | 1.39E+08 | R | II | NHSL1 | Body | opensea | Body-opens | | rs1442366 | 29;25 |
| cg0026589 | 0.210517 | 0.519358 | 8.65991 | 3.32E-05 | 0.001374 | 2.890088 | 0.4141 | 0.624617 | -0.21052 | 3 | 1.71E+08 | R | II | PLD1 | 5'UTR | opensea | 5'UTR-open | | rs4484217 | 29;2 |
| cg2069617 | 0.204846 | 0.607259 | 8.658304 | 3.33E-05 | 0.001375 | 2.888735 | 0.504836 | 0.709682 | -0.20485 | 13 | 21497272 | R | II | | IGR | opensea | IGR-opense | | rs5513343 | 31;30;1 |
| cg2068149 | 0.226069 | 0.482275 | 8.657802 | 3.33E-05 | 0.001375 | 2.888311 | 0.36924 | 0.595309 | -0.22607 | 6 | 23175909 | F | II | | IGR | opensea | IGR-opense | | rs5421236 | 0;28 |
| cg1538494 | 0.233154 | 0.497329 | 8.657692 | 3.33E-05 | 0.001375 | 2.888219 | 0.380751 | 0.613906 | -0.23315 | 2 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | | rs7732124 | 16;37 |
| cg1881821 | 0.210438 | 0.634607 | 8.65682 | 3.33E-05 | 0.001375 | 2.887484 | 0.529388 | 0.739826 | -0.21044 | 5 | 1.47E+08 | F | II | C5orf46 | TSS1500 | opensea | TSS1500-o | | rs5646655 | 26 |
| cg1904552 | 0.206086 | 0.675666 | 8.655953 | 3.33E-05 | 0.001376 | 2.886753 | 0.572623 | 0.778709 | -0.20609 | 7 | 41246129 | F | II | | IGR | opensea | IGR-opense | | rs7978499 | 14 |
| cg0979028 | 0.26257 | 0.644651 | 8.655679 | 3.33E-05 | 0.001376 | 2.886522 | 0.513366 | 0.775936 | -0.26257 | 7 | 1.24E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | rs7843655 | 24;1 |
| cg0858731 | 0.250246 | 0.549236 | 8.654535 | 3.34E-05 | 0.001377 | 2.885557 | 0.424113 | 0.674359 | -0.25025 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5328739 | 49;5 |
| cg0844007 | 0.202289 | 0.529659 | 8.653377 | 3.34E-05 | 0.001377 | 2.884581 | 0.428514 | 0.630803 | -0.20229 | 2 | 2.42E+08 | R | II | | IGR | shore | IGR-shore | chr2:24185 | rs1454877 | 1 |
| cg0624352 | 0.200111 | 0.613356 | 8.652713 | 3.34E-05 | 0.001377 | 2.884021 | 0.5133 | 0.713411 | -0.20011 | 7 | 12797219 | F | II | | IGR | opensea | IGR-opense | | rs5765150 | 0 |
| cg1349718 | 0.224297 | 0.559865 | 8.652438 | 3.34E-05 | 0.001377 | 2.883789 | 0.447717 | 0.672014 | -0.2243 | 8 | 1.08E+08 | R | II | OXR1 | Body | opensea | Body-opens | | rs1809485 | 42;41;1 |
| cg0327318 | 0.200844 | 0.608753 | 8.652105 | 3.34E-05 | 0.001377 | 2.883507 | 0.508331 | 0.709175 | -0.20084 | 10 | 90761751 | F | II | FAS | Body | opensea | Body-opens | | rs5327705 | 0 |
| cg0036256 | 0.216753 | 0.541916 | 8.651736 | 3.34E-05 | 0.001377 | 2.883196 | 0.433539 | 0.650292 | -0.21675 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5626292 | 1;42 |
| cg1380884 | 0.223479 | 0.522535 | 8.650585 | 3.35E-05 | 0.001378 | 2.882226 | 0.410796 | 0.634274 | -0.22348 | 1 | 1.55E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0060207 | 0.265325 | 0.636625 | 8.649864 | 3.35E-05 | 0.001378 | 2.881617 | 0.503963 | 0.769288 | -0.26533 | 5 | 33245479 | F | II | | IGR | opensea | IGR-opense | | rs5540954 | 0;1 |
| cg1182475 | 0.218443 | 0.552318 | 8.649708 | 3.35E-05 | 0.001378 | 2.881486 | 0.443097 | 0.66154 | -0.21844 | 20 | 3888037 | F | II | PANK2 | 5'UTR | opensea | 5'UTR-open | | rs5531432 | 0;50 |
| cg1148884 | 0.200943 | 0.639258 | 8.649299 | 3.35E-05 | 0.001378 | 2.88114 | 0.538787 | 0.73973 | -0.20094 | 2 | 1.09E+08 | R | II | SULT1C2 | Body | opensea | Body-opens | | rs7548875 | 13;2 |
| cg2743602 | 0.224883 | 0.591351 | 8.648639 | 3.35E-05 | 0.001378 | 2.880583 | 0.47891 | 0.703793 | -0.22488 | 8 | 98859997 | F | II | LAPTM4B | Body | opensea | Body-opens | | rs1910273 | 1;30;31 |
| cg0754823 | 0.204063 | 0.483495 | 8.648168 | 3.35E-05 | 0.001378 | 2.880186 | 0.381464 | 0.585527 | -0.20406 | 5 | 6520444 | R | II | | IGR | opensea | IGR-opense | | rs1005745 | 32;13;5 |
| cg1751488 | 0.212693 | 0.653666 | 8.64768 | 3.36E-05 | 0.001379 | 2.879774 | 0.547319 | 0.760012 | -0.21269 | 2 | 2E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg1167507 | 0.207922 | 0.668754 | 8.647248 | 3.36E-05 | 0.001379 | 2.87941 | 0.564793 | 0.772715 | -0.20792 | 6 | 18353160 | F | II | | IGR | opensea | IGR-opense | | rs5726984 | 1;44 |
| cg1550401 | 0.206155 | 0.666303 | 8.647246 | 3.36E-05 | 0.001379 | 2.879408 | 0.563225 | 0.769381 | -0.20616 | 11 | 32498257 | F | II | | IGR | opensea | IGR-opense | | rs5680680 | 0;42 |
| cg1456481 | 0.219897 | 0.613758 | 8.647088 | 3.36E-05 | 0.001379 | 2.879274 | 0.50381 | 0.723707 | -0.2199 | 4 | 70689006 | R | II | | IGR | opensea | IGR-opense | | rs1478176 | 1 |
| cg1702159 | 0.21951 | 0.502284 | 8.647034 | 3.36E-05 | 0.001379 | 2.879229 | 0.392529 | 0.612039 | -0.21951 | 1 | 66418454 | F | II | PDE4B | Body | opensea | Body-opens | | rs5652084 | 1;20 |
| cg2736871 | 0.230368 | 0.54475 | 8.645694 | 3.36E-05 | 0.001379 | 2.878098 | 0.429566 | 0.659934 | -0.23037 | 18 | 3883519 | F | II | | IGR | shelf | IGR-shelf | chr18:3875 | rs5747800 | 4 |
| cg0070513 | 0.223271 | 0.368837 | 8.645346 | 3.36E-05 | 0.00138 | 2.877804 | 0.257202 | 0.480473 | -0.22327 | 21 | 35649196 | R | II | | IGR | opensea | IGR-opense | | rs5638940 | 9;4;2;1 |
| cg0347647 | 0.224977 | 0.528245 | 8.645061 | 3.36E-05 | 0.00138 | 2.877564 | 0.415757 | 0.640733 | -0.22498 | 8 | 81851811 | F | II | | IGR | opensea | IGR-opense | | rs1890938 | 0;2;32;41;50 |
| cg0745092 | 0.222059 | 0.545774 | 8.644886 | 3.36E-05 | 0.00138 | 2.877416 | 0.434745 | 0.656803 | -0.22206 | 22 | 44701799 | F | II | KIAA1644 | 5'UTR | opensea | 5'UTR-open | | rs1389547 | 0 |
| cg1493548 | 0.21383 | 0.600917 | 8.644299 | 3.36E-05 | 0.00138 | 2.876921 | 0.494002 | 0.707832 | -0.21383 | 22 | 39316598 | R | II | | IGR | opensea | IGR-opense | | rs3693533 | 38;11;1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1815847 | 0.214268 | 0.613185 | 8.643264 | 3.37E-05 | 0.00138 | 2.876047 | 0.506052 | 0.720319 | -0.21427 | 14 | 89334755 | F | II | TTC8 | Body | opensea | Body-opens | rs1482316 | 1;30;33 | | | | |
| cg1052211 | 0.223755 | 0.642426 | 8.643125 | 3.37E-05 | 0.00138 | 2.87593 | 0.530548 | 0.754303 | -0.22375 | 10 | 76859441 | R | II | DUSP13 | Body | opensea | Body-opens | rs5778187 | 39 | | | | |
| cg0748887 | 0.207179 | 0.570858 | 8.642628 | 3.37E-05 | 0.001381 | 2.87551 | 0.467269 | 0.674447 | -0.20718 | 2 | 16955374 | F | II | | IGR | opensea | IGR-opense | rs1885662 | 0;1;30;40;41;47;49 | | | | |
| cg1418033 | 0.227679 | 0.461994 | 8.642384 | 3.37E-05 | 0.001381 | 2.875304 | 0.348154 | 0.575833 | -0.22768 | 5 | 40224461 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1178078 | 0.215043 | 0.605866 | 8.641439 | 3.37E-05 | 0.001381 | 2.874506 | 0.498344 | 0.713388 | -0.21504 | 16 | 72206241 | F | I | PMFBP1 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg0429368 | 0.21369 | 0.708127 | 8.640739 | 3.37E-05 | 0.001381 | 2.873914 | 0.601282 | 0.814972 | -0.21369 | 2 | 75466188 | R | II | | IGR | opensea | IGR-opense | rs5508823 | 1 | | | | |
| cg0372967 | 0.270803 | 0.449855 | 8.640557 | 3.37E-05 | 0.001381 | 2.873761 | 0.314454 | 0.585257 | -0.2708 | 5 | 71855774 | F | II | LOC10250 | Body | opensea | Body-opens | | | | | | |
| cg2340240 | 0.201589 | 0.54002 | 8.639567 | 3.38E-05 | 0.001382 | 2.872925 | 0.439226 | 0.640815 | -0.20159 | 15 | 86651355 | R | II | LINC01584 | Body | opensea | Body-opens | rs5322039 | 41;16 | | | | |
| cg1232214 | 0.256344 | 0.636399 | 8.639491 | 3.38E-05 | 0.001382 | 2.87286 | 0.508227 | 0.764571 | -0.25634 | 3 | 29197502 | R | II | | IGR | opensea | IGR-opense | rs4680717 | 37;2 | | | | |
| cg0517743 | 0.214282 | 0.565208 | 8.638838 | 3.38E-05 | 0.001382 | 2.872309 | 0.458067 | 0.672349 | -0.21428 | 3 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | rs7521296 | 0;1;29;31 | | | | |
| cg0743067 | 0.207644 | 0.603579 | 8.63695 | 3.38E-05 | 0.001383 | 2.870714 | 0.499757 | 0.707401 | -0.20764 | 16 | 10633189 | F | II | EMP2 | Body | opensea | Body-opens | rs5573487 | 3;26;42 | | | | |
| cg0166511 | 0.206053 | 0.687541 | 8.635913 | 3.39E-05 | 0.001384 | 2.869838 | 0.584514 | 0.790567 | -0.20605 | 13 | 77502805 | F | II | BTF3L1 | Body | opensea | Body-opens | | | | | | |
| cg1314118 | 0.225226 | 0.467511 | 8.635626 | 3.39E-05 | 0.001384 | 2.869595 | 0.354898 | 0.580124 | -0.22523 | 5 | 1.48E+08 | R | II | HTR4 | TSS1500 | opensea | TSS1500-op | rs1454926 | 8;2 | | | | |
| cg0360741 | 0.217015 | 0.521643 | 8.634485 | 3.39E-05 | 0.001385 | 2.868631 | 0.413136 | 0.630151 | -0.21701 | 5 | 89881642 | R | II | GPR98 | Body | opensea | Body-opens | rs1892834 | 12 | | | | |
| cg0671110 | 0.225262 | 0.465351 | 8.634083 | 3.39E-05 | 0.001385 | 2.868291 | 0.35272 | 0.577982 | -0.22526 | 11 | 5811025 | F | II | OR52N1 | TSS1500 | opensea | TSS1500-op | rs1450838 | 7;41;51 | | | | |
| cg1386292 | 0.219237 | 0.580335 | 8.632913 | 3.4E-05 | 0.001385 | 2.867302 | 0.470717 | 0.689954 | -0.21924 | 9 | 72158091 | R | II | APBA1 | 5'UTR | opensea | 5'UTR-open | rs1159191 | 50;2 | | | | |
| cg2711105 | 0.252766 | 0.441992 | 8.631294 | 3.4E-05 | 0.001386 | 2.865933 | 0.315609 | 0.568375 | -0.25277 | 2 | 1.39E+08 | R | II | SPOPL | 5'UTR | shore | 5'UTR-shor | chr2:13921 | rs5460482 | 41 | | | |
| cg1964250 | 0.204891 | 0.627389 | 8.630832 | 3.4E-05 | 0.001386 | 2.865543 | 0.524944 | 0.729835 | -0.20489 | 6 | 30224156 | R | II | | IGR | shelf | IGR-shelf | chr6:3022 | | | | | |
| cg0644939 | 0.205094 | 0.504655 | 8.629501 | 3.41E-05 | 0.001387 | 2.864417 | 0.402108 | 0.607202 | -0.20509 | 22 | 46382247 | F | II | | IGR | opensea | IGR-opense | rs5639225 | 1 | | | | |
| cg1579649 | 0.210641 | 0.635441 | 8.62935 | 3.41E-05 | 0.001387 | 2.86429 | 0.530121 | 0.740762 | -0.21064 | 10 | 92811782 | R | II | LINC00502 | Body | opensea | Body-opens | | | | | | |
| cg1275392 | 0.226848 | 0.441239 | 8.627845 | 3.41E-05 | 0.001388 | 2.863017 | 0.327816 | 0.554663 | -0.22685 | 3 | 59552298 | F | II | | IGR | opensea | IGR-opense | rs5505723 | 0;46 | | | | |
| cg0798903 | 0.217304 | 0.547135 | 8.627841 | 3.41E-05 | 0.001388 | 2.863014 | 0.438483 | 0.655787 | -0.2173 | 10 | 98032439 | R | II | BLNK | TSS1500 | opensea | TSS1500-op | rs7072251 | 39;24;2 | | | | |
| cg1865467 | 0.221852 | 0.399342 | 8.627695 | 3.41E-05 | 0.001388 | 2.862891 | 0.288416 | 0.510268 | -0.22185 | 7 | 92794982 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0077899 | 0.201049 | 0.491892 | 8.626208 | 3.41E-05 | 0.001389 | 2.861633 | 0.391368 | 0.592416 | -0.20105 | 8 | 6275498 | F | II | MCPH1 | Body | opensea | Body-opens | rs5407716 | 1;31;38;41 | | | | |
| cg0774876 | 0.232213 | 0.585473 | 8.62481 | 3.42E-05 | 0.00139 | 2.86045 | 0.469366 | 0.701579 | -0.23221 | 2 | 1.13E+08 | F | II | MERTK | Body | shelf | Body-shelf | chr2:11265 | | | | | |
| cg0867146 | 0.239116 | 0.448774 | 8.62353 | 3.42E-05 | 0.00139 | 2.859367 | 0.329216 | 0.568332 | -0.23912 | 12 | 51912686 | R | II | | IGR | opensea | IGR-opense | rs5409346 | 41;37;9;6 | | | | |
| cg1588740 | 0.222768 | 0.568939 | 8.623279 | 3.42E-05 | 0.00139 | 2.859155 | 0.457555 | 0.680324 | -0.22277 | 7 | 47986919 | F | II | PKD1L1 | Body | opensea | Body-opens | rs5286767 | 32 | | | | |
| cg0757506 | 0.202426 | 0.672093 | 8.622574 | 3.42E-05 | 0.001391 | 2.858558 | 0.57088 | 0.773306 | -0.20243 | 2 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | rs1683433 | 1 | | | | |
| cg0843483 | 0.213863 | 0.478424 | 8.622336 | 3.42E-05 | 0.001391 | 2.858356 | 0.371493 | 0.585356 | -0.21386 | 4 | 86792581 | R | II | ARHGAP24 | Body | opensea | Body-opens | rs5580067 | 2;1 | | | | |
| cg1367984 | 0.202283 | 0.638226 | 8.622189 | 3.43E-05 | 0.001391 | 2.858233 | 0.537084 | 0.739368 | -0.20228 | 12 | 29090040 | R | II | | IGR | opensea | IGR-opense | rs1827185 | 21 | | | | |
| cg1054341 | 0.23257 | 0.532528 | 8.621308 | 3.43E-05 | 0.001391 | 2.857486 | 0.416243 | 0.648813 | -0.23257 | 3 | 37489393 | R | II | | IGR | opensea | IGR-opense | rs7628974 | 50;45;2 | | | | |
| cg1359723 | 0.210582 | 0.70114 | 8.620715 | 3.43E-05 | 0.001391 | 2.856985 | 0.595849 | 0.806431 | -0.21058 | 12 | 10458222 | F | II | KLRD1 | 5'UTR | opensea | 5'UTR-open | rs5387291 | 0 | | | | |
| cg0469705 | 0.205371 | 0.4849 | 8.620346 | 3.43E-05 | 0.001391 | 2.856672 | 0.382215 | 0.587585 | -0.20537 | 4 | 1.88E+08 | R | II | FAT1 | Body | opensea | Body-opens | rs5668229 | 2 | | | | |
| cg2579483 | 0.212178 | 0.522523 | 8.620341 | 3.43E-05 | 0.001391 | 2.856668 | 0.416434 | 0.628612 | -0.21218 | 18 | 29018594 | F | II | | IGR | opensea | IGR-opense | rs1771661 | 10;39 | | | | |
| cg0751229 | 0.220173 | 0.55055 | 8.619355 | 3.43E-05 | 0.001392 | 2.855833 | 0.440463 | 0.660636 | -0.22017 | 2 | 2.35E+08 | R | II | UGT1A6 | TSS1500 | opensea | TSS1500-op | rs7563561 | 37;2 | | | | |
| cg0013473 | 0.250789 | 0.615719 | 8.618689 | 3.43E-05 | 0.001392 | 2.85527 | 0.490324 | 0.741114 | -0.25079 | 1 | 1.2E+08 | R | II | | IGR | opensea | IGR-opense | rs5876723 | 37 | | | | |
| cg2017532 | 0.270075 | 0.487228 | 8.618049 | 3.44E-05 | 0.001393 | 2.854728 | 0.352191 | 0.622266 | -0.27007 | 13 | 50858812 | F | II | DLEU1 | Body | opensea | Body-opens | rs5378112 | 0 | | | | |
| cg2475965 | 0.239745 | 0.514743 | 8.617022 | 3.44E-05 | 0.001393 | 2.853859 | 0.394871 | 0.634616 | -0.23975 | 17 | 76801065 | R | II | USP36 | Body | shelf | Body-shelf | chr17:767 | rs7476313 | 41;13;1 | | | |
| cg0230174 | 0.208732 | 0.604469 | 8.616758 | 3.44E-05 | 0.001394 | 2.853635 | 0.500103 | 0.708835 | -0.20873 | 7 | 80593517 | R | II | | IGR | opensea | IGR-opense | rs5715258 | 46;22 | | | | |
| cg0840934 | 0.20478 | 0.576842 | 8.616702 | 3.44E-05 | 0.001394 | 2.853587 | 0.474452 | 0.679232 | -0.20478 | 7 | 30241229 | R | II | | IGR | opensea | IGR-opense | rs5288359 | 27 | | | | |
| cg0076858 | 0.209857 | 0.525511 | 8.615319 | 3.44E-05 | 0.001394 | 2.852416 | 0.420582 | 0.630439 | -0.20986 | 14 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | rs5627792 | 1;7;50 | | | | |
| cg0789753 | 0.235238 | 0.547292 | 8.615075 | 3.45E-05 | 0.001395 | 2.85221 | 0.429673 | 0.664911 | -0.23524 | 6 | 97098016 | R | II | | IGR | opensea | IGR-opense | rs1853949 | 35;7;1 | | | | |
| cg0024633 | 0.218235 | 0.585483 | 8.612938 | 3.45E-05 | 0.001395 | 2.8504 | 0.476366 | 0.694601 | -0.21824 | 12 | 79809932 | F | II | SYT1 | Body | opensea | Body-opens | rs5381424 | 4;30 | | | | |
| cg0192824 | 0.218615 | 0.647342 | 8.612787 | 3.45E-05 | 0.001395 | 2.850272 | 0.538035 | 0.75665 | -0.21861 | 15 | 72613427 | F | II | CELF6 | TSS1500 | shore | TSS1500-sh | chr15:726 | rs5745545 | 0 | | | |
| cg1226682 | 0.218806 | 0.514476 | 8.612225 | 3.45E-05 | 0.001396 | 2.849795 | 0.405073 | 0.623879 | -0.21881 | 12 | 19954094 | F | II | | IGR | opensea | IGR-opense | rs1856792 | 12;36 | | | | |
| cg1227801 | 0.227551 | 0.445271 | 8.611768 | 3.45E-05 | 0.001396 | 2.849409 | 0.331495 | 0.559047 | -0.22755 | 1 | 35266042 | F | II | | IGR | opensea | IGR-opense | rs7943634 | 17;35 | | | | |
| cg0904619 | 0.214494 | 0.54188 | 8.610961 | 3.46E-05 | 0.001396 | 2.848724 | 0.434634 | 0.649127 | -0.21449 | 10 | 96351402 | R | II | HELLS | Body | opensea | Body-opens | rs5285467 | 45;4;1 | | | | |
| cg2374576 | 0.254745 | 0.525227 | 8.610823 | 3.46E-05 | 0.001396 | 2.848608 | 0.397854 | 0.652599 | -0.25474 | 3 | 53589382 | R | II | CACNA1D | Body | opensea | Body-opens | rs1853499 | 32 | | | | |
| cg2349995 | 0.20393 | 0.639513 | 8.610705 | 3.46E-05 | 0.001396 | 2.848508 | 0.537548 | 0.741478 | -0.20393 | 1 | 1.54E+08 | R | II | S100A16 | 5'UTR | opensea | 5'UTR-open | rs5351632 | 49;44;1 | | | | |
| cg0514181 | 0.243532 | 0.588996 | 8.608706 | 3.46E-05 | 0.001398 | 2.846814 | 0.46723 | 0.710762 | -0.24353 | 1 | 2.48E+08 | F | II | OR13G1 | TSS1500 | opensea | TSS1500-op | rs1809210 | 22 | | | | |
| cg0528488 | 0.227356 | 0.494841 | 8.608443 | 3.46E-05 | 0.001398 | 2.846591 | 0.381163 | 0.608519 | -0.22736 | 3 | 1.01E+08 | F | II | ABI3BP | Body | opensea | Body-opens | | | | | | |
| cg1853638 | 0.213783 | 0.715419 | 8.60792 | 3.47E-05 | 0.001398 | 2.846147 | 0.608528 | 0.82231 | -0.21378 | 6 | 1.37E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2733558 | 0.258701 | 0.507433 | 8.607889 | 3.47E-05 | 0.001398 | 2.846121 | 0.378083 | 0.636784 | -0.2587 | 5 | 95616198 | F | II | LOC10192 | Body | opensea | Body-opens | | | | | | |
| cg0428065 | 0.221709 | 0.596852 | 8.6078 | 3.47E-05 | 0.001398 | 2.846046 | 0.485998 | 0.707706 | -0.22171 | 10 | 1.26E+08 | F | II | CHST15 | Body | opensea | Body-opens | rs1448830 | 24;32 | | | | |
| cg2599201 | 0.22579 | 0.539161 | 8.606215 | 3.47E-05 | 0.001398 | 2.844702 | 0.426267 | 0.652056 | -0.22579 | 13 | 77387018 | R | II | | IGR | opensea | IGR-opense | rs3775467 | 26;2 | | | | |
| cg2031087 | 0.212338 | 0.393254 | 8.605336 | 3.47E-05 | 0.001399 | 2.843957 | 0.287085 | 0.499423 | -0.21234 | 17 | 73310221 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1355136 | 0.236258 | 0.59281 | 8.603548 | 3.48E-05 | 0.0014 | 2.842441 | 0.474681 | 0.710939 | -0.23626 | 5 | 57370189 | R | II | | IGR | opensea | IGR-opense | rs5446055 | 40 | | | | |
| cg0720349 | 0.213938 | 0.493622 | 8.602981 | 3.48E-05 | 0.0014 | 2.84196 | 0.386653 | 0.600591 | -0.21394 | 20 | 49283757 | F | II | FAM65C | Body | opensea | Body-opens | rs5489768 | 38 | | | | |
| cg2080240 | 0.214742 | 0.613948 | 8.602902 | 3.48E-05 | 0.0014 | 2.841894 | 0.506577 | 0.721319 | -0.21474 | 7 | 95496933 | F | II | DYNC1I1 | Body | opensea | Body-opens | rs5393377 | 1;48 | | | | |
| cg0453017 | 0.218877 | 0.637498 | 8.600941 | 3.48E-05 | 0.001402 | 2.840231 | 0.52806 | 0.746937 | -0.21888 | 8 | 23656770 | F | II | | IGR | opensea | IGR-opense | rs1817663 | 1;28 | | | | |
| cg1685210 | 0.217572 | 0.625222 | 8.599472 | 3.49E-05 | 0.001403 | 2.838984 | 0.516437 | 0.734008 | -0.21757 | 15 | 63624154 | R | II | CA12 | Body | opensea | Body-opens | rs3465206 | 12;2 | | | | |
| cg0172007 | 0.234649 | 0.494292 | 8.597473 | 3.49E-05 | 0.001404 | 2.837288 | 0.376968 | 0.611617 | -0.23465 | 12 | 31835278 | R | II | AMN1 | Body | opensea | Body-opens | | | | | | |
| cg1693735 | 0.211161 | 0.531721 | 8.596168 | 3.5E-05 | 0.001405 | 2.836181 | 0.426141 | 0.637302 | -0.21116 | 1 | 25070163 | R | II | | IGR | shore | IGR-shore | chr1:2507 | rs5279498 | 36 | | | |
| cg0527917 | 0.253561 | 0.577969 | 8.59612 | 3.5E-05 | 0.001405 | 2.83614 | 0.451188 | 0.70475 | -0.25356 | 17 | 7113697 | F | II | DLG4 | Body | shelf | Body-shelf | chr17:711 | rs1143752 | 24;30;32 | | | |
| cg2156052 | 0.232357 | 0.607532 | 8.593903 | 3.5E-05 | 0.001406 | 2.834258 | 0.491353 | 0.72371 | -0.23236 | 13 | 60308688 | R | II | DIAPH3 | Body | opensea | Body-opens | | | | | | |
| cg0934173 | 0.220603 | 0.479558 | 8.593483 | 3.51E-05 | 0.001407 | 2.833902 | 0.369256 | 0.58986 | -0.2206 | 19 | 40269534 | R | II | LEUTX | 5'UTR | opensea | 5'UTR-open | rs5359749 | 51;16 | | | | |
| cg0021932 | 0.202997 | 0.45099 | 8.593377 | 3.51E-05 | 0.001407 | 2.833812 | 0.349491 | 0.552488 | -0.203 | 13 | 75949597 | F | II | TBC1D4 | Body | opensea | Body-opens | rs5680877 | 0;12;39;47;51 | | | | |
| cg1419511 | 0.207195 | 0.53166 | 8.592263 | 3.51E-05 | 0.001407 | 2.832866 | 0.428062 | 0.635258 | -0.2072 | 12 | 1.09E+08 | R | II | SVOP | Body | opensea | Body-opens | rs1512513 | 40 | | | | |
| cg1832586 | 0.210689 | 0.613036 | 8.592193 | 3.51E-05 | 0.001407 | 2.832807 | 0.507691 | 0.71838 | -0.21069 | 10 | 1.17E+08 | F | II | FAM160B1 | Body | shelf | Body-shelf | chr10:116 | rs5704991 | 45;48 | | | |
| cg1592880 | 0.205235 | 0.603619 | 8.591335 | 3.51E-05 | 0.001408 | 2.832078 | 0.501001 | 0.706236 | -0.20524 | 3 | 64188875 | R | II | PRICKLE2 | 5'UTR | opensea | 5'UTR-open | rs5623044 | 40 | | | | |
| cg2477184 | 0.22054 | 0.429278 | 8.59103 | 3.51E-05 | 0.001408 | 2.831819 | 0.319008 | 0.539548 | -0.22054 | 18 | 47717446 | F | II | MYO5B | Body | shelf | Body-shelf | chr18:477 | rs5598902 | 4;11 | | | |
| cg0840762 | 0.234877 | 0.642026 | 8.590899 | 3.51E-05 | 0.001408 | 2.831708 | 0.524587 | 0.759464 | -0.23488 | 6 | 24743861 | R | II | | IGR | opensea | IGR-opense | rs1492210 | 46 | | | | |
| cg0852138 | 0.231831 | 0.558293 | 8.590874 | 3.51E-05 | 0.001408 | 2.831687 | 0.442378 | 0.674209 | -0.23183 | 2 | 1.66E+08 | F | II | SCN3A | Body | opensea | Body-opens | rs1904262 | 24;27 | | | | |
| cg1778734 | 0.209104 | 0.680592 | 8.590186 | 3.52E-05 | 0.001408 | 2.831102 | 0.576041 | 0.785144 | -0.2091 | 6 | 1.59E+08 | F | II | TULP4 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg1320215 | 0.201347 | 0.637593 | 8.589924 | 3.52E-05 | 0.001408 | 2.83088 | 0.53692 | 0.738267 | -0.20135 | 2 | 68053707 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | rs5548080 | 1 | | | | |
| cg0090642 | 0.213787 | 0.590724 | 8.588634 | 3.52E-05 | 0.001409 | 2.829784 | 0.483831 | 0.697618 | -0.21379 | 3 | 78917133 | R | II | ROBO1 | Body | opensea | Body-opens | rs1847155 | 51;36 | | | | |
| cg1576210 | 0.212034 | 0.504118 | 8.588589 | 3.52E-05 | 0.001409 | 2.829746 | 0.398101 | 0.610135 | -0.21203 | 1 | 15558548 | R | II | | IGR | opensea | IGR-opense | rs5288622 | 33;32;27;21;19;17;13;9;6;3;2 | | | | |
| cg0959151 | 0.222268 | 0.622829 | 8.588545 | 3.52E-05 | 0.001409 | 2.829709 | 0.511695 | 0.733963 | -0.22227 | 6 | 33241770 | R | I | RPS18 | Body | shore | Body-shore | chr6:3323 | rs1053995 | 35;32;4;2 | | | |
| cg0507491 | 0.21408 | 0.671273 | 8.588277 | 3.52E-05 | 0.001409 | 2.829481 | 0.564233 | 0.778313 | -0.21408 | 2 | 2.4E+08 | F | II | HDAC4 | Body | opensea | Body-opens | rs5773881 | 1;22 | | | | |
| cg1350295 | 0.222096 | 0.537382 | 8.587962 | 3.52E-05 | 0.001409 | 2.829214 | 0.426334 | 0.64843 | -0.2221 | 10 | 92180666 | F | II | LOC10192 | Body | opensea | Body-opens | rs3722415 | 0 | | | | |
| cg0309030 | 0.202 | 0.443392 | 8.58672 | 3.53E-05 | 0.00141 | 2.828159 | 0.342391 | 0.544392 | -0.202 | 4 | 88419748 | F | II | SPARCL1 | Body | opensea | Body-opens | rs1175932 | 8 | | | | |
| cg1231234 | 0.209476 | 0.580415 | 8.586271 | 3.53E-05 | 0.00141 | 2.827777 | 0.475677 | 0.685153 | -0.20948 | 18 | 29091783 | F | II | DSG2 | Body | opensea | Body-opens | rs5331341 | 0 | | | | |
| cg0361593 | 0.204181 | 0.660764 | 8.584295 | 3.53E-05 | 0.001411 | 2.826098 | 0.558674 | 0.762855 | -0.20418 | 5 | 1.43E+08 | F | II | ARHGAP26 | Body | opensea | Body-opens | rs3444719 | 29;43 | | | | |
| cg0917455 | 0.219971 | 0.460941 | 8.583001 | 3.54E-05 | 0.001412 | 2.824998 | 0.350955 | 0.570926 | -0.21997 | 1 | 1.53E+08 | F | II | S100A8 | TSS1500 | opensea | TSS1500-op | rs1463697 | 39 | | | | |
| cg1179548 | 0.220227 | 0.549337 | 8.582742 | 3.54E-05 | 0.001412 | 2.824779 | 0.439223 | 0.65945 | -0.22023 | 1 | 65038492 | R | II | CACHD1 | Body | opensea | Body-opens | | | | | | |
| cg0967422 | 0.209678 | 0.556483 | 8.581994 | 3.54E-05 | 0.001412 | 2.824143 | 0.451644 | 0.661322 | -0.20968 | 16 | 58914345 | R | II | | IGR | opensea | IGR-opense | rs5709192 | 13 | | | | |
| cg2645345 | 0.239866 | 0.514 | 8.581944 | 3.54E-05 | 0.001412 | 2.8241 | 0.394067 | 0.633933 | -0.23987 | 12 | 6316657 | F | II | CD9 | Body | opensea | Body-opens | rs1931577 | 3;22 | | | | |
| cg2199854 | 0.2219 | 0.699546 | 8.581601 | 3.54E-05 | 0.001412 | 2.823809 | 0.588596 | 0.810496 | -0.2219 | 10 | 33605101 | F | II | NRP1 | Body | opensea | Body-opens | rs1128471 | 1 | | | | |
| cg1504486 | 0.23849 | 0.509327 | 8.58116 | 3.54E-05 | 0.001413 | 2.823434 | 0.390082 | 0.628572 | -0.23849 | 3 | 1.36E+08 | F | II | STAG1 | Body | opensea | Body-opens | rs5473781 | 2;47 | | | | |
| cg1149640 | 0.280822 | 0.576559 | 8.580703 | 3.54E-05 | 0.001413 | 2.823045 | 0.436148 | 0.71697 | -0.28082 | 6 | 88428902 | R | II | | IGR | opensea | IGR-opense | rs5540577 | 49;17;2 | | | | |
| cg1943977 | 0.219629 | 0.614909 | 8.57914 | 3.55E-05 | 0.001413 | 2.821717 | 0.505094 | 0.724723 | -0.21963 | 1 | 2.06E+08 | F | II | | IGR | opensea | IGR-opense | rs5285916 | 0;1 | | | | |
| cg2386767 | 0.209768 | 0.416025 | 8.579024 | 3.55E-05 | 0.001413 | 2.821618 | 0.311141 | 0.520909 | -0.20977 | 10 | 73404170 | F | II | CDH23 | Body | opensea | Body-opens | rs1393746 | 0 | | | | |
| cg0931811 | 0.234197 | 0.570762 | 8.578868 | 3.55E-05 | 0.001414 | 2.821486 | 0.453663 | 0.687861 | -0.2342 | 3 | 65817280 | R | II | MAGI1 | Body | opensea | Body-opens | rs5624730 | 11 | | | | |
| cg2454027 | 0.210724 | 0.636666 | 8.575689 | 3.56E-05 | 0.001415 | 2.818783 | 0.531304 | 0.742028 | -0.21072 | 10 | 63701252 | R | II | ARID5B | Body | opensea | Body-opens | rs5669949 | 2 | | | | |
| cg2189888 | 0.228141 | 0.542017 | 8.574947 | 3.56E-05 | 0.001416 | 2.818151 | 0.427946 | 0.656087 | -0.22814 | 6 | 22568278 | F | II | HDGFL1 | TSS1500 | shore | TSS1500-sh | chr6:2256 | rs1393940 | 4;47 | | | |
| cg0269512 | 0.201427 | 0.606342 | 8.574566 | 3.56E-05 | 0.001416 | 2.817827 | 0.505628 | 0.707055 | -0.20143 | 5 | 1.5E+08 | F | II | CAMK2A | Body | opensea | Body-opens | rs1402044 | 0;39;47 | | | | |
| cg1076628 | 0.200334 | 0.674577 | 8.574184 | 3.56E-05 | 0.001416 | 2.817502 | 0.57441 | 0.774744 | -0.20033 | 6 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | rs5731956 | 35;36 | | | | |
| cg1624435 | 0.203773 | 0.671769 | 8.573402 | 3.56E-05 | 0.001416 | 2.816837 | 0.569883 | 0.773656 | -0.20377 | 21 | 27777555 | F | II | | IGR | opensea | IGR-opense | rs1815828 | 0 | | | | |
| cg0390058 | 0.208808 | 0.656525 | 8.572194 | 3.57E-05 | 0.001417 | 2.815809 | 0.552121 | 0.760929 | -0.20881 | 1 | 96468567 | R | II | | IGR | opensea | IGR-opense | rs5715203 | 48 | | | | |
| cg0743293 | 0.245553 | 0.571717 | 8.571583 | 3.57E-05 | 0.001417 | 2.815289 | 0.44894 | 0.694493 | -0.24555 | 3 | 1.93E+08 | R | II | MB21D2 | Body | opensea | Body-opens | rs5722651 | 10;2 | | | | |
| cg1115058 | 0.200394 | 0.531278 | 8.570318 | 3.57E-05 | 0.001418 | 2.814213 | 0.431081 | 0.631475 | -0.20039 | 2 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0041979 | 0.204037 | 0.598147 | 8.570156 | 3.57E-05 | 0.001418 | 2.814075 | 0.496129 | 0.700166 | -0.20404 | 7 | 1.37E+08 | F | II | DGKI | Body | opensea | Body-opens | rs5687644 | 11;31;42 | | | | |
| cg0594812 | 0.217154 | 0.658984 | 8.569613 | 3.57E-05 | 0.001419 | 2.813613 | 0.550407 | 0.767561 | -0.21715 | 7 | 1.08E+08 | R | II | LAMB1 | Body | opensea | Body-opens | rs1405634 | 36;31;2;1 | | | | |
| cg2685273 | 0.226302 | 0.660107 | 8.569461 | 3.57E-05 | 0.001419 | 2.813483 | 0.546956 | 0.773258 | -0.2263 | 1 | 2.07E+08 | R | II | FCAMR | TSS200 | opensea | TSS200-ope | rs1478641 | 38 | | | | |
| cg1527215 | 0.279212 | 0.473238 | 8.56823 | 3.58E-05 | 0.00142 | 2.812436 | 0.333632 | 0.612844 | -0.27921 | 4 | 38525916 | F | II | LINC01258 | TSS1500 | opensea | TSS1500-op | rs7313995 | 38 | | | | |
| cg2451142 | 0.274306 | 0.491201 | 8.568085 | 3.58E-05 | 0.00142 | 2.812312 | 0.354049 | 0.628354 | -0.27431 | 7 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | rs5753398 | 12 | | | | |
| cg0813188 | 0.212924 | 0.520277 | 8.567226 | 3.58E-05 | 0.00142 | 2.811581 | 0.413815 | 0.626739 | -0.21292 | 7 | 1.35E+08 | R | II | SLC13A4 | TSS1500 | opensea | TSS1500-op | rs5367003 | 1 | | | | |
| cg0981239 | 0.214249 | 0.551631 | 8.567102 | 3.58E-05 | 0.00142 | 2.811475 | 0.444507 | 0.658756 | -0.21425 | 15 | 30078357 | F | II | TJP1 | Body | opensea | Body-opens | rs1507866 | 16 | | | | |
| cg0959462 | 0.241339 | 0.4227 | 8.566529 | 3.58E-05 | 0.00142 | 2.810987 | 0.30203 | 0.543369 | -0.24134 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs7610611 | 27;21 | | | |
| cg0990375 | 0.2298 | 0.581953 | 8.565778 | 3.59E-05 | 0.001421 | 2.810348 | 0.467053 | 0.696853 | -0.2298 | 8 | 81312506 | R | II | | IGR | opensea | IGR-opense | rs1913149 | 18 | | | | |
| cg1916855 | 0.203921 | 0.628648 | 8.564389 | 3.59E-05 | 0.001421 | 2.809166 | 0.526687 | 0.730608 | -0.20392 | 6 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | rs5752364 | 1;44 | | | | |
| cg0518696 | 0.218315 | 0.651051 | 8.564076 | 3.59E-05 | 0.001421 | 2.808898 | 0.541893 | 0.760209 | -0.21832 | 5 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2434380 | 0.233716 | 0.564262 | 8.563947 | 3.59E-05 | 0.001421 | 2.808789 | 0.447404 | 0.68112 | -0.23372 | 2 | 53145796 | F | II | | IGR | opensea | IGR-opense | rs5707733 | 4;6;29 | | | | |
| cg0015484 | 0.209683 | 0.513845 | 8.563211 | 3.59E-05 | 0.001422 | 2.808162 | 0.409004 | 0.618687 | -0.20968 | 13 | 47418771 | R | II | HTR2A | Body | opensea | Body-opens | rs1835734 | 45;40 | | | | |
| cg1186739 | 0.23039 | 0.560035 | 8.562827 | 3.59E-05 | 0.001422 | 2.807835 | 0.444841 | 0.67523 | -0.23039 | 15 | 51718133 | R | II | | IGR | opensea | IGR-opense | rs5387749 | 39;4;2 | | | | |
| cg0421758 | 0.202961 | 0.647819 | 8.56225 | 3.6E-05 | 0.001422 | 2.807343 | 0.546339 | 0.7493 | -0.20296 | 10 | 44495810 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1906106 | 0.256335 | 0.53086 | 8.562025 | 3.6E-05 | 0.001422 | 2.807152 | 0.402692 | 0.659027 | -0.25634 | 12 | 43703894 | R | II | | IGR | opensea | IGR-opense | rs5556477 | 41;38;8;5;2 | | | | |
| cg1257692 | 0.233914 | 0.667214 | 8.561824 | 3.6E-05 | 0.001423 | 2.806981 | 0.550257 | 0.784171 | -0.23391 | 12 | 65980573 | F | II | LOC10050 | Body | opensea | Body-opens | rs1812842 | 0;30;33 | | | | |
| cg1155498 | 0.230692 | 0.643263 | 8.560694 | 3.6E-05 | 0.001423 | 2.806018 | 0.527917 | 0.758609 | -0.23069 | 14 | 32937945 | R | II | AKAP6 | Body | opensea | Body-opens | rs1163562 | 40;34;11 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1440724 | 0.200965 | 0.4262 | 8.560553 | 3.6E-05 | 0.001423 | 2.805898 | 0.325717 | 0.526682 | -0.20097 | 5 | 1.72E+08 | R | II | | IGR | shelf | IGR-shelf | chr5:17206 | | | | | | |
| cg2123294 | 0.211993 | 0.549657 | 8.560427 | 3.6E-05 | 0.001423 | 2.805791 | 0.44366 | 0.655653 | -0.21199 | 20 | 33509394 | R | II | ACSS2 | ExonBnd | opensea | ExonBnd-op | | rs2006284 | 19;2 | | | | |
| cg1222443 | 0.23062 | 0.597286 | 8.55959 | 3.6E-05 | 0.001424 | 2.805077 | 0.481975 | 0.712596 | -0.23062 | 11 | 10616068 | F | II | MRVI1-AS1 | Body | opensea | Body-opens | | rs1905889 | 27;41;49 | | | | |
| cg2072800 | 0.239701 | 0.514302 | 8.559452 | 3.6E-05 | 0.001424 | 2.80496 | 0.394451 | 0.634152 | -0.2397 | 5 | 57637089 | F | II | | IGR | opensea | IGR-opense | | rs7310293 | 0 | | | | |
| cg0749635 | 0.227619 | 0.49518 | 8.557743 | 3.61E-05 | 0.001424 | 2.803504 | 0.381371 | 0.60899 | -0.22762 | 9 | 1536641 | R | II | | IGR | opensea | IGR-opense | | rs5664636 | 33;2 | | | | |
| cg1488430 | 0.214246 | 0.669746 | 8.557223 | 3.61E-05 | 0.001425 | 2.803061 | 0.562623 | 0.776869 | -0.21425 | 13 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs5531118 | 37;1 | | | | |
| cg0489729 | 0.233854 | 0.429663 | 8.557042 | 3.61E-05 | 0.001425 | 2.802906 | 0.312735 | 0.54659 | -0.23385 | 6 | 21402890 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0435315 | 0.239029 | 0.49394 | 8.555984 | 3.61E-05 | 0.001425 | 2.802005 | 0.374425 | 0.613454 | -0.23903 | 15 | 77722632 | F | II | HMG20A | 5'UTR | opensea | 5'UTR-open | | rs1892357 | 1 | | | | |
| cg2308084 | 0.246421 | 0.539256 | 8.554957 | 3.62E-05 | 0.001426 | 2.801129 | 0.416045 | 0.662466 | -0.24642 | 6 | 16413699 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs4716067 | 32 | | | | |
| cg0452976 | 0.221596 | 0.657268 | 8.553356 | 3.62E-05 | 0.001427 | 2.799764 | 0.54647 | 0.768066 | -0.2216 | 9 | 19033888 | R | II | SAXO1 | TSS1500 | opensea | TSS1500-op | | rs5510150 | 16 | | | | |
| cg1340348 | 0.200474 | 0.587816 | 8.552798 | 3.62E-05 | 0.001427 | 2.799289 | 0.487578 | 0.688053 | -0.20047 | 17 | 19388360 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0602996 | 0.225923 | 0.667676 | 8.55273 | 3.62E-05 | 0.001427 | 2.79923 | 0.554715 | 0.780638 | -0.22592 | 21 | 35171352 | R | II | ITSN1 | Body | opensea | Body-opens | | rs5590944 | 25;1 | | | | |
| cg0056934 | 0.216113 | 0.618288 | 8.552578 | 3.62E-05 | 0.001427 | 2.799101 | 0.510232 | 0.726344 | -0.21611 | 3 | 1.01E+08 | F | II | ABI3BP | Body | opensea | Body-opens | | rs5620966 | 0;1;6 | | | | |
| cg2635848 | 0.24241 | 0.576289 | 8.552132 | 3.63E-05 | 0.001427 | 2.798721 | 0.455084 | 0.697494 | -0.24241 | 22 | 42674091 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2255772 | 0.215003 | 0.642626 | 8.551585 | 3.63E-05 | 0.001428 | 2.798254 | 0.535124 | 0.750127 | -0.215 | 10 | 60368369 | R | II | BICC1 | Body | opensea | Body-opens | | rs7021515 | 14 | | | | |
| cg1122336 | 0.201319 | 0.503558 | 8.551576 | 3.63E-05 | 0.001428 | 2.798246 | 0.402898 | 0.604217 | -0.20132 | 6 | 32023102 | R | II | TNXB | Body | opensea | Body-opens | | rs5742560 | 44;31 | | | | |
| cg1293788 | 0.221732 | 0.612073 | 8.551294 | 3.63E-05 | 0.001428 | 2.798006 | 0.501207 | 0.722939 | -0.22173 | 20 | 1761383 | R | II | LOC100288 | TSS1500 | shelf | TSS1500-sh | chr20:175 | rs1124644 | 46;20;18;4 | | | | |
| cg2018449 | 0.200044 | 0.538594 | 8.551247 | 3.63E-05 | 0.001428 | 2.797966 | 0.438572 | 0.638615 | -0.20004 | 17 | 8888813 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2426166 | 0.206565 | 0.428138 | 8.55062 | 3.63E-05 | 0.001428 | 2.797432 | 0.324855 | 0.53142 | -0.20657 | 1 | 1.81E+08 | R | II | | IGR | opensea | IGR-opense | | rs5468271 | 12 | | | | |
| cg0456601 | 0.312986 | 0.534443 | 8.550569 | 3.63E-05 | 0.001428 | 2.797387 | 0.37795 | 0.690936 | -0.31299 | 5 | 1.68E+08 | R | II | TENM2 | Body | opensea | Body-opens | | rs5559666 | 1 | | | | |
| cg2487211 | 0.209827 | 0.61103 | 8.550426 | 3.63E-05 | 0.001428 | 2.797266 | 0.506116 | 0.715943 | -0.20983 | 19 | 42356072 | F | II | DMRTC2 | 3'UTR | opensea | 3'UTR-open | | rs5339324 | 16;29;50 | | | | |
| cg2018658 | 0.210689 | 0.604511 | 8.549417 | 3.63E-05 | 0.001429 | 2.796405 | 0.499167 | 0.709856 | -0.21069 | 3 | 1.94E+08 | R | II | | IGR | opensea | IGR-opense | | rs6792878 | 47;2 | | | | |
| cg2644472 | 0.20455 | 0.564221 | 8.549228 | 3.63E-05 | 0.001429 | 2.796244 | 0.461946 | 0.666496 | -0.20455 | 11 | 11629695 | F | II | GALNT18 | Body | opensea | Body-opens | | rs1911071 | 0 | | | | |
| cg0225357 | 0.230863 | 0.634843 | 8.547766 | 3.64E-05 | 0.00143 | 2.794997 | 0.519412 | 0.750275 | -0.23086 | 7 | 29953445 | F | II | WIPF3 | Body | opensea | Body-opens | | rs1421366 | 0;9;10;39 | | | | |
| cg0974989 | 0.211166 | 0.664108 | 8.547641 | 3.64E-05 | 0.00143 | 2.794891 | 0.558525 | 0.769691 | -0.21117 | 16 | 73360136 | F | II | | IGR | opensea | IGR-opense | | rs1440503 | 46 | | | | |
| cg2058378 | 0.212148 | 0.637385 | 8.546824 | 3.64E-05 | 0.00143 | 2.794193 | 0.53131 | 0.743459 | -0.21215 | 10 | 52569361 | R | II | A1CF | Body | opensea | Body-opens | | | | | | | |
| cg0324181 | 0.215248 | 0.625727 | 8.546247 | 3.64E-05 | 0.00143 | 2.793701 | 0.518103 | 0.733351 | -0.21525 | 6 | 6731222 | R | II | | IGR | opensea | IGR-opense | | rs1470283 | 17;6;1 | | | | |
| cg0325830 | 0.207299 | 0.491391 | 8.542403 | 3.65E-05 | 0.001432 | 2.79042 | 0.387742 | 0.595041 | -0.2073 | 13 | 88869717 | F | II | LOC105377 | Body | opensea | Body-opens | | rs5357958 | 12;20;35;41 | | | | |
| cg0596377 | 0.227943 | 0.548375 | 8.542218 | 3.66E-05 | 0.001433 | 2.790262 | 0.434403 | 0.662346 | -0.22794 | 1 | 46573359 | R | II | PIK3R3 | Body | opensea | Body-opens | | rs5396646 | 17;5;1 | | | | |
| cg0212959 | 0.203887 | 0.669166 | 8.540639 | 3.66E-05 | 0.001433 | 2.788915 | 0.567223 | 0.771109 | -0.20389 | 17 | 36624613 | R | II | ARHGAP23 | Body | shelf | Body-shelf | chr17:366 | rs1244970 | 19;7;6 | | | | |
| cg2254407 | 0.215273 | 0.576242 | 8.540266 | 3.66E-05 | 0.001434 | 2.788595 | 0.468605 | 0.683878 | -0.21527 | 13 | 98736068 | R | II | | IGR | opensea | IGR-opense | | rs7706857 | 50;47;2 | | | | |
| cg0818466 | 0.238657 | 0.656012 | 8.539725 | 3.66E-05 | 0.001434 | 2.788134 | 0.536684 | 0.775341 | -0.23866 | 3 | 1.01E+08 | F | II | ABI3BP | ExonBnd | opensea | ExonBnd-op | | rs1469223 | 0;26;40 | | | | |
| cg1362767 | 0.203763 | 0.455699 | 8.538777 | 3.67E-05 | 0.001435 | 2.787325 | 0.353818 | 0.557581 | -0.20376 | 9 | 17601150 | R | II | SH3GL2 | Body | opensea | Body-opens | | rs5741654 | 24;14 | | | | |
| cg1470281 | 0.203233 | 0.561768 | 8.538413 | 3.67E-05 | 0.001435 | 2.787013 | 0.460151 | 0.663385 | -0.20323 | 21 | 19894763 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1244317 | 0.204654 | 0.671607 | 8.538134 | 3.67E-05 | 0.001435 | 2.786776 | 0.56928 | 0.773934 | -0.20465 | 3 | 70905636 | F | II | | IGR | opensea | IGR-opense | | rs7383695 | 25 | | | | |
| cg1756673 | 0.227866 | 0.529948 | 8.535898 | 3.67E-05 | 0.001436 | 2.784866 | 0.416015 | 0.643881 | -0.22787 | 15 | 96456154 | F | II | | IGR | opensea | IGR-opense | | rs1153943 | 3 | | | | |
| cg1113159 | 0.237864 | 0.602363 | 8.535731 | 3.67E-05 | 0.001436 | 2.784723 | 0.483432 | 0.721295 | -0.23786 | 1 | 2.04E+08 | F | II | PLEKHA6 | Body | shelf | Body-shelf | chr1:2042 | rs5732606 | 30 | | | | |
| cg2154666 | 0.2135 | 0.539967 | 8.535582 | 3.68E-05 | 0.001437 | 2.784596 | 0.433217 | 0.646717 | -0.2135 | 11 | 15815167 | R | II | | IGR | opensea | IGR-opense | | rs5610332 | 20;14 | | | | |
| cg1671060 | 0.221341 | 0.555356 | 8.534336 | 3.68E-05 | 0.001437 | 2.783531 | 0.444686 | 0.666026 | -0.22134 | 15 | 33424752 | R | II | | IGR | opensea | IGR-opense | | rs5397189 | 30 | | | | |
| cg2406231 | 0.226663 | 0.589634 | 8.534155 | 3.68E-05 | 0.001437 | 2.783377 | 0.476302 | 0.702966 | -0.22666 | 4 | 41610944 | R | II | LIMCH1 | Body | opensea | Body-opens | | | | | | | |
| cg0073915 | 0.216072 | 0.565698 | 8.533188 | 3.68E-05 | 0.001438 | 2.78255 | 0.457661 | 0.673734 | -0.21607 | 17 | 36832423 | F | II | C17orf96 | TSS1500 | shore | TSS1500-sh | chr17:368 | | | | | | |
| cg0463973 | 0.210191 | 0.565708 | 8.532367 | 3.68E-05 | 0.001438 | 2.781849 | 0.460613 | 0.670804 | -0.21019 | 4 | 1.42E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1044210 | 0.218069 | 0.561832 | 8.532006 | 3.69E-05 | 0.001438 | 2.78154 | 0.452798 | 0.670866 | -0.21807 | 7 | 16066532 | R | II | | IGR | opensea | IGR-opense | | rs3684453 | 19;10 | | | | |
| cg0373347 | 0.225998 | 0.429402 | 8.528633 | 3.7E-05 | 0.001441 | 2.778657 | 0.316403 | 0.542401 | -0.226 | 3 | 1.97E+08 | R | II | SENP5 | Body | opensea | Body-opens | | rs3425188 | 44;41;31;15;13;5;1 | | | | |
| cg0613664 | 0.259958 | 0.54497 | 8.527065 | 3.7E-05 | 0.001441 | 2.777316 | 0.414991 | 0.674949 | -0.25996 | 7 | 1.49E+08 | F | II | ZNF282 | Body | opensea | Body-opens | | | | | | | |
| cg0901140 | 0.231308 | 0.621021 | 8.525794 | 3.7E-05 | 0.001442 | 2.77623 | 0.505367 | 0.736675 | -0.23131 | 1 | 2.17E+08 | R | II | ESRRG | Body | opensea | Body-opens | | rs1391875 | 33;2;1 | | | | |
| cg1355382 | 0.253558 | 0.532454 | 8.525201 | 3.71E-05 | 0.001442 | 2.775722 | 0.405675 | 0.659233 | -0.25356 | 4 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs5728741 | 41 | | | | |
| cg1697269 | 0.201594 | 0.550096 | 8.523434 | 3.71E-05 | 0.001444 | 2.774211 | 0.449299 | 0.650893 | -0.20159 | 15 | 58112679 | F | II | | IGR | opensea | IGR-opense | | rs1483841 | 0;1 | | | | |
| cg2295087 | 0.203913 | 0.645926 | 8.52241 | 3.71E-05 | 0.001444 | 2.773336 | 0.54397 | 0.747883 | -0.20391 | 4 | 74540238 | F | II | | IGR | opensea | IGR-opense | | rs1810110 | 0;1;43 | | | | |
| cg2670300 | 0.280726 | 0.527888 | 8.521565 | 3.72E-05 | 0.001444 | 2.772612 | 0.387525 | 0.668251 | -0.28073 | 15 | 55834750 | F | II | PYGO1 | 3'UTR | opensea | 3'UTR-open | | rs1849950 | 11;18;19 | | | | |
| cg0250191 | 0.252253 | 0.583502 | 8.520584 | 3.72E-05 | 0.001445 | 2.771773 | 0.457375 | 0.709628 | -0.25225 | 2 | 1.09E+08 | R | II | LIMS1 | Body | opensea | Body-opens | | rs5487182 | 38;1 | | | | |
| cg2086774 | 0.2069 | 0.481172 | 8.520262 | 3.72E-05 | 0.001445 | 2.771497 | 0.377722 | 0.584622 | -0.2069 | 11 | 4871813 | R | II | OR51S1 | TSS1500 | opensea | TSS1500-op | | rs1850744 | 51;26;2 | | | | |
| cg1322412 | 0.20101 | 0.483792 | 8.519813 | 3.72E-05 | 0.001445 | 2.771114 | 0.383287 | 0.584296 | -0.20101 | 1 | 1.54E+08 | R | II | S100A16 | 5'UTR | opensea | 5'UTR-open | | rs2016962 | 37 | | | | |
| cg2680938 | 0.204224 | 0.547046 | 8.519424 | 3.72E-05 | 0.001445 | 2.770781 | 0.444934 | 0.649158 | -0.20422 | 2 | 2E+08 | R | II | | IGR | opensea | IGR-opense | | rs7908649 | 39;31 | | | | |
| cg0724376 | 0.200581 | 0.404334 | 8.518996 | 3.73E-05 | 0.001446 | 2.770414 | 0.304043 | 0.504624 | -0.20058 | 12 | 1.25E+08 | F | II | | IGR | shelf | IGR-shelf | chr12:125 | rs1387979 | 0 | | | | |
| cg0688722 | 0.219278 | 0.665731 | 8.516794 | 3.73E-05 | 0.001447 | 2.76853 | 0.556092 | 0.775369 | -0.21928 | 4 | 15500173 | F | II | CC2D2A | Body | opensea | Body-opens | | rs5405426 | 14;29 | | | | |
| cg1041114 | 0.225192 | 0.624634 | 8.516632 | 3.73E-05 | 0.001447 | 2.768391 | 0.512038 | 0.73723 | -0.22519 | 21 | 26549459 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2225036 | 0.200747 | 0.657794 | 8.515662 | 3.74E-05 | 0.001447 | 2.767561 | 0.55742 | 0.758168 | -0.20075 | 1 | 44483866 | R | II | SLC6A9 | TSS1500 | opensea | TSS1500-op | | rs5533994 | 43;1 | | | | |
| cg0423907 | 0.240334 | 0.576632 | 8.51444 | 3.74E-05 | 0.001448 | 2.766514 | 0.456465 | 0.696799 | -0.24033 | 1 | 2.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5669311 | 1;3 | | | | |
| cg2200802 | 0.223195 | 0.596934 | 8.51383 | 3.74E-05 | 0.001448 | 2.765992 | 0.485336 | 0.708531 | -0.22319 | 3 | 1.75E+08 | F | II | MIR548AY | Body | opensea | Body-opens | | rs1808168 | 3;46 | | | | |
| cg2289536 | 0.260654 | 0.474132 | 8.51375 | 3.74E-05 | 0.001448 | 2.765923 | 0.343805 | 0.604459 | -0.26065 | 22 | 39574449 | F | II | | IGR | opensea | IGR-opense | | rs1173623 | 32;36 | | | | |
| cg2700230 | 0.216998 | 0.551485 | 8.51369 | 3.74E-05 | 0.001448 | 2.765872 | 0.442986 | 0.659984 | -0.217 | 10 | 93335196 | R | II | LOC100188 | Body | opensea | Body-opens | | | | | | | |
| cg0604966 | 0.210825 | 0.430662 | 8.51186 | 3.75E-05 | 0.001449 | 2.764305 | 0.32525 | 0.536074 | -0.21082 | 13 | 1.12E+08 | F | II | TEX29 | Body | opensea | Body-opens | | rs5358439 | 0;7;9;42 | | | | |
| cg2395274 | 0.240447 | 0.602159 | 8.510919 | 3.75E-05 | 0.00145 | 2.763499 | 0.481935 | 0.722382 | -0.24045 | 17 | 64463393 | F | II | PRKCA | Body | opensea | Body-opens | | rs7822765 | 34;44;49 | | | | |
| cg0386112 | 0.207403 | 0.473007 | 8.51061 | 3.75E-05 | 0.00145 | 2.763234 | 0.369305 | 0.576709 | -0.2074 | 16 | 73774662 | R | II | | IGR | opensea | IGR-opense | | rs1882093 | 12;2 | | | | |
| cg2579443 | 0.205367 | 0.545033 | 8.507477 | 3.76E-05 | 0.001452 | 2.76055 | 0.44235 | 0.647717 | -0.20537 | 16 | 81558090 | R | II | CMIP | Body | opensea | Body-opens | | rs1137353 | 26 | | | | |
| cg0405866 | 0.209123 | 0.485625 | 8.507164 | 3.76E-05 | 0.001452 | 2.760282 | 0.381064 | 0.590187 | -0.20912 | 3 | 70410237 | F | II | | IGR | opensea | IGR-opense | | rs1421702 | 15 | | | | |
| cg2507188 | 0.204305 | 0.620219 | 8.50658 | 3.76E-05 | 0.001453 | 2.759782 | 0.518067 | 0.722372 | -0.20431 | 7 | 91273415 | R | II | | IGR | opensea | IGR-opense | | rs1458764 | 49;25;2;1 | | | | |
| cg0819156 | 0.235762 | 0.563362 | 8.505409 | 3.77E-05 | 0.001454 | 2.758778 | 0.445481 | 0.681243 | -0.23576 | 20 | 33643925 | R | II | TRPC4AP | Body | opensea | Body-opens | | rs3776738 | 37;16 | | | | |
| cg0519907 | 0.247471 | 0.627505 | 8.50525 | 3.77E-05 | 0.001454 | 2.758642 | 0.50377 | 0.751241 | -0.24747 | 6 | 47217441 | F | II | TNFRSF21 | Body | opensea | Body-opens | | rs7373638 | 0;15 | | | | |
| cg2280538 | 0.200786 | 0.526895 | 8.504719 | 3.77E-05 | 0.001454 | 2.758186 | 0.426501 | 0.627288 | -0.20079 | 14 | 51760188 | R | II | | IGR | opensea | IGR-opense | | rs5461088 | 45;11;7;2 | | | | |
| cg2748049 | 0.232152 | 0.486798 | 8.504691 | 3.77E-05 | 0.001454 | 2.758162 | 0.370722 | 0.602874 | -0.23215 | 13 | 48784568 | F | II | | IGR | opensea | IGR-opense | | rs5536301 | 51 | | | | |
| cg1885771 | 0.201992 | 0.673488 | 8.504187 | 3.77E-05 | 0.001454 | 2.75773 | 0.572492 | 0.774483 | -0.20199 | 10 | 77288339 | F | II | C10orf11 | Body | opensea | Body-opens | | rs2115913 | 11 | | | | |
| cg2111161 | 0.224057 | 0.539566 | 8.502439 | 3.78E-05 | 0.001455 | 2.756232 | 0.427537 | 0.651594 | -0.22406 | 14 | 32473981 | R | II | | IGR | opensea | IGR-opense | | rs1013530 | 41;33;18 | | | | |
| cg2331631 | 0.281232 | 0.522544 | 8.501134 | 3.78E-05 | 0.001456 | 2.755113 | 0.381928 | 0.66316 | -0.28123 | 12 | 21606508 | R | II | PYROXD1 | Body | opensea | Body-opens | | | | | | | |
| cg0934587 | 0.23278 | 0.644552 | 8.500303 | 3.78E-05 | 0.001456 | 2.754401 | 0.528162 | 0.760942 | -0.23278 | 1 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0445275 | 0.210582 | 0.501976 | 8.500249 | 3.78E-05 | 0.001456 | 2.754354 | 0.396685 | 0.607267 | -0.21058 | 20 | 24483088 | R | II | SYNDIG1 | 5'UTR | opensea | 5'UTR-open | | rs1452803 | 20 | | | | |
| cg0041312 | 0.20317 | 0.645288 | 8.499985 | 3.78E-05 | 0.001456 | 2.754128 | 0.543704 | 0.746873 | -0.20317 | 1 | 1.64E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0685258 | 0.211245 | 0.572631 | 8.499954 | 3.78E-05 | 0.001456 | 2.754101 | 0.467008 | 0.678254 | -0.21125 | 5 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5421992 | 0;1;28;36;37;48 | | | | |
| cg2033825 | 0.214062 | 0.633855 | 8.499083 | 3.79E-05 | 0.001457 | 2.753354 | 0.526824 | 0.740886 | -0.21406 | 12 | 38940501 | R | II | | IGR | opensea | IGR-opense | | rs5274351 | 21 | | | | |
| cg1331954 | 0.241856 | 0.42625 | 8.498016 | 3.79E-05 | 0.001458 | 2.752439 | 0.305322 | 0.547178 | -0.24186 | 2 | 71580473 | F | II | ZNF638 | Body | opensea | Body-opens | | rs5751349 | 1 | | | | |
| cg1619515 | 0.205703 | 0.664624 | 8.497197 | 3.79E-05 | 0.001459 | 2.751737 | 0.561773 | 0.767475 | -0.2057 | 4 | 1.1E+08 | F | II | COL25A1 | Body | opensea | Body-opens | | rs1890165 | 0;16;46 | | | | |
| cg1591663 | 0.210522 | 0.449299 | 8.497163 | 3.79E-05 | 0.001459 | 2.751708 | 0.344038 | 0.55456 | -0.21052 | 13 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5685196 | 1 | | | | |
| cg2591541 | 0.239281 | 0.553823 | 8.496424 | 3.79E-05 | 0.001459 | 2.751074 | 0.434182 | 0.673463 | -0.23928 | 14 | 1.03E+08 | F | II | HSP90AA1 | Body | shore | Body-shore | chr14:102 | rs1892352 | 16;19;28;45 | | | | |
| cg0766930 | 0.212983 | 0.566877 | 8.495895 | 3.8E-05 | 0.001459 | 2.75062 | 0.460385 | 0.673368 | -0.21298 | 16 | 54691248 | F | II | | IGR | opensea | IGR-opense | | rs5697727 | 9;17;25 | | | | |
| cg2369118 | 0.231426 | 0.49028 | 8.495626 | 3.8E-05 | 0.001459 | 2.750389 | 0.374567 | 0.605993 | -0.23143 | 22 | 29305360 | R | II | ZNRF3 | Body | opensea | Body-opens | | rs5364290 | 1 | | | | |
| cg2664523 | 0.215277 | 0.605108 | 8.495558 | 3.8E-05 | 0.001459 | 2.750331 | 0.497469 | 0.712746 | -0.21528 | 5 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2171361 | 0.228759 | 0.543967 | 8.49547 | 3.8E-05 | 0.001459 | 2.750255 | 0.429587 | 0.658346 | -0.22876 | 4 | 79126719 | F | II | FRAS1 | Body | opensea | Body-opens | | | | | | | |
| cg1308226 | 0.229675 | 0.544483 | 8.494895 | 3.8E-05 | 0.001459 | 2.749762 | 0.429646 | 0.659321 | -0.22967 | 1 | 69843439 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0176125 | 0.202253 | 0.681463 | 8.493988 | 3.8E-05 | 0.00146 | 2.748984 | 0.580337 | 0.78259 | -0.20225 | 14 | 72243817 | F | II | | IGR | opensea | IGR-opense | | rs5660441 | 0;3;4;18 | | | | |
| cg2188791 | 0.230621 | 0.578217 | 8.49327 | 3.8E-05 | 0.00146 | 2.748367 | 0.462906 | 0.693528 | -0.23062 | 5 | 1.53E+08 | R | II | GRIA1 | Body | opensea | Body-opens | | rs1158951 | 47;1 | | | | |
| cg2166486 | 0.210244 | 0.64739 | 8.492447 | 3.81E-05 | 0.001461 | 2.747661 | 0.542268 | 0.752512 | -0.21024 | 2 | 24537140 | R | II | ITSN2 | Body | opensea | Body-opens | | | | | | | |
| cg0324883 | 0.213543 | 0.564483 | 8.491519 | 3.81E-05 | 0.001462 | 2.746864 | 0.457712 | 0.671255 | -0.21354 | 12 | 55864950 | F | II | OR6C70 | TSS1500 | opensea | TSS1500-op | | rs5517369 | 0;25 | | | | |
| cg0342850 | 0.26024 | 0.604768 | 8.491467 | 3.81E-05 | 0.001462 | 2.74682 | 0.474648 | 0.734888 | -0.26024 | 1 | 2.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs1819431 | 0;19 | | | | |
| cg2262883 | 0.206451 | 0.546532 | 8.491183 | 3.81E-05 | 0.001462 | 2.746576 | 0.443307 | 0.649758 | -0.20645 | 3 | 1.48E+08 | R | II | AGTR1 | 5'UTR | opensea | 5'UTR-open | | rs5673547 | 29 | | | | |
| cg1364462 | 0.226402 | 0.432602 | 8.490867 | 3.81E-05 | 0.001462 | 2.746304 | 0.319401 | 0.545803 | -0.2264 | 9 | 1.13E+08 | R | II | PALM2 | Body | shelf | Body-shelf | chr9:11254 | | | | | | |
| cg2704018 | 0.224246 | 0.393346 | 8.489664 | 3.82E-05 | 0.001463 | 2.745272 | 0.281223 | 0.505469 | -0.22425 | 7 | 93820405 | R | II | | IGR | opensea | IGR-opense | | rs5752427 | 33;19 | | | | |
| cg2106348 | 0.220244 | 0.59874 | 8.489284 | 3.82E-05 | 0.001463 | 2.744946 | 0.488618 | 0.708861 | -0.22024 | 7 | 1.43E+08 | R | II | | IGR | opensea | IGR-opense | | rs5293048 | 29 | | | | |
| cg0447469 | 0.230669 | 0.574326 | 8.486914 | 3.82E-05 | 0.001465 | 2.74291 | 0.458992 | 0.689661 | -0.23067 | 17 | 55158407 | R | II | | IGR | shelf | IGR-shelf | chr17:551 | rs1401916 | 2 | | | | |
| cg1637121 | 0.255279 | 0.543447 | 8.485322 | 3.83E-05 | 0.001466 | 2.741544 | 0.415808 | 0.671087 | -0.25528 | 5 | 95615672 | F | II | LOC101925 | Body | opensea | Body-opens | | rs1486079 | 10;34 | | | | |
| cg1848495 | 0.218769 | 0.595602 | 8.485245 | 3.83E-05 | 0.001466 | 2.741478 | 0.486218 | 0.704987 | -0.21877 | 3 | 1.49E+08 | F | II | WWTR1 | 1stExon | opensea | 1stExon-op | | rs1925365 | 43 | | | | |
| cg0746983 | 0.218317 | 0.600354 | 8.484981 | 3.83E-05 | 0.001466 | 2.741251 | 0.491195 | 0.709512 | -0.21832 | 2 | 60703084 | R | II | BCL11A | Body | opensea | Body-opens | | rs7606422 | 40;38 | | | | |
| cg2283319 | 0.2005 | 0.623732 | 8.481572 | 3.84E-05 | 0.001468 | 2.738322 | 0.523481 | 0.723982 | -0.2005 | 15 | 90643843 | F | II | IDH2 | 1stExon | shore | 1stExon-sh | chr15:906 | rs5333871 | 44 | | | | |
| cg1205334 | 0.209942 | 0.596496 | 8.480568 | 3.84E-05 | 0.001468 | 2.737459 | 0.491526 | 0.701467 | -0.20994 | 3 | 72536534 | F | II | | IGR | opensea | IGR-opense | | rs1868339 | 2;15;33;42 | | | | |
| cg2606083 | 0.212762 | 0.551711 | 8.48027 | 3.85E-05 | 0.001469 | 2.737203 | 0.44533 | 0.658091 | -0.21276 | 21 | 19258310 | R | II | NCRNA001 | TSS1500 | opensea | TSS1500-op | | rs5557773 | 1 | | | | |
| cg0350732 | 0.247314 | 0.580596 | 8.479485 | 3.85E-05 | 0.001469 | 2.736528 | 0.456938 | 0.704253 | -0.24731 | 16 | 2801952 | R | I | LOC100128 | Body | island | Body-islanc | chr16:280 | rs1865435 | 41;16 | | | | |
| cg0682599 | 0.242671 | 0.57391 | 8.478901 | 3.85E-05 | 0.00147 | 2.736026 | 0.452575 | 0.695246 | -0.24267 | 22 | 33074131 | R | II | SYN3 | Body | opensea | Body-opens | | | | | | | |
| cg0010354 | 0.202849 | 0.555661 | 8.477694 | 3.85E-05 | 0.00147 | 2.734989 | 0.454237 | 0.657086 | -0.20285 | 2 | 45225295 | R | II | | IGR | shelf | IGR-shelf | chr2:4522 | rs5330276 | 41;2 | | | | |
| cg2374134 | 0.208786 | 0.573906 | 8.477588 | 3.85E-05 | 0.00147 | 2.734898 | 0.469513 | 0.678299 | -0.20879 | 2 | 69427498 | R | II | ANTXR1 | Body | opensea | Body-opens | | rs3726491 | 26 | | | | |
| cg1956516 | 0.206807 | 0.642161 | 8.477576 | 3.85E-05 | 0.00147 | 2.734887 | 0.538758 | 0.745565 | -0.20681 | 7 | 1.4E+08 | F | II | TBXAS1 | Body | opensea | Body-opens | | rs5725120 | 38;48 | | | | |
| cg1901117 | 0.208832 | 0.58115 | 8.476761 | 3.86E-05 | 0.001471 | 2.734186 | 0.476734 | 0.685567 | -0.20883 | 2 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0276024 | 0.200774 | 0.674909 | 8.476028 | 3.86E-05 | 0.001471 | 2.733556 | 0.574522 | 0.775296 | -0.20077 | 18 | 46086207 | F | II | CTIF | 5'UTR | opensea | 5'UTR-open | | rs5381602 | 0;21;32 | | | | |
| cg1078425 | 0.228247 | 0.63546 | 8.475949 | 3.86E-05 | 0.001471 | 2.733488 | 0.521337 | 0.749584 | -0.22825 | 6 | 56711206 | R | II | DST | Body | shelf | Body-shelf | chr6:5670 | rs5510378 | 48;35 | | | | |
| cg2308076 | 0.27592 | 0.547174 | 8.475238 | 3.86E-05 | 0.001471 | 2.732877 | 0.409214 | 0.685134 | -0.27592 | 1 | 1.71E+08 | R | II | FMO1 | TSS1500 | opensea | TSS1500-op | | rs2064078 | 10 | | | | |
| cg1024005 | 0.209897 | 0.519395 | 8.474914 | 3.86E-05 | 0.001472 | 2.732598 | 0.414446 | 0.624343 | -0.2099 | 19 | 52256222 | F | II | FPR1 | TSS1500 | opensea | TSS1500-op | | rs2864155 | 21 | | | | |
| cg0689003 | 0.202737 | 0.436877 | 8.474423 | 3.86E-05 | 0.001472 | 2.732176 | 0.335509 | 0.538245 | -0.20274 | 4 | 1.47E+08 | R | II | ZNF827 | Body | opensea | Body-opens | | rs5402008 | 19 | | | | |
| cg0893358 | 0.236328 | 0.494616 | 8.474271 | 3.86E-05 | 0.001472 | 2.732046 | 0.376451 | 0.61278 | -0.23633 | 20 | 8108599 | F | II | | IGR | opensea | IGR-opense | | rs7418354 | 0;7;10 | | | | |
| cg0629179 | 0.231047 | 0.442346 | 8.473916 | 3.87E-05 | 0.001472 | 2.73174 | 0.326823 | 0.55787 | -0.23105 | 13 | 49323968 | R | II | | IGR | opensea | IGR-opense | | rs5729498 | 20 | | | | |
| cg2485900 | 0.227187 | 0.662797 | 8.473893 | 3.87E-05 | 0.001472 | 2.731721 | 0.549203 | 0.77639 | -0.22719 | 3 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | rs5637943 | 0 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1703184 | 0.217096 | 0.529374 | 8.473735 | 3.87E-05 | 0.001472 | 2.731584 | 0.420826 | 0.637922 | -0.2171 | 17 | 71646778 | F | II | | IGR | opensea | IGR-opense | | rs1493104 | 0 | | | |
| cg0161707 | 0.219027 | 0.474487 | 8.472979 | 3.87E-05 | 0.001473 | 2.730935 | 0.364973 | 0.584 | -0.21903 | 7 | 964629 | R | II | ADAP1 | Body | shore | Body-shore | chr7:9659( | rs1433319 | 35;1 | | | |
| cg0755057 | 0.202439 | 0.500882 | 8.472745 | 3.87E-05 | 0.001473 | 2.730733 | 0.399663 | 0.602101 | -0.20244 | 19 | 4832918 | F | II | TICAM1 | TSS1500 | shore | TSS1500-sh | chr19:483 | | | | | |
| cg1148919 | 0.218035 | 0.411853 | 8.472602 | 3.87E-05 | 0.001473 | 2.73061 | 0.302836 | 0.520871 | -0.21804 | 11 | 35993771 | F | II | LDLRAD3 | 5'UTR | opensea | 5'UTR-open | | rs1465846 | 0;29 | | | |
| cg1881480 | 0.204968 | 0.660095 | 8.472428 | 3.87E-05 | 0.001473 | 2.73046 | 0.557611 | 0.762579 | -0.20497 | 5 | 1.44E+08 | R | II | KCTD16 | Body | opensea | Body-open | | rs1499364 | 36;26;1 | | | |
| cg0636027 | 0.206579 | 0.681625 | 8.472036 | 3.87E-05 | 0.001473 | 2.730124 | 0.578336 | 0.784915 | -0.20658 | 11 | 85923678 | F | II | | IGR | opensea | IGR-opense | | rs1407758 | 0 | | | |
| cg1695472 | 0.207271 | 0.607039 | 8.468698 | 3.88E-05 | 0.001475 | 2.727251 | 0.503403 | 0.710675 | -0.20727 | 10 | 3440330 | F | II | | IGR | opensea | IGR-opense | | rs5688946 | 47 | | | |
| cg0797421 | 0.20313 | 0.67133 | 8.46863 | 3.88E-05 | 0.001475 | 2.727193 | 0.569765 | 0.772895 | -0.20313 | 4 | 91879768 | R | II | CCSER1 | Body | opensea | Body-open | | rs1454960 | 47;25;1 | | | |
| cg0393092 | 0.256923 | 0.562283 | 8.468447 | 3.88E-05 | 0.001475 | 2.727035 | 0.433822 | 0.690745 | -0.25692 | 3 | 3862703 | F | II | LRRN1 | 5'UTR | opensea | 5'UTR-open | | rs5373070 | 1;10 | | | |
| cg1737118 | 0.233899 | 0.405541 | 8.467544 | 3.89E-05 | 0.001476 | 2.726258 | 0.288591 | 0.52249 | -0.2339 | 2 | 61555931 | R | II | USP34 | Body | opensea | Body-open | | rs1406279 | 46;45 | | | |
| cg0325730 | 0.202412 | 0.564384 | 8.467473 | 3.89E-05 | 0.001476 | 2.726198 | 0.463178 | 0.66559 | -0.20241 | 13 | 30722898 | F | II | | IGR | opensea | IGR-opense | | rs1410509 | 1 | | | |
| cg2703290 | 0.200984 | 0.624843 | 8.466947 | 3.89E-05 | 0.001476 | 2.725745 | 0.524351 | 0.725335 | -0.20098 | 13 | 51878551 | F | II | | IGR | opensea | IGR-opense | | rs5526076 | 0 | | | |
| cg1099233 | 0.219539 | 0.62879 | 8.46408 | 3.9E-05 | 0.001478 | 2.723277 | 0.51902 | 0.738559 | -0.21954 | 4 | 42645776 | R | II | ATP8A1 | Body | opensea | Body-open | | rs5757187 | 30;2 | | | |
| cg0005819 | 0.215197 | 0.517517 | 8.463198 | 3.9E-05 | 0.001478 | 2.722518 | 0.409919 | 0.625115 | -0.2152 | 13 | 83873782 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1378598 | 0.208294 | 0.553036 | 8.46302 | 3.9E-05 | 0.001479 | 2.722364 | 0.44889 | 0.657183 | -0.20829 | 13 | 61533956 | F | II | | IGR | opensea | IGR-opense | | rs1388197 | 1;4;44;50 | | | |
| cg0189306 | 0.254872 | 0.552797 | 8.462393 | 3.9E-05 | 0.001479 | 2.721824 | 0.42536 | 0.680233 | -0.25487 | 7 | 90254267 | F | II | | IGR | opensea | IGR-opense | | rs5766203 | 19 | | | |
| cg0318591 | 0.207994 | 0.641385 | 8.461324 | 3.91E-05 | 0.001479 | 2.720904 | 0.537388 | 0.745383 | -0.20799 | 2 | 75369629 | F | II | TACR1 | Body | opensea | Body-open | | rs5502934 | 47 | | | |
| cg2477507 | 0.203144 | 0.560372 | 8.459751 | 3.91E-05 | 0.00148 | 2.719549 | 0.4588 | 0.661944 | -0.20314 | 10 | 45804640 | R | II | OR13A1 | 5'UTR | opensea | 5'UTR-open | | rs1510570 | 30;17;9;7;1 | | | |
| cg1466672 | 0.227838 | 0.644032 | 8.459735 | 3.91E-05 | 0.00148 | 2.719535 | 0.530113 | 0.757951 | -0.22784 | 2 | 1E+08 | R | II | AFF3 | Body | opensea | Body-open | | rs5724600 | 41 | | | |
| cg0443782 | 0.205939 | 0.68335 | 8.459342 | 3.91E-05 | 0.00148 | 2.719197 | 0.58038 | 0.786319 | -0.20594 | 7 | 1.43E+08 | F | II | TAS2R40 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg0983315 | 0.207207 | 0.655373 | 8.458333 | 3.92E-05 | 0.00148 | 2.718328 | 0.551769 | 0.758977 | -0.20721 | 14 | 51823006 | R | II | | IGR | opensea | IGR-opense | | rs1396948 | 44 | | | |
| cg0372427 | 0.205447 | 0.610077 | 8.456713 | 3.92E-05 | 0.001482 | 2.716932 | 0.507354 | 0.7128 | -0.20545 | 1 | 56636154 | R | II | | IGR | opensea | IGR-opense | | rs5348957 | 36;34;24;9 | | | |
| cg2449410 | 0.226196 | 0.577902 | 8.45495 | 3.93E-05 | 0.001483 | 2.715413 | 0.464804 | 0.691 | -0.2262 | 4 | 48015981 | F | II | CNGA1 | TSS1500 | shelf | TSS1500-sh | chr4:4801 | | | | | |
| cg1566614 | 0.263475 | 0.462966 | 8.454258 | 3.93E-05 | 0.001483 | 2.714816 | 0.331228 | 0.594703 | -0.26348 | 3 | 1.3E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1300( | rs5399514 | 21 | | | |
| cg2730012 | 0.228592 | 0.583792 | 8.453711 | 3.93E-05 | 0.001483 | 2.714345 | 0.469496 | 0.698088 | -0.22859 | 2 | 64713000 | R | II | | IGR | opensea | IGR-opense | | rs9631064 | 21;7 | | | |
| cg0799287 | 0.222441 | 0.392427 | 8.452721 | 3.93E-05 | 0.001483 | 2.713492 | 0.281206 | 0.503647 | -0.22244 | 4 | 88441629 | R | II | SPARCL1 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg2653128 | 0.223875 | 0.349115 | 8.451797 | 3.94E-05 | 0.001484 | 2.712695 | 0.237178 | 0.461053 | -0.22387 | 13 | 98799358 | R | II | FARP1 | 5'UTR | shelf | 5'UTR-shelf | chr13:987 | rs5514094 | 22;11 | | | |
| cg0397272 | 0.229265 | 0.480228 | 8.451493 | 3.94E-05 | 0.001484 | 2.712433 | 0.365596 | 0.59486 | -0.22926 | 6 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs1500909 | 1;8 | | | |
| cg2080645 | 0.201798 | 0.647403 | 8.451158 | 3.94E-05 | 0.001484 | 2.712144 | 0.546504 | 0.748302 | -0.2018 | 11 | 94480929 | R | II | | IGR | opensea | IGR-opense | | rs1168468 | 2 | | | |
| cg1335252 | 0.226387 | 0.608214 | 8.451052 | 3.94E-05 | 0.001484 | 2.712052 | 0.49502 | 0.721407 | -0.22639 | 5 | 65418807 | F | II | | IGR | opensea | IGR-opense | | rs5700541 | 1;51 | | | |
| cg0182461 | 0.205222 | 0.495128 | 8.450661 | 3.94E-05 | 0.001484 | 2.711715 | 0.392517 | 0.597739 | -0.20522 | 16 | 85315212 | R | II | | IGR | shelf | IGR-shelf | chr16:853 | rs1852429 | 36;34 | | | |
| cg0651660 | 0.20644 | 0.631957 | 8.447653 | 3.95E-05 | 0.001486 | 2.709122 | 0.528738 | 0.735177 | -0.20644 | 2 | 8661038 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2649853 | 0.245361 | 0.523699 | 8.447331 | 3.95E-05 | 0.001486 | 2.708843 | 0.401019 | 0.646379 | -0.24536 | 2 | 1.98E+08 | R | II | HSPD1 | Body | shore | Body-shore | chr2:1983( | rs1381707 | 28;27;14 | | | |
| cg1105687 | 0.201793 | 0.563039 | 8.446579 | 3.95E-05 | 0.001487 | 2.708195 | 0.462142 | 0.663935 | -0.20179 | 3 | 87007970 | R | II | VGLL3 | Body | opensea | Body-open | | rs5700668 | 50;16 | | | |
| cg1986731 | 0.209066 | 0.63718 | 8.446003 | 3.96E-05 | 0.001487 | 2.707698 | 0.532647 | 0.741712 | -0.20907 | 6 | 56228811 | F | II | RNU6-71P | Body | opensea | Body-open | | rs5508484 | 1;17;20;51 | | | |
| cg1613161 | 0.220294 | 0.522483 | 8.44577 | 3.96E-05 | 0.001487 | 2.707497 | 0.412336 | 0.63263 | -0.22029 | 6 | 49312802 | F | II | | IGR | opensea | IGR-opense | | rs5675759 | 0;13;20 | | | |
| cg0738333 | 0.22519 | 0.642964 | 8.444614 | 3.96E-05 | 0.001488 | 2.7065 | 0.53037 | 0.755559 | -0.22519 | 1 | 64380349 | R | II | ROR1 | Body | opensea | Body-open | | | | | | |
| cg1016666 | 0.233621 | 0.581096 | 8.444035 | 3.96E-05 | 0.001488 | 2.706001 | 0.464286 | 0.697907 | -0.23362 | 5 | 60624229 | R | II | | IGR | shelf | IGR-shelf | chr5:6062( | rs5541660 | 33;2 | | | |
| cg0381303 | 0.244394 | 0.646052 | 8.443583 | 3.96E-05 | 0.001489 | 2.705611 | 0.523855 | 0.768249 | -0.24439 | 6 | 1.37E+08 | F | II | MAP7 | Body | opensea | Body-open | | rs1837341 | 1;50;51 | | | |
| cg1970739 | 0.216779 | 0.495825 | 8.443468 | 3.96E-05 | 0.001489 | 2.705511 | 0.387436 | 0.604214 | -0.21678 | 2 | 1.59E+08 | R | II | CCDC148 | Body | opensea | Body-open | | | | | | |
| cg0882646 | 0.208567 | 0.614259 | 8.443362 | 3.96E-05 | 0.001489 | 2.70542 | 0.509976 | 0.718543 | -0.20857 | 2 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs7717152 | 23;1 | | | |
| cg0985010 | 0.238075 | 0.551108 | 8.443 | 3.96E-05 | 0.001489 | 2.705108 | 0.432071 | 0.670146 | -0.23808 | 14 | 60195307 | R | II | RTN1 | Body | shore | Body-shore | chr14:601( | rs5424686 | 40;26 | | | |
| cg2110255 | 0.215397 | 0.653947 | 8.442378 | 3.97E-05 | 0.001489 | 2.704571 | 0.546248 | 0.761645 | -0.2154 | 8 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0253801 | 0.202819 | 0.508625 | 8.441174 | 3.97E-05 | 0.00149 | 2.703532 | 0.407215 | 0.610035 | -0.20282 | 2 | 1.77E+08 | R | II | | IGR | opensea | IGR-opense | | rs2018005 | 49;13 | | | |
| cg2450234 | 0.215286 | 0.671734 | 8.440504 | 3.97E-05 | 0.00149 | 2.702953 | 0.564091 | 0.779377 | -0.21529 | 14 | 24877938 | F | II | NYNRIN | Body | opensea | Body-open | | rs1398198 | 14;20;31 | | | |
| cg1626926 | 0.202186 | 0.60889 | 8.438935 | 3.98E-05 | 0.001491 | 2.701599 | 0.507797 | 0.709983 | -0.20219 | 16 | 78830399 | F | II | WWOX | Body | opensea | Body-open | | rs1141166 | 8;16;24;25;37 | | | |
| cg0374915 | 0.222464 | 0.564519 | 8.438167 | 3.98E-05 | 0.001491 | 2.700936 | 0.453287 | 0.675751 | -0.22246 | 1 | 31155158 | R | II | | IGR | shelf | IGR-shelf | chr1:3115( | rs5369134 | 14;9;2 | | | |
| cg0563119 | 0.23917 | 0.397423 | 8.438027 | 3.98E-05 | 0.001491 | 2.700815 | 0.277838 | 0.517008 | -0.23917 | 6 | 31146417 | R | II | PSORS1C3 | TSS1500 | shore | TSS1500-sh | chr6:3114( | rs1052989 | 16 | | | |
| cg0365568 | 0.225924 | 0.570895 | 8.437331 | 3.98E-05 | 0.001492 | 2.700214 | 0.457932 | 0.683857 | -0.22592 | 16 | 1508785 | F | II | CLCN7 | Body | shore | Body-shore | chr16:150( | rs1404939 | 1;13;33;34;46 | | | |
| cg1237491 | 0.203625 | 0.576658 | 8.436965 | 3.98E-05 | 0.001492 | 2.699898 | 0.474845 | 0.67847 | -0.20362 | 9 | 1.3E+08 | R | II | STXBP1 | Body | opensea | Body-open | | rs1843155 | 37;22 | | | |
| cg1098914 | 0.216896 | 0.614287 | 8.43658 | 3.99E-05 | 0.001492 | 2.699566 | 0.505839 | 0.722735 | -0.2169 | 3 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | rs5700548 | 26 | | | |
| cg0807988 | 0.206834 | 0.681671 | 8.436159 | 3.99E-05 | 0.001492 | 2.699202 | 0.578254 | 0.785088 | -0.20683 | 2 | 1.71E+08 | R | II | | IGR | opensea | IGR-opense | | rs5728681 | 34;7;2 | | | |
| cg1110665 | 0.227176 | 0.614588 | 8.435316 | 3.99E-05 | 0.001493 | 2.698474 | 0.501 | 0.728176 | -0.22718 | 4 | 56919047 | F | II | | IGR | shelf | IGR-shelf | chr4:5691( | rs5652267 | 25 | | | |
| cg1337518 | 0.238485 | 0.503106 | 8.435029 | 3.99E-05 | 0.001493 | 2.698226 | 0.383863 | 0.622348 | -0.23848 | 15 | 39886363 | F | II | THBS1 | Body | opensea | Body-open | | rs1121651 | 20;39;43 | | | |
| cg1127601 | 0.201887 | 0.470938 | 8.434963 | 3.99E-05 | 0.001493 | 2.698169 | 0.369995 | 0.571882 | -0.20189 | 7 | 1.14E+08 | R | II | FOXP2 | Body | opensea | Body-open | | rs5630771 | 36 | | | |
| cg1369595 | 0.219689 | 0.633025 | 8.433918 | 3.99E-05 | 0.001494 | 2.697267 | 0.523181 | 0.742869 | -0.21969 | 3 | 36718919 | F | II | | IGR | opensea | IGR-opense | | rs7747639 | 4 | | | |
| cg2472795 | 0.266446 | 0.465248 | 8.432209 | 4E-05 | 0.001495 | 2.695791 | 0.332025 | 0.598471 | -0.26645 | 1 | 2.08E+08 | F | II | CR2 | Body | opensea | Body-open | | rs5761839 | 0;11;28 | | | |
| cg2223548 | 0.228372 | 0.616204 | 8.432047 | 4E-05 | 0.001495 | 2.695651 | 0.502018 | 0.73039 | -0.22837 | 8 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs5634536 | 0;1 | | | |
| cg0917866 | 0.209823 | 0.574804 | 8.431717 | 4E-05 | 0.001495 | 2.695365 | 0.469892 | 0.679716 | -0.20982 | 8 | 12894534 | F | II | | IGR | opensea | IGR-opense | | rs5628519 | 14;48 | | | |
| cg2722861 | 0.207155 | 0.671982 | 8.431664 | 4E-05 | 0.001495 | 2.695319 | 0.568405 | 0.775559 | -0.20715 | 13 | 31144200 | F | II | | IGR | opensea | IGR-opense | | rs1902912 | 10;28;46 | | | |
| cg2015250 | 0.203099 | 0.491517 | 8.431365 | 4E-05 | 0.001495 | 2.695062 | 0.389967 | 0.593067 | -0.2031 | 13 | 78602831 | F | II | LINC00446 | Body | opensea | Body-open | | rs5455778 | 0;32;40;41;42;45;48 | | | |
| cg1109670 | 0.21913 | 0.539735 | 8.43113 | 4E-05 | 0.001495 | 2.694858 | 0.43017 | 0.649299 | -0.21913 | 11 | 1.24E+08 | R | II | OR8G1 | TSS1500 | opensea | TSS1500-op | | rs5593724 | 28 | | | |
| cg1988349 | 0.231817 | 0.571588 | 8.430875 | 4E-05 | 0.001495 | 2.694638 | 0.455679 | 0.687496 | -0.23182 | 10 | 34733436 | F | II | PARD3 | Body | opensea | Body-open | | | | | | |
| cg0253416 | 0.217669 | 0.573439 | 8.430043 | 4.01E-05 | 0.001496 | 2.693918 | 0.464604 | 0.682273 | -0.21767 | 11 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs7632258 | 1 | | | |
| cg0157197 | 0.230383 | 0.639913 | 8.429958 | 4.01E-05 | 0.001496 | 2.693845 | 0.524721 | 0.755104 | -0.23038 | 7 | 84122752 | R | II | | IGR | opensea | IGR-opense | | rs1862025 | 49;2 | | | |
| cg0171102 | 0.200363 | 0.593964 | 8.429771 | 4.01E-05 | 0.001496 | 2.693683 | 0.493782 | 0.694145 | -0.20036 | 20 | 4116458 | R | II | | IGR | opensea | IGR-opense | | rs5612935 | 40;31;24 | | | |
| cg1042498 | 0.200961 | 0.632733 | 8.428968 | 4.01E-05 | 0.001497 | 2.69299 | 0.532253 | 0.733214 | -0.20096 | 1 | 29872399 | R | II | | IGR | opensea | IGR-opense | | rs5611094 | 26;2;1 | | | |
| cg1033016 | 0.207711 | 0.676863 | 8.428388 | 4.01E-05 | 0.001497 | 2.692488 | 0.573008 | 0.780719 | -0.20771 | 2 | 2.33E+08 | F | II | DIS3L2 | 5'UTR | shelf | 5'UTR-shelf | chr2:2328( | rs5504933 | 4;26;30;47 | | | |
| cg1244661 | 0.203201 | 0.567695 | 8.424009 | 4.03E-05 | 0.0015 | 2.688703 | 0.466095 | 0.669295 | -0.2032 | 5 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | rs5475928 | 0;34;44 | | | |
| cg2514111 | 0.228279 | 0.575478 | 8.423912 | 4.03E-05 | 0.0015 | 2.688619 | 0.461338 | 0.689617 | -0.22828 | 8 | 96228655 | R | II | LINC01298 | TSS200 | opensea | TSS200-ope | | rs5335000 | 46;22;8;2 | | | |
| cg1642354 | 0.200176 | 0.634022 | 8.422019 | 4.03E-05 | 0.001502 | 2.686982 | 0.533934 | 0.73411 | -0.20018 | 7 | 1.27E+08 | F | II | GRM8 | 5'UTR | opensea | 5'UTR-open | | rs7775021 | 46 | | | |
| cg1289553 | 0.204999 | 0.662073 | 8.421311 | 4.04E-05 | 0.001502 | 2.68637 | 0.559574 | 0.764573 | -0.205 | 16 | 58063504 | F | II | MMP15 | Body | shelf | Body-shelf | chr16:580( | rs5505787 | 3;9 | | | |
| cg2655668 | 0.203694 | 0.455512 | 8.420062 | 4.04E-05 | 0.001502 | 2.685289 | 0.353666 | 0.557359 | -0.20369 | 2 | 1.03E+08 | F | II | IL1R1 | 5'UTR | opensea | 5'UTR-open | | rs1386494 | 0;19 | | | |
| cg2759689 | 0.264391 | 0.52239 | 8.42 | 4.04E-05 | 0.001502 | 2.685235 | 0.390194 | 0.654585 | -0.26439 | 16 | 49621173 | F | II | ZNF423 | Body | opensea | Body-open | | rs5494576 | 0;7 | | | |
| cg1058117 | 0.227188 | 0.655918 | 8.419718 | 4.04E-05 | 0.001503 | 2.684992 | 0.542324 | 0.769512 | -0.22719 | 9 | 37221268 | F | II | ZCCHC7 | Body | opensea | Body-open | | | | | | |
| cg0443638 | 0.206567 | 0.645942 | 8.419315 | 4.04E-05 | 0.001503 | 2.684643 | 0.542658 | 0.749225 | -0.20657 | 4 | 87770357 | F | II | SLC10A6 | 5'UTR | opensea | 5'UTR-open | | rs5614073 | 8;36;50 | | | |
| cg1317392 | 0.204492 | 0.411774 | 8.419069 | 4.04E-05 | 0.001503 | 2.68443 | 0.309527 | 0.51402 | -0.20449 | 2 | 1.67E+08 | R | II | SCN1A | 5'UTR | opensea | 5'UTR-open | | rs5404730 | 16 | | | |
| cg0554552 | 0.223459 | 0.591066 | 8.419061 | 4.04E-05 | 0.001503 | 2.684424 | 0.479336 | 0.702796 | -0.22346 | 1 | 93283109 | R | II | | IGR | opensea | IGR-opense | | rs5293888 | 2;1 | | | |
| cg2063619 | 0.204291 | 0.618412 | 8.419009 | 4.04E-05 | 0.001503 | 2.684378 | 0.516266 | 0.720557 | -0.20429 | 10 | 55071675 | F | II | | IGR | opensea | IGR-opense | | rs1883035 | 0;33 | | | |
| cg1529259 | 0.23451 | 0.399922 | 8.418831 | 4.04E-05 | 0.001503 | 2.684224 | 0.282667 | 0.517177 | -0.23451 | 2 | 36374912 | F | II | | IGR | opensea | IGR-opense | | rs5597701 | 1 | | | |
| cg0189245 | 0.24148 | 0.566735 | 8.418505 | 4.05E-05 | 0.001503 | 2.683942 | 0.445994 | 0.687475 | -0.24148 | 1 | 86527360 | R | II | COL24A1 | Body | opensea | Body-open | | rs5685354 | 1 | | | |
| cg1515796 | 0.216833 | 0.533479 | 8.417641 | 4.05E-05 | 0.001504 | 2.683194 | 0.425062 | 0.641896 | -0.21683 | 11 | 5207652 | R | II | | IGR | opensea | IGR-opense | | rs1494810 | 49;34;2;1 | | | |
| cg2331870 | 0.276908 | 0.457967 | 8.41577 | 4.05E-05 | 0.001505 | 2.681575 | 0.319512 | 0.596421 | -0.27691 | 7 | 76895988 | R | II | CCDC146 | Body | opensea | Body-open | | | | | | |
| cg0832111 | 0.254078 | 0.509153 | 8.413779 | 4.06E-05 | 0.001506 | 2.679852 | 0.382114 | 0.636192 | -0.25408 | 5 | 77701852 | F | II | SCAMP1 | Body | opensea | Body-open | | rs1824511 | 0 | | | |
| cg1696759 | 0.238569 | 0.636035 | 8.412573 | 4.07E-05 | 0.001506 | 2.678808 | 0.51675 | 0.755319 | -0.23857 | 7 | 17049064 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0620363 | 0.201196 | 0.551027 | 8.411959 | 4.07E-05 | 0.001507 | 2.678276 | 0.450429 | 0.651626 | -0.2012 | 10 | 31933573 | F | II | | IGR | opensea | IGR-opense | | rs5412204 | 22;40;51 | | | |
| cg0738744 | 0.235687 | 0.486934 | 8.411307 | 4.07E-05 | 0.001507 | 2.677712 | 0.369091 | 0.604777 | -0.23569 | 16 | 49727717 | F | II | ZNF423 | Body | opensea | Body-open | | rs5328897 | 0;1;13 | | | |
| cg1257442 | 0.200963 | 0.631288 | 8.410843 | 4.07E-05 | 0.001507 | 2.67731 | 0.530807 | 0.73177 | -0.20096 | 3 | 5023050 | R | II | BHLHE40 | Body | shore | Body-shore | chr3:5024( | rs5769625 | 42 | | | |
| cg2330298 | 0.200826 | 0.748616 | 8.410613 | 4.07E-05 | 0.001507 | 2.677111 | 0.648203 | 0.849029 | -0.20083 | 6 | 36516650 | F | II | STK38 | TSS1500 | shore | TSS1500-sh | chr6:3651( | rs5354203 | 8;18 | | | |
| cg1702657 | 0.20842 | 0.645569 | 8.410046 | 4.07E-05 | 0.001508 | 2.67662 | 0.541359 | 0.749778 | -0.20842 | 1 | 1.93E+08 | R | II | LINC01031 | TSS1500 | opensea | TSS1500-op | | rs5685140 | 42 | | | |
| cg1514055 | 0.243009 | 0.525882 | 8.408044 | 4.08E-05 | 0.001509 | 2.674885 | 0.404377 | 0.647386 | -0.24301 | 4 | 10098295 | F | II | WDR1 | Body | opensea | Body-open | | rs1150929 | 0;27 | | | |
| cg1323995 | 0.204383 | 0.437507 | 8.406389 | 4.09E-05 | 0.00151 | 2.673452 | 0.335315 | 0.539699 | -0.20438 | 7 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs1829450 | 1 | | | |
| cg0427187 | 0.247703 | 0.594405 | 8.405788 | 4.09E-05 | 0.001511 | 2.672932 | 0.470553 | 0.718256 | -0.2477 | 2 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs5467230 | 49;42;14 | | | |
| cg0444336 | 0.2289 | 0.553229 | 8.405771 | 4.09E-05 | 0.001511 | 2.672916 | 0.43878 | 0.667679 | -0.2289 | 7 | 50633211 | F | II | DDC | TSS200 | opensea | TSS200-ope | | rs5372511 | 1 | | | |
| cg0743915 | 0.228156 | 0.422796 | 8.405274 | 4.09E-05 | 0.001511 | 2.672486 | 0.308718 | 0.536874 | -0.22816 | 7 | 28519337 | R | II | CREB5 | 5'UTR | opensea | 5'UTR-open | | rs5633455 | 1 | | | |
| cg1910295 | 0.217878 | 0.675871 | 8.403814 | 4.1E-05 | 0.001512 | 2.671221 | 0.566932 | 0.78481 | -0.21788 | 20 | 5928064 | F | II | TRMT6 | Body | shelf | Body-shelf | chr20:593( | rs5634145 | 4;33;42 | | | |
| cg2487238 | 0.224987 | 0.602614 | 8.403612 | 4.1E-05 | 0.001512 | 2.671046 | 0.490121 | 0.715108 | -0.22499 | 17 | 39323742 | R | II | KRTAP4-3 | 3'UTR | opensea | 3'UTR-open | | rs5438521 | 47;17;16;2 | | | |
| cg1397459 | 0.208217 | 0.506747 | 8.40298 | 4.1E-05 | 0.001513 | 2.670498 | 0.402639 | 0.610856 | -0.20822 | 11 | 1.19E+08 | F | II | USP2 | Body | shelf | Body-shelf | chr11:119( | rs5780654 | 27 | | | |
| cg0862680 | 0.231148 | 0.441888 | 8.401537 | 4.1E-05 | 0.001513 | 2.669247 | 0.326314 | 0.557461 | -0.23115 | 7 | 42979643 | F | II | | IGR | opensea | IGR-opense | | rs1808090 | 4 | | | |
| cg0981798 | 0.228852 | 0.495022 | 8.401307 | 4.1E-05 | 0.001514 | 2.669048 | 0.380596 | 0.609449 | -0.22885 | 20 | 25054507 | R | II | | IGR | shelf | IGR-shelf | chr20:250( | rs5281957 | 20;1 | | | |
| cg0486177 | 0.203235 | 0.666116 | 8.400923 | 4.11E-05 | 0.001514 | 2.668715 | 0.564498 | 0.767733 | -0.20324 | 16 | 72185281 | F | II | PMFBP1 | Body | opensea | Body-open | | rs5766144 | 0;4;25 | | | |
| cg1027992 | 0.211308 | 0.607431 | 8.400533 | 4.11E-05 | 0.001514 | 2.668377 | 0.501777 | 0.713085 | -0.21131 | 2 | 45347089 | R | II | | IGR | opensea | IGR-opense | | rs1433526 | 45;39;9 | | | |
| cg2586340 | 0.215466 | 0.677965 | 8.400475 | 4.11E-05 | 0.001514 | 2.668327 | 0.570232 | 0.785698 | -0.21547 | 1 | 31970630 | R | II | LINC01225 | TSS1500 | opensea | TSS1500-op | | rs7608142 | 45;42;1 | | | |
| cg1198643 | 0.203237 | 0.56336 | 8.400175 | 4.11E-05 | 0.001514 | 2.668067 | 0.461742 | 0.664979 | -0.20324 | 9 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1847584 | 9;1 | | | |
| cg1869769 | 0.230219 | 0.59064 | 8.400164 | 4.11E-05 | 0.001514 | 2.668057 | 0.47553 | 0.705749 | -0.23022 | 11 | 58989430 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0979825 | 0.248716 | 0.527915 | 8.400102 | 4.11E-05 | 0.001514 | 2.668003 | 0.403557 | 0.652273 | -0.24872 | 8 | 59763565 | R | II | TOX | Body | opensea | Body-open | | rs5524859 | 30 | | | |
| cg2213831 | 0.216912 | 0.48972 | 8.399276 | 4.11E-05 | 0.001514 | 2.667287 | 0.381264 | 0.598176 | -0.21691 | 12 | 597242 | R | II | B4GALNT3 | Body | opensea | Body-open | | rs5502837 | 28;27 | | | |
| cg2006372 | 0.215646 | 0.680083 | 8.399145 | 4.11E-05 | 0.001514 | 2.667173 | 0.57226 | 0.787906 | -0.21565 | 7 | 553423 | F | II | PDGFA | Body | shelf | Body-shelf | chr7:5566( | rs5627986 | 10 | | | |
| cg1854403 | 0.229729 | 0.656934 | 8.398697 | 4.11E-05 | 0.001515 | 2.666785 | 0.54207 | 0.771798 | -0.22973 | 2 | 8626420 | R | II | | IGR | opensea | IGR-opense | | rs5584468 | 37;16;11 | | | |
| cg0734537 | 0.220913 | 0.538381 | 8.39813 | 4.11E-05 | 0.001515 | 2.666293 | 0.427924 | 0.648838 | -0.22091 | 17 | 76772464 | R | II | CYTH1 | Body | opensea | Body-open | | rs5383006 | 2;1 | | | |
| cg2286901 | 0.203861 | 0.422613 | 8.397001 | 4.12E-05 | 0.001516 | 2.665314 | 0.320683 | 0.524544 | -0.20386 | 2 | 1.79E+08 | R | II | OSBPL6 | 5'UTR | opensea | 5'UTR-open | | rs5435155 | 38;26 | | | |
| cg2666954 | 0.202201 | 0.549566 | 8.396708 | 4.12E-05 | 0.001516 | 2.665061 | 0.448466 | 0.650667 | -0.2022 | 3 | 1.46E+08 | R | II | | IGR | opensea | IGR-opense | | rs1685869 | 51 | | | |
| cg2510762 | 0.211207 | 0.392066 | 8.396099 | 4.12E-05 | 0.001516 | 2.664532 | 0.286462 | 0.49767 | -0.21121 | 7 | 79060196 | R | II | MAGI2 | Body | opensea | Body-open | | rs1130323 | 43;38;2;1 | | | | |
| cg1124536 | 0.231317 | 0.45662 | 8.395976 | 4.12E-05 | 0.001516 | 2.664426 | 0.340962 | 0.572278 | -0.23132 | 18 | 21580850 | R | II | TTC39C-AS | Body | opensea | Body-open | | rs7515169 | 43;23 | | | | |
| cg2188203 | 0.205881 | 0.610637 | 8.39417 | 4.13E-05 | 0.001517 | 2.662859 | 0.507696 | 0.713578 | -0.20588 | 7 | 1.25E+08 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs3689663 | 48;16 | | | | |
| cg0066122 | 0.228763 | 0.525312 | 8.394072 | 4.13E-05 | 0.001518 | 2.662774 | 0.410931 | 0.639694 | -0.22876 | 7 | 20166735 | F | II | LOC10192 | Body | opensea | Body-open | | rs5409032 | 0;1 | | | | |
| cg2185241 | 0.27271 | 0.548945 | 8.3938 | 4.13E-05 | 0.001518 | 2.662538 | 0.41259 | 0.6853 | -0.27271 | 2 | 2.04E+08 | F | II | ICA1L | Body | opensea | Body-open | | rs5511272 | 1;30 | | | | |
| cg0913330 | 0.206477 | 0.57268 | 8.391696 | 4.14E-05 | 0.001519 | 2.660712 | 0.469441 | 0.675918 | -0.20648 | 20 | 59915284 | F | II | CDH4 | Body | opensea | Body-open | | rs5671119 | 1;25 | | | | |
| cg1257266 | 0.224076 | 0.63838 | 8.39165 | 4.14E-05 | 0.001519 | 2.660672 | 0.526342 | 0.750418 | -0.22408 | 2 | 72788795 | R | II | EXOC6B | Body | opensea | Body-open | | rs5449612 | 1 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0868253 | 0.200347 | 0.61843 | 8.39087 | 4.14E-05 | 0.00152 | 2.659995 | 0.518256 | 0.718604 | -0.20035 | 8 | 95262502 | F | II | GEM | 3'UTR | opensea | 3'UTR-open | | rs3676077 | 0 | 15;26;41 |
| cg0475107 | 0.236373 | 0.522119 | 8.3898 | 4.14E-05 | 0.00152 | 2.659067 | 0.403932 | 0.640305 | -0.23637 | 2 | 1.66E+08 | R | II | | IGR | opensea | IGR-opense | | rs5431236 | 37 | 1 |
| cg2304845 | 0.204478 | 0.409355 | 8.387726 | 4.15E-05 | 0.001521 | 2.657267 | 0.307117 | 0.511594 | -0.20448 | 5 | 1.76E+08 | F | II | LOC64320 | Body | opensea | Body-open | | rs5669505 | 51 | |
| cg2612941 | 0.240214 | 0.55553 | 8.387042 | 4.15E-05 | 0.001522 | 2.656673 | 0.435423 | 0.675637 | -0.24021 | 8 | 16015402 | R | II | MSR1 | Body | opensea | Body-open | | rs5610676 | 43 | 14 |
| cg0210800 | 0.239833 | 0.43403 | 8.386459 | 4.15E-05 | 0.001522 | 2.656166 | 0.314113 | 0.553946 | -0.23983 | 7 | 10000666 | F | II | | IGR | opensea | IGR-opense | | rs5308826 | 0 | 36;43 |
| cg2060345 | 0.253365 | 0.599577 | 8.385865 | 4.16E-05 | 0.001522 | 2.65565 | 0.472894 | 0.726259 | -0.25336 | 9 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs5546834 | 8 | |
| cg0290723 | 0.242174 | 0.467869 | 8.38574 | 4.16E-05 | 0.001522 | 2.655542 | 0.346782 | 0.588955 | -0.24217 | 1 | 2.45E+08 | R | II | EFCAB2 | Body | opensea | Body-open | | rs5501904 | 4 | 46 |
| cg0681099 | 0.205677 | 0.645161 | 8.385122 | 4.16E-05 | 0.001523 | 2.655006 | 0.542322 | 0.747999 | -0.20568 | 7 | 90795434 | F | II | CDK14 | 3'UTR | opensea | 3'UTR-open | | rs1817561 | 1 | 18 |
| cg0705385 | 0.214345 | 0.567595 | 8.384947 | 4.16E-05 | 0.001523 | 2.654853 | 0.460422 | 0.674767 | -0.21434 | 17 | 61352831 | R | II | TANC2 | Body | opensea | Body-open | | rs5502608 | 3 | 0;2 |
| cg0434983 | 0.23709 | 0.517672 | 8.38314 | 4.17E-05 | 0.001523 | 2.653284 | 0.399127 | 0.636217 | -0.23709 | 13 | 40257078 | F | II | COG6 | Body | opensea | Body-open | | rs5613422 | 10 | 20;26;36;49 |
| cg0390635 | 0.226635 | 0.64152 | 8.383058 | 4.17E-05 | 0.001523 | 2.653212 | 0.528202 | 0.754838 | -0.22664 | 4 | 1.57E+08 | F | II | | IGR | opensea | IGR-opense | | rs5347112 | 15 | 17;27;43 |
| cg0719783 | 0.209427 | 0.373428 | 8.381174 | 4.17E-05 | 0.001524 | 2.651577 | 0.268714 | 0.478141 | -0.20943 | 2 | 27503157 | F | II | DNAJC5G | 3'UTR | opensea | 3'UTR-open | | rs5668279 | 48 | |
| cg0200871 | 0.233757 | 0.595506 | 8.380829 | 4.17E-05 | 0.001524 | 2.651277 | 0.478628 | 0.712385 | -0.23376 | 6 | 1.33E+08 | F | II | LINC00326 | Body | opensea | Body-open | | rs1929208 | 0 | 1;48 |
| cg1579664 | 0.235204 | 0.535551 | 8.380286 | 4.18E-05 | 0.001525 | 2.650805 | 0.417949 | 0.653153 | -0.2352 | 1 | 2.06E+08 | F | II | SLC26A9 | TSS1500 | opensea | TSS1500-op | | rs4951030 | 3 | 8;46 |
| cg2569539 | 0.211372 | 0.481072 | 8.37891 | 4.18E-05 | 0.001526 | 2.649609 | 0.375386 | 0.586758 | -0.21137 | 7 | 28077169 | R | II | JAZF1 | Body | opensea | Body-open | | rs1379729 | 2 | |
| cg1158746 | 0.204712 | 0.642974 | 8.378885 | 4.18E-05 | 0.001526 | 2.649588 | 0.540618 | 0.74533 | -0.20471 | 1 | 2.46E+08 | F | II | KIF26B | Body | shelf | Body-shelf | chr1:2458 | rs1136656 | 1 | |
| cg0446292 | 0.200927 | 0.54389 | 8.378453 | 4.18E-05 | 0.001526 | 2.649212 | 0.443426 | 0.644353 | -0.20093 | 8 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | rs1445529 | 51 | |
| cg0087805 | 0.203628 | 0.619879 | 8.378033 | 4.18E-05 | 0.001526 | 2.648847 | 0.518065 | 0.721693 | -0.20363 | 2 | 1.36E+08 | R | II | | IGR | opensea | IGR-opense | | rs1843174 | 3 | 5;10 |
| cg0219814 | 0.240575 | 0.545778 | 8.377773 | 4.18E-05 | 0.001526 | 2.648621 | 0.425491 | 0.666066 | -0.24057 | 16 | 85462102 | R | I | | IGR | shelf | IGR-shelf | chr16:854 | rs1490565 | 26 | 24;22;16;16;15 |
| cg0257365 | 0.239343 | 0.41142 | 8.377311 | 4.19E-05 | 0.001527 | 2.64822 | 0.291749 | 0.531092 | -0.23934 | 13 | 78090644 | R | II | | IGR | opensea | IGR-opense | | rs1506552 | 1 | 7 |
| cg2359628 | 0.211582 | 0.500166 | 8.377054 | 4.19E-05 | 0.001527 | 2.647996 | 0.394375 | 0.605957 | -0.21158 | 15 | 88797039 | F | II | NTRK3-AS1 | Body | shelf | Body-shelf | chr15:887 | rs1402692 | 3 | 3;39;41 |
| cg1599033 | 0.209942 | 0.698456 | 8.376865 | 4.19E-05 | 0.001527 | 2.647832 | 0.593485 | 0.803427 | -0.20994 | 11 | 1.12E+08 | R | II | LOC28314 | Body | opensea | Body-open | | | | |
| cg2569523 | 0.207704 | 0.42163 | 8.376524 | 4.19E-05 | 0.001527 | 2.647536 | 0.317778 | 0.525482 | -0.2077 | 2 | 2.02E+08 | F | II | ALS2CR11 | Body | opensea | Body-open | | | | |
| cg0444421 | 0.209823 | 0.589548 | 8.376201 | 4.19E-05 | 0.001527 | 2.647255 | 0.484636 | 0.694459 | -0.20982 | 3 | 77666842 | F | II | ROBO2 | Body | opensea | Body-open | | | | |
| cg1282904 | 0.201029 | 0.463863 | 8.374934 | 4.19E-05 | 0.001528 | 2.646153 | 0.363348 | 0.564377 | -0.20103 | 10 | 77228852 | F | II | | IGR | opensea | IGR-opense | | rs5338317 | 1 | 30 |
| cg2461998 | 0.223491 | 0.564451 | 8.3746 | 4.2E-05 | 0.001528 | 2.645863 | 0.452705 | 0.676197 | -0.22349 | 4 | 28094243 | F | II | | IGR | opensea | IGR-opense | | rs5493168 | 0 | 21 |
| cg0390867 | 0.22378 | 0.546518 | 8.374167 | 4.2E-05 | 0.001528 | 2.645487 | 0.434628 | 0.658408 | -0.22378 | 11 | 10590282 | F | II | LYVE1 | 1stExon | opensea | 1stExon-op | | rs5372747 | 0 | 12 |
| cg1002218 | 0.216968 | 0.578619 | 8.372585 | 4.2E-05 | 0.001529 | 2.644111 | 0.470134 | 0.687103 | -0.21697 | 5 | 1.58E+08 | R | II | EBF1 | Body | opensea | Body-open | | rs5906405 | 24 | 7;2 |
| cg1501882 | 0.207854 | 0.683252 | 8.370741 | 4.21E-05 | 0.00153 | 2.642507 | 0.579325 | 0.787179 | -0.20785 | 1 | 24678976 | R | II | GRHL3 | Body | opensea | Body-open | | | | |
| cg1575852 | 0.250244 | 0.524205 | 8.370109 | 4.21E-05 | 0.00153 | 2.641957 | 0.399083 | 0.649327 | -0.25024 | 7 | 1.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs5512579 | 7 | |
| cg2298449 | 0.20904 | 0.689124 | 8.370026 | 4.21E-05 | 0.00153 | 2.641885 | 0.584604 | 0.793644 | -0.20904 | 5 | 1.15E+08 | R | II | LVRN | Body | opensea | Body-open | | rs5595459 | 31 | 16 |
| cg1511311 | 0.214427 | 0.499573 | 8.369762 | 4.21E-05 | 0.00153 | 2.641656 | 0.39236 | 0.606787 | -0.21443 | 12 | 5724577 | R | II | ANO2 | Body | opensea | Body-open | | rs5494856 | 13 | 2 |
| cg2652176 | 0.232043 | 0.596771 | 8.369499 | 4.21E-05 | 0.001531 | 2.641427 | 0.48075 | 0.712793 | -0.23204 | 11 | 59295398 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg2133242 | 0.208238 | 0.580756 | 8.369113 | 4.21E-05 | 0.001531 | 2.641091 | 0.476637 | 0.684875 | -0.20824 | 3 | 58191826 | F | II | DNASE1L3 | Body | opensea | Body-open | | | | |
| cg2571614 | 0.210009 | 0.542395 | 8.368655 | 4.22E-05 | 0.001531 | 2.640693 | 0.437391 | 0.6474 | -0.21001 | 3 | 33763505 | R | II | | IGR | shelf | IGR-shelf | chr3:3375 | rs5389048 | 4 | 6;1 |
| cg0571825 | 0.218375 | 0.592338 | 8.366791 | 4.22E-05 | 0.001533 | 2.639071 | 0.483151 | 0.701526 | -0.21838 | 22 | 35790141 | F | II | HMOX1 | 3'UTR | opensea | 3'UTR-open | | rs1924344 | 1 | 7;27;33 |
| cg1862204 | 0.243304 | 0.563326 | 8.366787 | 4.22E-05 | 0.001533 | 2.639068 | 0.441674 | 0.684978 | -0.2433 | 1 | 1.75E+08 | F | II | RABGAP1L | Body | opensea | Body-open | | rs5704418 | 5 | 11 |
| cg1295628 | 0.207713 | 0.534007 | 8.366627 | 4.22E-05 | 0.001533 | 2.638928 | 0.43015 | 0.637864 | -0.20771 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5664741 | 0 | 1;16;46 |
| cg0773471 | 0.21567 | 0.583533 | 8.365684 | 4.23E-05 | 0.001533 | 2.638108 | 0.475698 | 0.691368 | -0.21567 | 13 | 85420495 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg2694796 | 0.243656 | 0.613013 | 8.364509 | 4.23E-05 | 0.001534 | 2.637085 | 0.491185 | 0.734841 | -0.24366 | 17 | 54334619 | F | II | ANKFN1 | Body | opensea | Body-open | | rs1927016 | 0 | 8;50 |
| cg1215999 | 0.231461 | 0.611758 | 8.364301 | 4.23E-05 | 0.001534 | 2.636904 | 0.496027 | 0.727489 | -0.23146 | 12 | 1.02E+08 | R | II | MYBPC1 | Body | opensea | Body-open | | rs5301977 | 20 | 11;1 |
| cg2594115 | 0.203189 | 0.536703 | 8.363129 | 4.24E-05 | 0.001534 | 2.635884 | 0.435108 | 0.638297 | -0.20319 | 11 | 88910913 | F | II | TYR | TSS200 | opensea | TSS200-ope | | rs5604534 | 1 | 10;43 |
| cg0361979 | 0.329609 | 0.508557 | 8.362517 | 4.24E-05 | 0.001535 | 2.635351 | 0.343753 | 0.673361 | -0.32961 | 2 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs4616477 | 24 | 1 |
| cg1232016 | 0.211937 | 0.687177 | 8.361564 | 4.24E-05 | 0.001536 | 2.634522 | 0.581209 | 0.793146 | -0.21194 | 17 | 58166202 | R | II | LOC64563 | TSS1500 | opensea | TSS1500-op | | | | |
| cg2629645 | 0.204503 | 0.598709 | 8.360822 | 4.24E-05 | 0.001536 | 2.633875 | 0.496457 | 0.70096 | -0.2045 | 1 | 95198014 | R | II | LINC01057 | Body | opensea | Body-open | | rs5335966 | 45 | 30;20 |
| cg2689691 | 0.209902 | 0.603533 | 8.357756 | 4.25E-05 | 0.001539 | 2.631206 | 0.498582 | 0.708484 | -0.2099 | 3 | 45986498 | R | II | CXCR6 | 5'UTR | opensea | 5'UTR-open | | rs5480993 | 3 | 5;26 |
| cg1091106 | 0.225239 | 0.449963 | 8.356425 | 4.26E-05 | 0.00154 | 2.630046 | 0.337343 | 0.562582 | -0.22524 | 8 | 39960940 | R | II | | IGR | opensea | IGR-opense | | rs5765358 | 4 | 7 |
| cg0501141 | 0.209327 | 0.69619 | 8.356139 | 4.26E-05 | 0.00154 | 2.629796 | 0.591526 | 0.800854 | -0.20933 | 14 | 51394359 | R | II | PYGL | Body | opensea | Body-open | | | | |
| cg1658163 | 0.222373 | 0.524691 | 8.355281 | 4.26E-05 | 0.00154 | 2.629049 | 0.413505 | 0.635878 | -0.22237 | 8 | 83170486 | R | II | | IGR | opensea | IGR-opense | | rs5635237 | 27 | 25;16;8 |
| cg2353703 | 0.215525 | 0.616028 | 8.3547 | 4.27E-05 | 0.001541 | 2.628543 | 0.508266 | 0.723791 | -0.21552 | 6 | 24165998 | F | II | | IGR | opensea | IGR-opense | | rs1402225 | 0 | 32 |
| cg0888649 | 0.20169 | 0.591524 | 8.353755 | 4.27E-05 | 0.001541 | 2.62772 | 0.490679 | 0.692369 | -0.20169 | 20 | 9197927 | F | II | PLCB4 | TSS200 | opensea | TSS200-ope | | rs2014272 | 2 | 4 |
| cg0219342 | 0.202054 | 0.58837 | 8.353308 | 4.27E-05 | 0.001541 | 2.62733 | 0.487343 | 0.689397 | -0.20205 | 6 | 3848280 | R | II | FAM50B | TSS1500 | shore | TSS1500-sh | chr6:3849 | rs1897350 | 3 | 9;18 |
| cg1837985 | 0.230679 | 0.602353 | 8.353244 | 4.27E-05 | 0.001541 | 2.627274 | 0.487014 | 0.717693 | -0.23068 | 15 | 52851536 | R | II | ARPP19 | Body | opensea | Body-open | | rs1430961 | 0 | 19 |
| cg2624706 | 0.216346 | 0.555115 | 8.352019 | 4.27E-05 | 0.001543 | 2.626207 | 0.446942 | 0.663288 | -0.21635 | 11 | 74466198 | F | II | RNF169 | Body | opensea | Body-open | | rs5779155 | 9 | 13;18;25 |
| cg1380579 | 0.200369 | 0.714307 | 8.351003 | 4.28E-05 | 0.001543 | 2.625321 | 0.614123 | 0.814491 | -0.20037 | 10 | 54515952 | R | II | | IGR | opensea | IGR-opense | | rs5486821 | 3 | 8;1 |
| cg2068792 | 0.254529 | 0.479839 | 8.350823 | 4.28E-05 | 0.001543 | 2.625164 | 0.352575 | 0.607103 | -0.25453 | 8 | 88950581 | R | II | | IGR | opensea | IGR-opense | | rs5694518 | 1 | |
| cg1628448 | 0.201673 | 0.548594 | 8.350788 | 4.28E-05 | 0.001543 | 2.625134 | 0.447757 | 0.64943 | -0.20167 | 16 | 80266015 | R | II | LOC10272 | Body | opensea | Body-open | | rs7990692 | 4 | 4;2 |
| cg2435463 | 0.214541 | 0.551628 | 8.350384 | 4.28E-05 | 0.001543 | 2.624782 | 0.444358 | 0.658899 | -0.21454 | 12 | 81771643 | R | II | PPFIA2 | Body | opensea | Body-open | | rs1921790 | 2 | 1 |
| cg1916714 | 0.203119 | 0.506607 | 8.348742 | 4.29E-05 | 0.001544 | 2.62335 | 0.405047 | 0.608167 | -0.20312 | 4 | 41299998 | R | II | | IGR | opensea | IGR-opense | | rs5373096 | 2 | |
| cg1660465 | 0.239694 | 0.670195 | 8.347925 | 4.29E-05 | 0.001544 | 2.622638 | 0.550348 | 0.790041 | -0.23969 | 12 | 64847188 | F | II | TBK1 | 5'UTR | shore | 5'UTR-shor | chr12:648 | rs1432481 | 4 | 14;35 |
| cg2648867 | 0.211413 | 0.584053 | 8.346843 | 4.29E-05 | 0.001545 | 2.621694 | 0.478347 | 0.689759 | -0.21141 | 7 | 24301747 | F | II | | IGR | opensea | IGR-opense | | rs1114251 | 1 | 20 |
| cg1100983 | 0.20591 | 0.469831 | 8.343238 | 4.31E-05 | 0.001547 | 2.61855 | 0.366876 | 0.572786 | -0.20591 | 9 | 85066797 | R | II | | IGR | opensea | IGR-opense | | rs1379891 | 1 | |
| cg1623918 | 0.216811 | 0.494721 | 8.34189 | 4.31E-05 | 0.001548 | 2.617374 | 0.386316 | 0.603127 | -0.21681 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5473019 | 0 | 25;40 |
| cg0118557 | 0.211162 | 0.563234 | 8.34157 | 4.31E-05 | 0.001548 | 2.617095 | 0.457653 | 0.668815 | -0.21116 | 3 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5669317 | 35 | 1 |
| cg2234168 | 0.246661 | 0.630863 | 8.339278 | 4.32E-05 | 0.00155 | 2.615094 | 0.507532 | 0.754193 | -0.24666 | 15 | 61342360 | R | II | RORA | Body | opensea | Body-open | | | | |
| cg1880127 | 0.201264 | 0.728982 | 8.33769 | 4.33E-05 | 0.001551 | 2.613708 | 0.62835 | 0.829614 | -0.20126 | 8 | 1.09E+08 | R | II | EIF3E | Body | opensea | Body-open | | rs1892737 | 39 | 21;16;15;11;8 |
| cg1648161 | 0.220064 | 0.578658 | 8.336426 | 4.33E-05 | 0.001553 | 2.612605 | 0.468626 | 0.688689 | -0.22006 | 17 | 64225731 | F | II | APOH | TSS200 | opensea | TSS200-ope | | rs5395602 | 1 | 1;17 |
| cg1187223 | 0.234905 | 0.503406 | 8.335741 | 4.33E-05 | 0.001553 | 2.612007 | 0.385954 | 0.620859 | -0.2349 | 2 | 1.45E+08 | F | II | GTDC1 | 5'UTR | opensea | 5'UTR-open | | rs1890021 | 0 | 8;26;30;49 |
| cg2545657 | 0.202771 | 0.688614 | 8.335488 | 4.33E-05 | 0.001553 | 2.611786 | 0.587229 | 0.79 | -0.20277 | 1 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | | rs3760459 | 18 | |
| cg2167885 | 0.213639 | 0.694923 | 8.335146 | 4.34E-05 | 0.001553 | 2.611487 | 0.588104 | 0.801743 | -0.21364 | 5 | 1.32E+08 | R | II | | IGR | opensea | IGR-opense | | rs1818203 | 27 | 9 |
| cg0241210 | 0.205407 | 0.472715 | 8.334744 | 4.34E-05 | 0.001554 | 2.611136 | 0.370012 | 0.575419 | -0.20541 | 18 | 3367383 | R | II | | IGR | opensea | IGR-opense | | rs5765360 | 33 | 28 |
| cg0294818 | 0.201873 | 0.65735 | 8.334562 | 4.34E-05 | 0.001554 | 2.610978 | 0.556414 | 0.758286 | -0.20187 | 10 | 33272417 | R | II | | IGR | shelf | IGR-shelf | chr10:332 | rs5762289 | 2 | |
| cg0491422 | 0.22643 | 0.591282 | 8.331188 | 4.35E-05 | 0.001556 | 2.608031 | 0.478067 | 0.704496 | -0.22643 | 15 | 63116514 | F | II | TLN2 | Body | opensea | Body-open | | rs5278698 | 1 | 8 |
| cg2437621 | 0.274837 | 0.501798 | 8.331023 | 4.35E-05 | 0.001556 | 2.607886 | 0.364379 | 0.639216 | -0.27484 | 19 | 38918135 | R | II | RASGRP4 | TSS1500 | opensea | TSS1500-op | | rs5374606 | 22 | 8;2 |
| cg1290647 | 0.208026 | 0.647569 | 8.330391 | 4.35E-05 | 0.001556 | 2.607334 | 0.543557 | 0.751582 | -0.20803 | 10 | 27991214 | F | II | MKX | Body | opensea | Body-open | | | | |
| cg1386454 | 0.211556 | 0.495751 | 8.32991 | 4.35E-05 | 0.001556 | 2.606914 | 0.389973 | 0.60153 | -0.21156 | 6 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | | | |
| cg1491340 | 0.236168 | 0.66194 | 8.328303 | 4.36E-05 | 0.001557 | 2.60551 | 0.543856 | 0.780024 | -0.23617 | 1 | 2.28E+08 | R | II | SNAP47 | Body | opensea | Body-open | | rs5562415 | 36 | 34;8 |
| cg0423278 | 0.200651 | 0.766031 | 8.328137 | 4.36E-05 | 0.001557 | 2.605365 | 0.665705 | 0.866356 | -0.20065 | 12 | 24513927 | R | II | SOX5 | 5'UTR | opensea | 5'UTR-open | | rs5406234 | 4 | 5;1 |
| cg1336021 | 0.207819 | 0.611928 | 8.326431 | 4.37E-05 | 0.001558 | 2.603874 | 0.508018 | 0.715838 | -0.20782 | 18 | 67997425 | F | II | SOCS6 | 3'UTR | opensea | 3'UTR-open | | rs5750107 | 0 | 1;43 |
| cg1066025 | 0.221969 | 0.592788 | 8.325501 | 4.37E-05 | 0.001559 | 2.603061 | 0.481803 | 0.703773 | -0.22197 | 12 | 7940546 | F | II | NANOG | TSS1500 | opensea | TSS1500-op | | | | |
| cg0042284 | 0.209566 | 0.507911 | 8.324389 | 4.37E-05 | 0.00156 | 2.602089 | 0.403128 | 0.612694 | -0.20957 | 18 | 11204146 | R | II | | IGR | opensea | IGR-opense | | rs5780993 | 29 | 22;1 |
| cg1566101 | 0.208216 | 0.616627 | 8.324366 | 4.37E-05 | 0.00156 | 2.602069 | 0.512519 | 0.720735 | -0.20822 | 7 | 1.55E+08 | F | II | RBM33 | Body | opensea | Body-open | | rs5502210 | 0 | 18 |
| cg0237710 | 0.211087 | 0.477536 | 8.324057 | 4.38E-05 | 0.00156 | 2.601799 | 0.371992 | 0.583079 | -0.21109 | 7 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs7796064 | 11 | 18;27;33 |
| cg0299693 | 0.213725 | 0.664589 | 8.323853 | 4.38E-05 | 0.00156 | 2.601621 | 0.557726 | 0.771452 | -0.21373 | 2 | 1.66E+08 | R | II | SCN3A | 5'UTR | opensea | 5'UTR-open | | rs5500265 | 38 | 29 |
| cg1598631 | 0.242392 | 0.456784 | 8.323691 | 4.38E-05 | 0.00156 | 2.601479 | 0.335588 | 0.577981 | -0.24239 | 6 | 24256161 | R | II | DCDC2 | Body | opensea | Body-open | | | | |
| cg1053283 | 0.207387 | 0.664183 | 8.323476 | 4.38E-05 | 0.00156 | 2.601291 | 0.560489 | 0.767876 | -0.20739 | 5 | 1.47E+08 | R | II | SPINK5 | TSS1500 | opensea | TSS1500-op | | rs7997783 | 48 | 14 |
| cg0180554 | 0.211148 | 0.302305 | 8.323452 | 4.38E-05 | 0.00156 | 2.60127 | 0.196731 | 0.407879 | -0.21115 | 21 | 42626439 | R | II | BACE2 | Body | opensea | Body-open | | rs1146954 | 4 | 0 |
| cg0465751 | 0.217196 | 0.722501 | 8.32246 | 4.38E-05 | 0.001561 | 2.600403 | 0.613903 | 0.831099 | -0.2172 | 6 | 89351153 | R | II | RNGTT | Body | opensea | Body-open | | rs1688098 | 4 | 2;1 |
| cg0067608 | 0.234566 | 0.547295 | 8.322148 | 4.38E-05 | 0.001561 | 2.60013 | 0.430012 | 0.664578 | -0.23457 | 12 | 52991945 | R | II | KRT72 | Body | shelf | Body-shelf | chr12:529 | rs5555233 | 2 | 1 |
| cg1731447 | 0.222107 | 0.59472 | 8.320315 | 4.39E-05 | 0.001562 | 2.598527 | 0.483666 | 0.705773 | -0.22211 | 17 | 34087282 | F | II | C17orf50 | TSS1500 | shelf | TSS1500-sh | chr17:340 | rs5877294 | 7 | 16;46 |
| cg1426334 | 0.276472 | 0.464495 | 8.319655 | 4.39E-05 | 0.001563 | 2.59795 | 0.326259 | 0.602731 | -0.27647 | 7 | 1.51E+08 | F | II | RHEB | Body | opensea | Body-open | | rs1150018 | 1 | 7;18 |
| cg2053493 | 0.213074 | 0.489734 | 8.319589 | 4.39E-05 | 0.001563 | 2.597892 | 0.383197 | 0.596271 | -0.21307 | 15 | 71972294 | F | II | THSD4 | Body | opensea | Body-open | | rs5433646 | 4 | 7 |
| cg0069528 | 0.216017 | 0.636693 | 8.31876 | 4.39E-05 | 0.001563 | 2.597167 | 0.528685 | 0.744702 | -0.21602 | 6 | 21354634 | F | II | | IGR | opensea | IGR-opense | | rs1407304 | 1 | 45 |
| cg0201085 | 0.20656 | 0.63061 | 8.318072 | 4.4E-05 | 0.001564 | 2.596565 | 0.52733 | 0.733889 | -0.20656 | 9 | 1.26E+08 | R | II | CRB2 | TSS200 | opensea | TSS200-ope | | rs5356891 | 45 | 43;28;1 |
| cg0949154 | 0.22963 | 0.647231 | 8.317535 | 4.4E-05 | 0.001564 | 2.596095 | 0.532416 | 0.762046 | -0.22963 | 6 | 1.55E+08 | R | II | | IGR | shelf | IGR-shelf | chr6:1548 | rs1394675 | 7 | 4 |
| cg2473842 | 0.213249 | 0.521274 | 8.317035 | 4.4E-05 | 0.001564 | 2.595658 | 0.414649 | 0.627898 | -0.21325 | 6 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | rs1156358 | 0 | 1 |
| cg1305344 | 0.240164 | 0.396611 | 8.316471 | 4.4E-05 | 0.001564 | 2.595165 | 0.276529 | 0.516692 | -0.24016 | 17 | 45002105 | F | II | GOSR2 | Body | shore | Body-shore | chr17:450 | rs5401753 | 1 | |
| cg1010928 | 0.213116 | 0.539682 | 8.315928 | 4.41E-05 | 0.001565 | 2.594689 | 0.433124 | 0.64624 | -0.21312 | 4 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs326837 | 48 | |
| cg2118582 | 0.209868 | 0.544849 | 8.314082 | 4.41E-05 | 0.001565 | 2.593074 | 0.439915 | 0.649783 | -0.20987 | 14 | 85984042 | F | II | | IGR | opensea | IGR-opense | | rs5551921 | 19 | |
| cg1312971 | 0.214059 | 0.530318 | 8.313841 | 4.41E-05 | 0.001565 | 2.592863 | 0.423288 | 0.637348 | -0.21406 | 6 | 65014005 | F | II | EYS | Body | opensea | Body-open | | rs5344324 | 1 | |
| cg2222353 | 0.205529 | 0.487495 | 8.313684 | 4.41E-05 | 0.001565 | 2.592725 | 0.38473 | 0.59026 | -0.20553 | 15 | 92977495 | F | II | ST8SIA2 | ExonBnd | opensea | ExonBnd-op | | rs1422336 | 1 | 43 |
| cg2411298 | 0.219521 | 0.696025 | 8.312619 | 4.42E-05 | 0.001566 | 2.591793 | 0.586264 | 0.805785 | -0.21952 | 9 | 1.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs5760698 | 4 | 5;28 |
| cg0946256 | 0.225146 | 0.409787 | 8.311413 | 4.42E-05 | 0.001567 | 2.590737 | 0.297214 | 0.52236 | -0.22515 | 6 | 1.59E+08 | R | II | | IGR | opensea | IGR-opense | | rs5410837 | 39 | 22;20;5 |
| cg2520695 | 0.222132 | 0.552492 | 8.311357 | 4.42E-05 | 0.001567 | 2.590689 | 0.441426 | 0.663558 | -0.22213 | 21 | 40219706 | R | II | | IGR | opensea | IGR-opense | | rs8012854 | 1 | |
| cg2498099 | 0.202106 | 0.588146 | 8.311195 | 4.42E-05 | 0.001567 | 2.590547 | 0.487093 | 0.6892 | -0.20211 | 2 | 2.18E+08 | F | II | DIRC3 | Body | opensea | Body-open | | | | |
| cg0964030 | 0.226825 | 0.672713 | 8.310157 | 4.43E-05 | 0.001567 | 2.589638 | 0.5593 | 0.786125 | -0.22683 | 6 | 7641144 | F | II | | IGR | opensea | IGR-opense | | rs5319618 | 1 | |
| cg2137318 | 0.223087 | 0.633691 | 8.309964 | 4.43E-05 | 0.001567 | 2.589469 | 0.522148 | 0.745235 | -0.22309 | 8 | 32559783 | R | II | NRG1 | Body | opensea | Body-open | | rs5683313 | 20 | 1 |
| cg1028160 | 0.226171 | 0.561966 | 8.309639 | 4.43E-05 | 0.001568 | 2.589185 | 0.44888 | 0.675051 | -0.22617 | 22 | 40732359 | F | II | | IGR | opensea | IGR-opense | | rs5655206 | 33 | 38;43;47 |
| cg0066001 | 0.225595 | 0.599897 | 8.308571 | 4.43E-05 | 0.001569 | 2.58825 | 0.487099 | 0.712694 | -0.22559 | 2 | 1.25E+08 | R | II | CNTNAP5 | Body | opensea | Body-open | | rs1860893 | 3 | 2 |
| cg0187653 | 0.241695 | 0.446944 | 8.30835 | 4.43E-05 | 0.001569 | 2.588056 | 0.326096 | 0.567792 | -0.2417 | 1 | 2.08E+08 | R | II | PLXNA2 | 5'UTR | opensea | 5'UTR-open | | rs5768552 | 4 | 8 |
| cg0132369 | 0.281282 | 0.401416 | 8.307829 | 4.44E-05 | 0.001569 | 2.587599 | 0.260775 | 0.542057 | -0.28128 | 3 | 52705086 | R | II | PBRM1 | Body | opensea | Body-open | | rs1144923 | 2 | |
| cg0092685 | 0.230979 | 0.508975 | 8.305662 | 4.44E-05 | 0.001571 | 2.585701 | 0.393486 | 0.624465 | -0.23098 | 5 | 80037111 | R | II | MSH3 | Body | opensea | Body-open | | rs1808152 | 5 | 0;21;17;3;1 |
| cg1344708 | 0.214343 | 0.550579 | 8.305046 | 4.45E-05 | 0.001572 | 2.585162 | 0.443407 | 0.657751 | -0.21434 | 8 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs1407191 | 3 | 6 |
| cg0856258 | 0.206884 | 0.693014 | 8.304223 | 4.45E-05 | 0.001572 | 2.584441 | 0.589572 | 0.796456 | -0.20688 | 9 | 1.18E+08 | R | II | TNC | Body | opensea | Body-open | | rs1153530 | 3 | 7 |
| cg1865775 | 0.257003 | 0.521473 | 8.303765 | 4.45E-05 | 0.001572 | 2.58404 | 0.392972 | 0.649975 | -0.257 | 17 | 9834056 | F | II | GAS7 | Body | opensea | Body-open | | rs5534885 | 1 | 7;42;51 |
| cg0311210 | 0.209479 | 0.429509 | 8.303631 | 4.45E-05 | 0.001572 | 2.583922 | 0.324769 | 0.534248 | -0.20948 | 3 | 55469470 | F | II | | IGR | opensea | IGR-opense | | rs1862543 | 0 | 41;44 |
| cg0010809 | 0.215928 | 0.511586 | 8.29961 | 4.47E-05 | 0.001576 | 2.580398 | 0.403622 | 0.61955 | -0.21593 | 3 | 1.23E+08 | F | II | SEMA5B | Body | shelf | Body-shelf | chr3:1226 | rs1473692 | 0 | 40;51 |
| cg0655166 | 0.222061 | 0.631366 | 8.299375 | 4.47E-05 | 0.001576 | 2.580192 | 0.520336 | 0.742397 | -0.22206 | 10 | 89366915 | F | II | | IGR | opensea | IGR-opense | | rs1999391 | 23 | |
| cg0661520 | 0.21662 | 0.532092 | 8.299005 | 4.47E-05 | 0.001576 | 2.579867 | 0.423782 | 0.640402 | -0.21662 | 6 | 1.64E+08 | R | II | | IGR | opensea | IGR-opense | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1096644 | 0.23241 | 0.593385 | 8.298815 | 4.47E-05 | 0.001576 | 2.579701 | 0.47718 | 0.70959 | -0.23241 | 11 | 1.33E+08 | R | II | OPCML | Body | opensea | Body-opens | rs5435359 | 47;22;1;1 |
| cg2272422 | 0.227939 | 0.564392 | 8.296284 | 4.48E-05 | 0.001578 | 2.577482 | 0.450422 | 0.678361 | -0.22794 | 6 | 1.55E+08 | F | II | CNKSR3 | Body | shelf | Body-shelf | chr6:1548 | rs1462925 | 1 |
| cg2348559 | 0.239265 | 0.608677 | 8.295656 | 4.48E-05 | 0.001578 | 2.576931 | 0.489045 | 0.728309 | -0.23926 | 7 | 25601773 | F | II | | IGR | opensea | IGR-opense | | rs3718350 | 1;39 |
| cg0234310 | 0.205811 | 0.571216 | 8.295613 | 4.48E-05 | 0.001578 | 2.576894 | 0.46831 | 0.674121 | -0.20581 | 3 | 1.97E+08 | F | II | | IGR | opensea | IGR-opense | | rs1114800 | 6;15 |
| cg2311823 | 0.208627 | 0.638216 | 8.292978 | 4.49E-05 | 0.00158 | 2.574582 | 0.533902 | 0.742529 | -0.20863 | 6 | 14232628 | R | II | | IGR | opensea | IGR-opense | | rs3769729 | 49 |
| cg2061736 | 0.203738 | 0.651491 | 8.292675 | 4.49E-05 | 0.00158 | 2.574316 | 0.549622 | 0.75336 | -0.20374 | 6 | 56611699 | R | II | RNU6-71P | Body | opensea | Body-opens | rs4520018 | 51;1 |
| cg0057649 | 0.223953 | 0.706114 | 8.292066 | 4.49E-05 | 0.00158 | 2.573782 | 0.594137 | 0.818091 | -0.22395 | 6 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1752966 | 0.205912 | 0.392363 | 8.290932 | 4.5E-05 | 0.001581 | 2.572787 | 0.289407 | 0.495319 | -0.20591 | 4 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1914994 | 2;42 |
| cg0462533 | 0.232726 | 0.559324 | 8.290528 | 4.5E-05 | 0.001581 | 2.572433 | 0.442961 | 0.675686 | -0.23273 | 7 | 55141971 | R | I | EGFR | Body | opensea | Body-opens | rs5754260 | 37 |
| cg1536290 | 0.208957 | 0.390878 | 8.28943 | 4.5E-05 | 0.001582 | 2.571469 | 0.2864 | 0.495357 | -0.20896 | 3 | 1.46E+08 | F | II | | IGR | opensea | IGR-opense | | rs1131061 | 1;29;32 |
| cg2258905 | 0.224196 | 0.548937 | 8.288704 | 4.51E-05 | 0.001582 | 2.570832 | 0.436839 | 0.661035 | -0.2242 | 8 | 86973512 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2101677 | 0.202847 | 0.681791 | 8.288172 | 4.51E-05 | 0.001582 | 2.570365 | 0.580368 | 0.783215 | -0.20285 | 15 | 65805260 | F | II | DPP8 | 5'UTR | opensea | 5'UTR-open | rs5655750 | 3;6 |
| cg2718405 | 0.204834 | 0.460888 | 8.287823 | 4.51E-05 | 0.001583 | 2.570059 | 0.358472 | 0.563305 | -0.20483 | 9 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs1176204 | 12;9 |
| cg0024515 | 0.223347 | 0.564189 | 8.287467 | 4.51E-05 | 0.001583 | 2.569746 | 0.452515 | 0.675862 | -0.22335 | 15 | 82243353 | F | II | | IGR | opensea | IGR-opense | | rs5680560 | 0;41 |
| cg1501900 | 0.224307 | 0.565185 | 8.28601 | 4.52E-05 | 0.001584 | 2.568467 | 0.453032 | 0.677338 | -0.22431 | 6 | 33096303 | R | II | HLA-DPB2 | Body | opensea | Body-opens | rs2836107 | 47;31 |
| cg1010315 | 0.229905 | 0.686933 | 8.285666 | 4.52E-05 | 0.001585 | 2.568165 | 0.571981 | 0.801885 | -0.2299 | 15 | 69659778 | R | II | PAQR5 | Body | opensea | Body-opens | rs1917555 | 40;32;2;1 |
| cg0890623 | 0.205476 | 0.585363 | 8.285189 | 4.52E-05 | 0.001585 | 2.567747 | 0.482625 | 0.688101 | -0.20548 | 7 | 47475653 | F | II | TNS3 | Body | opensea | Body-opens | rs5285631 | 0;1;23;33;41 |
| cg0332012 | 0.205442 | 0.347965 | 8.285171 | 4.52E-05 | 0.001585 | 2.567731 | 0.245244 | 0.450686 | -0.20544 | 15 | 28330686 | F | II | OCA2 | 5'UTR | opensea | 5'UTR-open | rs1456822 | 1;33 |
| cg0689539 | 0.204355 | 0.575189 | 8.28462 | 4.52E-05 | 0.001585 | 2.567247 | 0.473011 | 0.677366 | -0.20436 | 4 | 26406431 | R | II | RBPJ | Body | opensea | Body-opens | rs5549026 | 33 |
| cg2127873 | 0.250081 | 0.606531 | 8.284287 | 4.52E-05 | 0.001585 | 2.566955 | 0.481491 | 0.731572 | -0.25008 | 4 | 38797651 | F | II | | IGR | opensea | IGR-opense | | rs1479840 | 0;12;35 |
| cg1956838 | 0.231635 | 0.648165 | 8.283476 | 4.53E-05 | 0.001586 | 2.566242 | 0.532348 | 0.763983 | -0.23164 | 4 | 2012845 | F | II | | IGR | shore | IGR-shore | chr4:2009 | rs5473651 | 32 |
| cg1475850 | 0.256747 | 0.514417 | 8.283399 | 4.53E-05 | 0.001586 | 2.566175 | 0.386043 | 0.64279 | -0.25675 | 6 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs3702481 | 43;1 |
| cg1176927 | 0.272866 | 0.622794 | 8.28204 | 4.53E-05 | 0.001587 | 2.564982 | 0.486361 | 0.759227 | -0.27287 | 3 | 1.95E+08 | F | II | XXYLT1 | Body | opensea | Body-opens | rs5359511 | 1;45 |
| cg1614399 | 0.202782 | 0.605627 | 8.281187 | 4.54E-05 | 0.001587 | 2.564232 | 0.504236 | 0.707019 | -0.20278 | 3 | 1.37E+08 | F | II | | IGR | opensea | IGR-opense | | rs5451298 | 29 |
| cg2369121 | 0.204394 | 0.67662 | 8.280979 | 4.54E-05 | 0.001587 | 2.56405 | 0.574423 | 0.778816 | -0.20439 | 15 | 99436798 | R | II | IGF1R | Body | shore | Body-shore | chr15:994 | | |
| cg1595237 | 0.222172 | 0.51302 | 8.280823 | 4.54E-05 | 0.001587 | 2.563913 | 0.401934 | 0.624106 | -0.22217 | 11 | 1.24E+08 | R | II | OR8D2 | TSS1500 | opensea | TSS1500-op | | | |
| cg0059582 | 0.200415 | 0.68088 | 8.279821 | 4.54E-05 | 0.001588 | 2.563032 | 0.580673 | 0.781088 | -0.20041 | 4 | 1.42E+08 | R | II | TBC1D9 | Body | opensea | Body-opens | rs1457301 | 50;34;18 |
| cg2541810 | 0.206227 | 0.556827 | 8.279593 | 4.54E-05 | 0.001588 | 2.562832 | 0.453713 | 0.65994 | -0.20623 | 12 | 1.32E+08 | R | II | ADGRD1 | Body | shelf | Body-shelf | chr12:131 | rs1976930 | 31;19;16 |
| cg2087211 | 0.203673 | 0.470304 | 8.279526 | 4.54E-05 | 0.001588 | 2.562774 | 0.368467 | 0.57214 | -0.20367 | 9 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs1427120 | 30;31 |
| cg0038329 | 0.228489 | 0.558167 | 8.278462 | 4.55E-05 | 0.001589 | 2.561838 | 0.443923 | 0.672412 | -0.22849 | 8 | 1.41E+08 | R | II | TRAPPC9 | Body | opensea | Body-opens | | | |
| cg0095819 | 0.214391 | 0.443744 | 8.278236 | 4.55E-05 | 0.001589 | 2.56164 | 0.336548 | 0.550939 | -0.21439 | 7 | 28474389 | F | II | CREB5 | TSS1500 | opensea | TSS1500-op | | | |
| cg2259814 | 0.216935 | 0.547811 | 8.277968 | 4.55E-05 | 0.001589 | 2.561405 | 0.439344 | 0.656279 | -0.21693 | 8 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5350513 | 1 |
| cg1353051 | 0.202445 | 0.579336 | 8.277149 | 4.55E-05 | 0.001589 | 2.560684 | 0.478113 | 0.680558 | -0.20244 | 1 | 30951615 | R | II | | IGR | opensea | IGR-opense | | rs6703542 | 42;39;14 |
| cg1897212 | 0.218616 | 0.567122 | 8.276163 | 4.55E-05 | 0.00159 | 2.559818 | 0.457814 | 0.67643 | -0.21862 | 10 | 54532059 | R | II | MBL2 | TSS1500 | opensea | TSS1500-op | rs1100312 | 47;33;1 |
| cg2263182 | 0.270945 | 0.462042 | 8.275994 | 4.55E-05 | 0.00159 | 2.55967 | 0.326569 | 0.597514 | -0.27095 | 6 | 1.44E+08 | R | II | ZC2HC1B | Body | opensea | Body-opens | | | |
| cg1518968 | 0.216284 | 0.596995 | 8.275657 | 4.56E-05 | 0.00159 | 2.559374 | 0.488853 | 0.705137 | -0.21628 | 3 | 1.92E+08 | R | II | FGF12 | Body | opensea | Body-opens | rs5416124 | 4;2 |
| cg0486878 | 0.209166 | 0.4855 | 8.274983 | 4.56E-05 | 0.001591 | 2.558781 | 0.380917 | 0.590083 | -0.20917 | 2 | 2.34E+08 | R | II | INPP5D | Body | opensea | Body-opens | rs1896125 | 49;40 |
| cg2641831 | 0.223435 | 0.66987 | 8.274258 | 4.56E-05 | 0.001591 | 2.558144 | 0.558152 | 0.781587 | -0.22344 | 1 | 2.48E+08 | R | II | GCSAML | 5'UTR | shelf | 5'UTR-shelf | chr1:2476 | rs5321191 | 21;19;5 |
| cg2511010 | 0.200633 | 0.400869 | 8.274246 | 4.56E-05 | 0.001591 | 2.558134 | 0.300552 | 0.501186 | -0.20063 | 4 | 84674460 | R | II | | IGR | opensea | IGR-opense | | rs1808257 | 18;8 |
| cg1875485 | 0.203754 | 0.535591 | 8.274229 | 4.56E-05 | 0.001591 | 2.558118 | 0.433714 | 0.637467 | -0.20375 | 10 | 1.01E+08 | R | II | HPSE2 | Body | opensea | Body-opens | rs1914628 | 45 |
| cg1606649 | 0.241512 | 0.633811 | 8.273938 | 4.56E-05 | 0.001591 | 2.557862 | 0.513055 | 0.754567 | -0.24151 | 9 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1478043 | 0 |
| cg1017446 | 0.260221 | 0.651521 | 8.273374 | 4.56E-05 | 0.001592 | 2.557367 | 0.521411 | 0.781632 | -0.26022 | 8 | 11739341 | F | II | | IGR | opensea | IGR-opense | | rs1831214 | 21;29;47 |
| cg0741815 | 0.270941 | 0.435084 | 8.272691 | 4.57E-05 | 0.001592 | 2.556766 | 0.299613 | 0.570554 | -0.27094 | 19 | 13056052 | R | II | RAD23A | TSS1500 | shore | TSS1500-sh | chr19:130 | | |
| cg1488087 | 0.212396 | 0.35868 | 8.271985 | 4.57E-05 | 0.001593 | 2.556146 | 0.252482 | 0.464878 | -0.2124 | 4 | 23271344 | R | II | MIR548AJ2 | Body | opensea | Body-opens | rs5566694 | 49;48;21 |
| cg0408827 | 0.226466 | 0.641722 | 8.271764 | 4.57E-05 | 0.001593 | 2.555951 | 0.528489 | 0.754954 | -0.22647 | 21 | 36675546 | F | II | | IGR | opensea | IGR-opense | | rs1386258 | 1 |
| cg0169214 | 0.208717 | 0.587323 | 8.271222 | 4.57E-05 | 0.001593 | 2.555475 | 0.482965 | 0.691682 | -0.20872 | 17 | 33668674 | F | II | | IGR | opensea | IGR-opense | | rs1807607 | 0;1;5;22;27 |
| cg2257113 | 0.265487 | 0.441103 | 8.270396 | 4.58E-05 | 0.001594 | 2.554748 | 0.30836 | 0.573847 | -0.26549 | 7 | 55377050 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1874938 | 0.205782 | 0.529094 | 8.268634 | 4.58E-05 | 0.001595 | 2.553198 | 0.426203 | 0.631985 | -0.20578 | 4 | 1.48E+08 | R | II | | IGR | opensea | IGR-opense | | rs5442677 | 43;2;1 |
| cg2698072 | 0.225353 | 0.496909 | 8.267087 | 4.59E-05 | 0.001597 | 2.551838 | 0.384232 | 0.609585 | -0.22535 | 6 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs1464866 | 44;9 |
| cg1523017 | 0.201351 | 0.670416 | 8.265916 | 4.59E-05 | 0.001597 | 2.550808 | 0.569741 | 0.771092 | -0.20135 | 3 | 98488157 | F | II | ST3GAL6 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1916795 | 0.202223 | 0.497555 | 8.265598 | 4.59E-05 | 0.001597 | 2.550528 | 0.396444 | 0.598666 | -0.20222 | 2 | 1.59E+08 | F | II | UPP2 | TSS1500 | opensea | TSS1500-op | rs5560557 | 41 |
| cg1189721 | 0.200612 | 0.507436 | 8.265353 | 4.6E-05 | 0.001597 | 2.550313 | 0.40713 | 0.607742 | -0.20061 | 5 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | | rs1918319 | 23;17 |
| cg0090393 | 0.203355 | 0.660288 | 8.265155 | 4.6E-05 | 0.001597 | 2.550138 | 0.55861 | 0.761965 | -0.20335 | 1 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5482560 | 0;1;18;19 |
| cg0611217 | 0.201489 | 0.480044 | 8.264987 | 4.6E-05 | 0.001597 | 2.54999 | 0.379299 | 0.580788 | -0.20149 | 6 | 40324498 | R | II | | IGR | opensea | IGR-opense | | rs5348713 | 31;2;1 |
| cg1284737 | 0.265529 | 0.46738 | 8.263094 | 4.6E-05 | 0.001598 | 2.548324 | 0.334616 | 0.600145 | -0.26553 | 19 | 13056058 | R | II | RAD23A | TSS1500 | shore | TSS1500-sh | chr19:130 | | |
| cg0857181 | 0.218461 | 0.456539 | 8.262879 | 4.61E-05 | 0.001598 | 2.548135 | 0.347308 | 0.565769 | -0.21846 | 9 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5411582 | 0;28 |
| cg0865141 | 0.21188 | 0.695088 | 8.262344 | 4.61E-05 | 0.001599 | 2.547664 | 0.589148 | 0.801028 | -0.21188 | 8 | 1.41E+08 | R | II | TRAPPC9 | Body | opensea | Body-opens | | | |
| cg1196400 | 0.242223 | 0.552398 | 8.262262 | 4.61E-05 | 0.001599 | 2.547592 | 0.431287 | 0.673509 | -0.24222 | 10 | 53852689 | F | II | PRKG1 | Body | opensea | Body-opens | rs5474575 | 0;41;47 |
| cg1410727 | 0.200176 | 0.484039 | 8.260638 | 4.61E-05 | 0.0016 | 2.546163 | 0.383951 | 0.584127 | -0.20018 | 5 | 1.42E+08 | F | II | ARHGAP26 | Body | opensea | Body-opens | rs5708336 | 16;21;42 |
| cg2569780 | 0.208109 | 0.500384 | 8.260253 | 4.62E-05 | 0.0016 | 2.545824 | 0.396329 | 0.604438 | -0.20811 | 4 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs5454255 | 0;39 |
| cg0046494 | 0.202125 | 0.342809 | 8.260096 | 4.62E-05 | 0.0016 | 2.545686 | 0.241746 | 0.443871 | -0.20212 | 1 | 1.2E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:1201 | rs1153106 | 44;29;5 |
| cg2645381 | 0.235375 | 0.485168 | 8.259742 | 4.62E-05 | 0.0016 | 2.545373 | 0.367481 | 0.602856 | -0.23538 | 6 | 14755099 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0723164 | 0.219314 | 0.600824 | 8.259274 | 4.62E-05 | 0.001601 | 2.544962 | 0.491167 | 0.710481 | -0.21931 | 4 | 91014825 | R | II | | IGR | opensea | IGR-opense | | rs1876035 | 17 |
| cg2094743 | 0.209627 | 0.579581 | 8.259135 | 4.62E-05 | 0.001601 | 2.544839 | 0.474767 | 0.684394 | -0.20963 | 4 | 96351973 | F | II | UNC5C | Body | opensea | Body-opens | rs1896899 | 6;35;39 |
| cg0265400 | 0.262974 | 0.559308 | 8.258383 | 4.62E-05 | 0.001601 | 2.544177 | 0.427821 | 0.690795 | -0.26297 | 20 | 32810251 | R | II | | IGR | opensea | IGR-opense | | rs5563497 | 8 |
| cg1898333 | 0.204551 | 0.591259 | 8.25837 | 4.62E-05 | 0.001601 | 2.544165 | 0.488983 | 0.693534 | -0.20455 | 17 | 19406038 | R | II | | IGR | opensea | IGR-opense | | rs1394246 | 46 |
| cg0840563 | 0.240582 | 0.483623 | 8.257362 | 4.63E-05 | 0.001602 | 2.543278 | 0.363332 | 0.603914 | -0.24058 | 9 | 36383478 | F | II | RNF38 | Body | opensea | Body-opens | rs5365661 | 0;18;43 |
| cg0537351 | 0.207555 | 0.709323 | 8.25619 | 4.63E-05 | 0.001603 | 2.542246 | 0.605546 | 0.813101 | -0.20755 | 18 | 57459767 | F | II | | IGR | opensea | IGR-opense | | rs5543024 | 41;50;51 |
| cg1664269 | 0.209664 | 0.453042 | 8.255484 | 4.63E-05 | 0.001604 | 2.541624 | 0.34821 | 0.557874 | -0.20966 | 8 | 67343633 | F | II | ADHFE1 | TSS1500 | shore | TSS1500-sh | chr8:6734 | rs5740842 | 15;47 |
| cg2761879 | 0.208802 | 0.39985 | 8.255228 | 4.63E-05 | 0.001604 | 2.541398 | 0.295449 | 0.504251 | -0.2088 | 6 | 1.33E+08 | F | II | RPS12 | Body | shelf | Body-shelf | chr6:1331 | rs1462277 | 29;39 |
| cg0814209 | 0.234782 | 0.416777 | 8.254839 | 4.64E-05 | 0.001604 | 2.541055 | 0.299386 | 0.534169 | -0.23478 | 11 | 1.11E+08 | R | II | C11orf53 | TSS1500 | opensea | TSS1500-op | | | |
| cg1321138 | 0.214524 | 0.619174 | 8.254197 | 4.64E-05 | 0.001605 | 2.54049 | 0.511912 | 0.726436 | -0.21452 | 19 | 47440539 | F | II | ARHGAP35 | ExonBnd | opensea | ExonBnd-op | | | |
| cg0786972 | 0.201777 | 0.502228 | 8.253875 | 4.64E-05 | 0.001605 | 2.540206 | 0.40134 | 0.603117 | -0.20178 | 4 | 1.72E+08 | F | II | | IGR | opensea | IGR-opense | | rs5544149 | 0 |
| cg0580438 | 0.212303 | 0.550573 | 8.25299 | 4.64E-05 | 0.001605 | 2.539427 | 0.444422 | 0.656725 | -0.2123 | 2 | 1.67E+08 | F | II | LOC10192 | Body | opensea | Body-opens | rs1879475 | 1;7;25 |
| cg0779180 | 0.202191 | 0.47605 | 8.252361 | 4.65E-05 | 0.001606 | 2.538873 | 0.374954 | 0.577146 | -0.20219 | 8 | 34343944 | F | II | | IGR | opensea | IGR-opense | | rs1854543 | 38 |
| cg2201228 | 0.244862 | 0.487232 | 8.248502 | 4.66E-05 | 0.001608 | 2.535471 | 0.364801 | 0.609663 | -0.24486 | 22 | 17895032 | F | II | | IGR | shelf | IGR-shelf | chr22:178 | rs5736780 | 0;19;43;49 |
| cg2256827 | 0.294754 | 0.437497 | 8.248192 | 4.66E-05 | 0.001608 | 2.535198 | 0.29012 | 0.584874 | -0.29475 | 3 | 69811867 | R | II | MITF | TSS1500 | opensea | TSS1500-op | rs2014262 | 37 |
| cg1406585 | 0.200651 | 0.530618 | 8.247754 | 4.66E-05 | 0.001608 | 2.534812 | 0.430292 | 0.630943 | -0.20065 | 2 | 33436054 | R | II | LTBP1 | Body | opensea | Body-opens | rs1419021 | 17;9;2 |
| cg1420853 | 0.202944 | 0.707085 | 8.247295 | 4.67E-05 | 0.001609 | 2.534408 | 0.605613 | 0.808557 | -0.20294 | 7 | 90661477 | R | II | CDK14 | Body | opensea | Body-opens | rs1024188 | 36;2 |
| cg1642814 | 0.211007 | 0.64843 | 8.246683 | 4.67E-05 | 0.001609 | 2.533867 | 0.542927 | 0.753934 | -0.21101 | 16 | 4616356 | R | II | C16orf96 | Body | opensea | Body-opens | | | |
| cg1327653 | 0.219286 | 0.598264 | 8.246104 | 4.67E-05 | 0.00161 | 2.533357 | 0.488621 | 0.707907 | -0.21929 | 4 | 91096255 | F | II | CCSER1 | 5'UTR | opensea | 5'UTR-open | rs5704904 | 1;3;13 |
| cg2609811 | 0.210742 | 0.640456 | 8.24584 | 4.67E-05 | 0.00161 | 2.533124 | 0.535085 | 0.745827 | -0.21074 | 6 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | rs5499868 | 45;5;2;1 |
| cg2739782 | 0.218622 | 0.560672 | 8.245439 | 4.67E-05 | 0.00161 | 2.532771 | 0.451361 | 0.669983 | -0.21862 | 2 | 17150204 | R | II | | IGR | opensea | IGR-opense | | rs5719107 | 33;11;1 |
| cg0682587 | 0.249492 | 0.476334 | 8.244803 | 4.68E-05 | 0.001611 | 2.53221 | 0.351588 | 0.60108 | -0.24949 | 7 | 75472540 | F | II | | IGR | opensea | IGR-opense | | rs5679392 | 1;5;13 |
| cg1599697 | 0.214554 | 0.618523 | 8.244737 | 4.68E-05 | 0.001611 | 2.532151 | 0.511246 | 0.7258 | -0.21455 | 12 | 79450288 | R | II | SYT1 | 5'UTR | opensea | 5'UTR-open | rs1416307 | 38;11;2 |
| cg1381779 | 0.204719 | 0.612693 | 8.244478 | 4.68E-05 | 0.001611 | 2.531923 | 0.510334 | 0.715053 | -0.20472 | 2 | 2.16E+08 | R | II | BARD1 | Body | opensea | Body-opens | rs5718730 | 22 |
| cg1499618 | 0.210764 | 0.628604 | 8.24374 | 4.68E-05 | 0.001611 | 2.531273 | 0.523221 | 0.733986 | -0.21076 | 3 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs1456784 | 18;24;27;28;35 |
| cg1569759 | 0.207584 | 0.552683 | 8.24266 | 4.68E-05 | 0.001612 | 2.53032 | 0.448891 | 0.656475 | -0.20758 | 1 | 6805149 | F | II | | IGR | opensea | IGR-opense | | rs5465103 | 49 |
| cg0282684 | 0.241778 | 0.699155 | 8.241827 | 4.69E-05 | 0.001612 | 2.529585 | 0.578266 | 0.820044 | -0.24178 | 7 | 1.07E+08 | R | II | PIK3CG | ExonBnd | opensea | ExonBnd-op | rs1129293 | 27;24;20 |
| cg2166685 | 0.209626 | 0.579549 | 8.24134 | 4.69E-05 | 0.001613 | 2.529155 | 0.474736 | 0.684362 | -0.20963 | 2 | 2.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs1504915 | 12 |
| cg0210706 | 0.209664 | 0.651532 | 8.241151 | 4.69E-05 | 0.001613 | 2.528989 | 0.5467 | 0.756364 | -0.20966 | 5 | 52281282 | R | II | | IGR | shelf | IGR-shelf | chr5:5228 | rs5468890 | 41 |
| cg0938403 | 0.277328 | 0.575107 | 8.239475 | 4.7E-05 | 0.001613 | 2.52751 | 0.436443 | 0.713771 | -0.27733 | 8 | 1.04E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0667951 | 0.202983 | 0.604022 | 8.238995 | 4.7E-05 | 0.001614 | 2.527086 | 0.502531 | 0.705514 | -0.20298 | 7 | 11467973 | R | II | THSD7A | Body | opensea | Body-opens | rs1125260 | 2;1 |
| cg0033922 | 0.207106 | 0.675405 | 8.238806 | 4.7E-05 | 0.001614 | 2.526919 | 0.571852 | 0.778958 | -0.20711 | 3 | 1.26E+08 | F | II | C3orf22 | Body | opensea | Body-opens | | | |
| cg0070645 | 0.214138 | 0.633497 | 8.238139 | 4.7E-05 | 0.001615 | 2.526331 | 0.526428 | 0.740566 | -0.21414 | 4 | 1.55E+08 | F | II | FGB | TSS1500 | opensea | TSS1500-op | | | |
| cg1229125 | 0.204958 | 0.667505 | 8.237564 | 4.7E-05 | 0.001615 | 2.525823 | 0.565026 | 0.769984 | -0.20496 | 2 | 58997691 | R | II | LINC01122 | Body | opensea | Body-opens | rs5417051 | 21 |
| cg1686537 | 0.220608 | 0.451623 | 8.237528 | 4.7E-05 | 0.001615 | 2.525791 | 0.341319 | 0.561928 | -0.22061 | 6 | 1.26E+08 | R | II | TPD52L1 | 5'UTR | opensea | 5'UTR-open | rs1513254 | 26;2 |
| cg2501477 | 0.24891 | 0.495966 | 8.235336 | 4.71E-05 | 0.001616 | 2.523857 | 0.371511 | 0.620421 | -0.24891 | 12 | 65951721 | F | II | LOC10050 | Body | opensea | Body-opens | | | |
| cg1014299 | 0.200713 | 0.632149 | 8.234189 | 4.72E-05 | 0.001617 | 2.522844 | 0.531793 | 0.732506 | -0.20071 | 13 | 67240245 | R | II | PCDH9 | Body | opensea | Body-opens | rs5657809 | 43;14 |
| cg2150870 | 0.207784 | 0.628617 | 8.233067 | 4.72E-05 | 0.001618 | 2.521854 | 0.524725 | 0.732509 | -0.20778 | 12 | 51602241 | R | II | POU6F1 | Body | opensea | Body-opens | rs5782215 | 29;2 |
| cg2040257 | 0.222577 | 0.630693 | 8.232745 | 4.72E-05 | 0.001618 | 2.521569 | 0.519405 | 0.741982 | -0.22258 | 7 | 24813196 | F | II | | IGR | opensea | IGR-opense | | rs5398209 | 1;4;30;35 |
| cg1154800 | 0.234817 | 0.378161 | 8.231451 | 4.73E-05 | 0.001619 | 2.520426 | 0.260752 | 0.495569 | -0.23482 | 8 | 48812660 | R | II | PRKDC | Body | opensea | Body-opens | rs8178076 | 16;2 |
| cg0750473 | 0.213049 | 0.38852 | 8.228744 | 4.74E-05 | 0.001621 | 2.518035 | 0.281996 | 0.495045 | -0.21305 | 1 | 2.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs1818259 | 2;1 |
| cg0205640 | 0.24144 | 0.574865 | 8.228739 | 4.74E-05 | 0.001621 | 2.51803 | 0.454145 | 0.695585 | -0.24144 | 5 | 88263995 | R | II | MEF2C-AS1 | Body | opensea | Body-opens | rs5360346 | 16;2 |
| cg0829201 | 0.209392 | 0.554302 | 8.228716 | 4.74E-05 | 0.001621 | 2.51801 | 0.449606 | 0.658998 | -0.20939 | 18 | 53453900 | R | II | | IGR | opensea | IGR-opense | | rs5317835 | 35;1 |
| cg0856329 | 0.200097 | 0.663392 | 8.227459 | 4.74E-05 | 0.001622 | 2.5169 | 0.563344 | 0.763441 | -0.2001 | 19 | 16922592 | R | II | NWD1 | Body | shelf | Body-shelf | chr19:169 | rs1857637 | 15;2 |
| cg0042566 | 0.220329 | 0.533077 | 8.226767 | 4.75E-05 | 0.001622 | 2.516288 | 0.422912 | 0.643241 | -0.22033 | 14 | 38485787 | R | II | | IGR | opensea | IGR-opense | | rs1846883 | 2 |
| cg0749443 | 0.200397 | 0.457769 | 8.225916 | 4.75E-05 | 0.001623 | 2.515536 | 0.357571 | 0.557968 | -0.2004 | 10 | 52287340 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | rs5715778 | 0 |
| cg0741838 | 0.225496 | 0.502611 | 8.225097 | 4.75E-05 | 0.001624 | 2.514813 | 0.389863 | 0.615359 | -0.2255 | 1 | 2.4E+08 | F | II | FMN2 | Body | shelf | Body-shelf | chr1:2403 | rs1829430 | 0;4 |
| cg2112812 | 0.200064 | 0.520004 | 8.224194 | 4.76E-05 | 0.001624 | 2.514015 | 0.419972 | 0.620036 | -0.20006 | 1 | 48522093 | R | II | | IGR | opensea | IGR-opense | | rs3727894 | 2 |
| cg0705378 | 0.241931 | 0.441969 | 8.223915 | 4.76E-05 | 0.001624 | 2.513768 | 0.321003 | 0.562934 | -0.24193 | 3 | 1.79E+08 | R | II | ZMAT3 | 3'UTR | opensea | 3'UTR-open | rs5568058 | 2 |
| cg0235042 | 0.218359 | 0.659775 | 8.223885 | 4.76E-05 | 0.001624 | 2.513741 | 0.550595 | 0.768955 | -0.21836 | 8 | 1.27E+08 | F | II | LINC00861 | Body | opensea | Body-opens | | | |
| cg2497434 | 0.222035 | 0.660111 | 8.222979 | 4.76E-05 | 0.001625 | 2.512941 | 0.549094 | 0.771129 | -0.22203 | 10 | 13492017 | F | II | BEND7 | Body | opensea | Body-opens | | | |
| cg0988559 | 0.2115 | 0.659227 | 8.22285 | 4.76E-05 | 0.001625 | 2.512827 | 0.553477 | 0.764977 | -0.2115 | 6 | 25727535 | R | II | HIST1H2AA | TSS1500 | shore | TSS1500-sh | chr6:2572 | rs9358872 | 20;15;10 |
| cg0157462 | 0.20711 | 0.617723 | 8.22255 | 4.76E-05 | 0.001626 | 2.512561 | 0.514168 | 0.721278 | -0.20711 | 9 | 26797396 | R | II | | IGR | opensea | IGR-opense | | rs1845307 | 30 |
| cg1257414 | 0.222131 | 0.480737 | 8.222352 | 4.76E-05 | 0.001626 | 2.512386 | 0.369671 | 0.591802 | -0.22213 | 2 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs7397027 | 44;40;2 |
| cg2038995 | 0.21659 | 0.380538 | 8.22037 | 4.77E-05 | 0.001627 | 2.510633 | 0.272244 | 0.488833 | -0.21659 | 11 | 62195515 | F | II | | IGR | opensea | IGR-opense | | rs1440603 | 48 |
| cg0424627 | 0.212349 | 0.559714 | 8.219732 | 4.78E-05 | 0.001627 | 2.510069 | 0.45354 | 0.665888 | -0.21235 | 16 | 12847194 | F | II | CPPED1 | Body | opensea | Body-opens | rs5426247 | 1;24;45 |
| cg0438195 | 0.217394 | 0.448616 | 8.21964 | 4.78E-05 | 0.001627 | 2.509988 | 0.339919 | 0.557313 | -0.21739 | 3 | 16550461 | R | II | RFTN1 | 5'UTR | shelf | 5'UTR-shelf | chr3:1655 | rs5602788 | 26;22 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0683899 | 0.207732 | 0.613671 | 8.219459 | 4.78E-05 | 0.001627 | 2.509828 | 0.509805 | 0.717537 | -0.20773 | 11 | 78788443 | F | II | TENM4 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0305523 | 0.21175 | 0.605671 | 8.219184 | 4.78E-05 | 0.001628 | 2.509585 | 0.499796 | 0.711546 | -0.21175 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:11866 | rs1134299 | 25 | | | |
| cg1081640 | 0.205425 | 0.655216 | 8.218845 | 4.78E-05 | 0.001628 | 2.509285 | 0.552504 | 0.757928 | -0.20542 | 20 | 11851441 | F | II | LINC00687 | TSS200 | opensea | TSS200-ope | | rs1842197 | 16;36;37 | | | |
| cg0359886 | 0.228101 | 0.484106 | 8.217805 | 4.78E-05 | 0.001629 | 2.508365 | 0.370055 | 0.598156 | -0.2281 | 6 | 1.7E+08 | R | II | LINC00242 | Body | opensea | Body-open | | rs5422047 | 45 | | | |
| cg0135982 | 0.216436 | 0.673578 | 8.215692 | 4.79E-05 | 0.00163 | 2.506496 | 0.56536 | 0.781796 | -0.21644 | 21 | 40176597 | R | I | ETS2 | TSS1500 | shore | TSS1500-sh | chr21:401 | rs5669270 | 48;38;20 | | | |
| cg2720023 | 0.237701 | 0.512387 | 8.214307 | 4.8E-05 | 0.001631 | 2.50527 | 0.393537 | 0.631238 | -0.2377 | 4 | 24296454 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1597608 | 0.210982 | 0.544758 | 8.213049 | 4.8E-05 | 0.001632 | 2.504157 | 0.439267 | 0.650249 | -0.21098 | 15 | 47809041 | R | II | SEMA6D | 5'UTR | opensea | 5'UTR-open | | rs1259452 | 41;36 | | | |
| cg1146988 | 0.229877 | 0.590255 | 8.21187 | 4.81E-05 | 0.001633 | 2.503114 | 0.475317 | 0.705194 | -0.22988 | 1 | 9062256 | R | II | | IGR | opensea | IGR-opense | | rs5410470 | 28;1 | | | |
| cg0622636 | 0.214852 | 0.683967 | 8.21185 | 4.81E-05 | 0.001633 | 2.503096 | 0.576542 | 0.791393 | -0.21485 | 3 | 72200262 | F | II | LINC00870 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg1136171 | 0.2537 | 0.605199 | 8.211712 | 4.81E-05 | 0.001633 | 2.502974 | 0.478349 | 0.732049 | -0.2537 | 13 | 1E+08 | R | II | | IGR | opensea | IGR-opense | | rs1454540 | 47;1 | | | |
| cg2627142 | 0.205472 | 0.63764 | 8.211662 | 4.81E-05 | 0.001633 | 2.50293 | 0.534904 | 0.740376 | -0.20547 | 16 | 10767081 | F | II | TEKT5 | Body | opensea | Body-open | | rs1435022 | 0;1;28 | | | |
| cg0416643 | 0.221724 | 0.570986 | 8.21147 | 4.81E-05 | 0.001633 | 2.50276 | 0.460124 | 0.681848 | -0.22172 | 3 | 1.67E+08 | F | II | WDR49 | Body | opensea | Body-open | | rs2020586 | 1 | | | |
| cg0323036 | 0.271162 | 0.519146 | 8.211419 | 4.81E-05 | 0.001633 | 2.502715 | 0.383565 | 0.654727 | -0.27116 | 18 | 55681687 | R | II | | IGR | opensea | IGR-opense | | rs1848742 | 45;41;35 | | | |
| cg2421121 | 0.218621 | 0.581158 | 8.211199 | 4.81E-05 | 0.001633 | 2.50252 | 0.471848 | 0.690469 | -0.21862 | 2 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs5617902 | 37 | | | |
| cg2630166 | 0.20784 | 0.62494 | 8.21008 | 4.81E-05 | 0.001634 | 2.501529 | 0.52102 | 0.72886 | -0.20784 | 6 | 57070622 | F | II | RAB23 | Body | opensea | Body-open | | rs5548356 | 16 | | | |
| cg1603577 | 0.223331 | 0.471562 | 8.209043 | 4.82E-05 | 0.001634 | 2.500611 | 0.359896 | 0.583227 | -0.22333 | 1 | 2.06E+08 | R | II | MFSD4 | Body | opensea | Body-open | | rs5532740 | 2 | | | |
| cg0773825 | 0.202905 | 0.543008 | 8.208862 | 4.82E-05 | 0.001634 | 2.500451 | 0.441556 | 0.644461 | -0.2029 | 1 | 64368601 | F | II | ROR1 | Body | opensea | Body-open | | | | | | |
| cg2406074 | 0.205609 | 0.533225 | 8.207937 | 4.82E-05 | 0.001635 | 2.499632 | 0.430421 | 0.636029 | -0.20561 | 7 | 41045529 | R | II | | IGR | opensea | IGR-opense | | rs5675103 | 38 | | | |
| cg2536799 | 0.214822 | 0.613957 | 8.206513 | 4.83E-05 | 0.001636 | 2.498371 | 0.506545 | 0.721368 | -0.21482 | 11 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs1149298 | 10 | | | |
| cg1024632 | 0.215547 | 0.592441 | 8.20554 | 4.83E-05 | 0.001637 | 2.497509 | 0.484668 | 0.700215 | -0.21555 | 9 | 96845038 | F | II | PTPDC1 | Body | opensea | Body-open | | | | | | |
| cg2623839 | 0.249649 | 0.588622 | 8.205129 | 4.83E-05 | 0.001637 | 2.497145 | 0.463797 | 0.713446 | -0.24965 | 6 | 1.33E+08 | R | II | VNN2 | Body | opensea | Body-open | | rs3485606 | 33;32;20;1 | | | |
| cg0700794 | 0.200633 | 0.617378 | 8.202048 | 4.85E-05 | 0.001639 | 2.494415 | 0.517061 | 0.717694 | -0.20063 | 2 | 2.14E+08 | R | II | IKZF2 | Body | opensea | Body-open | | rs5422946 | 44;30;11;2 | | | |
| cg2678396 | 0.270329 | 0.481376 | 8.202043 | 4.85E-05 | 0.001639 | 2.494411 | 0.346212 | 0.616541 | -0.27033 | 6 | 1.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs5438982 | 37;8;3 | | | |
| cg2278647 | 0.264676 | 0.387432 | 8.201497 | 4.85E-05 | 0.00164 | 2.493927 | 0.255094 | 0.51977 | -0.26468 | 4 | 26198975 | F | II | | IGR | opensea | IGR-opense | | rs5473382 | 0 | | | |
| cg1053340 | 0.252816 | 0.661157 | 8.201069 | 4.85E-05 | 0.00164 | 2.493548 | 0.534749 | 0.787565 | -0.25282 | 3 | 11766469 | R | II | | IGR | opensea | IGR-opense | | rs5429350 | 23;1 | | | |
| cg0220948 | 0.244188 | 0.587184 | 8.199922 | 4.86E-05 | 0.001641 | 2.492531 | 0.46509 | 0.709278 | -0.24419 | 4 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs4541559 | 34;39;44 | | | |
| cg0353561 | 0.20665 | 0.615873 | 8.199382 | 4.86E-05 | 0.001641 | 2.492053 | 0.512548 | 0.719198 | -0.20665 | 21 | 39832552 | F | II | ERG | Body | opensea | Body-open | | rs1826909 | 1;14 | | | |
| cg2135763 | 0.211868 | 0.502849 | 8.198218 | 4.86E-05 | 0.001642 | 2.491021 | 0.396916 | 0.608783 | -0.21187 | 2 | 3800503 | R | II | DCDC2C | ExonBnd | opensea | ExonBnd-op | | rs2010040 | 38;9;1 | | | |
| cg2719373 | 0.240454 | 0.501723 | 8.197503 | 4.87E-05 | 0.001643 | 2.490387 | 0.381496 | 0.621951 | -0.24045 | 7 | 90562815 | F | II | CDK14 | Body | opensea | Body-open | | rs5416637 | 1;39 | | | |
| cg2240167 | 0.225388 | 0.639862 | 8.19437 | 4.88E-05 | 0.001645 | 2.48761 | 0.527168 | 0.752556 | -0.22539 | 1 | 95080047 | F | II | | IGR | opensea | IGR-opense | | rs5666043 | 46 | | | |
| cg1441122 | 0.233415 | 0.53113 | 8.194085 | 4.88E-05 | 0.001645 | 2.487357 | 0.414423 | 0.647838 | -0.23341 | 14 | 64064608 | F | II | WDR89 | 3'UTR | shelf | 3'UTR-shelf | chr14:640 | rs5598791 | 28 | | | |
| cg2036707 | 0.221225 | 0.647406 | 8.194042 | 4.88E-05 | 0.001645 | 2.487318 | 0.536794 | 0.758018 | -0.22122 | 11 | 19224117 | R | II | CSRP3 | TSS1500 | opensea | TSS1500-op | | rs5676342 | 48;39;27;13;2 | | | |
| cg1448133 | 0.240055 | 0.613851 | 8.194003 | 4.88E-05 | 0.001645 | 2.487284 | 0.493823 | 0.733878 | -0.24006 | 17 | 57678746 | R | II | DHX40 | Body | opensea | Body-open | | rs5618236 | 44;32 | | | |
| cg0735043 | 0.201213 | 0.467558 | 8.19394 | 4.88E-05 | 0.001645 | 2.487228 | 0.366952 | 0.568165 | -0.20121 | 5 | 1.69E+08 | R | II | | IGR | opensea | IGR-opense | | rs5287797 | 34;26;2 | | | |
| cg0719877 | 0.285596 | 0.499364 | 8.193445 | 4.88E-05 | 0.001645 | 2.48679 | 0.356565 | 0.642162 | -0.2856 | 7 | 92439762 | R | II | CDK6 | Body | opensea | Body-open | | rs1878481 | 40;32;28;1 | | | |
| cg0441044 | 0.272639 | 0.493873 | 8.193331 | 4.88E-05 | 0.001645 | 2.486688 | 0.357553 | 0.630193 | -0.27264 | 6 | 1.44E+08 | R | II | C6orf94 | Body | opensea | Body-open | | rs5456474 | 38;2;1 | | | |
| cg2472711 | 0.20065 | 0.632142 | 8.19279 | 4.88E-05 | 0.001645 | 2.486208 | 0.531818 | 0.732467 | -0.20065 | 4 | 1.25E+08 | R | II | LOC28541 | Body | opensea | Body-open | | rs3872281 | 15 | | | |
| cg2052272 | 0.203649 | 0.563706 | 8.192546 | 4.89E-05 | 0.001646 | 2.485992 | 0.461881 | 0.66553 | -0.20365 | 4 | 3336511 | F | II | RGS12 | Body | opensea | Body-open | | rs5680465 | 0;12;48 | | | |
| cg1930400 | 0.23521 | 0.547656 | 8.192041 | 4.89E-05 | 0.001646 | 2.485544 | 0.430051 | 0.665261 | -0.23521 | 2 | 30967383 | R | II | CAPN13 | Body | opensea | Body-open | | rs1872625 | 19 | | | |
| cg1552473 | 0.205918 | 0.555068 | 8.191992 | 4.89E-05 | 0.001646 | 2.4855 | 0.452109 | 0.658027 | -0.20592 | 5 | 68267366 | R | II | LOC10192 | Body | opensea | Body-open | | | | | | |
| cg0682369 | 0.202073 | 0.618303 | 8.191971 | 4.89E-05 | 0.001646 | 2.485482 | 0.517266 | 0.719339 | -0.20207 | 7 | 8424991 | F | II | | IGR | opensea | IGR-opense | | rs1862577 | 0;13 | | | |
| cg2642588 | 0.201889 | 0.525974 | 8.191516 | 4.89E-05 | 0.001646 | 2.485078 | 0.425029 | 0.626919 | -0.20189 | 2 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs5397362 | 44;26;4 | | | |
| cg1018477 | 0.219908 | 0.472609 | 8.190842 | 4.89E-05 | 0.001647 | 2.48448 | 0.362655 | 0.582563 | -0.21991 | 17 | 62102410 | R | II | | IGR | opensea | IGR-opense | | rs5323188 | 35;33;26;10;8 | | | |
| cg0995416 | 0.201167 | 0.640141 | 8.18885 | 4.9E-05 | 0.001648 | 2.482713 | 0.539558 | 0.740725 | -0.20117 | 12 | 57737949 | R | II | | IGR | opensea | IGR-opense | | rs5696223 | 2 | | | |
| cg1214444 | 0.206355 | 0.552583 | 8.188574 | 4.9E-05 | 0.001649 | 2.482468 | 0.449406 | 0.655761 | -0.20635 | 4 | 1.64E+08 | R | II | | IGR | opensea | IGR-opense | | rs1826711 | 25;17 | | | |
| cg1992625 | 0.23482 | 0.595682 | 8.188434 | 4.9E-05 | 0.001649 | 2.482344 | 0.478272 | 0.713092 | -0.23482 | 3 | 1.51E+08 | F | II | GPR87 | 5'UTR | opensea | 5'UTR-open | | rs5653766 | 1;11;44 | | | |
| cg0395486 | 0.20204 | 0.556576 | 8.188408 | 4.9E-05 | 0.001649 | 2.482321 | 0.455555 | 0.657596 | -0.20204 | 5 | 83323870 | R | II | EDIL3 | Body | opensea | Body-open | | rs5355648 | 35;20 | | | |
| cg1639387 | 0.209637 | 0.576933 | 8.187314 | 4.91E-05 | 0.001649 | 2.48135 | 0.472114 | 0.681751 | -0.20964 | 22 | 22726103 | F | II | | IGR | opensea | IGR-opense | | rs5528348 | 1 | | | |
| cg2483834 | 0.219689 | 0.550927 | 8.18658 | 4.91E-05 | 0.00165 | 2.480698 | 0.441082 | 0.660772 | -0.21969 | 19 | 55314972 | R | II | KIR2DL4 | TSS200 | opensea | TSS200-ope | | rs1717310 | 25 | | | |
| cg1912346 | 0.220165 | 0.594232 | 8.186523 | 4.91E-05 | 0.00165 | 2.480648 | 0.484149 | 0.704314 | -0.22016 | 18 | 28567554 | R | II | | IGR | opensea | IGR-opense | | rs5451186 | 16;6 | | | |
| cg1731112 | 0.220168 | 0.452263 | 8.186279 | 4.91E-05 | 0.00165 | 2.480431 | 0.342179 | 0.562347 | -0.22017 | 5 | 1.56E+08 | R | II | SGCD | Body | opensea | Body-open | | rs5291471 | 29 | | | |
| cg0061707 | 0.230961 | 0.535998 | 8.186059 | 4.91E-05 | 0.00165 | 2.480235 | 0.420517 | 0.651478 | -0.23096 | 4 | 1.03E+08 | F | II | BANK1 | Body | opensea | Body-open | | rs5337806 | 1;18;35;41 | | | |
| cg2127377 | 0.222544 | 0.646146 | 8.185708 | 4.91E-05 | 0.00165 | 2.479924 | 0.534874 | 0.757418 | -0.22254 | 11 | 94726463 | F | II | KDM4D | 5'UTR | opensea | 5'UTR-open | | rs5876593 | 0 | | | |
| cg1035730 | 0.230343 | 0.682351 | 8.18521 | 4.92E-05 | 0.00165 | 2.479483 | 0.567179 | 0.797522 | -0.23034 | 6 | 1.38E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2090494 | 0.211524 | 0.532092 | 8.183355 | 4.92E-05 | 0.001652 | 2.477835 | 0.42633 | 0.637854 | -0.21152 | 18 | 54176880 | R | II | | IGR | opensea | IGR-opense | | rs5494113 | 12 | | | |
| cg2281193 | 0.23689 | 0.577222 | 8.183193 | 4.92E-05 | 0.001652 | 2.477691 | 0.458777 | 0.695667 | -0.23689 | 18 | 10072795 | R | II | | IGR | opensea | IGR-opense | | rs5395665 | 1 | | | |
| cg0238142 | 0.222178 | 0.588962 | 8.182888 | 4.93E-05 | 0.001652 | 2.47742 | 0.477873 | 0.700052 | -0.22218 | 6 | 1.37E+08 | R | II | | IGR | shelf | IGR-shelf | chr6:1373 | rs1196734 | 51;46 | | | |
| cg0970506 | 0.202458 | 0.608854 | 8.182359 | 4.93E-05 | 0.001652 | 2.476951 | 0.507625 | 0.710083 | -0.20246 | 6 | 56729413 | R | II | DST | Body | opensea | Body-open | | rs1124857 | 41;12;2 | | | |
| cg2123888 | 0.262573 | 0.595509 | 8.181591 | 4.93E-05 | 0.001653 | 2.476269 | 0.464222 | 0.726796 | -0.26257 | 6 | 83796488 | F | II | DOPEY1 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg1102206 | 0.208547 | 0.505145 | 8.181529 | 4.93E-05 | 0.001653 | 2.476214 | 0.400872 | 0.609419 | -0.20855 | 15 | 83298969 | F | II | CPEB1 | Body | opensea | Body-open | | | | | | |
| cg0343116 | 0.302543 | 0.559445 | 8.180659 | 4.94E-05 | 0.001653 | 2.475441 | 0.408174 | 0.710717 | -0.30254 | 3 | 1.22E+08 | F | II | CD86 | 5'UTR | opensea | 5'UTR-open | | rs1407765 | 0;6;14;15;29;35 | | | |
| cg2463917 | 0.25375 | 0.594903 | 8.180605 | 4.94E-05 | 0.001653 | 2.475393 | 0.468028 | 0.721778 | -0.25375 | 6 | 12753473 | R | II | PHACTR1 | Body | shelf | Body-shelf | chr6:1274 | rs1508855 | 30 | | | |
| cg2447594 | 0.234829 | 0.719891 | 8.179684 | 4.94E-05 | 0.001654 | 2.474575 | 0.602476 | 0.837305 | -0.23483 | 1 | 1.79E+08 | F | II | RALGPS2 | Body | opensea | Body-open | | | | | | |
| cg2202305 | 0.234714 | 0.608679 | 8.179575 | 4.94E-05 | 0.001654 | 2.474478 | 0.491322 | 0.726036 | -0.23471 | 2 | 1.82E+08 | R | II | ITGA4 | Body | opensea | Body-open | | rs5273759 | 47;1 | | | |
| cg0926710 | 0.207458 | 0.642793 | 8.178707 | 4.94E-05 | 0.001654 | 2.473707 | 0.539065 | 0.746522 | -0.20746 | 13 | 78929949 | F | II | RNF219-AS | Body | opensea | Body-open | | rs1406516 | 3;28;38 | | | |
| cg0931550 | 0.227347 | 0.382363 | 8.178367 | 4.94E-05 | 0.001655 | 2.473405 | 0.26869 | 0.496037 | -0.22735 | 8 | 1.17E+08 | F | II | LINC00536 | Body | opensea | Body-open | | rs5635606 | 1;13 | | | |
| cg0423410 | 0.269663 | 0.473729 | 8.178324 | 4.95E-05 | 0.001655 | 2.473367 | 0.338897 | 0.60856 | -0.26966 | 10 | 6051242 | R | II | | IGR | opensea | IGR-opense | | rs4129467 | 32;19;2 | | | |
| cg0914562 | 0.209953 | 0.479852 | 8.176504 | 4.95E-05 | 0.001656 | 2.47175 | 0.374876 | 0.584829 | -0.20995 | 12 | 81189688 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1752428 | 0.218364 | 0.606814 | 8.17559 | 4.96E-05 | 0.001657 | 2.470938 | 0.497632 | 0.715997 | -0.21836 | 1 | 1.12E+08 | F | II | KCND3 | Body | opensea | Body-open | | | | | | |
| cg0277062 | 0.205858 | 0.624875 | 8.174724 | 4.96E-05 | 0.001657 | 2.470169 | 0.521946 | 0.727804 | -0.20586 | 8 | 67032303 | F | II | | IGR | opensea | IGR-opense | | rs1847501 | 1;25 | | | |
| cg1810624 | 0.207396 | 0.460342 | 8.171774 | 4.97E-05 | 0.001659 | 2.467546 | 0.356643 | 0.56404 | -0.2074 | 6 | 42158764 | F | II | GUCA1B | Body | opensea | Body-open | | rs7343428 | 1 | | | |
| cg1210724 | 0.225131 | 0.616218 | 8.171032 | 4.98E-05 | 0.001659 | 2.466886 | 0.503653 | 0.728784 | -0.22513 | 17 | 75759464 | F | II | | IGR | opensea | IGR-opense | | rs5540388 | 3 | | | |
| cg0451754 | 0.204458 | 0.587823 | 8.171013 | 4.98E-05 | 0.001659 | 2.466869 | 0.485594 | 0.690052 | -0.20446 | 17 | 46988488 | R | II | UBE2Z | Body | shore | Body-shore | chr17:469 | rs5395273 | 41;1 | | | |
| cg0442665 | 0.211034 | 0.558292 | 8.170652 | 4.98E-05 | 0.001659 | 2.466549 | 0.452774 | 0.663809 | -0.21103 | 3 | 1.26E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1261 | rs1474867 | 1;5;7;46 | | | |
| cg1526380 | 0.215061 | 0.412925 | 8.167409 | 4.99E-05 | 0.001662 | 2.463664 | 0.305394 | 0.520455 | -0.21506 | 1 | 39318607 | R | II | RRAGC | Body | opensea | Body-open | | rs1473615 | 2;1 | | | |
| cg1488762 | 0.215011 | 0.485011 | 8.166772 | 4.99E-05 | 0.001663 | 2.463098 | 0.377506 | 0.592517 | -0.21501 | 18 | 53501191 | F | II | | IGR | opensea | IGR-opense | | rs7563913 | 1 | | | |
| cg2003546 | 0.251673 | 0.395457 | 8.165832 | 5E-05 | 0.001663 | 2.462262 | 0.269621 | 0.521294 | -0.25167 | 8 | 1.34E+08 | R | II | PHF20L1 | Body | opensea | Body-open | | rs1871335 | 18 | | | |
| cg2534396 | 0.206429 | 0.59481 | 8.165744 | 5E-05 | 0.001663 | 2.462184 | 0.491596 | 0.698025 | -0.20643 | 11 | 1.13E+08 | R | II | NCAM1 | Body | opensea | Body-open | | | | | | |
| cg1030776 | 0.21416 | 0.695258 | 8.16567 | 5E-05 | 0.001663 | 2.462118 | 0.588178 | 0.802338 | -0.21416 | 6 | 1.09E+08 | R | II | FOXO3 | Body | opensea | Body-open | | rs1499392 | 49 | | | |
| cg0765347 | 0.20455 | 0.593022 | 8.165047 | 5E-05 | 0.001664 | 2.461563 | 0.490747 | 0.695297 | -0.20455 | 22 | 33080918 | F | II | SYN3 | Body | opensea | Body-open | | rs1122282 | 5 | | | |
| cg2451588 | 0.20419 | 0.377919 | 8.164866 | 5E-05 | 0.001664 | 2.461402 | 0.275824 | 0.480014 | -0.20419 | 2 | 18494208 | R | II | | IGR | opensea | IGR-opense | | rs5743664 | 25;7;2 | | | |
| cg1759649 | 0.205218 | 0.394564 | 8.164313 | 5E-05 | 0.001664 | 2.46091 | 0.291955 | 0.497173 | -0.20522 | 13 | 24143068 | F | II | TNFRSF19 | TSS1500 | opensea | TSS1500-op | | rs5775225 | 0 | | | |
| cg0348971 | 0.235394 | 0.572654 | 8.162909 | 5.01E-05 | 0.001666 | 2.459661 | 0.454957 | 0.690351 | -0.23539 | 7 | 1.43E+08 | F | II | ZYX | TSS1500 | shore | TSS1500-sh | chr7:1430 | rs1500525 | 7;38 | | | |
| cg0000208 | 0.203901 | 0.587312 | 8.162579 | 5.01E-05 | 0.001666 | 2.459367 | 0.485361 | 0.689262 | -0.2039 | 21 | 30390417 | F | II | RWDD2B | Body | shore | Body-shore | chr21:303 | rs1425495 | 29;33 | | | |
| cg1536705 | 0.245331 | 0.486659 | 8.161237 | 5.02E-05 | 0.001667 | 2.458172 | 0.363994 | 0.609325 | -0.24533 | 7 | 92271711 | R | II | CDK6 | Body | opensea | Body-open | | rs5616818 | 33;26 | | | |
| cg1247378 | 0.209752 | 0.511176 | 8.159245 | 5.03E-05 | 0.001668 | 2.4564 | 0.4063 | 0.616052 | -0.20975 | 5 | 1.5E+08 | F | II | CDX1 | Body | opensea | Body-open | | rs5503785 | 1;25 | | | |
| cg2204354 | 0.214333 | 0.531802 | 8.158675 | 5.03E-05 | 0.001668 | 2.455892 | 0.424636 | 0.638969 | -0.21433 | 4 | 1.69E+08 | R | II | PALLD | Body | opensea | Body-open | | rs1905231 | 1 | | | |
| cg1788004 | 0.232894 | 0.660218 | 8.157133 | 5.03E-05 | 0.00167 | 2.454519 | 0.543771 | 0.776665 | -0.23289 | 12 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | | rs1413333 | 36;31;28 | | | |
| cg0329333 | 0.221498 | 0.609548 | 8.155849 | 5.04E-05 | 0.001671 | 2.453376 | 0.498799 | 0.720296 | -0.2215 | 2 | 42941234 | R | II | MTA3 | Body | opensea | Body-open | | rs1153952 | 46;33;31;23 | | | |
| cg0070554 | 0.213484 | 0.667932 | 8.154956 | 5.04E-05 | 0.001671 | 2.45258 | 0.56119 | 0.774674 | -0.21348 | 6 | 1.29E+08 | F | II | PTPRK | 5'UTR | opensea | 5'UTR-open | | rs5666790 | 42 | | | |
| cg0868021 | 0.208597 | 0.576833 | 8.154703 | 5.04E-05 | 0.001671 | 2.452355 | 0.472534 | 0.681131 | -0.2086 | 14 | 89743161 | R | II | FOXN3 | Body | opensea | Body-open | | rs5540710 | 34;2;1 | | | |
| cg1890455 | 0.22714 | 0.621232 | 8.15411 | 5.05E-05 | 0.001672 | 2.451827 | 0.507662 | 0.734803 | -0.22714 | 10 | 93624759 | F | II | TNKS2 | 3'UTR | opensea | 3'UTR-open | | rs5768482 | 11 | | | |
| cg1959269 | 0.210754 | 0.561243 | 8.153932 | 5.05E-05 | 0.001672 | 2.451668 | 0.455866 | 0.66662 | -0.21075 | 7 | 1.36E+08 | R | II | LUZP6 | 5'UTR | shore | 5'UTR-shor | chr7:1356 | rs5393968 | 45 | | | |
| cg1095753 | 0.240705 | 0.625211 | 8.152104 | 5.06E-05 | 0.001673 | 2.45004 | 0.504859 | 0.745564 | -0.2407 | 18 | 29147253 | F | II | | IGR | opensea | IGR-opense | | rs1481839 | 1;20 | | | |
| cg2044943 | 0.227676 | 0.602972 | 8.151506 | 5.06E-05 | 0.001674 | 2.449507 | 0.489134 | 0.71681 | -0.22768 | 18 | 9595066 | R | II | PPP4R1 | Body | opensea | Body-open | | rs5590680 | 18;2 | | | |
| cg1418948 | 0.211247 | 0.558019 | 8.151052 | 5.06E-05 | 0.001674 | 2.449102 | 0.452395 | 0.663643 | -0.21125 | 1 | 1.96E+08 | F | II | KCNT2 | Body | opensea | Body-open | | rs5604618 | 28 | | | |
| cg2111134 | 0.215323 | 0.608705 | 8.150523 | 5.06E-05 | 0.001674 | 2.448631 | 0.501044 | 0.716367 | -0.21532 | 11 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs1489490 | 1;48 | | | |
| cg2130847 | 0.262266 | 0.39527 | 8.150342 | 5.06E-05 | 0.001674 | 2.448469 | 0.264138 | 0.526403 | -0.26227 | 1 | 12911678 | R | II | | IGR | opensea | IGR-opense | | rs1143835 | 45;44;35;26;2;1 | | | |
| cg0248243 | 0.210571 | 0.623182 | 8.149928 | 5.07E-05 | 0.001675 | 2.448101 | 0.517896 | 0.728467 | -0.21057 | 6 | 49753577 | F | II | PGK2 | 3'UTR | opensea | 3'UTR-open | | rs5579241 | 8 | | | |
| cg0296844 | 0.253097 | 0.44084 | 8.148476 | 5.07E-05 | 0.001676 | 2.446806 | 0.314292 | 0.567389 | -0.2531 | 2 | 68972158 | F | II | ARHGAP25 | Body | opensea | Body-open | | rs5400394 | 0;1 | | | |
| cg0028873 | 0.207044 | 0.675534 | 8.147869 | 5.07E-05 | 0.001676 | 2.446266 | 0.572012 | 0.779056 | -0.20704 | 8 | 1.21E+08 | R | II | COL14A1 | 5'UTR | shelf | 5'UTR-shelf | chr8:1211 | rs7448817 | 36 | | | |
| cg2191378 | 0.236794 | 0.517225 | 8.147749 | 5.07E-05 | 0.001676 | 2.446159 | 0.398828 | 0.635622 | -0.23679 | 5 | 96789385 | F | II | | IGR | opensea | IGR-opense | | rs5565847 | 20;48 | | | |
| cg0192867 | 0.232068 | 0.679084 | 8.147436 | 5.08E-05 | 0.001677 | 2.44588 | 0.56305 | 0.795118 | -0.23207 | 12 | 2261178 | R | II | CACNA1C | Body | opensea | Body-open | | | | | | |
| cg2130231 | 0.215852 | 0.490788 | 8.146963 | 5.08E-05 | 0.001677 | 2.445458 | 0.382863 | 0.598714 | -0.21585 | 9 | 1.09E+08 | R | I | LINC01505 | Body | opensea | Body-open | | rs5664167 | 41;21;2 | | | |
| cg1697353 | 0.230968 | 0.672209 | 8.145542 | 5.08E-05 | 0.001678 | 2.444191 | 0.556725 | 0.787693 | -0.23097 | 10 | 65460155 | F | II | | IGR | opensea | IGR-opense | | rs1922008 | 32 | | | |
| cg1749257 | 0.230077 | 0.480887 | 8.145084 | 5.09E-05 | 0.001678 | 2.443783 | 0.365849 | 0.595925 | -0.23008 | 6 | 1.59E+08 | R | II | | IGR | opensea | IGR-opense | | rs5410837 | 2 | | | |
| cg2176834 | 0.20574 | 0.582434 | 8.144828 | 5.09E-05 | 0.001678 | 2.443555 | 0.479564 | 0.685304 | -0.20574 | 2 | 16704265 | R | II | | IGR | opensea | IGR-opense | | rs1465981 | 25 | | | |
| cg0158418 | 0.242298 | 0.529084 | 8.143125 | 5.09E-05 | 0.00168 | 2.442036 | 0.407935 | 0.650233 | -0.2423 | 18 | 24136594 | F | II | KCTD1 | Body | opensea | Body-open | | rs2006677 | 23;36;48 | | | |
| cg2441858 | 0.23064 | 0.520073 | 8.143088 | 5.09E-05 | 0.00168 | 2.442003 | 0.404752 | 0.635393 | -0.23064 | 5 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs7812317 | 0;1;50 | | | |
| cg1717454 | 0.218139 | 0.532795 | 8.142661 | 5.1E-05 | 0.00168 | 2.441622 | 0.423726 | 0.641865 | -0.21814 | 5 | 58802616 | F | II | PDE4D | Body | opensea | Body-open | | rs5476152 | 0;1;32 | | | |
| cg0007052 | 0.236031 | 0.5402 | 8.138881 | 5.11E-05 | 0.001682 | 2.43825 | 0.422184 | 0.658215 | -0.23603 | 13 | 43986655 | R | II | ENOX1 | Body | opensea | Body-open | | rs5556257 | 44;1 | | | |
| cg1386880 | 0.259503 | 0.658705 | 8.13844 | 5.12E-05 | 0.001682 | 2.437856 | 0.528954 | 0.788457 | -0.2595 | 9 | 87917961 | F | II | | IGR | opensea | IGR-opense | | rs5392606 | 0;6;15;30 | | | |
| cg1245505 | 0.2008 | 0.693542 | 8.138363 | 5.12E-05 | 0.001682 | 2.437787 | 0.593142 | 0.793942 | -0.2008 | 2 | 1.97E+08 | R | II | HECW2 | Body | opensea | Body-open | | rs5626588 | 20;2 | | | |
| cg0112372 | 0.237508 | 0.44666 | 8.138065 | 5.12E-05 | 0.001682 | 2.437522 | 0.327906 | 0.565415 | -0.23751 | 12 | 20280903 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2074569 | 0.213034 | 0.356256 | 8.137831 | 5.12E-05 | 0.001683 | 2.437313 | 0.249739 | 0.462773 | -0.21303 | 1 | 26909537 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2559435 | 0.211403 | 0.636789 | 8.135435 | 5.13E-05 | 0.001685 | 2.435174 | 0.531088 | 0.742491 | -0.2114 | 8 | 97391560 | R | II | LOC10272 | Body | opensea | Body-open | | rs5582416 | 42;16 | | | |
| cg2045008 | 0.258344 | 0.510981 | 8.135379 | 5.13E-05 | 0.001685 | 2.435124 | 0.381809 | 0.640153 | -0.25834 | 6 | 75857507 | R | II | COL12A1 | ExonBnd | opensea | ExonBnd-op | | rs1135498 | 36;35;13 | | | |
| cg1487333 | 0.209558 | 0.596115 | 8.133658 | 5.14E-05 | 0.001686 | 2.433588 | 0.491336 | 0.700894 | -0.20956 | 3 | 60280143 | F | II | FHIT | Body | opensea | Body-open | | rs5342298 | 8 | | | |
| cg1158328 | 0.215273 | 0.631133 | 8.133651 | 5.14E-05 | 0.001686 | 2.433582 | 0.523496 | 0.738769 | -0.21527 | 10 | 45911321 | R | II | ALOX5 | Body | shelf | Body-shelf | chr10:459 | rs7328317 | 31;6;4;1 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2748669 | 0.222469 | 0.653997 | 8.133278 | 5.14E-05 | 0.001686 | 2.433249 | 0.542763 | 0.765231 | -0.22247 | 12 | 14765994 | F | II | GUCY2C | 3'UTR | opensea | 3'UTR-open | | rs5538918 | 0;1;30 |
| cg0111444 | 0.202836 | 0.730083 | 8.132014 | 5.14E-05 | 0.001687 | 2.43212 | 0.628665 | 0.831501 | -0.20284 | 9 | 4686293 | R | II | CDC37L1 | Body | opensea | Body-open | | rs5780031 | 25;6;2 |
| cg0722224 | 0.21447 | 0.3874 | 8.130648 | 5.15E-05 | 0.001688 | 2.4309 | 0.280166 | 0.494635 | -0.21447 | 7 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | rs5564955 | 0 |
| cg2611175 | 0.204436 | 0.64855 | 8.130439 | 5.15E-05 | 0.001688 | 2.430714 | 0.546332 | 0.750768 | -0.20444 | 20 | 31642120 | F | II | C20orf185 | TSS1500 | opensea | TSS1500-op | | rs1929384 | 0 |
| cg1456156 | 0.217363 | 0.471476 | 8.130032 | 5.15E-05 | 0.001688 | 2.430351 | 0.362794 | 0.580157 | -0.21736 | 20 | 3401214 | R | II | | IGR | opensea | IGR-opense | | rs5321831 | 36;27;18;14 |
| cg0189178 | 0.236891 | 0.667327 | 8.130021 | 5.15E-05 | 0.001688 | 2.43034 | 0.548881 | 0.785772 | -0.23689 | 3 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5278634 | 27;1 |
| cg2225319 | 0.213343 | 0.698664 | 8.129716 | 5.15E-05 | 0.001688 | 2.430068 | 0.591992 | 0.805336 | -0.21334 | 7 | 28793763 | R | II | CREB5 | Body | opensea | Body-open | | rs5592178 | 24;12 |
| cg1481817 | 0.211068 | 0.625262 | 8.129474 | 5.15E-05 | 0.001689 | 2.429852 | 0.519728 | 0.730796 | -0.21107 | 17 | 73148480 | F | II | HN1 | 5'UTR | shore | 5'UTR-shor | chr17:7314 | rs5299714 | 1;9 |
| cg0544807 | 0.213948 | 0.660044 | 8.128394 | 5.16E-05 | 0.00169 | 2.428887 | 0.55307 | 0.767018 | -0.21395 | 5 | 60917015 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2228165 | 0.206323 | 0.649472 | 8.12789 | 5.16E-05 | 0.00169 | 2.428437 | 0.54631 | 0.752633 | -0.20632 | 17 | 62197507 | F | II | ERN1 | Body | opensea | Body-open | | rs1513344 | 0;34 |
| cg0181928 | 0.238184 | 0.619523 | 8.127267 | 5.16E-05 | 0.00169 | 2.42788 | 0.500431 | 0.738615 | -0.23818 | 12 | 46006284 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0272169 | 0.218643 | 0.493677 | 8.126805 | 5.17E-05 | 0.001691 | 2.427468 | 0.384356 | 0.602999 | -0.21864 | 1 | 1.83E+08 | F | II | C1orf14 | TSS200 | shore | TSS200-shc | chr1:18292 | | |
| cg0747846 | 0.232889 | 0.624474 | 8.126284 | 5.17E-05 | 0.001691 | 2.427002 | 0.508029 | 0.740918 | -0.23289 | 8 | 91712588 | R | II | | IGR | opensea | IGR-opense | | rs5444706 | 45;36;35;27;13 |
| cg1172873 | 0.235595 | 0.56685 | 8.126169 | 5.17E-05 | 0.001691 | 2.426899 | 0.449053 | 0.684648 | -0.23559 | 6 | 21711700 | F | II | FLJ22536 | Body | opensea | Body-open | | rs1810510 | 1 |
| cg0546240 | 0.212901 | 0.681772 | 8.126035 | 5.17E-05 | 0.001691 | 2.426779 | 0.575322 | 0.788223 | -0.2129 | 11 | 59266110 | R | II | | IGR | opensea | IGR-opense | | rs5323318 | 39 |
| cg0050804 | 0.207675 | 0.535962 | 8.125811 | 5.17E-05 | 0.001692 | 2.426579 | 0.432124 | 0.6398 | -0.20768 | 17 | 40485194 | F | II | STAT3 | Body | opensea | Body-open | | rs7224339 | 21;35;37;45;46 |
| cg0253143 | 0.212763 | 0.677411 | 8.125139 | 5.17E-05 | 0.001692 | 2.425979 | 0.571029 | 0.783792 | -0.21276 | 7 | 98701226 | R | II | SMURF1 | Body | opensea | Body-open | | rs5399115 | 2 |
| cg0568766 | 0.200794 | 0.690302 | 8.124687 | 5.18E-05 | 0.001693 | 2.425575 | 0.589905 | 0.790699 | -0.20079 | 8 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5272444 | 25 |
| cg1420924 | 0.225687 | 0.513305 | 8.123962 | 5.18E-05 | 0.001693 | 2.424927 | 0.400462 | 0.626149 | -0.22569 | 9 | 72877684 | F | II | SMC5 | Body | shelf | Body-shelf | chr9:72873 | | |
| cg0408426 | 0.206186 | 0.534202 | 8.122203 | 5.19E-05 | 0.001695 | 2.423355 | 0.431109 | 0.637295 | -0.20619 | 1 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs1416869 | 43;40;1 |
| cg2316146 | 0.220539 | 0.702575 | 8.121028 | 5.19E-05 | 0.001696 | 2.422304 | 0.592305 | 0.812845 | -0.22054 | 1 | 84713356 | R | II | | IGR | opensea | IGR-opense | | rs5695477 | 36;1 |
| cg1551452 | 0.232943 | 0.517847 | 8.11968 | 5.2E-05 | 0.001697 | 2.421099 | 0.401376 | 0.634319 | -0.23294 | 11 | 85854937 | F | II | | IGR | opensea | IGR-opense | | rs5558250 | 0;22;33 |
| cg0101984 | 0.246218 | 0.492496 | 8.119197 | 5.2E-05 | 0.001697 | 2.420668 | 0.369387 | 0.615605 | -0.24622 | 11 | 1.19E+08 | F | II | ABCG4 | Body | shelf | Body-shelf | chr11:119( | rs5737133 | 0;32;45 |
| cg0056118 | 0.241064 | 0.685849 | 8.11768 | 5.21E-05 | 0.001698 | 2.41931 | 0.565317 | 0.806381 | -0.24106 | 1 | 64509006 | R | II | ROR1 | Body | opensea | Body-open | | rs5688256 | 2;1 |
| cg1001643 | 0.24064 | 0.59478 | 8.117438 | 5.21E-05 | 0.001698 | 2.419094 | 0.47446 | 0.7151 | -0.24064 | 10 | 3784156 | F | II | LOC10537( | Body | opensea | Body-open | | rs3711630 | 1;33 |
| cg0972146 | 0.200957 | 0.688643 | 8.117008 | 5.21E-05 | 0.001699 | 2.41871 | 0.588165 | 0.789121 | -0.20096 | 16 | 47747381 | F | II | | IGR | opensea | IGR-opense | | rs1836555 | 0;23 |
| cg1343257 | 0.220738 | 0.557337 | 8.116803 | 5.21E-05 | 0.001699 | 2.418526 | 0.446968 | 0.667706 | -0.22074 | 2 | 59873661 | F | II | | IGR | opensea | IGR-opense | | rs1820511 | 0;1;23 |
| cg1636288 | 0.221227 | 0.601 | 8.116566 | 5.21E-05 | 0.001699 | 2.418314 | 0.490386 | 0.711613 | -0.22123 | 6 | 21836670 | F | II | CASC15 | Body | opensea | Body-open | | | |
| cg1868670 | 0.218559 | 0.497961 | 8.115086 | 5.22E-05 | 0.0017 | 2.41699 | 0.388681 | 0.60724 | -0.21856 | 7 | 46737984 | R | II | | IGR | opensea | IGR-opense | | rs5741107 | 1 |
| cg1812588 | 0.221435 | 0.561128 | 8.115041 | 5.22E-05 | 0.0017 | 2.41695 | 0.450411 | 0.671846 | -0.22143 | 18 | 70709973 | R | II | | IGR | opensea | IGR-opense | | rs746471;r | 43;36 |
| cg1398071 | 0.239072 | 0.640182 | 8.112967 | 5.23E-05 | 0.001702 | 2.415095 | 0.520646 | 0.759718 | -0.23907 | 2 | 2.18E+08 | F | II | TNP1 | TSS1500 | opensea | TSS1500-op | | rs5327672 | 8;17;28 |
| cg0547959 | 0.261479 | 0.625697 | 8.112863 | 5.23E-05 | 0.001703 | 2.415001 | 0.494957 | 0.756437 | -0.26148 | 11 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5655423 | 40;22;16;2 |
| cg1593012 | 0.23441 | 0.491504 | 8.110049 | 5.24E-05 | 0.001706 | 2.412483 | 0.374299 | 0.608709 | -0.23441 | 14 | 33131712 | R | II | AKAP6 | Body | opensea | Body-open | | rs5513607 | 21;13;2;1 |
| cg2592281 | 0.236057 | 0.594928 | 8.109196 | 5.24E-05 | 0.001706 | 2.41172 | 0.476899 | 0.712956 | -0.23606 | 7 | 1.3E+08 | F | II | TMEM209 | Body | opensea | Body-open | | rs1496216 | 10 |
| cg2719865 | 0.245723 | 0.419055 | 8.109018 | 5.24E-05 | 0.001706 | 2.41156 | 0.296194 | 0.541916 | -0.24572 | 1 | 1.6E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2228401 | 0.204183 | 0.517211 | 8.108987 | 5.24E-05 | 0.001706 | 2.411532 | 0.415119 | 0.619302 | -0.20418 | 4 | 1.07E+08 | F | II | ARHGEF38 | Body | opensea | Body-open | | | |
| cg2756433 | 0.215933 | 0.45116 | 8.108777 | 5.25E-05 | 0.001706 | 2.411344 | 0.343193 | 0.559126 | -0.21593 | 7 | 3592212 | F | II | SDK1 | Body | opensea | Body-open | | rs5735135 | 0;23;39;41 |
| cg1886962 | 0.239647 | 0.575697 | 8.108695 | 5.25E-05 | 0.001706 | 2.411271 | 0.455873 | 0.69552 | -0.23965 | 19 | 2260400 | R | II | | IGR | opensea | IGR-opense | | rs4806834 | 41;27 |
| cg1249604 | 0.221165 | 0.643068 | 8.107527 | 5.25E-05 | 0.001707 | 2.410225 | 0.532485 | 0.75365 | -0.22117 | 10 | 19980391 | R | II | MALRD1 | Body | opensea | Body-open | | rs1506785 | 37 |
| cg0655216 | 0.204576 | 0.612357 | 8.106554 | 5.26E-05 | 0.001707 | 2.409353 | 0.510069 | 0.714646 | -0.20458 | 2 | 1926724 | R | II | MYT1L | Body | opensea | Body-open | | rs2002352 | 2 |
| cg0828054 | 0.205454 | 0.487632 | 8.106032 | 5.26E-05 | 0.001708 | 2.408887 | 0.384905 | 0.59036 | -0.20545 | 1 | 26506100 | F | II | CNKSR1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0597049 | 0.22654 | 0.538118 | 8.104762 | 5.26E-05 | 0.001709 | 2.407749 | 0.424848 | 0.651388 | -0.22654 | 17 | 2876230 | R | II | RAP1GAP2 | Body | opensea | Body-open | | rs5574398 | 7;6 |
| cg0241426 | 0.208136 | 0.603936 | 8.104461 | 5.26E-05 | 0.001709 | 2.40748 | 0.499868 | 0.708004 | -0.20814 | 3 | 45802101 | R | II | SLC6A20 | Body | opensea | Body-open | | rs1492844 | 30;2 |
| cg2471546 | 0.221462 | 0.56641 | 8.104314 | 5.27E-05 | 0.001709 | 2.407347 | 0.455678 | 0.677141 | -0.22146 | 7 | 3239363 | F | II | | IGR | opensea | IGR-opense | | rs1417349 | 0;5;20;32;43 |
| cg0450575 | 0.211387 | 0.484712 | 8.103867 | 5.27E-05 | 0.001709 | 2.406947 | 0.379018 | 0.590405 | -0.21139 | 1 | 12774815 | F | II | AADACL3 | TSS1500 | opensea | TSS1500-op | | rs5599864 | 0;23;43 |
| cg0558737 | 0.208747 | 0.599483 | 8.100945 | 5.28E-05 | 0.001712 | 2.404329 | 0.49511 | 0.703857 | -0.20875 | 4 | 88189110 | F | II | | IGR | opensea | IGR-opense | | rs1385613 | 6 |
| cg0914310 | 0.202335 | 0.636307 | 8.10042 | 5.28E-05 | 0.001712 | 2.403859 | 0.53514 | 0.737475 | -0.20233 | 10 | 15286861 | R | II | FAM171A1 | Body | opensea | Body-open | | rs1447476 | 25;12 |
| cg1404655 | 0.204873 | 0.64892 | 8.096982 | 5.3E-05 | 0.001715 | 2.400778 | 0.546484 | 0.751356 | -0.20487 | 2 | 1.67E+08 | F | II | SCN1A | TSS1500 | opensea | TSS1500-op | | rs1494897 | 1;28;33;51 |
| cg1193295 | 0.209663 | 0.593683 | 8.09693 | 5.3E-05 | 0.001715 | 2.400731 | 0.488851 | 0.698514 | -0.20966 | 20 | 45202478 | R | II | SLC13A3 | Body | opensea | Body-open | | rs1905585 | 35;23;15;14;1 |
| cg0977782 | 0.204919 | 0.632712 | 8.095419 | 5.31E-05 | 0.001716 | 2.399376 | 0.530252 | 0.735172 | -0.20492 | 4 | 69047717 | F | II | FTLP10 | TSS1500 | shore | TSS1500-sh | chr4:69044 | rs5779433 | 50 |
| cg2602006 | 0.208874 | 0.610332 | 8.095334 | 5.31E-05 | 0.001716 | 2.3993 | 0.505895 | 0.714769 | -0.20887 | 6 | 52382441 | R | II | TRAM2 | Body | opensea | Body-open | | | |
| cg1502744 | 0.218281 | 0.398721 | 8.09501 | 5.31E-05 | 0.001716 | 2.399009 | 0.28958 | 0.507861 | -0.21828 | 4 | 56484062 | R | II | NMU | Body | opensea | Body-open | | rs5505163 | 2 |
| cg0327546 | 0.202171 | 0.638284 | 8.092276 | 5.32E-05 | 0.001718 | 2.396558 | 0.537199 | 0.73937 | -0.20217 | 3 | 70800230 | F | II | | IGR | opensea | IGR-opense | | rs5429714 | 2 |
| cg0530422 | 0.227078 | 0.483129 | 8.092236 | 5.32E-05 | 0.001718 | 2.396522 | 0.36959 | 0.596669 | -0.22708 | 5 | 4234168 | F | II | | IGR | opensea | IGR-opense | | rs5679892 | 1 |
| cg1009312 | 0.249378 | 0.567655 | 8.088561 | 5.34E-05 | 0.001721 | 2.393226 | 0.442966 | 0.692344 | -0.24938 | 17 | 1335117 | F | II | CRK | Body | opensea | Body-open | | | |
| cg0778785 | 0.201685 | 0.670663 | 8.088467 | 5.34E-05 | 0.001721 | 2.393141 | 0.56982 | 0.771505 | -0.20168 | 5 | 1.21E+08 | F | II | ZNF474 | Body | opensea | Body-open | | rs1439537 | 0;1;33;39;48;51 |
| cg0853476 | 0.208912 | 0.498691 | 8.087663 | 5.34E-05 | 0.001722 | 2.39242 | 0.394235 | 0.603147 | -0.20891 | 2 | 1.67E+08 | R | II | SCN1A | 5'UTR | opensea | 5'UTR-open | | rs1168125 | 43;29;2 |
| cg0861205 | 0.270255 | 0.566167 | 8.087502 | 5.34E-05 | 0.001722 | 2.392275 | 0.431039 | 0.701294 | -0.27025 | 7 | 35595790 | R | II | | IGR | opensea | IGR-opense | | rs5523128 | 45;16;11;5 |
| cg2257697 | 0.206584 | 0.505581 | 8.087092 | 5.34E-05 | 0.001722 | 2.391907 | 0.402289 | 0.608873 | -0.20658 | 19 | 56852136 | F | II | | IGR | shore | IGR-shore | chr19:568 | rs1385039 | 1;50 |
| cg0688664 | 0.224946 | 0.657616 | 8.0857 | 5.35E-05 | 0.001723 | 2.390657 | 0.545143 | 0.770089 | -0.22495 | 12 | 95833248 | F | II | | IGR | opensea | IGR-opense | | rs5496939 | 12;36 |
| cg0989429 | 0.203792 | 0.492535 | 8.084429 | 5.36E-05 | 0.001723 | 2.389517 | 0.390639 | 0.594431 | -0.20379 | 21 | 23179036 | F | II | | IGR | opensea | IGR-opense | | rs1876472 | 0 |
| cg1757351 | 0.205576 | 0.569322 | 8.084404 | 5.36E-05 | 0.001723 | 2.389494 | 0.466534 | 0.67211 | -0.20558 | 2 | 2.11E+08 | R | II | MYL1 | TSS1500 | opensea | TSS1500-op | | rs5427566 | 2 |
| cg2339847 | 0.242049 | 0.652076 | 8.084316 | 5.36E-05 | 0.001723 | 2.389415 | 0.531051 | 0.7731 | -0.24205 | 6 | 1.38E+08 | R | II | LOC10272: | Body | opensea | Body-open | | rs7756138 | 49;46;39;1 |
| cg0066919 | 0.209931 | 0.576572 | 8.084032 | 5.36E-05 | 0.001723 | 2.38916 | 0.471607 | 0.681537 | -0.20993 | 15 | 35774388 | F | II | DPH6 | Body | opensea | Body-open | | rs1450952 | 0;1;17 |
| cg1983504 | 0.206863 | 0.548453 | 8.08225 | 5.37E-05 | 0.001725 | 2.387561 | 0.445022 | 0.651884 | -0.20686 | 13 | 50801738 | R | II | DLEU1 | Body | opensea | Body-open | | rs1427649 | 1 |
| cg0395404 | 0.21061 | 0.600153 | 8.081046 | 5.37E-05 | 0.001726 | 2.386479 | 0.494848 | 0.705458 | -0.21061 | 12 | 43247617 | F | II | | IGR | opensea | IGR-opense | | rs1475955 | 1;29;50;51 |
| cg2552286 | 0.206208 | 0.392566 | 8.07929 | 5.38E-05 | 0.001727 | 2.384903 | 0.289462 | 0.49567 | -0.20621 | 11 | 34236648 | R | II | ABTB2 | Body | opensea | Body-open | | rs1138027 | 35 |
| cg0797171 | 0.221094 | 0.629868 | 8.078434 | 5.38E-05 | 0.001728 | 2.384134 | 0.519321 | 0.740415 | -0.22109 | 1 | 2E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1532941 | 0.204891 | 0.726185 | 8.078402 | 5.38E-05 | 0.001728 | 2.384105 | 0.62374 | 0.828631 | -0.20489 | 5 | 33857193 | F | II | ADAMTS12 | Body | opensea | Body-open | | rs5357070 | 1;51 |
| cg1659445 | 0.230088 | 0.525474 | 8.077948 | 5.39E-05 | 0.001728 | 2.383697 | 0.41043 | 0.640518 | -0.23009 | 11 | 5365093 | R | II | OR51B5 | Body | opensea | Body-open | | rs1129968 | 43;30;2 |
| cg0573078 | 0.246939 | 0.605202 | 8.077247 | 5.39E-05 | 0.001729 | 2.383067 | 0.481733 | 0.728672 | -0.24694 | 7 | 17193341 | R | II | | IGR | opensea | IGR-opense | | rs1382460 | 5;2 |
| cg0204653 | 0.211267 | 0.677764 | 8.07683 | 5.39E-05 | 0.001729 | 2.382692 | 0.57213 | 0.783397 | -0.21127 | 20 | 207858 | F | II | DEFB129 | TSS200 | opensea | TSS200-ope | | rs1808406 | 0;24;31;45 |
| cg0032739 | 0.210295 | 0.421341 | 8.076529 | 5.39E-05 | 0.001729 | 2.382422 | 0.316193 | 0.526488 | -0.2103 | 16 | 48642773 | R | II | MIR5095 | Body | shore | Body-shore | chr16:4864 | rs5733662 | 50;36 |
| cg0067295 | 0.238249 | 0.570269 | 8.076154 | 5.39E-05 | 0.001729 | 2.382085 | 0.451145 | 0.689394 | -0.23825 | 4 | 1.7E+08 | F | II | SH3RF1 | Body | opensea | Body-open | | rs1920605 | 0;36;43;49 |
| cg1976466 | 0.240383 | 0.442469 | 8.075677 | 5.4E-05 | 0.00173 | 2.381657 | 0.322277 | 0.56266 | -0.24038 | 2 | 2.31E+08 | R | I | SP110 | Body | opensea | Body-open | | rs2303540 | 51 |
| cg1405407 | 0.211861 | 0.466129 | 8.075134 | 5.4E-05 | 0.00173 | 2.381169 | 0.360198 | 0.572059 | -0.21186 | 5 | 1.18E+08 | F | II | HRAT56 | Body | opensea | Body-open | | rs1137365 | 1;33 |
| cg1761361 | 0.205496 | 0.607352 | 8.074114 | 5.4E-05 | 0.001731 | 2.380252 | 0.504604 | 0.7101 | -0.2055 | 6 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1158758 | 0.211696 | 0.532817 | 8.074045 | 5.4E-05 | 0.001731 | 2.38019 | 0.426969 | 0.638666 | -0.2117 | 3 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | rs3767672 | 46;33;32;25;19;1 |
| cg1411748 | 0.207709 | 0.73648 | 8.073294 | 5.41E-05 | 0.001731 | 2.379515 | 0.632626 | 0.840335 | -0.20771 | 1 | 1.58E+08 | R | II | KIRREL | Body | opensea | Body-open | | rs5502760 | 32;2 |
| cg1750416 | 0.200569 | 0.583071 | 8.072701 | 5.41E-05 | 0.001731 | 2.378982 | 0.482786 | 0.683355 | -0.20057 | 1 | 79653656 | R | II | | IGR | opensea | IGR-opense | | rs5720827 | 12;2 |
| cg2450622 | 0.433966 | 0.406305 | 8.072536 | 5.41E-05 | 0.001731 | 2.378834 | 0.189322 | 0.623287 | -0.43397 | 1 | 1.1E+08 | R | I | GSTM1 | TSS200 | island | TSS200-isla | chr1:11022 | rs5737347 | 36;19;8 |
| cg0846625 | 0.206059 | 0.606386 | 8.071986 | 5.41E-05 | 0.001731 | 2.378339 | 0.503357 | 0.709415 | -0.20606 | 2 | 1.9E+08 | F | II | COL5A2 | Body | opensea | Body-open | | | |
| cg0045893 | 0.201699 | 0.444552 | 8.071218 | 5.42E-05 | 0.001732 | 2.377649 | 0.343702 | 0.545401 | -0.2017 | 2 | 2.08E+08 | F | II | | IGR | opensea | IGR-opense | | rs1161038 | 19 |
| cg2299864 | 0.216841 | 0.443901 | 8.071074 | 5.42E-05 | 0.001732 | 2.377519 | 0.335481 | 0.552321 | -0.21684 | 11 | 85758883 | R | II | PICALM | 5'UTR | opensea | 5'UTR-open | | rs5584712 | 32;31 |
| cg0256275 | 0.206846 | 0.422042 | 8.068329 | 5.43E-05 | 0.001735 | 2.375051 | 0.318619 | 0.525465 | -0.20685 | 21 | 29629836 | R | II | | IGR | opensea | IGR-opense | | rs5311632 | 47;6;2;1 |
| cg1204735 | 0.200407 | 0.435255 | 8.067156 | 5.44E-05 | 0.001735 | 2.373996 | 0.335052 | 0.535459 | -0.20041 | 6 | 49490175 | R | II | GLYATL3 | Body | opensea | Body-open | | rs5756915 | 23 |
| cg0225242 | 0.206056 | 0.510074 | 8.065964 | 5.44E-05 | 0.001736 | 2.372924 | 0.407046 | 0.613102 | -0.20606 | 5 | 1.28E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1833497 | 0.205031 | 0.633763 | 8.063566 | 5.45E-05 | 0.001738 | 2.370767 | 0.531247 | 0.736279 | -0.20503 | 3 | 1.28E+08 | F | II | | IGR | shore | IGR-shore | chr3:1282 | rs5552229 | 0;1;18 |
| cg0152848 | 0.200111 | 0.594484 | 8.063499 | 5.45E-05 | 0.001738 | 2.370706 | 0.494429 | 0.69454 | -0.20011 | 11 | 1.17E+08 | R | II | BACE1 | Body | opensea | Body-open | | | |
| cg1683178 | 0.224183 | 0.634061 | 8.063164 | 5.45E-05 | 0.001738 | 2.370405 | 0.52197 | 0.746153 | -0.22418 | 15 | 33539925 | F | II | TMCO5B | TSS200 | opensea | TSS200-ope | | rs1443812 | 1;43 |
| cg0036104 | 0.211142 | 0.391932 | 8.062741 | 5.46E-05 | 0.001738 | 2.370024 | 0.286361 | 0.497503 | -0.21114 | 13 | 73354967 | R | II | PIBF1 | TSS1500 | shore | TSS1500-sh | chr13:733 | rs5485960 | 43;23;3 |
| cg1721099 | 0.242153 | 0.671087 | 8.062198 | 5.46E-05 | 0.001739 | 2.369536 | 0.55001 | 0.792163 | -0.24215 | 1 | 2.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs1387259 | 1;7;20 |
| cg0844840 | 0.22542 | 0.550538 | 8.061455 | 5.46E-05 | 0.001739 | 2.368867 | 0.437828 | 0.663248 | -0.22542 | 10 | 54633831 | R | II | | IGR | shelf | IGR-shelf | chr10:546 | rs1864750 | 29;2;1 |
| cg1765377 | 0.205753 | 0.59341 | 8.061321 | 5.46E-05 | 0.001739 | 2.368747 | 0.490534 | 0.696286 | -0.20575 | 7 | 1.36E+08 | F | II | | IGR | shelf | IGR-shelf | chr7:1356 | rs1847033 | 0;19 |
| cg0683708 | 0.222567 | 0.634828 | 8.060796 | 5.46E-05 | 0.00174 | 2.368274 | 0.523544 | 0.746111 | -0.22257 | 4 | 1.74E+08 | F | II | GALNTL6 | Body | opensea | Body-open | | rs5466470 | 0;43 |
| cg2472869 | 0.221514 | 0.441755 | 8.060534 | 5.47E-05 | 0.00174 | 2.368038 | 0.330998 | 0.552512 | -0.22151 | 15 | 97081353 | F | II | | IGR | opensea | IGR-opense | | rs1423581 | 1;4 |
| cg1324694 | 0.243874 | 0.531294 | 8.05974 | 5.47E-05 | 0.00174 | 2.367324 | 0.409357 | 0.65323 | -0.24387 | 3 | 41878377 | F | II | ULK4 | Body | opensea | Body-open | | rs5439213 | 26 |
| cg1745171 | 0.214019 | 0.591968 | 8.058762 | 5.47E-05 | 0.001741 | 2.366443 | 0.484959 | 0.698977 | -0.21402 | 12 | 1.22E+08 | R | II | HPD | Body | opensea | Body-open | | rs1848667 | 37;19;2 |
| cg0625075 | 0.232606 | 0.583506 | 8.058352 | 5.48E-05 | 0.001741 | 2.366075 | 0.467203 | 0.699809 | -0.23261 | 15 | 49329117 | R | II | SECISBP2L | Body | opensea | Body-open | | rs5559597 | 46 |
| cg0530739 | 0.218665 | 0.584932 | 8.057882 | 5.48E-05 | 0.001742 | 2.365651 | 0.4756 | 0.694265 | -0.21867 | 2 | 62611092 | F | II | | IGR | opensea | IGR-opense | | rs5698314 | 5;45 |
| cg2555739 | 0.220566 | 0.573323 | 8.056725 | 5.48E-05 | 0.001742 | 2.364609 | 0.46304 | 0.683606 | -0.22057 | 10 | 62296386 | R | II | ANK3 | Body | opensea | Body-open | | rs5646519 | 48;15 |
| cg0409488 | 0.227941 | 0.416933 | 8.05662 | 5.48E-05 | 0.001743 | 2.364515 | 0.302962 | 0.530903 | -0.22794 | 17 | 38023830 | F | II | ZPBP2 | TSS1500 | shore | TSS1500-sh | chr17:380 | rs5679148 | 25 |
| cg1492894 | 0.213756 | 0.50866 | 8.056539 | 5.48E-05 | 0.001743 | 2.364442 | 0.401781 | 0.615538 | -0.21376 | 6 | 16420347 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5391439 | 47;40;12;2 |
| cg0296737 | 0.204202 | 0.582368 | 8.05537 | 5.49E-05 | 0.001743 | 2.363389 | 0.480267 | 0.684469 | -0.2042 | 15 | 99152767 | R | II | | IGR | opensea | IGR-opense | | rs5665746 | 20;14;1 |
| cg1971875 | 0.222553 | 0.626245 | 8.05483 | 5.49E-05 | 0.001744 | 2.362903 | 0.514968 | 0.737521 | -0.22255 | 15 | 93610211 | F | II | RGMA | Body | shore | Body-shore | chr15:936 | rs5348100 | 0 |
| cg2453564 | 0.225934 | 0.651681 | 8.053924 | 5.5E-05 | 0.001744 | 2.362087 | 0.538714 | 0.764648 | -0.22593 | 1 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs7876118 | 26;19;5 |
| cg1788306 | 0.238223 | 0.643515 | 8.050524 | 5.51E-05 | 0.001747 | 2.359024 | 0.524403 | 0.762627 | -0.23822 | 15 | 57277634 | R | II | TCF12 | Body | opensea | Body-open | | | |
| cg0993999 | 0.206227 | 0.615878 | 8.0501 | 5.52E-05 | 0.001747 | 2.358641 | 0.512764 | 0.718991 | -0.20623 | 10 | 89434856 | R | II | PAPSS2 | Body | opensea | Body-open | | rs5684019 | 1 |
| cg2708360 | 0.220691 | 0.580538 | 8.048958 | 5.52E-05 | 0.001748 | 2.357612 | 0.470193 | 0.690884 | -0.22069 | 5 | 1.78E+08 | R | II | COL23A1 | Body | opensea | Body-open | | rs1764152 | 51;2;1 |
| cg1182874 | 0.221498 | 0.621382 | 8.04502 | 5.54E-05 | 0.001752 | 2.354063 | 0.510632 | 0.732131 | -0.2215 | 11 | 10715767 | F | II | MRVI1 | TSS1500 | opensea | TSS1500-op | | rs1167644 | 22;28 |
| cg0445819 | 0.231889 | 0.582357 | 8.043686 | 5.55E-05 | 0.001753 | 2.35286 | 0.466413 | 0.698302 | -0.23189 | 1 | 2.2E+08 | R | II | RAB3GAP2 | Body | opensea | Body-open | | rs1399811 | 12 |
| cg1680170 | 0.245591 | 0.435076 | 8.041959 | 5.55E-05 | 0.001754 | 2.351302 | 0.31228 | 0.557871 | -0.24559 | 5 | 64110063 | R | II | CWC27 | Body | opensea | Body-open | | rs1483034 | 23 |
| cg2339463 | 0.241885 | 0.661702 | 8.041679 | 5.56E-05 | 0.001754 | 2.351049 | 0.54076 | 0.782645 | -0.24189 | 2 | 2.08E+08 | F | II | LOC10192: | Body | opensea | Body-open | | rs1438199 | 0;15;44 |
| cg0187952 | 0.235454 | 0.661135 | 8.041266 | 5.56E-05 | 0.001755 | 2.350678 | 0.543408 | 0.778862 | -0.23545 | 3 | 1.14E+08 | R | II | LOC10192: | Body | opensea | Body-open | | rs1831695 | 8;4;2 |
| cg0855121 | 0.201972 | 0.654874 | 8.040658 | 5.56E-05 | 0.001755 | 2.350129 | 0.553888 | 0.75586 | -0.20197 | 7 | 90573393 | R | II | CDK14 | Body | opensea | Body-open | | | |
| cg0340953 | 0.225343 | 0.559725 | 8.039248 | 5.57E-05 | 0.001756 | 2.348857 | 0.447053 | 0.672397 | -0.22534 | 6 | 47071840 | F | II | | IGR | opensea | IGR-opense | | rs1170269 | 0;26;32 |
| cg1938713 | 0.203286 | 0.575243 | 8.038698 | 5.57E-05 | 0.001757 | 2.348361 | 0.4736 | 0.676886 | -0.20329 | 1 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs1830832 | 23;50 |
| cg1250226 | 0.209436 | 0.658565 | 8.038609 | 5.57E-05 | 0.001757 | 2.34828 | 0.553847 | 0.763283 | -0.20944 | 8 | 1.25E+08 | F | II | FER1L6 | Body | opensea | Body-open | | rs5392929 | 0 |
| cg0231997 | 0.210594 | 0.478969 | 8.03766 | 5.57E-05 | 0.001757 | 2.347424 | 0.373672 | 0.584266 | -0.21059 | 15 | 62798895 | R | II | | IGR | opensea | IGR-opense | | rs5474270 | 24;15;1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1201152 | 0.201867 | 0.324203 | 8.036383 | 5.58E-05 | 0.001759 | 2.346272 | 0.22327 | 0.425137 | -0.20187 | 2 | 1.79E+08 | F | II | OSBPL6 | Body | opensea | Body-opens | rs6604498 | 1;41 |
| cg2729146 | 0.227478 | 0.582249 | 8.036187 | 5.58E-05 | 0.001759 | 2.346095 | 0.46851 | 0.695988 | -0.22748 | 2 | 9878816 | F | I | | IGR | opensea | IGR-opense | rs5676309 | 29 |
| cg1503439 | 0.219812 | 0.422595 | 8.035677 | 5.58E-05 | 0.001759 | 2.345635 | 0.312689 | 0.532501 | -0.21981 | 3 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | rs1847278 | 12;1 |
| cg2523711 | 0.203217 | 0.599195 | 8.034492 | 5.59E-05 | 0.00176 | 2.344564 | 0.497586 | 0.700803 | -0.20322 | 2 | 80551812 | R | II | CTNNA2 | Body | shelf | Body-shelf | chr2:8054 | rs5339263 | 2 |
| cg2570427 | 0.21407 | 0.688057 | 8.032855 | 5.6E-05 | 0.001761 | 2.343087 | 0.581022 | 0.795092 | -0.21407 | 6 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | rs1846997 | 22 |
| cg0530060 | 0.249023 | 0.629502 | 8.030636 | 5.61E-05 | 0.001763 | 2.341084 | 0.504991 | 0.754014 | -0.24902 | 12 | 52235472 | R | II | | IGR | opensea | IGR-opense | rs1258068 | 14;1 |
| cg1155472 | 0.200819 | 0.66185 | 8.030581 | 5.61E-05 | 0.001763 | 2.341034 | 0.561441 | 0.762259 | -0.20082 | 15 | 83242028 | F | II | CPEB1 | TSS1500 | opensea | TSS1500-op | | | |
| cg0444657 | 0.247075 | 0.574634 | 8.030195 | 5.61E-05 | 0.001763 | 2.340685 | 0.451097 | 0.698172 | -0.24708 | 4 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | rs5289070 | 30;16;14;2 |
| cg1668012 | 0.250029 | 0.500698 | 8.029194 | 5.62E-05 | 0.001764 | 2.339781 | 0.375684 | 0.625712 | -0.25003 | 1 | 2.07E+08 | R | II | LGTN | Body | shelf | Body-shelf | chr1:2067 | rs5472347 | 41;2;1 |
| cg0768959 | 0.220585 | 0.527053 | 8.028406 | 5.62E-05 | 0.001764 | 2.339069 | 0.416761 | 0.637346 | -0.22058 | 15 | 48138213 | R | II | LINC01491 | Body | opensea | Body-opens | rs5277524 | 1 |
| cg1078208 | 0.21122 | 0.494762 | 8.028014 | 5.62E-05 | 0.001765 | 2.338715 | 0.389152 | 0.600372 | -0.21122 | 1 | 51554444 | F | II | | IGR | opensea | IGR-opense | rs1924008 | 22 |
| cg0565908 | 0.290514 | 0.53571 | 8.027867 | 5.62E-05 | 0.001765 | 2.338582 | 0.390453 | 0.680967 | -0.29051 | 7 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5780346 | 1;28 |
| cg2422363 | 0.221399 | 0.511047 | 8.025353 | 5.63E-05 | 0.001767 | 2.336311 | 0.400347 | 0.621747 | -0.2214 | 5 | 7978936 | F | II | | IGR | opensea | IGR-opense | rs1137114 | 1 |
| cg0917051 | 0.20903 | 0.4492 | 8.024709 | 5.64E-05 | 0.001768 | 2.335729 | 0.344685 | 0.553715 | -0.20903 | 22 | 45067941 | R | II | PRR5 | 5'UTR | shelf | 5'UTR-shelf | chr22:450 | rs5586922 | 51 |
| cg1967559 | 0.20643 | 0.675822 | 8.023379 | 5.64E-05 | 0.001769 | 2.334528 | 0.572607 | 0.779038 | -0.20643 | 6 | 1.39E+08 | F | II | | IGR | opensea | IGR-opense | rs1493102 | 1;30;39 |
| cg0856193 | 0.20352 | 0.454805 | 8.021936 | 5.65E-05 | 0.00177 | 2.333223 | 0.353045 | 0.556565 | -0.20352 | 5 | 1.31E+08 | R | II | CDC42SE2 | 5'UTR | opensea | 5'UTR-open | rs7731860 | 36;18 |
| cg1063440 | 0.216804 | 0.530386 | 8.021787 | 5.65E-05 | 0.00177 | 2.333088 | 0.421984 | 0.638788 | -0.2168 | 12 | 19585266 | R | II | | IGR | opensea | IGR-opense | | |
| cg1292364 | 0.221833 | 0.681071 | 8.020735 | 5.66E-05 | 0.00177 | 2.332137 | 0.570155 | 0.791987 | -0.22183 | 20 | 20584339 | F | II | RALGAPA2 | Body | opensea | Body-opens | rs1857471 | 1;5;31;47 |
| cg2421273 | 0.215876 | 0.528438 | 8.020163 | 5.66E-05 | 0.001771 | 2.33162 | 0.4205 | 0.636376 | -0.21588 | 15 | 69396631 | R | II | MIR548H4 | Body | opensea | Body-opens | rs5666813 | 27;9 |
| cg1459531 | 0.212655 | 0.547446 | 8.019673 | 5.66E-05 | 0.001771 | 2.331177 | 0.441119 | 0.653773 | -0.21265 | 5 | 1.71E+08 | R | II | | IGR | opensea | IGR-opense | rs5284036 | 8;2 |
| cg1547083 | 0.231185 | 0.598489 | 8.018933 | 5.66E-05 | 0.001772 | 2.330508 | 0.482897 | 0.714082 | -0.23118 | 7 | 55603306 | F | II | VOPP1 | Body | opensea | Body-opens | rs5464996 | 25;38 |
| cg1314774 | 0.205013 | 0.57325 | 8.018287 | 5.67E-05 | 0.001773 | 2.329924 | 0.470743 | 0.675756 | -0.20501 | 1 | 55997258 | F | II | | IGR | opensea | IGR-opense | rs5413864 | 0;6;32;41 |
| cg2752779 | 0.22169 | 0.56516 | 8.018099 | 5.67E-05 | 0.001773 | 2.329754 | 0.454315 | 0.676005 | -0.22169 | 7 | 1773245 | F | I | ELFN1 | 5'UTR | opensea | 5'UTR-open | rs5336539 | 0;17 |
| cg1996834 | 0.211588 | 0.603781 | 8.016009 | 5.68E-05 | 0.001774 | 2.327863 | 0.497987 | 0.709575 | -0.21159 | 11 | 34579495 | R | II | | IGR | opensea | IGR-opense | rs5638506 | 1 |
| cg0122346 | 0.213647 | 0.575539 | 8.015947 | 5.68E-05 | 0.001774 | 2.327808 | 0.468715 | 0.682362 | -0.21365 | 6 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | rs5606691 | 0;14;35 |
| cg0648443 | 0.206283 | 0.657169 | 8.015834 | 5.68E-05 | 0.001774 | 2.327705 | 0.554027 | 0.76031 | -0.20628 | 5 | 1.29E+08 | F | II | ADAMTS19 | Body | shelf | Body-shelf | chr5:1287 | rs1424569 | 0;21 |
| cg2514921 | 0.208908 | 0.595646 | 8.015789 | 5.68E-05 | 0.001774 | 2.327665 | 0.491192 | 0.7001 | -0.20891 | 2 | 2.05E+08 | F | II | PARD3B | Body | shore | Body-shore | chr2:2054 | rs1473126 | 8;51 |
| cg1825888 | 0.23312 | 0.477585 | 8.015326 | 5.68E-05 | 0.001774 | 2.327246 | 0.361026 | 0.594145 | -0.23312 | 5 | 95403859 | F | II | LOC10192 | Body | opensea | Body-opens | rs6885863 | 5;17;40 |
| cg1286782 | 0.229354 | 0.512497 | 8.014604 | 5.69E-05 | 0.001775 | 2.326593 | 0.39782 | 0.627174 | -0.22935 | 6 | 1.45E+08 | F | II | UTRN | Body | opensea | Body-opens | rs5557031 | 11 |
| cg1365905 | 0.223875 | 0.555899 | 8.010619 | 5.71E-05 | 0.001778 | 2.322987 | 0.443961 | 0.667836 | -0.22388 | 2 | 2.23E+08 | R | II | SGPP2 | Body | opensea | Body-opens | rs1917004 | 14;2 |
| cg1904406 | 0.201623 | 0.661759 | 8.009865 | 5.71E-05 | 0.001778 | 2.322305 | 0.560948 | 0.762571 | -0.20162 | 3 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | rs3702829 | 2 |
| cg1785723 | 0.200558 | 0.527541 | 8.009545 | 5.71E-05 | 0.001779 | 2.322015 | 0.427262 | 0.62782 | -0.20056 | 5 | 17213797 | R | II | LOC28569 | Body | shelf | Body-shelf | chr5:1721 | rs1864125 | 38;2 |
| cg0539009 | 0.223692 | 0.624814 | 8.008297 | 5.72E-05 | 0.00178 | 2.320884 | 0.512968 | 0.73666 | -0.22369 | 4 | 48298462 | R | II | | IGR | opensea | IGR-opense | rs1403655 | 43;24;2 |
| cg0509004 | 0.219754 | 0.508893 | 8.007515 | 5.72E-05 | 0.001781 | 2.320177 | 0.399017 | 0.61877 | -0.21975 | 7 | 1.38E+08 | F | II | | IGR | opensea | IGR-opense | rs1135875 | 28;40 |
| cg1782193 | 0.202509 | 0.697861 | 8.006359 | 5.73E-05 | 0.001782 | 2.31913 | 0.596607 | 0.799115 | -0.20251 | 2 | 1.84E+08 | R | II | | IGR | opensea | IGR-opense | rs1387278 | 42 |
| cg1599144 | 0.203236 | 0.67152 | 8.005839 | 5.73E-05 | 0.001782 | 2.318659 | 0.569902 | 0.773138 | -0.20324 | 11 | 4721506 | R | II | | IGR | opensea | IGR-opense | rs5345676 | 2 |
| cg1007731 | 0.201761 | 0.400101 | 8.00583 | 5.73E-05 | 0.001782 | 2.318651 | 0.29922 | 0.500981 | -0.20176 | 2 | 1.68E+08 | R | II | XIRP2-AS1 | Body | opensea | Body-opens | rs5738105 | 24 |
| cg1720857 | 0.217981 | 0.639517 | 8.005048 | 5.73E-05 | 0.001782 | 2.317943 | 0.530526 | 0.748508 | -0.21798 | 9 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | rs5649433 | 13;27 |
| cg1050461 | 0.212635 | 0.541996 | 8.003187 | 5.74E-05 | 0.001784 | 2.316257 | 0.435679 | 0.648314 | -0.21264 | 2 | 59882837 | R | II | | IGR | opensea | IGR-opense | rs1128738 | 18 |
| cg1245683 | 0.200653 | 0.690279 | 8.003068 | 5.74E-05 | 0.001784 | 2.31615 | 0.589953 | 0.790606 | -0.20065 | 20 | 22994357 | F | II | | IGR | opensea | IGR-opense | rs5736643 | 1;19;43 |
| cg0595491 | 0.23002 | 0.615761 | 8.00292 | 5.74E-05 | 0.001784 | 2.316015 | 0.500751 | 0.730771 | -0.23002 | 1 | 66296098 | F | II | PDE4B | 5'UTR | opensea | 5'UTR-open | | | |
| cg0084846 | 0.211121 | 0.608854 | 8.001532 | 5.75E-05 | 0.001785 | 2.314758 | 0.503294 | 0.714414 | -0.21112 | 5 | 1.77E+08 | F | II | PRELID1 | Body | shore | Body-shore | chr5:1767 | rs7695015 | 0;13;14;29;30;46 |
| cg1261325 | 0.272425 | 0.470073 | 8.001212 | 5.75E-05 | 0.001785 | 2.314468 | 0.333861 | 0.606286 | -0.27242 | 20 | 20393632 | F | II | RALGAPA2 | Body | opensea | Body-opens | rs3685910 | 0 |
| cg0472874 | 0.208019 | 0.499508 | 8.001026 | 5.75E-05 | 0.001785 | 2.3143 | 0.395498 | 0.603518 | -0.20802 | 10 | 1.17E+08 | R | II | ATRNL1 | Body | opensea | Body-opens | rs1155226 | 51;50;36;7 |
| cg0721440 | 0.218796 | 0.469334 | 8.000202 | 5.76E-05 | 0.001786 | 2.313553 | 0.359937 | 0.578732 | -0.2188 | 1 | 16312238 | R | II | | IGR | opensea | IGR-opense | rs1841809 | 1 |
| cg0563908 | 0.206339 | 0.570265 | 7.998176 | 5.77E-05 | 0.001787 | 2.311717 | 0.467096 | 0.673435 | -0.20634 | 2 | 2.08E+08 | F | II | | IGR | opensea | IGR-opense | rs1138523 | 0 |
| cg2213161 | 0.231433 | 0.560434 | 7.997769 | 5.77E-05 | 0.001787 | 2.311348 | 0.444717 | 0.67615 | -0.23143 | 6 | 20669947 | R | II | CDKAL1 | Body | opensea | Body-opens | | | |
| cg2673695 | 0.245765 | 0.648287 | 7.997703 | 5.77E-05 | 0.001787 | 2.311288 | 0.525405 | 0.77117 | -0.24576 | 11 | 34645679 | R | II | EHF | 5'UTR | opensea | 5'UTR-open | rs1729217 | 45;32;14 |
| cg1665009 | 0.204877 | 0.70789 | 7.995217 | 5.78E-05 | 0.001789 | 2.309035 | 0.605451 | 0.810328 | -0.20488 | 4 | 1.41E+08 | F | II | MAML3 | Body | opensea | Body-opens | rs6140140 | 36;50 |
| cg1743561 | 0.260902 | 0.581311 | 7.994502 | 5.79E-05 | 0.00179 | 2.308386 | 0.450861 | 0.711762 | -0.2609 | 22 | 38731297 | F | II | LOC40092 | 5'UTR | opensea | 5'UTR-open | rs5558848 | 19;42 |
| cg0445364 | 0.276577 | 0.535947 | 7.994176 | 5.79E-05 | 0.00179 | 2.308091 | 0.397659 | 0.674236 | -0.27658 | 2 | 40579303 | F | II | SLC8A1 | Body | opensea | Body-opens | rs1858235 | 13;17;21 |
| cg1380764 | 0.227353 | 0.614686 | 7.993777 | 5.79E-05 | 0.001791 | 2.307729 | 0.50101 | 0.728362 | -0.22735 | 20 | 38785218 | R | II | | IGR | opensea | IGR-opense | rs1844193 | 24 |
| cg2271301 | 0.214442 | 0.538968 | 7.993329 | 5.79E-05 | 0.001791 | 2.307323 | 0.431747 | 0.646189 | -0.21444 | 5 | 32060539 | R | II | PDZD2 | Body | opensea | Body-opens | rs5422308 | 40;27;10 |
| cg0843240 | 0.204677 | 0.419881 | 7.993161 | 5.79E-05 | 0.001791 | 2.30717 | 0.317543 | 0.52222 | -0.20468 | 3 | 24531858 | R | II | THRB | 5'UTR | shelf | 5'UTR-shelf | chr3:2453 | rs1387251 | 33 |
| cg1502524 | 0.250624 | 0.501174 | 7.992023 | 5.8E-05 | 0.001792 | 2.306138 | 0.375861 | 0.626486 | -0.25062 | 2 | 74811430 | R | II | C2orf65 | Body | opensea | Body-opens | | | |
| cg1773152 | 0.219487 | 0.622726 | 7.989595 | 5.81E-05 | 0.001794 | 2.303936 | 0.512983 | 0.73247 | -0.21949 | 3 | 27235572 | R | II | NEK10 | Body | opensea | Body-opens | rs1385442 | 51;15;6 |
| cg1684510 | 0.207272 | 0.333053 | 7.989088 | 5.81E-05 | 0.001795 | 2.303476 | 0.229417 | 0.436689 | -0.20727 | 22 | 17959388 | F | II | CECR2 | 5'UTR | opensea | 5'UTR-open | rs5652003 | 1;15 |
| cg1968543 | 0.216868 | 0.579981 | 7.988675 | 5.81E-05 | 0.001795 | 2.303101 | 0.471547 | 0.688415 | -0.21687 | 18 | 20394356 | F | II | | IGR | opensea | IGR-opense | rs1911024 | 20;31 |
| cg2139849 | 0.230152 | 0.609979 | 7.988562 | 5.81E-05 | 0.001795 | 2.302999 | 0.494903 | 0.725056 | -0.23015 | 2 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | rs5479778 | 23;2 |
| cg2693375 | 0.207647 | 0.551058 | 7.987634 | 5.82E-05 | 0.001796 | 2.302157 | 0.447234 | 0.654882 | -0.20765 | 2 | 1.45E+08 | R | II | GTDC1 | Body | opensea | Body-opens | rs5468782 | 28;1 |
| cg2026562 | 0.218722 | 0.642552 | 7.986638 | 5.82E-05 | 0.001796 | 2.301253 | 0.533191 | 0.751913 | -0.21872 | 4 | 26324308 | F | II | RBPJ | Body | shore | Body-shore | chr4:2632 | rs5445254 | 14 |
| cg0586317 | 0.240682 | 0.575392 | 7.986435 | 5.83E-05 | 0.001796 | 2.301069 | 0.455051 | 0.695733 | -0.24068 | 4 | 3023500 | R | II | GRK4 | Body | opensea | Body-opens | rs5345231 | 18;2 |
| cg0035872 | 0.208713 | 0.705275 | 7.986415 | 5.83E-05 | 0.001796 | 2.30105 | 0.600918 | 0.809631 | -0.20871 | 3 | 1.83E+08 | F | II | | IGR | opensea | IGR-opense | rs1467870 | 0 |
| cg0350823 | 0.206108 | 0.721527 | 7.984666 | 5.83E-05 | 0.001797 | 2.299463 | 0.618473 | 0.824581 | -0.20611 | 14 | 23445994 | R | II | JUB | 5'UTR | shelf | 5'UTR-shelf | chr14:234 | rs2019591 | 51;7;1 |
| cg2456211 | 0.2068 | 0.647523 | 7.984662 | 5.83E-05 | 0.001797 | 2.299459 | 0.544123 | 0.750923 | -0.2068 | 13 | 80324480 | F | II | | IGR | opensea | IGR-opense | rs1914250 | 26 |
| cg1236778 | 0.234222 | 0.460682 | 7.981081 | 5.85E-05 | 0.0018 | 2.296208 | 0.343571 | 0.577793 | -0.23422 | 21 | 39290161 | F | II | KCNJ6 | TSS1500 | shore | TSS1500-sh | chr21:392 | rs5482287 | 5 |
| cg1968698 | 0.207563 | 0.698137 | 7.98105 | 5.85E-05 | 0.0018 | 2.296181 | 0.594356 | 0.801919 | -0.20756 | 6 | 13182594 | F | II | PHACTR1 | Body | opensea | Body-opens | rs1409113 | 0;1;14;45 |
| cg0135965 | 0.21368 | 0.615548 | 7.978515 | 5.87E-05 | 0.001802 | 2.293878 | 0.508708 | 0.722388 | -0.21368 | 9 | 1.19E+08 | F | II | | IGR | opensea | IGR-opense | rs5582480 | 7 |
| cg0579016 | 0.202217 | 0.605453 | 7.978358 | 5.87E-05 | 0.001802 | 2.293735 | 0.504344 | 0.706561 | -0.20222 | 10 | 72465428 | R | II | ADAMTS14 | Body | opensea | Body-opens | rs5630811 | 28;1 |
| cg0664150 | 0.229911 | 0.637535 | 7.97824 | 5.87E-05 | 0.001802 | 2.293628 | 0.522579 | 0.75249 | -0.22991 | 3 | 48959341 | F | II | ARIH2 | 5'UTR | shelf | 5'UTR-shelf | chr3:4895 | rs5467614 | 9 |
| cg0421535 | 0.220873 | 0.624432 | 7.977981 | 5.87E-05 | 0.001802 | 2.293392 | 0.513995 | 0.734869 | -0.22087 | 2 | 1.53E+08 | R | II | FMNL2 | Body | opensea | Body-opens | rs5650518 | 2 |
| cg0867448 | 0.206229 | 0.60951 | 7.977715 | 5.87E-05 | 0.001803 | 2.293151 | 0.506396 | 0.712624 | -0.20623 | 17 | 14933074 | F | II | CDRT7 | TSS1500 | opensea | TSS1500-op | rs5730357 | 0;8;38 |
| cg1565415 | 0.239934 | 0.666096 | 7.975198 | 5.88E-05 | 0.001805 | 2.290865 | 0.546129 | 0.786063 | -0.23993 | 11 | 9965512 | R | II | SBF2 | Body | opensea | Body-opens | | | |
| cg2161796 | 0.21126 | 0.573629 | 7.974851 | 5.88E-05 | 0.001805 | 2.29055 | 0.467999 | 0.679259 | -0.21126 | 16 | 13532223 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1568569 | 0.232495 | 0.552606 | 7.974614 | 5.89E-05 | 0.001805 | 2.290333 | 0.436359 | 0.668854 | -0.23249 | 17 | 18247645 | R | II | SHMT1 | Body | opensea | Body-opens | rs1872239 | 33;15;1 |
| cg1353101 | 0.23992 | 0.549956 | 7.97328 | 5.89E-05 | 0.001806 | 2.289121 | 0.429996 | 0.669916 | -0.23992 | 2 | 50883765 | R | II | NRXN1 | Body | opensea | Body-opens | rs5690431 | 1 |
| cg1279556 | 0.201151 | 0.617686 | 7.97303 | 5.89E-05 | 0.001806 | 2.288895 | 0.517111 | 0.718262 | -0.20115 | 18 | 60020637 | F | II | TNFRSF11A | Body | opensea | Body-opens | rs5696857 | 33;47;48 |
| cg0138615 | 0.210329 | 0.589402 | 7.972312 | 5.9E-05 | 0.001807 | 2.288242 | 0.484238 | 0.694566 | -0.21033 | 6 | 29403982 | R | II | | IGR | opensea | IGR-opense | rs1143653 | 2 |
| cg2217504 | 0.240986 | 0.455141 | 7.971742 | 5.9E-05 | 0.001807 | 2.287724 | 0.334648 | 0.575634 | -0.24099 | 7 | 37779764 | R | II | GPR141 | TSS1500 | opensea | TSS1500-op | rs5422985 | 42;14;12;2 |
| cg1083956 | 0.246773 | 0.639485 | 7.970795 | 5.9E-05 | 0.001808 | 2.286863 | 0.516098 | 0.762872 | -0.24677 | 12 | 24893783 | F | II | | IGR | opensea | IGR-opense | rs1142764 | 1 |
| cg0938343 | 0.20835 | 0.580687 | 7.970694 | 5.91E-05 | 0.001808 | 2.286771 | 0.476512 | 0.684862 | -0.20835 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | rs5333346 | 8;2;1 |
| cg0387267 | 0.202856 | 0.485228 | 7.969489 | 5.91E-05 | 0.001809 | 2.285675 | 0.3838 | 0.586655 | -0.20286 | 6 | 253022 | R | II | | IGR | opensea | IGR-opense | | |
| cg1219430 | 0.209446 | 0.732956 | 7.968746 | 5.91E-05 | 0.00181 | 2.284999 | 0.628233 | 0.837679 | -0.20945 | 7 | 18598398 | R | II | HDAC9 | Body | opensea | Body-opens | | | |
| cg0287341 | 0.216315 | 0.481414 | 7.968478 | 5.92E-05 | 0.00181 | 2.284756 | 0.373257 | 0.589571 | -0.21631 | 15 | 52545136 | F | II | MYO5C | Body | opensea | Body-opens | rs7401564 | 1 |
| cg0982766 | 0.234222 | 0.58841 | 7.967811 | 5.92E-05 | 0.001811 | 2.284149 | 0.471299 | 0.705521 | -0.23422 | 3 | 1.12E+08 | R | II | SLC35A5 | 5'UTR | shore | 5'UTR-shor | chr3:1122 | rs5474139 | 46;27;11;9 |
| cg1695109 | 0.211562 | 0.640161 | 7.967646 | 5.92E-05 | 0.001811 | 2.283999 | 0.53438 | 0.745942 | -0.21156 | 2 | 1.66E+08 | F | II | SLC38A11 | Body | opensea | Body-opens | rs5675547 | 4;46 |
| cg2023086 | 0.200933 | 0.657666 | 7.966426 | 5.93E-05 | 0.001812 | 2.282889 | 0.5572 | 0.758133 | -0.20093 | 2 | 1.71E+08 | F | II | METTL5 | Body | opensea | Body-opens | rs5503468 | 0;28;43 |
| cg1479039 | 0.202546 | 0.677285 | 7.965825 | 5.93E-05 | 0.001812 | 2.282344 | 0.576012 | 0.778558 | -0.20255 | 18 | 456806 | F | II | COLEC12 | Body | opensea | Body-opens | | | |
| cg1636965 | 0.212979 | 0.47103 | 7.965807 | 5.93E-05 | 0.001812 | 2.282327 | 0.364541 | 0.57752 | -0.21298 | 5 | 1.49E+08 | F | II | CSF1R | TSS200 | opensea | TSS200-ope | rs5364286 | 1;37 |
| cg0718708 | 0.205252 | 0.614458 | 7.963327 | 5.94E-05 | 0.001814 | 2.280071 | 0.511832 | 0.717084 | -0.20525 | 20 | 1825226 | F | II | | IGR | opensea | IGR-opense | rs5592059 | 22 |
| cg1308540 | 0.21022 | 0.644258 | 7.963159 | 5.94E-05 | 0.001814 | 2.279918 | 0.539148 | 0.749368 | -0.21022 | 1 | 2.33E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0288994 | 0.215314 | 0.602389 | 7.962442 | 5.95E-05 | 0.001815 | 2.279266 | 0.494732 | 0.710046 | -0.21531 | 22 | 36239415 | R | II | RBFOX2 | Body | opensea | Body-opens | rs5746166 | 24;23 |
| cg0127180 | 0.201883 | 0.590434 | 7.962278 | 5.95E-05 | 0.001815 | 2.279116 | 0.489493 | 0.691376 | -0.20188 | 3 | 55694954 | F | II | C3orf51 | TSS1500 | opensea | TSS1500-op | rs5724973 | 0;2 |
| cg0330572 | 0.227835 | 0.593798 | 7.961358 | 5.95E-05 | 0.001815 | 2.278279 | 0.479881 | 0.707716 | -0.22783 | 11 | 8866125 | R | II | ST5 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1013919 | 0.214297 | 0.624888 | 7.961295 | 5.95E-05 | 0.001815 | 2.278222 | 0.51774 | 0.732037 | -0.2143 | 2 | 2.17E+08 | R | II | MREG | Body | opensea | Body-opens | rs1301439 | 20 |
| cg1726612 | 0.251203 | 0.578122 | 7.961111 | 5.95E-05 | 0.001815 | 2.278055 | 0.452521 | 0.703724 | -0.2512 | 21 | 30476810 | R | II | MAP3K7CL | 5'UTR | opensea | 5'UTR-open | rs1870250 | 6;2 |
| cg1260253 | 0.223254 | 0.475385 | 7.958833 | 5.97E-05 | 0.001817 | 2.275981 | 0.363758 | 0.587012 | -0.22325 | 18 | 4445094 | R | II | DLGAP1 | 5'UTR | opensea | 5'UTR-open | rs5782587 | 48;14;1 |
| cg1382815 | 0.228264 | 0.657802 | 7.957735 | 5.97E-05 | 0.001818 | 2.274981 | 0.543669 | 0.771934 | -0.22826 | 6 | 56696399 | R | II | DST | Body | opensea | Body-opens | | | |
| cg1065913 | 0.209155 | 0.665653 | 7.957033 | 5.98E-05 | 0.001818 | 2.274342 | 0.561076 | 0.770231 | -0.20915 | 5 | 97949352 | R | II | | IGR | opensea | IGR-opense | rs7607706 | 11;1 |
| cg0735220 | 0.202854 | 0.486345 | 7.956164 | 5.98E-05 | 0.001819 | 2.273551 | 0.384918 | 0.587772 | -0.20285 | 4 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | rs3692593 | 1;31;47 |
| cg1067124 | 0.205675 | 0.581045 | 7.955966 | 5.98E-05 | 0.001819 | 2.273371 | 0.478208 | 0.683883 | -0.20568 | 20 | 58142036 | F | II | | IGR | opensea | IGR-opense | rs3848705 | 41;49;51 |
| cg1688997 | 0.200424 | 0.532723 | 7.955102 | 5.99E-05 | 0.00182 | 2.272584 | 0.432511 | 0.632935 | -0.20042 | 4 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | rs1166166 | 44;26;25 |
| cg0666577 | 0.213179 | 0.636819 | 7.954971 | 5.99E-05 | 0.00182 | 2.272464 | 0.530229 | 0.743409 | -0.21318 | 10 | 73152727 | F | II | | IGR | shelf | IGR-shelf | chr10:731 | rs1486660 | 23 |
| cg1586301 | 0.20733 | 0.492069 | 7.952477 | 6E-05 | 0.001823 | 2.270193 | 0.388404 | 0.595734 | -0.20733 | 1 | 24915946 | F | II | NCMAP | 5'UTR | opensea | 5'UTR-open | rs1900311 | 1;38;39 |
| cg2401896 | 0.205627 | 0.696699 | 7.952419 | 6E-05 | 0.001823 | 2.27014 | 0.593886 | 0.799512 | -0.20563 | 15 | 83226022 | F | II | CPEB1 | Body | opensea | Body-opens | rs5488322 | 15 |
| cg2188618 | 0.207593 | 0.510666 | 7.951783 | 6E-05 | 0.001823 | 2.26956 | 0.406869 | 0.614462 | -0.20759 | 11 | 1.2E+08 | F | II | | IGR | shelf | IGR-shelf | chr11:120 | rs1163508 | 12 |
| cg1326246 | 0.219298 | 0.655189 | 7.950905 | 6.01E-05 | 0.001824 | 2.268761 | 0.545539 | 0.764838 | -0.2193 | 3 | 1.7E+08 | F | II | LRRIQ4 | TSS1500 | opensea | TSS1500-op | rs5505620 | 8 |
| cg1832458 | 0.226847 | 0.566566 | 7.949342 | 6.02E-05 | 0.001825 | 2.267336 | 0.453142 | 0.679989 | -0.22685 | 5 | 1.43E+08 | F | II | | IGR | opensea | IGR-opense | rs1493442 | 10 |
| cg1880185 | 0.200403 | 0.649163 | 7.949184 | 6.02E-05 | 0.001825 | 2.267192 | 0.548962 | 0.749365 | -0.2004 | 1 | 2.46E+08 | F | II | SMYD3 | Body | opensea | Body-opens | rs1843254 | 12;50 |
| cg2080846 | 0.212442 | 0.617099 | 7.947981 | 6.02E-05 | 0.001826 | 2.266096 | 0.510878 | 0.72332 | -0.21244 | 13 | 85853402 | F | II | | IGR | opensea | IGR-opense | rs5777550 | 0;11;30;32 |
| cg0267636 | 0.212582 | 0.618485 | 7.945319 | 6.04E-05 | 0.001828 | 2.263669 | 0.512194 | 0.724776 | -0.21258 | 3 | 44007655 | R | II | | IGR | opensea | IGR-opense | rs5478928 | 36;35;1 |
| cg1484660 | 0.211082 | 0.490476 | 7.944435 | 6.04E-05 | 0.001829 | 2.262863 | 0.384935 | 0.596017 | -0.21108 | 8 | 87718912 | R | II | CNGB3 | Body | opensea | Body-opens | rs5386991 | 39;23 |
| cg0483384 | 0.207272 | 0.624456 | 7.944349 | 6.04E-05 | 0.001829 | 2.262785 | 0.52082 | 0.728092 | -0.20727 | 19 | 44286076 | F | II | KCNN4 | TSS1500 | opensea | TSS1500-op | | | |
| cg0675094 | 0.207515 | 0.695632 | 7.94294 | 6.05E-05 | 0.00183 | 2.2615 | 0.591874 | 0.799389 | -0.20751 | 6 | 31019554 | F | II | | IGR | opensea | IGR-opense | rs2394427 | 8 |
| cg2078018 | 0.219543 | 0.438539 | 7.941226 | 6.06E-05 | 0.001832 | 2.259937 | 0.328768 | 0.548311 | -0.21954 | 5 | 1.22E+08 | F | II | SNX24 | Body | opensea | Body-opens | rs5673432 | 3;32;33 |
| cg0141512 | 0.219907 | 0.565111 | 7.940959 | 6.06E-05 | 0.001832 | 2.259694 | 0.455157 | 0.675064 | -0.21991 | 2 | 85929746 | R | II | | IGR | opensea | IGR-opense | rs1829442 | 43;1 |
| cg0988707 | 0.209659 | 0.608285 | 7.940774 | 6.06E-05 | 0.001832 | 2.259525 | 0.503456 | 0.713114 | -0.20966 | 1 | 24278297 | F | II | | IGR | opensea | IGR-opense | rs5599404 | 25 |
| cg2214661 | 0.205701 | 0.617017 | 7.940176 | 6.06E-05 | 0.001833 | 2.258979 | 0.514167 | 0.719868 | -0.2057 | 6 | 17715219 | R | II | | IGR | opensea | IGR-opense | rs1220946 | 39 |
| cg1739479 | 0.203327 | 0.64031 | 7.939899 | 6.06E-05 | 0.001833 | 2.258726 | 0.538647 | 0.741974 | -0.20333 | 9 | 96628794 | R | II | | IGR | opensea | IGR-opense | rs5634106 | 30;1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0575676 | 0.200308 | 0.35796 | 7.939665 | 6.07E-05 | 0.001833 | 2.258513 | 0.257806 | 0.458114 | -0.20031 | 21 | 39531070 | F | II | | IGR | opensea | IGR-opense | | rs7511265 | 47 |
| cg0802855 | 0.248235 | 0.548699 | 7.938433 | 6.07E-05 | 0.001834 | 2.257389 | 0.424581 | 0.672816 | -0.24824 | 13 | 28588650 | F | II | FLT3 | Body | opensea | Body-opens | | | |
| cg1188819 | 0.24286 | 0.413706 | 7.937992 | 6.07E-05 | 0.001835 | 2.256986 | 0.292275 | 0.535136 | -0.24286 | 2 | 1.75E+08 | F | II | | IGR | shore | IGR-shore | chr2:1748 | rs5606579 | 17 |
| cg0414816 | 0.218247 | 0.574299 | 7.936888 | 6.08E-05 | 0.001835 | 2.255979 | 0.465176 | 0.683423 | -0.21825 | 10 | 65442289 | F | II | | IGR | opensea | IGR-opense | | rs1817340 | 0;1 |
| cg1840297 | 0.215392 | 0.637939 | 7.936008 | 6.08E-05 | 0.001836 | 2.255176 | 0.530243 | 0.745636 | -0.21539 | 4 | 37717801 | R | II | | IGR | opensea | IGR-opense | | rs5563310 | 2 |
| cg0754633 | 0.227145 | 0.482077 | 7.935942 | 6.09E-05 | 0.001836 | 2.255115 | 0.368504 | 0.595649 | -0.22714 | 3 | 1.53E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1525 | rs5545593 | 1;33 |
| cg0842344 | 0.214911 | 0.527619 | 7.935779 | 6.09E-05 | 0.001837 | 2.254968 | 0.420163 | 0.635075 | -0.21491 | 20 | 56621504 | F | II | | IGR | opensea | IGR-opense | | rs1436762 | 1;44 |
| cg0546244 | 0.247587 | 0.44593 | 7.935036 | 6.09E-05 | 0.001837 | 2.254289 | 0.322137 | 0.569724 | -0.24759 | 16 | 77574072 | F | II | | IGR | opensea | IGR-opense | | rs1919234 | 7 |
| cg1966095 | 0.22668 | 0.516689 | 7.934651 | 6.09E-05 | 0.001837 | 2.253938 | 0.403349 | 0.630029 | -0.22668 | 20 | 12951544 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0897395 | 0.216933 | 0.437497 | 7.934062 | 6.1E-05 | 0.001838 | 2.2534 | 0.32903 | 0.545963 | -0.21693 | 17 | 64510584 | R | II | PRKCA | Body | opensea | Body-opens | | | |
| cg0455450 | 0.20277 | 0.573299 | 7.933813 | 6.1E-05 | 0.001838 | 2.253172 | 0.471914 | 0.674683 | -0.20277 | 11 | 1.01E+08 | F | II | TRPC6 | 3'UTR | opensea | 3'UTR-open | | rs5394479 | 0;35;40 |
| cg1713183 | 0.219044 | 0.5296 | 7.933773 | 6.1E-05 | 0.001838 | 2.253136 | 0.420078 | 0.639122 | -0.21904 | 12 | 66251661 | R | II | HMGA2 | Body | opensea | Body-opens | | rs5764788 | 1 |
| cg2703109 | 0.218355 | 0.566064 | 7.929661 | 6.12E-05 | 0.001841 | 2.249382 | 0.456887 | 0.675242 | -0.21836 | 8 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5318907 | 2 |
| cg0908919 | 0.201136 | 0.67621 | 7.929646 | 6.12E-05 | 0.001841 | 2.249368 | 0.575642 | 0.776779 | -0.20114 | 3 | 28476626 | F | II | ZCWPW2 | Body | opensea | Body-opens | | rs1415961 | 32;35;47 |
| cg2103946 | 0.232832 | 0.565483 | 7.927881 | 6.13E-05 | 0.001843 | 2.247756 | 0.449067 | 0.6819 | -0.23283 | 2 | 1.44E+08 | F | II | KYNU | Body | opensea | Body-opens | | | |
| cg2109709 | 0.231318 | 0.495296 | 7.927879 | 6.13E-05 | 0.001843 | 2.247754 | 0.379638 | 0.610955 | -0.23132 | 5 | 1.19E+08 | R | II | TNFAIP8 | Body | shelf | Body-shelf | chr5:1186 | rs1896012 | 48;46;2 |
| cg0295569 | 0.251125 | 0.536131 | 7.92681 | 6.13E-05 | 0.001844 | 2.246777 | 0.410568 | 0.661693 | -0.25112 | 10 | 33443170 | R | II | | IGR | opensea | IGR-opense | | rs1181739 | 10 |
| cg1608276 | 0.207364 | 0.638198 | 7.925675 | 6.14E-05 | 0.001845 | 2.245741 | 0.534516 | 0.74188 | -0.20736 | 3 | 1.94E+08 | F | II | LOC64732 | Body | opensea | Body-opens | | rs7603606 | 1;8;16 |
| cg0290294 | 0.208003 | 0.462591 | 7.924892 | 6.14E-05 | 0.001845 | 2.245025 | 0.358589 | 0.566592 | -0.208 | 20 | 57617168 | F | II | SLMO2 | Body | shore | Body-shore | chr20:576 | rs1142706 | 28;49 |
| cg2356486 | 0.221464 | 0.48487 | 7.924201 | 6.15E-05 | 0.001846 | 2.244393 | 0.374138 | 0.595602 | -0.22146 | 2 | 2.28E+08 | R | II | | IGR | opensea | IGR-opense | | rs5664442 | 51 |
| cg0714228 | 0.200293 | 0.687211 | 7.924193 | 6.15E-05 | 0.001846 | 2.244386 | 0.587065 | 0.787358 | -0.20029 | 9 | 1.27E+08 | F | II | NR6A1 | Body | opensea | Body-opens | | rs1428066 | 1;41 |
| cg2678570 | 0.204366 | 0.515818 | 7.923182 | 6.15E-05 | 0.001847 | 2.243462 | 0.413635 | 0.618001 | -0.20437 | 11 | 1.19E+08 | F | II | FOXR1 | Body | shelf | Body-shelf | chr11:1188 | rs1477760 | 32;45 |
| cg2050645 | 0.2353 | 0.549439 | 7.921083 | 6.16E-05 | 0.001848 | 2.241544 | 0.431789 | 0.667089 | -0.2353 | 14 | 21183181 | F | II | | IGR | opensea | IGR-opense | | rs1175952 | 1 |
| cg0552636 | 0.214229 | 0.610282 | 7.919507 | 6.17E-05 | 0.00185 | 2.240103 | 0.503168 | 0.717397 | -0.21423 | 3 | 1.29E+08 | R | II | IFT122 | Body | opensea | Body-opens | | rs1130678 | 6;2;1 |
| cg2345770 | 0.211987 | 0.549299 | 7.917863 | 6.18E-05 | 0.001852 | 2.2386 | 0.443305 | 0.655293 | -0.21199 | 8 | 1.07E+08 | R | II | ZFPM2-AS1 | Body | opensea | Body-opens | | | |
| cg2648973 | 0.25852 | 0.604792 | 7.917576 | 6.18E-05 | 0.001852 | 2.238337 | 0.475532 | 0.734052 | -0.25852 | 10 | 3930603 | R | II | | IGR | opensea | IGR-opense | | rs5466613 | 45;34;28 |
| cg2692691 | 0.206608 | 0.482011 | 7.917386 | 6.18E-05 | 0.001852 | 2.238163 | 0.378707 | 0.585315 | -0.20661 | 3 | 55709664 | R | II | ERC2 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0164152 | 0.219577 | 0.529275 | 7.917238 | 6.18E-05 | 0.001852 | 2.238028 | 0.419487 | 0.639064 | -0.21958 | 14 | 37917543 | F | II | MIPOL1 | Body | opensea | Body-opens | | rs5417813 | 21;26 |
| cg1994732 | 0.208693 | 0.425857 | 7.916946 | 6.19E-05 | 0.001852 | 2.237761 | 0.321511 | 0.530204 | -0.20869 | 12 | 1.3E+08 | R | II | LOC28335 | TSS1500 | opensea | TSS1500-op | | rs1123974 | 50 |
| cg1998966 | 0.21041 | 0.496632 | 7.916491 | 6.19E-05 | 0.001852 | 2.237345 | 0.391427 | 0.601837 | -0.21041 | 7 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs1436637 | 20;1 |
| cg1939152 | 0.209263 | 0.530335 | 7.916428 | 6.19E-05 | 0.001852 | 2.237287 | 0.425703 | 0.634966 | -0.20926 | 8 | 28173732 | F | II | PNOC | TSS1500 | opensea | TSS1500-op | | rs5511833 | 0;19 |
| cg2351333 | 0.236013 | 0.458731 | 7.914274 | 6.2E-05 | 0.001854 | 2.235316 | 0.340724 | 0.576738 | -0.23601 | 10 | 24813690 | R | II | KIAA1217 | ExonBnd | opensea | ExonBnd-op | | rs2297327 | 44;2;1 |
| cg1163676 | 0.211438 | 0.546899 | 7.914263 | 6.2E-05 | 0.001854 | 2.235306 | 0.44118 | 0.652618 | -0.21144 | 7 | 11747365 | R | II | THSD7A | Body | opensea | Body-opens | | rs7329459 | 48;47;27;8;2 |
| cg0432782 | 0.209201 | 0.611225 | 7.914124 | 6.2E-05 | 0.001854 | 2.23518 | 0.506625 | 0.715826 | -0.2092 | 3 | 37854791 | F | II | ITGA9-AS1 | Body | opensea | Body-opens | | rs5503852 | 0;37;40 |
| cg0511897 | 0.232378 | 0.643851 | 7.913995 | 6.2E-05 | 0.001854 | 2.235061 | 0.527662 | 0.76004 | -0.23238 | 14 | 55361901 | F | II | GCH1 | Body | opensea | Body-opens | | rs5297148 | 1 |
| cg0750443 | 0.21847 | 0.433451 | 7.912044 | 6.21E-05 | 0.001856 | 2.233276 | 0.324216 | 0.542686 | -0.21847 | 8 | 50081281 | F | II | | IGR | opensea | IGR-opense | | rs5275459 | 1 |
| cg1972059 | 0.201107 | 0.566693 | 7.911804 | 6.21E-05 | 0.001856 | 2.233057 | 0.466139 | 0.667246 | -0.20111 | 10 | 84649719 | F | II | NRG3 | Body | opensea | Body-opens | | | |
| cg2569891 | 0.231715 | 0.469183 | 7.910483 | 6.22E-05 | 0.001857 | 2.231848 | 0.353326 | 0.58504 | -0.23171 | 6 | 47639679 | F | II | ADGRF2 | 5'UTR | opensea | 5'UTR-open | | rs5284163 | 38 |
| cg1611337 | 0.264005 | 0.55292 | 7.910304 | 6.22E-05 | 0.001857 | 2.231684 | 0.420917 | 0.684922 | -0.264 | 5 | 66040195 | R | II | MAST4 | Body | opensea | Body-opens | | rs5369264 | 2 |
| cg1900330 | 0.236821 | 0.424401 | 7.909669 | 6.23E-05 | 0.001858 | 2.231102 | 0.305991 | 0.542812 | -0.23682 | 11 | 1.15E+08 | R | II | CADM1 | Body | opensea | Body-opens | | rs7357214 | 21;19;1 |
| cg2429802 | 0.201354 | 0.709545 | 7.907349 | 6.24E-05 | 0.00186 | 2.228979 | 0.608868 | 0.810222 | -0.20135 | 6 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | rs5420932 | 7 |
| cg0584896 | 0.226963 | 0.583198 | 7.903871 | 6.26E-05 | 0.001863 | 2.225794 | 0.469716 | 0.696679 | -0.22696 | 2 | 1.74E+08 | F | II | MLK7-AS1 | Body | opensea | Body-opens | | rs1397590 | 0;1;14;15;18;37 |
| cg1807107 | 0.23033 | 0.517282 | 7.903727 | 6.26E-05 | 0.001864 | 2.225662 | 0.402117 | 0.632447 | -0.23033 | 16 | 78930307 | R | II | WWOX | Body | opensea | Body-opens | | rs5293225 | 45;44;37;22;17;11;2 |
| cg0808431 | 0.244543 | 0.684271 | 7.902722 | 6.26E-05 | 0.001864 | 2.224741 | 0.562 | 0.806543 | -0.24454 | 8 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs5338644 | 48;11;4 |
| cg0621098 | 0.216567 | 0.593594 | 7.902237 | 6.27E-05 | 0.001865 | 2.224297 | 0.48531 | 0.701878 | -0.21657 | 3 | 57440587 | R | II | DNAH12 | Body | opensea | Body-opens | | | |
| cg2689901 | 0.208322 | 0.442257 | 7.901896 | 6.27E-05 | 0.001865 | 2.223984 | 0.338096 | 0.546418 | -0.20832 | 5 | 86042549 | R | II | | IGR | opensea | IGR-opense | | rs5764025 | 37;4 |
| cg1247731 | 0.222546 | 0.591735 | 7.901046 | 6.27E-05 | 0.001866 | 2.223206 | 0.480462 | 0.703009 | -0.22255 | 2 | 9452254 | R | II | ASAP2 | Body | opensea | Body-opens | | rs5288289 | 43;2 |
| cg1780415 | 0.206302 | 0.586958 | 7.900785 | 6.27E-05 | 0.001866 | 2.222966 | 0.483808 | 0.690109 | -0.2063 | 11 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0170819 | 0.201053 | 0.523448 | 7.900102 | 6.28E-05 | 0.001866 | 2.22234 | 0.422921 | 0.623974 | -0.20105 | 9 | 71876783 | F | II | | IGR | opensea | IGR-opense | | rs5525364 | 0;22 |
| cg1217208 | 0.211123 | 0.650319 | 7.900003 | 6.28E-05 | 0.001866 | 2.22225 | 0.544757 | 0.75588 | -0.21112 | 6 | 1.36E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2640007 | 0.221423 | 0.332685 | 7.899831 | 6.28E-05 | 0.001866 | 2.222093 | 0.221973 | 0.443396 | -0.22142 | 10 | 96996533 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0943325 | 0.226415 | 0.414401 | 7.898515 | 6.29E-05 | 0.001868 | 2.220886 | 0.301193 | 0.527608 | -0.22641 | 6 | 1.44E+08 | R | II | LOC28574 | Body | opensea | Body-opens | | rs1846300 | 2 |
| cg0419585 | 0.210281 | 0.669803 | 7.897821 | 6.29E-05 | 0.001868 | 2.22025 | 0.564662 | 0.774944 | -0.21028 | 16 | 8839233 | F | II | ABAT | Body | opensea | Body-opens | | | |
| cg1762304 | 0.224083 | 0.61402 | 7.897588 | 6.29E-05 | 0.001868 | 2.220037 | 0.501979 | 0.726062 | -0.22408 | 1 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1184341 | 0.203881 | 0.483915 | 7.89752 | 6.29E-05 | 0.001868 | 2.219975 | 0.381974 | 0.585856 | -0.20388 | 7 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | rs1148739 | 36;20;12 |
| cg2250277 | 0.241056 | 0.584556 | 7.896015 | 6.3E-05 | 0.00187 | 2.218595 | 0.464028 | 0.705084 | -0.24106 | 14 | 24540516 | R | II | CPNE6 | TSS200 | opensea | TSS200-ope | | | |
| cg2745261 | 0.217552 | 0.444074 | 7.895465 | 6.3E-05 | 0.00187 | 2.218091 | 0.335298 | 0.552851 | -0.21755 | 5 | 1.42E+08 | F | II | ARHGAP26 | Body | opensea | Body-opens | | rs1196015 | 43 |
| cg0870181 | 0.238709 | 0.63898 | 7.89515 | 6.3E-05 | 0.00187 | 2.217802 | 0.519626 | 0.758334 | -0.23871 | 8 | 95278142 | R | II | | IGR | shelf | IGR-shelf | chr8:9527 | rs1457100 | 32 |
| cg2574624 | 0.235168 | 0.591208 | 7.894877 | 6.31E-05 | 0.00187 | 2.217552 | 0.473624 | 0.708792 | -0.23517 | 7 | 36072104 | R | II | | IGR | opensea | IGR-opense | | rs5633585 | 41 |
| cg0662299 | 0.207573 | 0.631443 | 7.893023 | 6.32E-05 | 0.001872 | 2.215852 | 0.527656 | 0.735229 | -0.20757 | 6 | 34640204 | R | II | C6orf106 | Body | opensea | Body-opens | | | |
| cg0320677 | 0.205965 | 0.537174 | 7.892163 | 6.32E-05 | 0.001872 | 2.215063 | 0.434191 | 0.640156 | -0.20597 | 3 | 1.18E+08 | F | II | | IGR | opensea | IGR-opense | | rs7295159 | 0;16 |
| cg0233912 | 0.204544 | 0.558812 | 7.890519 | 6.33E-05 | 0.001874 | 2.213555 | 0.45654 | 0.661084 | -0.20454 | 17 | 54245140 | R | II | ANKFN1 | Body | opensea | Body-opens | | rs1394986 | 1 |
| cg0740425 | 0.200695 | 0.577884 | 7.88814 | 6.34E-05 | 0.001875 | 2.211373 | 0.477536 | 0.678231 | -0.2007 | 4 | 1.84E+08 | R | II | WWC2-AS1 | TSS200 | opensea | TSS200-ope | | | |
| cg2607942 | 0.221308 | 0.64603 | 7.887808 | 6.35E-05 | 0.001875 | 2.211068 | 0.535376 | 0.756684 | -0.22131 | 11 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs1508921 | 0;19 |
| cg1258485 | 0.209148 | 0.440252 | 7.887621 | 6.35E-05 | 0.001875 | 2.210896 | 0.335678 | 0.544826 | -0.20915 | 11 | 1.1E+08 | F | II | FDX1 | Body | opensea | Body-opens | | | |
| cg0082630 | 0.247587 | 0.465552 | 7.8874 | 6.35E-05 | 0.001875 | 2.210693 | 0.341759 | 0.589346 | -0.24759 | 18 | 12998806 | R | II | CEP192 | 5'UTR | opensea | 5'UTR-open | | rs5427516 | 47;46;20;1 |
| cg1544904 | 0.212056 | 0.657412 | 7.886723 | 6.35E-05 | 0.001876 | 2.210072 | 0.551384 | 0.76344 | -0.21206 | 3 | 69812125 | R | II | MITF | TSS1500 | opensea | TSS1500-op | | rs1476000 | 2 |
| cg1850882 | 0.256851 | 0.465201 | 7.885796 | 6.36E-05 | 0.001876 | 2.209222 | 0.336775 | 0.593626 | -0.25685 | 4 | 76440715 | F | II | RCHY1 | TSS1500 | shore | TSS1500-sh | chr4:7643 | rs1434152 | 13;19 |
| cg1806517 | 0.201798 | 0.603065 | 7.885791 | 6.36E-05 | 0.001876 | 2.209217 | 0.502166 | 0.703964 | -0.2018 | 15 | 63116127 | F | II | TLN2 | Body | opensea | Body-opens | | rs1137415 | 1 |
| cg0850089 | 0.22736 | 0.636751 | 7.885741 | 6.36E-05 | 0.001876 | 2.209171 | 0.523071 | 0.750431 | -0.22736 | 2 | 1.71E+08 | F | II | MYO3B | Body | opensea | Body-opens | | rs7789980 | 1 |
| cg2680932 | 0.23686 | 0.628965 | 7.883981 | 6.37E-05 | 0.001878 | 2.207556 | 0.510535 | 0.747395 | -0.23686 | 18 | 23483574 | F | II | | IGR | opensea | IGR-opense | | rs1919463 | 0;21;46 |
| cg1701145 | 0.205628 | 0.578955 | 7.883585 | 6.37E-05 | 0.001878 | 2.207192 | 0.476141 | 0.681769 | -0.20563 | 1 | 81537650 | R | II | | IGR | opensea | IGR-opense | | rs5335451 | 9;1 |
| cg2474245 | 0.201671 | 0.629768 | 7.883528 | 6.37E-05 | 0.001878 | 2.20714 | 0.528933 | 0.730604 | -0.20167 | 11 | 1.14E+08 | R | II | ZBTB16 | Body | opensea | Body-opens | | rs5715083 | 38;16;13;11;1 |
| cg0663655 | 0.203709 | 0.550366 | 7.883204 | 6.37E-05 | 0.001878 | 2.206842 | 0.448511 | 0.65222 | -0.20371 | 19 | 14878812 | R | II | ADGRE2 | Body | opensea | Body-opens | | rs1927169 | 51 |
| cg2687011 | 0.207901 | 0.65178 | 7.883036 | 6.37E-05 | 0.001878 | 2.206688 | 0.547829 | 0.755731 | -0.2079 | 3 | 3687430 | R | II | | IGR | opensea | IGR-opense | | rs1263707 | 51 |
| cg0498503 | 0.227856 | 0.601482 | 7.882964 | 6.37E-05 | 0.001878 | 2.206622 | 0.487554 | 0.71541 | -0.22786 | 5 | 1.25E+08 | R | II | | IGR | opensea | IGR-opense | | rs1916231 | 34;25;2 |
| cg1775768 | 0.205667 | 0.69104 | 7.88244 | 6.37E-05 | 0.001879 | 2.20614 | 0.588206 | 0.793873 | -0.20567 | 18 | 45506924 | R | II | | IGR | opensea | IGR-opense | | rs1245483 | 36 |
| cg0113021 | 0.220729 | 0.647311 | 7.882392 | 6.38E-05 | 0.001879 | 2.206097 | 0.536947 | 0.757676 | -0.22073 | 4 | 74481549 | R | II | RASSF6 | 5'UTR | opensea | 5'UTR-open | | rs5475403 | 44;2;1 |
| cg0372673 | 0.213273 | 0.584923 | 7.882043 | 6.38E-05 | 0.001879 | 2.205777 | 0.478286 | 0.691559 | -0.21327 | 5 | 1.68E+08 | F | II | SLIT3 | Body | opensea | Body-opens | | rs1824963 | 1;19 |
| cg1171816 | 0.207012 | 0.444042 | 7.881326 | 6.38E-05 | 0.00188 | 2.205118 | 0.340536 | 0.547548 | -0.20701 | 15 | 70485495 | F | II | | IGR | opensea | IGR-opense | | rs7700552 | 46 |
| cg0621623 | 0.20783 | 0.594721 | 7.879584 | 6.39E-05 | 0.001882 | 2.203518 | 0.490806 | 0.698636 | -0.20783 | 10 | 28272751 | R | II | ARMC4 | ExonBnd | opensea | ExonBnd-op | | rs5459800 | 49;39;33;24 |
| cg0466162 | 0.203348 | 0.654758 | 7.879269 | 6.39E-05 | 0.001882 | 2.203229 | 0.553083 | 0.756432 | -0.20335 | 12 | 28174838 | R | II | | IGR | opensea | IGR-opense | | rs5546425 | 40;23 |
| cg1659491 | 0.226902 | 0.637214 | 7.878746 | 6.4E-05 | 0.001882 | 2.202749 | 0.523763 | 0.750664 | -0.2269 | 12 | 5607455 | R | II | | IGR | shelf | IGR-shelf | chr12:560 | rs5483925 | 47;1 |
| cg1845547 | 0.242 | 0.580625 | 7.878681 | 6.4E-05 | 0.001882 | 2.202688 | 0.459625 | 0.701625 | -0.242 | 17 | 17311855 | R | II | | IGR | opensea | IGR-opense | | rs5826278 | 49;40;14 |
| cg2577236 | 0.217584 | 0.612574 | 7.878646 | 6.4E-05 | 0.001882 | 2.202657 | 0.503782 | 0.721366 | -0.21758 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs5517511 | 1;28 |
| cg1609903 | 0.213896 | 0.646078 | 7.87844 | 6.4E-05 | 0.001883 | 2.202468 | 0.53913 | 0.753026 | -0.2139 | 21 | 32832415 | F | II | TIAM1 | 5'UTR | opensea | 5'UTR-open | | rs5561815 | 44 |
| cg0202605 | 0.208833 | 0.56319 | 7.877859 | 6.4E-05 | 0.001883 | 2.201934 | 0.458773 | 0.667606 | -0.20883 | 4 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1859618 | 5;2;1 |
| cg1617177 | 0.232643 | 0.629724 | 7.876021 | 6.41E-05 | 0.001885 | 2.200245 | 0.513402 | 0.746045 | -0.23264 | 3 | 34187750 | F | II | | IGR | opensea | IGR-opense | | rs1425645 | 33;44 |
| cg1843436 | 0.213799 | 0.643619 | 7.875641 | 6.41E-05 | 0.001885 | 2.199896 | 0.53672 | 0.750518 | -0.2138 | 6 | 45891455 | F | I | CLIC5 | Body | opensea | Body-opens | | rs3737965 | 48 |
| cg0232918 | 0.200503 | 0.446035 | 7.875638 | 6.41E-05 | 0.001885 | 2.199893 | 0.345783 | 0.546286 | -0.2005 | 10 | 96996226 | R | II | | IGR | opensea | IGR-opense | | rs5620624 | 51;26;13 |
| cg0153439 | 0.208235 | 0.593968 | 7.8753 | 6.41E-05 | 0.001885 | 2.199583 | 0.489851 | 0.698086 | -0.20823 | 14 | 23265401 | F | II | SLC7A7 | Body | opensea | Body-opens | | rs1136785 | 4 |
| cg2236845 | 0.204039 | 0.549362 | 7.875223 | 6.42E-05 | 0.001885 | 2.199512 | 0.447343 | 0.651382 | -0.20404 | 16 | 19528985 | R | II | GDE1 | Body | shelf | Body-shelf | chr16:195 | rs5445670 | 38;11;2;1 |
| cg0968888 | 0.202725 | 0.64993 | 7.874862 | 6.42E-05 | 0.001885 | 2.19918 | 0.548567 | 0.751292 | -0.20273 | 2 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0087672 | 0.218515 | 0.656659 | 7.874037 | 6.42E-05 | 0.001886 | 2.198422 | 0.547402 | 0.765917 | -0.21852 | 5 | 10324567 | F | II | | IGR | opensea | IGR-opense | | rs5765551 | 0 |
| cg0845007 | 0.205501 | 0.586278 | 7.87359 | 6.42E-05 | 0.001886 | 2.198011 | 0.483528 | 0.689029 | -0.2055 | 15 | 81633740 | F | II | TMC3 | ExonBnd | opensea | ExonBnd-op | | | |
| cg0392093 | 0.289445 | 0.492725 | 7.871832 | 6.43E-05 | 0.001887 | 2.196396 | 0.348002 | 0.637447 | -0.28945 | 2 | 55538851 | F | II | CCDC88A | Body | opensea | Body-opens | | | |
| cg0921715 | 0.220654 | 0.493623 | 7.871778 | 6.43E-05 | 0.001887 | 2.196346 | 0.383296 | 0.60395 | -0.22065 | 10 | 97624891 | F | II | ENTPD1 | Body | opensea | Body-opens | | rs5341077 | 5;21 |
| cg2418351 | 0.219984 | 0.611632 | 7.870854 | 6.44E-05 | 0.001888 | 2.195497 | 0.50164 | 0.721625 | -0.21998 | 14 | 51863868 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2025039 | 0.215126 | 0.521506 | 7.870819 | 6.44E-05 | 0.001888 | 2.195464 | 0.413943 | 0.629069 | -0.21513 | 14 | 92807379 | R | II | SLC24A4 | Body | opensea | Body-opens | | rs1116005 | 51;45;2 |
| cg2743411 | 0.219707 | 0.508092 | 7.869522 | 6.45E-05 | 0.001889 | 2.194272 | 0.398239 | 0.617945 | -0.21971 | 12 | 66007516 | F | II | LOC10050 | Body | opensea | Body-opens | | rs1477462 | 2;23 |
| cg0609451 | 0.210917 | 0.614772 | 7.86891 | 6.45E-05 | 0.00189 | 2.193709 | 0.509313 | 0.72023 | -0.21092 | 10 | 1.24E+08 | R | II | DMBT1 | Body | shelf | Body-shelf | chr10:124 | rs1456131 | 30;16 |
| cg0097523 | 0.212527 | 0.536851 | 7.866808 | 6.46E-05 | 0.001892 | 2.191776 | 0.430587 | 0.643115 | -0.21253 | 17 | 54437076 | R | II | ANKFN1 | Body | opensea | Body-opens | | rs5487527 | 5 |
| cg1723595 | 0.205931 | 0.601336 | 7.86667 | 6.46E-05 | 0.001892 | 2.191649 | 0.498371 | 0.704302 | -0.20593 | 21 | 36931515 | R | II | LOC10050 | Body | opensea | Body-opens | | rs1844044 | 46;34;9;1 |
| cg2692017 | 0.240065 | 0.508739 | 7.866152 | 6.47E-05 | 0.001892 | 2.191172 | 0.388706 | 0.628772 | -0.24007 | 8 | 16197182 | R | II | | IGR | opensea | IGR-opense | | rs5686888 | 42;38;34;9;1 |
| cg1983940 | 0.216996 | 0.544169 | 7.865542 | 6.47E-05 | 0.001893 | 2.190612 | 0.435671 | 0.652667 | -0.217 | 8 | 1.37E+08 | F | II | KHDRBS3 | Body | opensea | Body-opens | | rs5282668 | 0;30 |
| cg0957545 | 0.20498 | 0.54849 | 7.865492 | 6.47E-05 | 0.001893 | 2.190565 | 0.446 | 0.65098 | -0.20498 | 5 | 87546981 | F | II | TMEM161B | Body | opensea | Body-opens | | rs5649259 | 1;16 |
| cg2169253 | 0.222529 | 0.347906 | 7.865256 | 6.47E-05 | 0.001893 | 2.190349 | 0.236642 | 0.459171 | -0.22253 | 3 | 1.43E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:1426 | rs7386626 | 35 |
| cg2524971 | 0.232102 | 0.516234 | 7.864852 | 6.47E-05 | 0.001893 | 2.189976 | 0.400183 | 0.632285 | -0.2321 | 4 | 1.77E+08 | R | II | WDR17 | Body | opensea | Body-opens | | rs5697697 | 37;19;1 |
| cg1254757 | 0.223557 | 0.440905 | 7.864775 | 6.47E-05 | 0.001893 | 2.189906 | 0.329126 | 0.552683 | -0.22356 | 10 | 6130325 | R | II | RBM17 | TSS1500 | shore | TSS1500-sh | chr10:613 | | |
| cg0745409 | 0.217917 | 0.504626 | 7.863817 | 6.48E-05 | 0.001894 | 2.189025 | 0.395667 | 0.613584 | -0.21792 | 13 | 52435964 | F | II | CCDC70 | TSS200 | opensea | TSS200-ope | | | |
| cg0925107 | 0.209128 | 0.639832 | 7.863607 | 6.48E-05 | 0.001894 | 2.188831 | 0.535267 | 0.744396 | -0.20913 | 15 | 59461599 | R | II | MYO1E | Body | opensea | Body-opens | | rs5660405 | 48;35;30 |
| cg0745020 | 0.2082 | 0.604948 | 7.86304 | 6.48E-05 | 0.001894 | 2.188309 | 0.500848 | 0.709048 | -0.2082 | 8 | 12827559 | F | II | KIAA1456 | 5'UTR | opensea | 5'UTR-open | | rs5431077 | 25;33 |
| cg0746129 | 0.203764 | 0.455156 | 7.861624 | 6.49E-05 | 0.001895 | 2.187007 | 0.353274 | 0.557038 | -0.20376 | 13 | 1.1E+08 | F | II | MYO16 | Body | opensea | Body-opens | | rs2014831 | 1;35 |
| cg0712630 | 0.206382 | 0.5411 | 7.861519 | 6.49E-05 | 0.001895 | 2.18691 | 0.437909 | 0.644291 | -0.20638 | 3 | 1.78E+08 | R | II | LINC01014 | Body | opensea | Body-opens | | rs5819265 | 42;26;25;18;1 |
| cg0196127 | 0.202751 | 0.650118 | 7.860254 | 6.5E-05 | 0.001896 | 2.185746 | 0.548743 | 0.751493 | -0.20275 | 1 | 2.42E+08 | F | II | OPN3 | Body | opensea | Body-opens | | rs3689539 | 11;32 |
| cg1337049 | 0.218425 | 0.579298 | 7.860188 | 6.5E-05 | 0.001896 | 2.185685 | 0.470085 | 0.68851 | -0.21842 | 19 | 39148693 | R | II | ACTN4 | Body | opensea | Body-opens | | rs5371870 | 24 |
| cg1355266 | 0.20424 | 0.387608 | 7.860162 | 6.5E-05 | 0.001896 | 2.185661 | 0.285488 | 0.489728 | -0.20424 | 5 | 1.67E+08 | R | II | TENM2 | Body | opensea | Body-opens | | rs1930371 | 47;46 |
| cg0162757 | 0.205064 | 0.657534 | 7.859067 | 6.51E-05 | 0.001897 | 2.184653 | 0.555002 | 0.760066 | -0.20506 | 3 | 12305467 | F | II | | IGR | opensea | IGR-opense | | rs5681525 | 36;40 |
| cg1960470 | 0.247173 | 0.479515 | 7.858914 | 6.51E-05 | 0.001897 | 2.184512 | 0.355928 | 0.603102 | -0.24717 | 4 | 16261642 | F | I | | IGR | shelf | IGR-shelf | chr4:1625 | rs1808403 | 10;21;34 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1141778 | 0.212031 | 0.556335 | 7.858178 | 6.51E-05 | 0.001898 | 2.183834 | 0.45032 | 0.662351 | -0.21203 | 1 | 2.42E+08 | F | II | OPN3 | Body | opensea | Body-opens | rs5448102 | 1;24 | | | | |
| cg1171218 | 0.208824 | 0.507057 | 7.858169 | 6.51E-05 | 0.001898 | 2.183826 | 0.402645 | 0.611469 | -0.20882 | 1 | 10368286 | F | II | KIF1B | 3'UTR | opensea | 3'UTR-open | rs1507172 | 0;33 | | | | |
| cg1592265 | 0.200887 | 0.671315 | 7.85677 | 6.52E-05 | 0.001899 | 2.182538 | 0.570871 | 0.771758 | -0.20089 | 6 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0679853 | 0.201023 | 0.650977 | 7.85669 | 6.52E-05 | 0.001899 | 2.182464 | 0.550466 | 0.751489 | -0.20102 | 11 | 47961100 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0882507 | 0.220687 | 0.528558 | 7.855993 | 6.52E-05 | 0.001899 | 2.181823 | 0.418214 | 0.638901 | -0.22069 | 16 | 3934709 | R | II | | IGR | shelf | IGR-shelf | chr16:393( | | | | | |
| cg2423602 | 0.211828 | 0.572519 | 7.855976 | 6.52E-05 | 0.001899 | 2.181807 | 0.466605 | 0.678432 | -0.21183 | 6 | 874435 | R | II | LOC10192 | Body | opensea | Body-opens | rs1889871 | 16;4;1 | | | | |
| cg0411438 | 0.276876 | 0.594069 | 7.855257 | 6.53E-05 | 0.0019 | 2.181145 | 0.455631 | 0.732507 | -0.27688 | 1 | 2.29E+08 | F | II | | IGR | opensea | IGR-opense | rs5284557 | 1;41 | | | | |
| cg1212364 | 0.203643 | 0.682783 | 7.853974 | 6.54E-05 | 0.001901 | 2.179963 | 0.580961 | 0.784605 | -0.20364 | 4 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0162812 | 0.200979 | 0.579815 | 7.852668 | 6.54E-05 | 0.001902 | 2.17876 | 0.479325 | 0.680304 | -0.20098 | 16 | 15647369 | R | II | C16orf45 | Body | opensea | Body-opens | rs5513465 | 48;21;1 | | | | |
| cg2153607 | 0.207847 | 0.533366 | 7.85192 | 6.55E-05 | 0.001903 | 2.178071 | 0.429443 | 0.637289 | -0.20785 | 7 | 42105481 | R | II | GLI3 | Body | opensea | Body-opens | rs1445861 | 2;1 | | | | |
| cg1965389 | 0.200216 | 0.6123 | 7.851874 | 6.55E-05 | 0.001903 | 2.178029 | 0.512192 | 0.712409 | -0.20022 | 15 | 55547488 | F | II | RAB27A | 5'UTR | opensea | 5'UTR-open | rs1844333 | 0;45 | | | | |
| cg2496511 | 0.214381 | 0.652148 | 7.85137 | 6.55E-05 | 0.001903 | 2.177564 | 0.544958 | 0.759339 | -0.21438 | 11 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | rs1509119 | 43;2 | | | | |
| cg0356458 | 0.204981 | 0.675742 | 7.850732 | 6.55E-05 | 0.001903 | 2.176977 | 0.573252 | 0.778233 | -0.20498 | 10 | 49693340 | R | II | ARHGAP22 | Body | opensea | Body-opens | rs5815286 | 47;26;17;13 | | | | |
| cg0038552 | 0.200283 | 0.678866 | 7.850646 | 6.55E-05 | 0.001904 | 2.176898 | 0.578725 | 0.779008 | -0.20028 | 13 | 67209742 | F | II | PCDH9 | Body | opensea | Body-opens | rs5663277 | 19 | | | | |
| cg2440142 | 0.203225 | 0.621142 | 7.84954 | 6.56E-05 | 0.001905 | 2.175878 | 0.51953 | 0.722755 | -0.20323 | 5 | 77014952 | R | II | TBCA | Body | opensea | Body-opens | rs5481307 | 1 | | | | |
| cg0085205 | 0.216999 | 0.575622 | 7.849472 | 6.56E-05 | 0.001905 | 2.175816 | 0.467123 | 0.684122 | -0.217 | 1 | 2.14E+08 | F | II | | IGR | opensea | IGR-opense | rs5710811 | 8 | | | | |
| cg1043256 | 0.264889 | 0.556131 | 7.849464 | 6.56E-05 | 0.001905 | 2.175809 | 0.423687 | 0.688576 | -0.26489 | 17 | 46709858 | F | II | MIR196A1 | Body | shore | Body-shore | chr17:467 | rs1864495 | 1;17;41 | | | |
| cg2399100 | 0.202182 | 0.57852 | 7.849286 | 6.56E-05 | 0.001905 | 2.175645 | 0.477429 | 0.679611 | -0.20218 | 9 | 1.36E+08 | R | II | FAM163B | TSS1500 | shore | TSS1500-sh | chr9:1364 | | | | | |
| cg0129702 | 0.239326 | 0.419625 | 7.849153 | 6.56E-05 | 0.001905 | 2.175522 | 0.299962 | 0.539288 | -0.23933 | 13 | 1.06E+08 | R | II | DAOA | TSS1500 | opensea | TSS1500-op | rs5646619 | 38;17;2 | | | | |
| cg1789762 | 0.236318 | 0.523278 | 7.845285 | 6.59E-05 | 0.001908 | 2.171957 | 0.405119 | 0.641437 | -0.23632 | 17 | 9292737 | F | II | STX8 | Body | opensea | Body-opens | rs1446812 | 0;41;44 | | | | |
| cg2084926 | 0.226369 | 0.485825 | 7.845161 | 6.59E-05 | 0.001908 | 2.171842 | 0.37264 | 0.599009 | -0.22637 | 13 | 92376203 | R | II | GPC5 | Body | opensea | Body-opens | rs5767471 | 49;35;1 | | | | |
| cg0722407 | 0.246586 | 0.496871 | 7.844121 | 6.59E-05 | 0.001909 | 2.170883 | 0.373578 | 0.620164 | -0.24659 | 7 | 1.15E+08 | F | II | LINC01392 | Body | opensea | Body-opens | rs5672739 | 31;35;36;46 | | | | |
| cg1965784 | 0.214378 | 0.55891 | 7.843945 | 6.59E-05 | 0.001909 | 2.170721 | 0.451721 | 0.666099 | -0.21438 | 10 | 26156371 | F | II | | IGR | opensea | IGR-opense | rs5572579 | 0;11;45 | | | | |
| cg0275766 | 0.237292 | 0.690944 | 7.843924 | 6.59E-05 | 0.001909 | 2.170702 | 0.572298 | 0.80959 | -0.23729 | 21 | 35930789 | F | II | RCAN1 | Body | opensea | Body-opens | | | | | | |
| cg2479469 | 0.237951 | 0.507692 | 7.843741 | 6.59E-05 | 0.001909 | 2.170533 | 0.388717 | 0.626667 | -0.23795 | 3 | 18278987 | R | II | LOC33986 | Body | opensea | Body-opens | rs1162570 | 18 | | | | |
| cg1303385 | 0.235892 | 0.580147 | 7.843647 | 6.59E-05 | 0.001909 | 2.170446 | 0.462201 | 0.698094 | -0.23589 | 12 | 1.09E+08 | F | II | SSH1 | Body | shelf | Body-shelf | chr12:109 | rs5662329 | 1;13 | | | |
| cg0022658 | 0.257474 | 0.505163 | 7.842869 | 6.6E-05 | 0.00191 | 2.169729 | 0.376426 | 0.6339 | -0.25747 | 5 | 89000691 | F | II | | IGR | opensea | IGR-opense | rs5614567 | 1 | | | | |
| cg1438348 | 0.208097 | 0.607454 | 7.842637 | 6.6E-05 | 0.00191 | 2.169515 | 0.503406 | 0.711503 | -0.2081 | 2 | 1.68E+08 | R | II | XIRP2 | TSS200 | opensea | TSS200-ope | rs5336660 | 30;19;1 | | | | |
| cg2280144 | 0.22134 | 0.669331 | 7.840644 | 6.61E-05 | 0.001912 | 2.167676 | 0.55866 | 0.780001 | -0.22134 | 10 | 91752521 | F | II | | IGR | opensea | IGR-opense | rs7070718 | 31 | | | | |
| cg0975930 | 0.217709 | 0.369021 | 7.840555 | 6.61E-05 | 0.001912 | 2.167594 | 0.260167 | 0.477876 | -0.21771 | 12 | 70573614 | R | II | | IGR | opensea | IGR-opense | rs5440404 | 18;8 | | | | |
| cg1918907 | 0.213675 | 0.575245 | 7.83952 | 6.62E-05 | 0.001913 | 2.16664 | 0.468408 | 0.682083 | -0.21368 | 3 | 40806781 | R | II | | IGR | opensea | IGR-opense | rs5645112 | 32;13;2 | | | | |
| cg2432672 | 0.204504 | 0.489267 | 7.839026 | 6.62E-05 | 0.001913 | 2.166184 | 0.387015 | 0.591519 | -0.2045 | 4 | 38310453 | R | II | | IGR | opensea | IGR-opense | rs5770492 | 18;9;1 | | | | |
| cg0627869 | 0.214682 | 0.655422 | 7.838941 | 6.62E-05 | 0.001914 | 2.166106 | 0.548081 | 0.762763 | -0.21468 | 20 | 48533196 | R | II | SPATA2 | TSS1500 | shore | TSS1500-sh | chr20:485 | rs8115603 | 10 | | | |
| cg0532989 | 0.205262 | 0.665165 | 7.838265 | 6.63E-05 | 0.001914 | 2.165482 | 0.562534 | 0.767796 | -0.20526 | 4 | 71384359 | R | II | AMTN | 1stExon | opensea | 1stExon-op | rs5514551 | 29;25;24;2 | | | | |
| cg1203379 | 0.208811 | 0.682226 | 7.837868 | 6.63E-05 | 0.001915 | 2.165115 | 0.57782 | 0.786631 | -0.20881 | 2 | 88311157 | R | II | | IGR | opensea | IGR-opense | rs5777481 | 2;1 | | | | |
| cg1418105 | 0.208006 | 0.604266 | 7.837855 | 6.63E-05 | 0.001915 | 2.165104 | 0.500262 | 0.708269 | -0.20801 | 3 | 1.69E+08 | R | II | MECOM | 5'UTR | opensea | 5'UTR-open | rs5782158 | 48;1 | | | | |
| cg0253824 | 0.224546 | 0.542653 | 7.835077 | 6.64E-05 | 0.001917 | 2.16254 | 0.43038 | 0.654926 | -0.22455 | 16 | 75045643 | R | II | ZNRF1 | Body | opensea | Body-opens | rs1954956 | 20;1 | | | | |
| cg1564955 | 0.214812 | 0.728687 | 7.834501 | 6.65E-05 | 0.001918 | 2.162008 | 0.621281 | 0.836093 | -0.21481 | 3 | 40807682 | R | II | | IGR | opensea | IGR-opense | rs5665336 | 35;23 | | | | |
| cg0275418 | 0.205262 | 0.748957 | 7.833568 | 6.65E-05 | 0.001918 | 2.161147 | 0.646326 | 0.851588 | -0.20526 | 5 | 56992863 | F | II | | IGR | opensea | IGR-opense | rs1928101 | 1;9;36 | | | | |
| cg1212831 | 0.221198 | 0.506216 | 7.832583 | 6.66E-05 | 0.001919 | 2.160237 | 0.395617 | 0.616816 | -0.2212 | 5 | 1.57E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0916865 | 0.211833 | 0.494211 | 7.830819 | 6.67E-05 | 0.001921 | 2.158609 | 0.388295 | 0.600127 | -0.21183 | 6 | 34070996 | F | II | GRM4 | Body | opensea | Body-opens | rs5428540 | 0;1;33;39 | | | | |
| cg1954398 | 0.205106 | 0.59168 | 7.82952 | 6.68E-05 | 0.001922 | 2.157409 | 0.489128 | 0.694233 | -0.20511 | 12 | 47313800 | R | II | | IGR | opensea | IGR-opense | rs5331063 | 41;1 | | | | |
| cg1574704 | 0.216867 | 0.530607 | 7.82817 | 6.68E-05 | 0.001922 | 2.156162 | 0.422173 | 0.63904 | -0.21687 | 10 | 14373423 | F | II | FRMD4A | TSS1500 | opensea | TSS1500-op | rs1887395 | 0;39;47 | | | | |
| cg1876527 | 0.205693 | 0.509063 | 7.828156 | 6.68E-05 | 0.001922 | 2.156149 | 0.406216 | 0.611909 | -0.20569 | 1 | 71170890 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | rs1837094 | 12;19;31;34 | | | | |
| cg2517378 | 0.203743 | 0.390784 | 7.828091 | 6.68E-05 | 0.001922 | 2.156089 | 0.288912 | 0.492656 | -0.20374 | 6 | 52022616 | R | II | | IGR | opensea | IGR-opense | rs5697433 | 9 | | | | |
| cg2521490 | 0.210313 | 0.589284 | 7.827656 | 6.69E-05 | 0.001923 | 2.155687 | 0.484127 | 0.69444 | -0.21031 | 12 | 79693302 | F | II | SYT1 | Body | opensea | Body-opens | | | | | | |
| cg0806734 | 0.269335 | 0.51506 | 7.825982 | 6.7E-05 | 0.001924 | 2.154141 | 0.380392 | 0.649728 | -0.26934 | 12 | 1.02E+08 | F | II | GNPTAB | Body | opensea | Body-opens | rs3755020 | 0 | | | | |
| cg2607907 | 0.2416 | 0.501426 | 7.825978 | 6.7E-05 | 0.001924 | 2.154137 | 0.380626 | 0.622226 | -0.2416 | 18 | 41361082 | F | II | | IGR | opensea | IGR-opense | rs5333896 | 22;51 | | | | |
| cg0888890 | 0.203534 | 0.462544 | 7.825951 | 6.7E-05 | 0.001924 | 2.154112 | 0.360777 | 0.564311 | -0.20353 | 21 | 47008098 | F | II | | IGR | shore | IGR-shore | chr21:470 | rs7391012 | 0;41 | | | |
| cg2597534 | 0.235428 | 0.650473 | 7.825541 | 6.7E-05 | 0.001925 | 2.153733 | 0.532759 | 0.768186 | -0.23543 | 2 | 2.05E+08 | F | II | | IGR | opensea | IGR-opense | rs1174893 | 5 | | | | |
| cg0907612 | 0.203065 | 0.408337 | 7.825313 | 6.7E-05 | 0.001925 | 2.153522 | 0.306804 | 0.509869 | -0.20307 | 1 | 1.84E+08 | F | II | NCF2 | 5'UTR | opensea | 5'UTR-open | rs5615569 | 1;31;32 | | | | |
| cg1414432 | 0.211084 | 0.54456 | 7.825039 | 6.7E-05 | 0.001925 | 2.153269 | 0.439019 | 0.650102 | -0.21108 | 2 | 31111880 | F | II | | IGR | opensea | IGR-opense | rs5318360 | 1;19;20;37 | | | | |
| cg1322835 | 0.208344 | 0.523075 | 7.824738 | 6.7E-05 | 0.001926 | 2.152991 | 0.418902 | 0.627247 | -0.20834 | 20 | 53223230 | F | II | DOK5 | Body | opensea | Body-opens | rs5711444 | 0;1;17;22;36 | | | | |
| cg1268841 | 0.210889 | 0.419943 | 7.823029 | 6.71E-05 | 0.001927 | 2.151411 | 0.314498 | 0.525387 | -0.21089 | 8 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | rs5740271 | 50;11 | | | | |
| cg1236198 | 0.225551 | 0.574394 | 7.822799 | 6.72E-05 | 0.001927 | 2.151199 | 0.461619 | 0.687169 | -0.22555 | 2 | 1.77E+08 | R | II | | IGR | opensea | IGR-opense | rs1812909 | 47;34;33 | | | | |
| cg0585505 | 0.228764 | 0.505041 | 7.82215 | 6.72E-05 | 0.001928 | 2.150599 | 0.390659 | 0.619422 | -0.22876 | 18 | 57736576 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0369301 | 0.241603 | 0.559026 | 7.822017 | 6.72E-05 | 0.001928 | 2.150476 | 0.438224 | 0.679828 | -0.2416 | 10 | 95715050 | F | II | | IGR | opensea | IGR-opense | rs3727602 | 1 | | | | |
| cg1500454 | 0.222904 | 0.734563 | 7.821034 | 6.73E-05 | 0.001928 | 2.149567 | 0.623111 | 0.846016 | -0.2229 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | rs1898991 | 1 | | | | |
| cg0187470 | 0.235752 | 0.470027 | 7.820787 | 6.73E-05 | 0.001928 | 2.149339 | 0.352151 | 0.587903 | -0.23575 | 2 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | rs1881149 | 24 | | | | |
| cg2145331 | 0.221409 | 0.567554 | 7.819845 | 6.73E-05 | 0.001929 | 2.148468 | 0.45685 | 0.678259 | -0.22141 | 6 | 80189716 | F | II | | IGR | opensea | IGR-opense | rs7989702 | 17;36 | | | | |
| cg1278495 | 0.207827 | 0.653277 | 7.818761 | 6.74E-05 | 0.00193 | 2.147466 | 0.549363 | 0.75719 | -0.20783 | 13 | 37454811 | R | II | SMAD9 | 5'UTR | opensea | 5'UTR-open | rs5460662 | 49 | | | | |
| cg0179741 | 0.223442 | 0.480928 | 7.818668 | 6.74E-05 | 0.00193 | 2.14738 | 0.369207 | 0.592649 | -0.22344 | 4 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | rs1854144 | 14;20 | | | | |
| cg1081744 | 0.21026 | 0.418809 | 7.817544 | 6.75E-05 | 0.001931 | 2.146341 | 0.31368 | 0.523939 | -0.21026 | 6 | 32823728 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282 | rs1496751 | 2 | | | |
| cg2617000 | 0.216989 | 0.588037 | 7.817141 | 6.75E-05 | 0.001931 | 2.145968 | 0.479542 | 0.696532 | -0.21699 | 15 | 61374778 | F | II | RORA | Body | opensea | Body-opens | rs1412585 | 0;1;15 | | | | |
| cg2403765 | 0.232283 | 0.679601 | 7.816768 | 6.75E-05 | 0.001932 | 2.145622 | 0.563459 | 0.795743 | -0.23228 | 8 | 1.43E+08 | F | II | TSNARE1 | 5'UTR | opensea | 5'UTR-open | rs1876016 | 1;14;25 | | | | |
| cg0622451 | 0.214644 | 0.582029 | 7.815418 | 6.76E-05 | 0.001932 | 2.144374 | 0.474707 | 0.689351 | -0.21464 | 10 | 7745454 | R | II | ITIH2 | 1stExon | opensea | 1stExon-op | rs1418981 | 51;45;44;4;2 | | | | |
| cg2375226 | 0.212832 | 0.603121 | 7.815214 | 6.76E-05 | 0.001932 | 2.144185 | 0.496705 | 0.709537 | -0.21283 | 11 | 27602844 | R | II | BDNF-AS | Body | opensea | Body-opens | rs5346209 | 42;34;14 | | | | |
| cg2257373 | 0.208639 | 0.591381 | 7.81455 | 6.76E-05 | 0.001933 | 2.143571 | 0.487062 | 0.695701 | -0.20864 | 2 | 2.21E+08 | F | II | | IGR | opensea | IGR-opense | rs1132415 | 14 | | | | |
| cg0537329 | 0.200547 | 0.604781 | 7.814382 | 6.77E-05 | 0.001933 | 2.143415 | 0.504508 | 0.705054 | -0.20055 | 1 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | rs7585728 | 0;14;18 | | | | |
| cg0025019 | 0.21096 | 0.484954 | 7.814331 | 6.77E-05 | 0.001933 | 2.143368 | 0.379474 | 0.590434 | -0.21096 | 2 | 16836324 | F | II | FAM49A | 5'UTR | opensea | 5'UTR-open | rs5611534 | 32 | | | | |
| cg2383661 | 0.224252 | 0.672502 | 7.812945 | 6.77E-05 | 0.001934 | 2.142086 | 0.560376 | 0.784628 | -0.22425 | 4 | 1.69E+08 | F | II | ANXA10 | Body | opensea | Body-opens | rs5573384 | 0;1;10;30;32;42 | | | | |
| cg1467180 | 0.203682 | 0.548722 | 7.812285 | 6.78E-05 | 0.001935 | 2.141476 | 0.446881 | 0.650563 | -0.20368 | 3 | 55558213 | R | II | ERC2 | 3'UTR | opensea | 3'UTR-open | rs5626643 | 40;2 | | | | |
| cg1786575 | 0.201564 | 0.306485 | 7.811982 | 6.78E-05 | 0.001935 | 2.141195 | 0.205703 | 0.407267 | -0.20156 | 3 | 1.87E+08 | R | II | | IGR | opensea | IGR-opense | rs5692964 | 2 | | | | |
| cg2394153 | 0.20134 | 0.540526 | 7.810032 | 6.79E-05 | 0.001936 | 2.13939 | 0.439856 | 0.641196 | -0.20134 | 13 | 73676019 | R | II | | IGR | opensea | IGR-opense | rs5420969 | 2;1 | | | | |
| cg2504615 | 0.229048 | 0.690632 | 7.806336 | 6.81E-05 | 0.00194 | 2.135968 | 0.576108 | 0.805156 | -0.22905 | 13 | 46256900 | R | II | LINC01055 | Body | opensea | Body-opens | rs1889187 | 47;42;14 | | | | |
| cg1653451 | 0.201502 | 0.633804 | 7.80517 | 6.82E-05 | 0.001941 | 2.134888 | 0.533053 | 0.734555 | -0.2015 | 10 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1282874 | 0.20492 | 0.39563 | 7.804946 | 6.82E-05 | 0.001941 | 2.134681 | 0.29317 | 0.49809 | -0.20492 | 11 | 18600741 | F | II | UEVLD | 5'UTR | opensea | 5'UTR-open | rs5473990 | 0;1;14 | | | | |
| cg0079007 | 0.219859 | 0.616428 | 7.802579 | 6.84E-05 | 0.001943 | 2.132488 | 0.506498 | 0.726357 | -0.21986 | 2 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | rs1401551 | 0 | | | | |
| cg1703401 | 0.230617 | 0.536967 | 7.800713 | 6.85E-05 | 0.001945 | 2.13076 | 0.421658 | 0.652275 | -0.23062 | 2 | 24837421 | R | II | NCOA1 | 5'UTR | opensea | 5'UTR-open | rs5717264 | 31;1 | | | | |
| cg1915250 | 0.202539 | 0.608353 | 7.800137 | 6.85E-05 | 0.001945 | 2.130226 | 0.507084 | 0.709623 | -0.20254 | 21 | 19165818 | R | II | C21orf91 | 3'UTR | opensea | 3'UTR-open | rs1700208 | 25;2;1 | | | | |
| cg1615131 | 0.204783 | 0.586651 | 7.798583 | 6.86E-05 | 0.001947 | 2.128786 | 0.48426 | 0.689043 | -0.20478 | 13 | 47674949 | R | II | | IGR | opensea | IGR-opense | rs5584942 | 7;1 | | | | |
| cg1029640 | 0.208267 | 0.438969 | 7.798461 | 6.86E-05 | 0.001947 | 2.128673 | 0.334836 | 0.543103 | -0.20827 | 4 | 40182240 | R | II | | IGR | opensea | IGR-opense | rs1851849 | 47;46;44;32;10;1 | | | | |
| cg1455528 | 0.223307 | 0.615368 | 7.798099 | 6.86E-05 | 0.001947 | 2.128337 | 0.503714 | 0.727022 | -0.22331 | 4 | 1.84E+08 | F | II | CLDN24 | TSS1500 | opensea | TSS1500-op | rs1395932 | 45 | | | | |
| cg0257029 | 0.213038 | 0.569944 | 7.797717 | 6.87E-05 | 0.001947 | 2.127984 | 0.463425 | 0.676463 | -0.21304 | 13 | 53618826 | F | II | OLFM4 | Body | opensea | Body-opens | rs5302772 | 43 | | | | |
| cg2154802 | 0.201693 | 0.710272 | 7.794696 | 6.88E-05 | 0.00195 | 2.125183 | 0.609426 | 0.811119 | -0.20169 | 8 | 15873055 | F | II | | IGR | opensea | IGR-opense | rs5474801 | 4;7;17;20;33 | | | | |
| cg2696772 | 0.204243 | 0.678572 | 7.793862 | 6.89E-05 | 0.001951 | 2.124409 | 0.576451 | 0.780694 | -0.20424 | 5 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | rs7994594 | 12;36;37 | | | | |
| cg1371440 | 0.248978 | 0.448599 | 7.793581 | 6.89E-05 | 0.001951 | 2.124149 | 0.32411 | 0.573088 | -0.24898 | 9 | 1.35E+08 | F | II | RAPGEF1 | Body | opensea | Body-opens | rs5474923 | 1;18 | | | | |
| cg0005560 | 0.283379 | 0.591175 | 7.793404 | 6.89E-05 | 0.001951 | 2.123984 | 0.449485 | 0.732865 | -0.28338 | 1 | 48508839 | R | II | | IGR | opensea | IGR-opense | rs5578441 | 33 | | | | |
| cg1993819 | 0.219753 | 0.521081 | 7.791536 | 6.9E-05 | 0.001953 | 2.122252 | 0.411204 | 0.630958 | -0.21975 | 15 | 63233164 | F | II | | IGR | opensea | IGR-opense | rs5500725 | 0;6;37 | | | | |
| cg0843791 | 0.210234 | 0.58779 | 7.791164 | 6.91E-05 | 0.001953 | 2.121907 | 0.482673 | 0.692907 | -0.21023 | 4 | 1.41E+08 | R | II | MGST2 | 3'UTR | shelf | 3'UTR-shelf | chr4:1406 | rs3689022 | 15;1 | | | |
| cg0833917 | 0.204261 | 0.595313 | 7.790687 | 6.91E-05 | 0.001953 | 2.121464 | 0.493182 | 0.697443 | -0.20426 | 17 | 63692987 | F | II | CCDC46 | Body | opensea | Body-opens | rs1434994 | 1;3;20 | | | | |
| cg1692831 | 0.206807 | 0.576252 | 7.790641 | 6.91E-05 | 0.001953 | 2.121422 | 0.472849 | 0.679656 | -0.20681 | 2 | 1.21E+08 | F | II | PTPN4 | Body | opensea | Body-opens | rs5758058 | 0;14 | | | | |
| cg2592293 | 0.204104 | 0.579697 | 7.789987 | 6.91E-05 | 0.001954 | 2.120815 | 0.477645 | 0.68175 | -0.2041 | 1 | 2.41E+08 | F | II | MIR1273E | Body | opensea | Body-opens | rs5758920 | 50 | | | | |
| cg2246210 | 0.200787 | 0.625116 | 7.789234 | 6.92E-05 | 0.001955 | 2.120117 | 0.524722 | 0.725509 | -0.20079 | 3 | 1.39E+08 | R | II | NMNAT3 | 3'UTR | opensea | 3'UTR-open | rs1895897 | 1 | | | | |
| cg1891709 | 0.270013 | 0.473769 | 7.788524 | 6.92E-05 | 0.001955 | 2.119457 | 0.338763 | 0.608776 | -0.27001 | 2 | 2.02E+08 | F | II | CFLAR | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg2570521 | 0.240196 | 0.652617 | 7.788234 | 6.92E-05 | 0.001955 | 2.119188 | 0.532519 | 0.772714 | -0.2402 | 5 | 1.19E+08 | R | II | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs1897500 | 46 | | | |
| cg1417248 | 0.203438 | 0.591457 | 7.788053 | 6.92E-05 | 0.001955 | 2.11902 | 0.489738 | 0.693176 | -0.20344 | 22 | 33141587 | F | II | SYN3 | Body | opensea | Body-opens | rs1418157 | 1;6;22;29 | | | | |
| cg1198549 | 0.217573 | 0.606944 | 7.787834 | 6.93E-05 | 0.001955 | 2.118817 | 0.498157 | 0.71573 | -0.21757 | 4 | 86681976 | R | II | ARHGAP24 | Body | opensea | Body-opens | | | | | | |
| cg2666697 | 0.215091 | 0.505932 | 7.78648 | 6.93E-05 | 0.001957 | 2.117561 | 0.398387 | 0.613478 | -0.21509 | 21 | 47038531 | F | II | | IGR | opensea | IGR-opense | rs1870848 | 1;15;46 | | | | |
| cg2320409 | 0.201246 | 0.500455 | 7.786062 | 6.94E-05 | 0.001957 | 2.117173 | 0.399832 | 0.601078 | -0.20125 | 6 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | rs5586488 | 0;49 | | | | |
| cg2222394 | 0.204223 | 0.589681 | 7.785632 | 6.94E-05 | 0.001957 | 2.116774 | 0.487569 | 0.691792 | -0.20422 | 4 | 87279531 | R | II | MAPK10 | 5'UTR | opensea | 5'UTR-open | rs1886773 | 40;34;10;1 | | | | |
| cg1282532 | 0.21687 | 0.574956 | 7.785558 | 6.94E-05 | 0.001957 | 2.116705 | 0.466521 | 0.683391 | -0.21687 | 3 | 1.24E+08 | R | II | MYLK | 5'UTR | opensea | 5'UTR-open | rs1454333 | 21;2 | | | | |
| cg0938537 | 0.230182 | 0.554408 | 7.784748 | 6.94E-05 | 0.001957 | 2.115954 | 0.439317 | 0.669499 | -0.23018 | 6 | 1.43E+08 | R | II | LOC15391 | TSS1500 | opensea | TSS1500-op | rs5433593 | 2 | | | | |
| cg2461034 | 0.230264 | 0.595109 | 7.78434 | 6.95E-05 | 0.001958 | 2.115574 | 0.479977 | 0.710242 | -0.23026 | 7 | 98696198 | R | II | SMURF1 | Body | opensea | Body-opens | | | | | | |
| cg1549939 | 0.20357 | 0.646817 | 7.78331 | 6.95E-05 | 0.001959 | 2.114619 | 0.545032 | 0.748602 | -0.20357 | 2 | 7888944 | R | II | | IGR | opensea | IGR-opense | rs1303303 | 10 | | | | |
| cg1037951 | 0.207916 | 0.647387 | 7.78322 | 6.95E-05 | 0.001959 | 2.114534 | 0.543429 | 0.751345 | -0.20792 | 9 | 1.33E+08 | F | II | USP20 | Body | shelf | Body-shelf | chr9:1326 | rs1469473 | 0;15;31;40 | | | |
| cg0134106 | 0.212248 | 0.577724 | 7.781112 | 6.97E-05 | 0.001961 | 2.112578 | 0.4716 | 0.683848 | -0.21225 | 8 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | rs7332842 | 42;38;27 | | | | |
| cg1351825 | 0.221172 | 0.413805 | 7.780271 | 6.97E-05 | 0.001961 | 2.111796 | 0.303219 | 0.52439 | -0.22117 | 8 | 6038136 | F | II | | IGR | opensea | IGR-opense | rs5681147 | 1;23;31;43 | | | | |
| cg0583231 | 0.212212 | 0.543633 | 7.780221 | 6.97E-05 | 0.001961 | 2.11175 | 0.437527 | 0.649739 | -0.21221 | 9 | 18767398 | F | II | ADAMTSL1 | Body | opensea | Body-opens | | | | | | |
| cg0409615 | 0.207358 | 0.584703 | 7.777822 | 6.99E-05 | 0.001964 | 2.109521 | 0.481024 | 0.688382 | -0.20736 | 15 | 40098188 | R | II | GPR176 | Body | opensea | Body-opens | rs5355506 | 51 | | | | |
| cg0856215 | 0.220505 | 0.590871 | 7.777505 | 6.99E-05 | 0.001964 | 2.109227 | 0.480619 | 0.701123 | -0.2205 | 8 | 18746006 | F | II | PSD3 | Body | opensea | Body-opens | rs1134737 | 0;12;43;51 | | | | |
| cg2135605 | 0.20621 | 0.640048 | 7.774982 | 7E-05 | 0.001966 | 2.106883 | 0.536943 | 0.743153 | -0.20621 | 2 | 2.02E+08 | R | II | CFLAR | TSS1500 | opensea | TSS1500-op | rs5429210 | 33 | | | | |
| cg1891425 | 0.201093 | 0.596603 | 7.774795 | 7.01E-05 | 0.001966 | 2.106709 | 0.496056 | 0.697149 | -0.20109 | 4 | 12903886 | R | II | | IGR | opensea | IGR-opense | rs5505973 | 2 | | | | |
| cg0170205 | 0.226928 | 0.512073 | 7.774512 | 7.01E-05 | 0.001967 | 2.106446 | 0.39861 | 0.625537 | -0.22693 | 6 | 13303065 | F | II | | IGR | opensea | IGR-opense | rs5776790 | 1;42;51 | | | | |
| cg0327559 | 0.205569 | 0.629454 | 7.773861 | 7.01E-05 | 0.001967 | 2.105842 | 0.526669 | 0.732238 | -0.20557 | 7 | 44675025 | R | II | OGDH | Body | opensea | Body-opens | rs5313664 | 49;36;22 | | | | |
| cg0177565 | 0.215751 | 0.624146 | 7.773413 | 7.01E-05 | 0.001968 | 2.105425 | 0.516271 | 0.732022 | -0.21575 | 1 | 2.13E+08 | R | II | FLVCR1 | Body | opensea | Body-opens | rs1904578 | 15 | | | | |
| cg0825993 | 0.233489 | 0.527648 | 7.771706 | 7.02E-05 | 0.001969 | 2.103838 | 0.410904 | 0.644393 | -0.23349 | 17 | 59659383 | R | II | | IGR | opensea | IGR-opense | rs1811624 | 2 | | | | |
| cg1108867 | 0.215169 | 0.60018 | 7.770183 | 7.03E-05 | 0.00197 | 2.102422 | 0.492596 | 0.707765 | -0.21517 | 4 | 1.43E+08 | R | II | | IGR | opensea | IGR-opense | rs1932467 | 1 | | | | |
| cg1404179 | 0.214129 | 0.674596 | 7.7694 | 7.04E-05 | 0.001971 | 2.101694 | 0.567531 | 0.78166 | -0.21413 | 13 | 51754437 | F | II | | IGR | opensea | IGR-opense | rs5763797 | 0;42;44 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0971180 | 0.203911 | 0.612583 | 7.769245 | 7.04E-05 | 0.001971 | 2.10155 | 0.510628 | 0.714538 | -0.20391 | 10 | 61019750 | R | II | FAM13C | Body | opensea | Body-opens | rs5762444 | 51;14 |
| cg2606214 | 0.202187 | 0.683226 | 7.767986 | 7.05E-05 | 0.001972 | 2.100379 | 0.582133 | 0.78432 | -0.20219 | 1 | 66561475 | F | II | PDE4B | Body | opensea | Body-opens | rs1398066 | 9;47;48 |
| cg0309263 | 0.20623 | 0.463464 | 7.766706 | 7.06E-05 | 0.001973 | 2.099189 | 0.360349 | 0.566579 | -0.20623 | 10 | 33406660 | F | II | | IGR | opensea | IGR-opense | rs1485062 | 0;8;39 |
| cg0366507 | 0.203166 | 0.465655 | 7.766149 | 7.06E-05 | 0.001974 | 2.09867 | 0.364072 | 0.567238 | -0.20317 | 5 | 1.19E+08 | F | II | TNFAIP8 | Body | shore | Body-shore | chr5:1186 | rs5655353 | 26 |
| cg0565685 | 0.24408 | 0.570299 | 7.765903 | 7.06E-05 | 0.001974 | 2.098442 | 0.448259 | 0.692339 | -0.24408 | 7 | 55584276 | F | II | VOPP1 | Body | opensea | Body-opens | rs5381132 | 1;43 |
| cg0725253 | 0.218915 | 0.675013 | 7.765371 | 7.06E-05 | 0.001975 | 2.097947 | 0.565556 | 0.784471 | -0.21891 | 12 | 59845805 | R | II | | IGR | opensea | IGR-opense | | |
| cg2678283 | 0.205307 | 0.72679 | 7.764028 | 7.07E-05 | 0.001976 | 2.096697 | 0.624136 | 0.829443 | -0.20531 | 2 | 1.29E+08 | F | II | AMMECR1L | 5'UTR | shore | 5'UTR-shor | chr2:1286 | rs5464834 | 13;47 |
| cg2093193 | 0.215274 | 0.654089 | 7.763735 | 7.07E-05 | 0.001976 | 2.096425 | 0.546453 | 0.761726 | -0.21527 | 2 | 1.36E+08 | R | II | R3HDM1 | Body | opensea | Body-opens | | |
| cg1525495 | 0.200025 | 0.573397 | 7.763622 | 7.07E-05 | 0.001976 | 2.09632 | 0.473385 | 0.67341 | -0.20003 | 19 | 8420745 | F | II | | IGR | opensea | IGR-opense | rs5651605 | 3;23 |
| cg0858682 | 0.235019 | 0.609728 | 7.762917 | 7.08E-05 | 0.001977 | 2.095664 | 0.492219 | 0.727238 | -0.23502 | 10 | 92762470 | R | II | | IGR | opensea | IGR-opense | rs1508977 | 34 |
| cg0145556 | 0.204253 | 0.60558 | 7.762115 | 7.08E-05 | 0.001978 | 2.094917 | 0.503453 | 0.707706 | -0.20425 | 12 | 46883863 | F | II | LOC10028 | Body | opensea | Body-opens | rs5470793 | 0;10 |
| cg0817952 | 0.203446 | 0.633647 | 7.762033 | 7.08E-05 | 0.001978 | 2.094841 | 0.531923 | 0.73537 | -0.20345 | 3 | 1.93E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg2253531 | 0.222664 | 0.544082 | 7.761834 | 7.09E-05 | 0.001978 | 2.094656 | 0.43275 | 0.655414 | -0.22266 | 1 | 90865905 | F | II | | IGR | opensea | IGR-opense | rs1158817 | 1;15;36;37 |
| cg1389533 | 0.21573 | 0.619086 | 7.761478 | 7.09E-05 | 0.001978 | 2.094325 | 0.511221 | 0.726951 | -0.21573 | 9 | 6418884 | R | II | UHRF2 | Body | opensea | Body-opens | rs1868079 | 47 |
| cg1638611 | 0.212507 | 0.75073 | 7.759392 | 7.1E-05 | 0.00198 | 2.092383 | 0.644476 | 0.856983 | -0.21251 | 3 | 1.43E+08 | F | II | | IGR | opensea | IGR-opense | rs1151775 | 1;37;51 |
| cg0930447 | 0.270107 | 0.575996 | 7.759047 | 7.1E-05 | 0.00198 | 2.092061 | 0.440943 | 0.711049 | -0.27011 | 18 | 76916901 | R | II | ATP9B | Body | opensea | Body-opens | rs1145147 | 1 |
| cg2352505 | 0.221635 | 0.555088 | 7.759035 | 7.1E-05 | 0.00198 | 2.09205 | 0.444271 | 0.665906 | -0.22164 | 15 | 38852680 | F | II | RASGRP1 | Body | shelf | Body-shelf | chr15:388 | rs1481250 | 1 |
| cg0728368 | 0.200338 | 0.639403 | 7.757933 | 7.11E-05 | 0.001981 | 2.091024 | 0.539234 | 0.739572 | -0.20034 | 15 | 48175477 | R | II | | IGR | opensea | IGR-opense | rs1461625 | 1 |
| cg1744534 | 0.225887 | 0.584011 | 7.757654 | 7.11E-05 | 0.001982 | 2.090765 | 0.471068 | 0.696954 | -0.22589 | 4 | 1.64E+08 | R | II | TKTL2 | TSS1500 | shore | TSS1500-sh | chr4:1643 | rs5646972 | 37 |
| cg0902208 | 0.201486 | 0.34976 | 7.757435 | 7.11E-05 | 0.001982 | 2.09056 | 0.249017 | 0.450503 | -0.20149 | 1 | 2.36E+08 | R | II | | IGR | opensea | IGR-opense | rs1683330 | 30;8 |
| cg0761917 | 0.220452 | 0.694913 | 7.755128 | 7.13E-05 | 0.001983 | 2.088412 | 0.584687 | 0.805139 | -0.22045 | 2 | 1.92E+08 | R | II | STAT4 | Body | opensea | Body-opens | rs5381830 | 17;2 |
| cg2333021 | 0.224066 | 0.535243 | 7.754322 | 7.13E-05 | 0.001984 | 2.087662 | 0.42321 | 0.647276 | -0.22407 | 11 | 27672697 | F | II | BDNFOS | Body | opensea | Body-opens | rs5751267 | 0;27 |
| cg1258012 | 0.226318 | 0.580911 | 7.75301 | 7.14E-05 | 0.001985 | 2.086439 | 0.467752 | 0.69407 | -0.22632 | 4 | 1.53E+08 | F | II | | IGR | opensea | IGR-opense | rs5774945 | 1;35 |
| cg0705384 | 0.233817 | 0.495778 | 7.752458 | 7.14E-05 | 0.001986 | 2.085926 | 0.378869 | 0.612687 | -0.23382 | 6 | 29012588 | F | II | OR2W1 | 1stExon | opensea | 1stExon-op | | |
| cg0010036 | 0.230833 | 0.460289 | 7.749974 | 7.16E-05 | 0.001988 | 2.083611 | 0.344872 | 0.575705 | -0.23083 | 12 | 1.11E+08 | F | II | ATP2A2 | Body | opensea | Body-opens | rs5707659 | 1 |
| cg0849474 | 0.249209 | 0.580354 | 7.749597 | 7.16E-05 | 0.001988 | 2.08326 | 0.455749 | 0.704958 | -0.24921 | 11 | 1.11E+08 | R | II | | IGR | opensea | IGR-opense | rs5740891 | 31;30 |
| cg1458277 | 0.210525 | 0.616274 | 7.749495 | 7.16E-05 | 0.001988 | 2.083165 | 0.511011 | 0.721536 | -0.21053 | 1 | 2.29E+08 | F | II | | IGR | opensea | IGR-opense | rs5337668 | 0;18;23;27 |
| cg0255615 | 0.216913 | 0.511047 | 7.749244 | 7.17E-05 | 0.001988 | 2.08293 | 0.402591 | 0.619504 | -0.21691 | 3 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | rs3741836 | 7 |
| cg0648449 | 0.217843 | 0.441189 | 7.748532 | 7.17E-05 | 0.001989 | 2.082267 | 0.332267 | 0.55011 | -0.21784 | 2 | 1.91E+08 | F | II | HIBCH | TSS1500 | shore | TSS1500-sh | chr2:1911 | | |
| cg0175158 | 0.23066 | 0.375853 | 7.747947 | 7.17E-05 | 0.001989 | 2.081722 | 0.260523 | 0.491183 | -0.23066 | 9 | 1E+08 | R | II | LOC28635 | TSS1500 | opensea | TSS1500-op | rs1098193 | 17;2 |
| cg2679042 | 0.216104 | 0.633994 | 7.74693 | 7.18E-05 | 0.00199 | 2.080773 | 0.525942 | 0.742046 | -0.2161 | 2 | 97363955 | F | II | FER1L5 | Body | opensea | Body-opens | rs1153958 | 0 |
| cg2037079 | 0.207776 | 0.384666 | 7.74687 | 7.18E-05 | 0.00199 | 2.080718 | 0.280778 | 0.488554 | -0.20778 | 9 | 79508831 | F | II | PRUNE2 | Body | opensea | Body-opens | rs3755230 | 0;1 |
| cg0862801 | 0.23855 | 0.59782 | 7.745441 | 7.19E-05 | 0.001991 | 2.079385 | 0.478545 | 0.717095 | -0.23855 | 5 | 1.76E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0955124 | 0.209301 | 0.574134 | 7.744682 | 7.19E-05 | 0.001992 | 2.078678 | 0.469483 | 0.678784 | -0.2093 | 17 | 2796053 | F | II | RAP1GAP2 | Body | opensea | Body-opens | rs5751364 | 0;1;37 |
| cg0153943 | 0.220245 | 0.629381 | 7.744642 | 7.19E-05 | 0.001992 | 2.07864 | 0.519259 | 0.739504 | -0.22024 | 21 | 40176506 | F | II | ETS2 | TSS1500 | shore | TSS1500-sh | chr21:401 | rs7084810 | 6;16;45 |
| cg0163207 | 0.208279 | 0.589209 | 7.744115 | 7.2E-05 | 0.001992 | 2.078149 | 0.48507 | 0.693349 | -0.20828 | 9 | 28264289 | F | II | LINGO2 | 5'UTR | opensea | 5'UTR-open | rs5710038 | 1;21;29 |
| cg1224535 | 0.220608 | 0.552099 | 7.743894 | 7.2E-05 | 0.001992 | 2.077942 | 0.441796 | 0.662403 | -0.22061 | 4 | 84468038 | R | II | AGPAT9 | Body | opensea | Body-opens | rs5497568 | 2 |
| cg2532394 | 0.204538 | 0.722212 | 7.742944 | 7.21E-05 | 0.001993 | 2.077057 | 0.619943 | 0.824481 | -0.20454 | 10 | 13737519 | R | II | FRMD4A | Body | opensea | Body-opens | rs7359222 | 27;25;6 |
| cg0486743 | 0.205826 | 0.632174 | 7.741735 | 7.21E-05 | 0.001994 | 2.07593 | 0.529261 | 0.735087 | -0.20583 | 5 | 1.36E+08 | F | II | SPOCK1 | Body | opensea | Body-opens | rs3689442 | 0;16;19;23;47 |
| cg0992364 | 0.215977 | 0.533049 | 7.741327 | 7.22E-05 | 0.001995 | 2.075549 | 0.42506 | 0.641037 | -0.21598 | 10 | 722301 | R | II | DIP2C | Body | opensea | Body-opens | | |
| cg2277130 | 0.215123 | 0.479419 | 7.740917 | 7.22E-05 | 0.001995 | 2.075166 | 0.371858 | 0.586981 | -0.21512 | 3 | 1.08E+08 | R | II | HHLA2 | 1stExon | opensea | 1stExon-op | | |
| cg1152540 | 0.20321 | 0.441303 | 7.740376 | 7.22E-05 | 0.001996 | 2.074661 | 0.339698 | 0.542908 | -0.20321 | 1 | 88054230 | F | II | | IGR | opensea | IGR-opense | rs1141340 | 42 |
| cg0495034 | 0.205149 | 0.656726 | 7.739137 | 7.23E-05 | 0.001997 | 2.073505 | 0.554151 | 0.759301 | -0.20515 | 3 | 30544522 | F | II | | IGR | opensea | IGR-opense | rs5402547 | 0 |
| cg2390014 | 0.265662 | 0.566083 | 7.738934 | 7.23E-05 | 0.001997 | 2.073316 | 0.433252 | 0.698913 | -0.26566 | 9 | 22142053 | R | II | | IGR | opensea | IGR-opense | rs5579372 | 1 |
| cg1964475 | 0.200546 | 0.438406 | 7.7388 | 7.23E-05 | 0.001997 | 2.073191 | 0.338133 | 0.538679 | -0.20055 | 3 | 1.72E+08 | R | II | PLD1 | 5'UTR | opensea | 5'UTR-open | rs5603784 | 42 |
| cg0894389 | 0.250236 | 0.535527 | 7.73784 | 7.24E-05 | 0.001998 | 2.072295 | 0.410409 | 0.660646 | -0.25024 | 14 | 50146187 | F | II | POLE2 | Body | opensea | Body-opens | rs1411196 | 1 |
| cg0290974 | 0.202255 | 0.695388 | 7.737683 | 7.24E-05 | 0.001998 | 2.072149 | 0.59426 | 0.796516 | -0.20226 | 9 | 1.38E+08 | R | II | LINC01502 | Body | opensea | Body-opens | rs7678683 | 32 |
| cg1579859 | 0.231248 | 0.535118 | 7.736866 | 7.24E-05 | 0.001999 | 2.071386 | 0.419494 | 0.650742 | -0.23125 | 1 | 2.44E+08 | F | II | AKT3 | Body | opensea | Body-opens | | |
| cg1589305 | 0.204013 | 0.649079 | 7.736527 | 7.25E-05 | 0.001999 | 2.07107 | 0.547073 | 0.751085 | -0.20401 | 4 | 1.41E+08 | F | II | SCOC | 5'UTR | opensea | 5'UTR-open | | |
| cg0061235 | 0.211052 | 0.684878 | 7.735392 | 7.25E-05 | 0.002 | 2.070011 | 0.579352 | 0.790405 | -0.21105 | 1 | 85763605 | F | II | | IGR | opensea | IGR-opense | rs1843787 | 0;12;26 |
| cg0646396 | 0.206401 | 0.648506 | 7.735198 | 7.25E-05 | 0.002 | 2.069829 | 0.545305 | 0.751706 | -0.2064 | 9 | 1.17E+08 | F | II | ZNF618 | Body | opensea | Body-opens | rs5516485 | 17 |
| cg2252170 | 0.220985 | 0.501899 | 7.735152 | 7.25E-05 | 0.002 | 2.069786 | 0.391407 | 0.612392 | -0.22099 | 6 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | |
| cg0016783 | 0.214611 | 0.670277 | 7.734454 | 7.26E-05 | 0.002 | 2.069135 | 0.562972 | 0.777583 | -0.21461 | 11 | 1.12E+08 | F | II | C11orf34 | TSS200 | opensea | TSS200-ope | rs1491925 | 1;15;23;49 |
| cg1777768 | 0.247568 | 0.429556 | 7.734253 | 7.26E-05 | 0.002 | 2.068948 | 0.305772 | 0.55334 | -0.24757 | 2 | 2.02E+08 | F | II | CFLAR | 5'UTR | shelf | 5'UTR-shelf | chr2:2019 | | |
| cg0728871 | 0.201411 | 0.73205 | 7.734158 | 7.26E-05 | 0.002 | 2.068859 | 0.631345 | 0.832756 | -0.20141 | 12 | 64324997 | F | II | SRGAP1 | Body | opensea | Body-opens | rs5431679 | 8 |
| cg1154971 | 0.280052 | 0.522228 | 7.734081 | 7.26E-05 | 0.002 | 2.068786 | 0.382202 | 0.662254 | -0.28005 | 2 | 55001373 | F | II | EML6 | Body | opensea | Body-opens | rs5554022 | 0;32 |
| cg2323984 | 0.252175 | 0.589101 | 7.733953 | 7.26E-05 | 0.002 | 2.068668 | 0.463013 | 0.715189 | -0.25218 | 17 | 29412769 | R | II | | IGR | opensea | IGR-opense | rs5478881 | 36 |
| cg0136493 | 0.257963 | 0.475529 | 7.733093 | 7.27E-05 | 0.002001 | 2.067864 | 0.346548 | 0.60451 | -0.25796 | 16 | 73185687 | R | II | | IGR | opensea | IGR-opense | rs5382053 | 39;35;1 |
| cg2470852 | 0.231049 | 0.568792 | 7.731979 | 7.28E-05 | 0.002002 | 2.066824 | 0.453268 | 0.684317 | -0.23105 | 8 | 1.42E+08 | R | II | PTK2 | Body | opensea | Body-opens | rs1150455 | 39;5;1 |
| cg2057634 | 0.213186 | 0.56845 | 7.731636 | 7.28E-05 | 0.002002 | 2.066504 | 0.461856 | 0.675043 | -0.21319 | 8 | 1.07E+08 | R | II | ZFPM2 | Body | opensea | Body-opens | rs7656231 | 19 |
| cg0816400 | 0.209592 | 0.635768 | 7.7308 | 7.28E-05 | 0.002003 | 2.065723 | 0.530972 | 0.740564 | -0.20959 | 21 | 27544052 | R | II | APP | TSS1500 | shore | TSS1500-sh | chr21:275 | rs364048 | 13 |
| cg2299937 | 0.215932 | 0.585967 | 7.730022 | 7.29E-05 | 0.002004 | 2.064996 | 0.478001 | 0.693933 | -0.21593 | 15 | 54774263 | R | II | UNC13C | Body | opensea | Body-opens | rs5512720 | 32;12;2 |
| cg1980658 | 0.207965 | 0.469978 | 7.728689 | 7.3E-05 | 0.002004 | 2.063751 | 0.365996 | 0.573961 | -0.20797 | 15 | 39524983 | R | II | | IGR | opensea | IGR-opense | rs5642858 | 35 |
| cg2240581 | 0.215542 | 0.732097 | 7.728151 | 7.3E-05 | 0.002005 | 2.063249 | 0.624326 | 0.839868 | -0.21554 | 9 | 1.18E+08 | R | II | DEC1 | 5'UTR | opensea | 5'UTR-open | rs5511469 | 18 |
| cg2354861 | 0.236411 | 0.548869 | 7.727666 | 7.3E-05 | 0.002005 | 2.062796 | 0.430664 | 0.667075 | -0.23641 | 7 | 1.48E+08 | R | II | CNTNAP2 | Body | opensea | Body-opens | rs5618143 | 30 |
| cg0840422 | 0.231654 | 0.659902 | 7.72745 | 7.3E-05 | 0.002005 | 2.062594 | 0.544074 | 0.775729 | -0.23165 | 3 | 3151899 | R | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | |
| cg1429741 | 0.244008 | 0.474363 | 7.727307 | 7.31E-05 | 0.002005 | 2.06246 | 0.352359 | 0.596367 | -0.24401 | 2 | 63351486 | F | II | WDPCP | Body | opensea | Body-opens | rs1482247 | 0;3;37;41 |
| cg0436148 | 0.223786 | 0.522405 | 7.726944 | 7.31E-05 | 0.002006 | 2.062122 | 0.410512 | 0.634299 | -0.22379 | 8 | 1.28E+08 | F | II | CASC8 | Body | opensea | Body-opens | rs5284540 | 46 |
| cg0523991 | 0.203925 | 0.578145 | 7.724914 | 7.32E-05 | 0.002008 | 2.060224 | 0.476183 | 0.680107 | -0.20392 | 5 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | rs1921791 | 29;45 |
| cg0026832 | 0.214194 | 0.474168 | 7.724596 | 7.32E-05 | 0.002008 | 2.059927 | 0.367071 | 0.581265 | -0.21419 | 3 | 1.26E+08 | R | II | UROC1 | TSS1500 | opensea | TSS1500-op | rs5375263 | 48;41;23;1 |
| cg1846902 | 0.212237 | 0.642166 | 7.722895 | 7.33E-05 | 0.002009 | 2.058337 | 0.536047 | 0.748285 | -0.21224 | 7 | 11578661 | R | II | THSD7A | Body | opensea | Body-opens | rs1826286 | 11;2;1 |
| cg2183371 | 0.237922 | 0.574326 | 7.720514 | 7.35E-05 | 0.002012 | 2.056111 | 0.455365 | 0.693287 | -0.23792 | 12 | 68222105 | F | II | | IGR | opensea | IGR-opense | rs1907381 | 1;3;36;47 |
| cg0639986 | 0.237001 | 0.702694 | 7.719376 | 7.36E-05 | 0.002013 | 2.055047 | 0.584194 | 0.821194 | -0.237 | 5 | 1.22E+08 | R | II | LOC10192 | Body | opensea | Body-opens | rs5750374 | 27;20 |
| cg1532433 | 0.208887 | 0.627014 | 7.718776 | 7.36E-05 | 0.002014 | 2.054487 | 0.52257 | 0.731457 | -0.20889 | 10 | 30085133 | F | II | | IGR | opensea | IGR-opense | rs1858761 | 0;1;40 |
| cg1972260 | 0.215542 | 0.497825 | 7.714275 | 7.39E-05 | 0.002019 | 2.050276 | 0.390054 | 0.605596 | -0.21554 | 1 | 17578380 | R | II | PADI3 | Body | opensea | Body-opens | rs1854752 | 24;17;1 |
| cg2007363 | 0.224214 | 0.584585 | 7.713355 | 7.4E-05 | 0.00202 | 2.049415 | 0.472478 | 0.696692 | -0.22421 | 17 | 53799323 | R | II | TMEM100 | 5'UTR | opensea | 5'UTR-open | | |
| cg0634612 | 0.265935 | 0.46793 | 7.712935 | 7.4E-05 | 0.00202 | 2.049022 | 0.334963 | 0.600897 | -0.26593 | 19 | 50804360 | F | II | MYH14 | Body | opensea | Body-opens | rs5651906 | 0;38;39;46 |
| cg1981199 | 0.21448 | 0.678747 | 7.712781 | 7.4E-05 | 0.00202 | 2.048878 | 0.571507 | 0.785987 | -0.21448 | 3 | 50373641 | R | II | RASSF1 | Body | shore | Body-shore | chr3:5037 | rs1462615 | 14 |
| cg0307432 | 0.20025 | 0.680098 | 7.71235 | 7.4E-05 | 0.002021 | 2.048475 | 0.579973 | 0.780223 | -0.20025 | 14 | 52163526 | F | II | FRMD6 | Body | opensea | Body-opens | rs1901693 | 1;37;46 |
| cg0731392 | 0.228753 | 0.771522 | 7.711191 | 7.41E-05 | 0.002022 | 2.04739 | 0.657145 | 0.885898 | -0.22875 | 2 | 2.16E+08 | R | II | ABCA12 | Body | opensea | Body-opens | rs5740235 | 36;18;17;2;1 |
| cg0046573 | 0.208159 | 0.56993 | 7.710647 | 7.41E-05 | 0.002022 | 2.04688 | 0.46585 | 0.674009 | -0.20816 | 13 | 25993555 | F | II | ATP8A2 | Body | opensea | Body-opens | rs5719736 | 1 |
| cg2210654 | 0.22264 | 0.554107 | 7.710194 | 7.42E-05 | 0.002022 | 2.046457 | 0.442787 | 0.665427 | -0.22264 | 6 | 74049525 | R | II | | IGR | opensea | IGR-opense | rs7294793 | 36 |
| cg1659631 | 0.202889 | 0.594908 | 7.710123 | 7.42E-05 | 0.002022 | 2.04639 | 0.493463 | 0.696352 | -0.20289 | 1 | 85755348 | F | II | | IGR | opensea | IGR-opense | rs1469183 | 0 |
| cg1850274 | 0.209761 | 0.377055 | 7.709184 | 7.42E-05 | 0.002023 | 2.045511 | 0.272174 | 0.481935 | -0.20976 | 3 | 46335416 | R | II | | IGR | opensea | IGR-opense | rs5446545 | 51;44;2;1 |
| cg0798589 | 0.214355 | 0.69606 | 7.708009 | 7.43E-05 | 0.002025 | 2.044411 | 0.588882 | 0.803238 | -0.21436 | 18 | 55758855 | R | II | NEDD4L | Body | opensea | Body-opens | rs1856695 | 39 |
| cg1397833 | 0.206751 | 0.503415 | 7.707882 | 7.43E-05 | 0.002025 | 2.044293 | 0.400039 | 0.60679 | -0.20675 | 6 | 11825273 | R | II | | IGR | opensea | IGR-opense | rs1488279 | 28;1 |
| cg2384581 | 0.226933 | 0.525634 | 7.707381 | 7.44E-05 | 0.002025 | 2.043823 | 0.412167 | 0.6391 | -0.22693 | 3 | 1.55E+08 | F | II | | IGR | opensea | IGR-opense | | |
| cg1579558 | 0.242922 | 0.421553 | 7.70665 | 7.44E-05 | 0.002026 | 2.043138 | 0.300092 | 0.543014 | -0.24292 | 2 | 2.43E+08 | F | II | DTYMK | TSS1500 | shore | TSS1500-sh | chr2:2426 | rs1486185 | 38;49 |
| cg0441450 | 0.218656 | 0.623528 | 7.705975 | 7.44E-05 | 0.002026 | 2.042506 | 0.5142 | 0.732856 | -0.21866 | 3 | 1.69E+08 | F | II | MECOM | Body | opensea | Body-opens | rs1839573 | 1;29;46 |
| cg0577070 | 0.201759 | 0.665291 | 7.705646 | 7.45E-05 | 0.002026 | 2.042198 | 0.564412 | 0.766171 | -0.20176 | 1 | 2.47E+08 | F | II | CNST | Body | opensea | Body-opens | rs5517429 | 7 |
| cg0182970 | 0.253352 | 0.564594 | 7.705076 | 7.45E-05 | 0.002027 | 2.041665 | 0.437918 | 0.69127 | -0.25335 | 22 | 32047972 | R | II | | IGR | opensea | IGR-opense | rs6223917 | 33;4 |
| cg1549303 | 0.210294 | 0.591626 | 7.702848 | 7.47E-05 | 0.002029 | 2.039578 | 0.486479 | 0.696773 | -0.21029 | 10 | 1.17E+08 | R | II | FAM160B1 | 3'UTR | opensea | 3'UTR-open | rs5504773 | 32;31;22;7;3 |
| cg1291317 | 0.206509 | 0.558774 | 7.702492 | 7.47E-05 | 0.002029 | 2.039244 | 0.455519 | 0.662028 | -0.20651 | 7 | 69871719 | R | II | AUTS2 | Body | opensea | Body-opens | rs6967417 | 37;27;23;22;21 |
| cg2522481 | 0.200403 | 0.553024 | 7.701864 | 7.47E-05 | 0.002029 | 2.038655 | 0.452822 | 0.653225 | -0.2004 | 4 | 1.58E+08 | F | II | PDGFC | Body | opensea | Body-opens | rs1405190 | 48 |
| cg0807898 | 0.222323 | 0.517797 | 7.701283 | 7.48E-05 | 0.00203 | 2.038111 | 0.406635 | 0.628959 | -0.22232 | 16 | 64663668 | F | II | | IGR | opensea | IGR-opense | rs1891686 | 0 |
| cg2370015 | 0.228594 | 0.497631 | 7.700845 | 7.48E-05 | 0.00203 | 2.0377 | 0.383334 | 0.611928 | -0.22859 | 3 | 1.31E+08 | R | II | CPNE4 | Body | opensea | Body-opens | rs5481271 | 19;7;1 |
| cg0740672 | 0.215118 | 0.673794 | 7.697523 | 7.5E-05 | 0.002033 | 2.034587 | 0.566236 | 0.781353 | -0.21512 | 5 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | rs5424351 | 1 |
| cg1354910 | 0.239855 | 0.474901 | 7.69566 | 7.51E-05 | 0.002035 | 2.032841 | 0.354974 | 0.594829 | -0.23985 | 1 | 67632012 | R | II | IL23R | TSS200 | opensea | TSS200-ope | rs1146575 | 34;8;2 |
| cg1742212 | 0.209629 | 0.661211 | 7.694753 | 7.52E-05 | 0.002036 | 2.03199 | 0.556396 | 0.766026 | -0.20963 | 12 | 2103365 | R | II | DCP1B | Body | opensea | Body-opens | rs5565751 | 41;1 |
| cg0508694 | 0.205035 | 0.603039 | 7.694684 | 7.52E-05 | 0.002036 | 2.031926 | 0.500522 | 0.705557 | -0.20504 | 4 | 43149680 | F | II | | IGR | opensea | IGR-opense | rs4615203 | 27 |
| cg2502736 | 0.201052 | 0.560901 | 7.694609 | 7.52E-05 | 0.002036 | 2.031855 | 0.460375 | 0.661427 | -0.20105 | 17 | 63100218 | R | II | | IGR | shelf | IGR-shelf | chr17:6305 | | |
| cg0130600 | 0.243012 | 0.60985 | 7.694327 | 7.52E-05 | 0.002036 | 2.03159 | 0.488344 | 0.731356 | -0.24301 | 2 | 24802612 | F | II | | IGR | opensea | IGR-opense | rs5566489 | 0;17 |
| cg2484473 | 0.242016 | 0.638144 | 7.690933 | 7.54E-05 | 0.002039 | 2.028407 | 0.517136 | 0.759152 | -0.24202 | 21 | 47075042 | F | II | | IGR | opensea | IGR-opense | rs1918137 | 0;46 |
| cg1928695 | 0.207415 | 0.667857 | 7.690174 | 7.55E-05 | 0.00204 | 2.027695 | 0.56415 | 0.771565 | -0.20742 | 4 | 81917939 | R | II | | IGR | opensea | IGR-opense | rs1122795 | 4 |
| cg2160895 | 0.235319 | 0.522603 | 7.689917 | 7.55E-05 | 0.00204 | 2.027454 | 0.404944 | 0.640263 | -0.23532 | 21 | 16273878 | R | II | | IGR | opensea | IGR-opense | rs5433571 | 1 |
| cg2329127 | 0.230887 | 0.602336 | 7.688837 | 7.56E-05 | 0.002041 | 2.026441 | 0.486893 | 0.717779 | -0.23089 | 12 | 15866615 | F | II | EPS8 | 5'UTR | opensea | 5'UTR-open | rs5346277 | 50 |
| cg0204312 | 0.215994 | 0.54743 | 7.688164 | 7.56E-05 | 0.002042 | 2.025809 | 0.439433 | 0.655427 | -0.21599 | 10 | 72299368 | F | II | PALD1 | Body | opensea | Body-opens | rs1440933 | 7;11;30;42 |
| cg1735754 | 0.210056 | 0.568267 | 7.687556 | 7.57E-05 | 0.002042 | 2.025238 | 0.463239 | 0.673295 | -0.21006 | 15 | 50429829 | F | II | | IGR | opensea | IGR-opense | | |
| cg1457153 | 0.207517 | 0.491702 | 7.687395 | 7.57E-05 | 0.002043 | 2.025087 | 0.387943 | 0.59546 | -0.20752 | 5 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | rs5593341 | 23;41 |
| cg0120460 | 0.227697 | 0.459458 | 7.687229 | 7.57E-05 | 0.002043 | 2.024931 | 0.345609 | 0.573306 | -0.2277 | 16 | 80619852 | R | II | | IGR | opensea | IGR-opense | rs5339601 | 27;21;14 |
| cg1141732 | 0.218623 | 0.351095 | 7.686411 | 7.58E-05 | 0.002044 | 2.024164 | 0.241784 | 0.460407 | -0.21862 | 1 | 41160271 | F | II | NFYC | 5'UTR | shelf | 5'UTR-shelf | chr1:4115 | rs1490175 | 1;10;26;32 |
| cg0407068 | 0.22007 | 0.449935 | 7.685805 | 7.58E-05 | 0.002044 | 2.023595 | 0.3399 | 0.55997 | -0.22007 | 10 | 75534560 | F | II | FUT11 | Body | shore | Body-shore | chr10:755 | | |
| cg1724572 | 0.213024 | 0.419293 | 7.685152 | 7.58E-05 | 0.002045 | 2.022982 | 0.312781 | 0.525805 | -0.21302 | 1 | 1.81E+08 | F | II | | IGR | opensea | IGR-opense | rs1146795 | 0 |
| cg1733049 | 0.257009 | 0.566935 | 7.684394 | 7.59E-05 | 0.002046 | 2.02227 | 0.438431 | 0.69544 | -0.25701 | 13 | 67550124 | F | II | PCDH9-AS3 | TSS1500 | opensea | TSS1500-op | rs5415131 | 32;46 |
| cg0084184 | 0.223398 | 0.455157 | 7.68433 | 7.59E-05 | 0.002046 | 2.02221 | 0.343459 | 0.566856 | -0.2234 | 2 | 8683604 | R | II | | IGR | opensea | IGR-opense | rs5480219 | 47 |
| cg2466112 | 0.216532 | 0.634861 | 7.682392 | 7.6E-05 | 0.002048 | 2.020391 | 0.526595 | 0.743127 | -0.21653 | 2 | 46295385 | F | II | PRKCE | Body | opensea | Body-opens | rs5357549 | 0 |
| cg1712397 | 0.217918 | 0.53582 | 7.681836 | 7.61E-05 | 0.002048 | 2.019868 | 0.426861 | 0.644778 | -0.21792 | 8 | 38635420 | F | II | TACC1 | 5'UTR | opensea | 5'UTR-open | rs1473601 | 22 |
| cg1363601 | 0.218545 | 0.497439 | 7.68153 | 7.61E-05 | 0.002049 | 2.019581 | 0.388167 | 0.606712 | -0.21855 | 9 | 84004731 | F | II | | IGR | opensea | IGR-opense | rs1113919 | 31;36;46;50 |
| cg0853511 | 0.216377 | 0.543269 | 7.678887 | 7.63E-05 | 0.002051 | 2.017099 | 0.43508 | 0.651457 | -0.21638 | 10 | 61418311 | R | II | SLC16A9 | Body | opensea | Body-opens | rs5726696 | 22;7;2 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1868999 | 0.224569 | 0.540618 | 7.678472 | 7.63E-05 | 0.002051 | 2.016708 | 0.428333 | 0.652902 | -0.22457 | 5 | 55164885 | R | II | IL31RA | 5'UTR | opensea | 5'UTR-open | | rs5300594 | 23;22;5;1 |
| cg0192820 | 0.225486 | 0.526578 | 7.677503 | 7.64E-05 | 0.002052 | 2.015798 | 0.413836 | 0.639321 | -0.22549 | 2 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5541598 | 19;4 |
| cg1975726 | 0.200704 | 0.581678 | 7.674567 | 7.66E-05 | 0.002054 | 2.013039 | 0.481326 | 0.68203 | -0.2007 | 10 | 44222463 | F | II | | IGR | shore | IGR-shore | chr10:442( | rs7329888 | 22;23 |
| cg2128108 | 0.277162 | 0.527943 | 7.673513 | 7.66E-05 | 0.002055 | 2.012049 | 0.389362 | 0.666525 | -0.27716 | 5 | 55067187 | R | II | DDX4 | Body | opensea | Body-opens | | rs5311283 | 28 |
| cg1637462 | 0.214664 | 0.399516 | 7.673143 | 7.67E-05 | 0.002056 | 2.011701 | 0.292184 | 0.506848 | -0.21466 | 4 | 90143489 | R | II | | IGR | opensea | IGR-opense | | rs17015194 | 46;45;16 |
| cg0158503 | 0.227318 | 0.530909 | 7.673055 | 7.67E-05 | 0.002056 | 2.011619 | 0.41725 | 0.644568 | -0.22732 | 21 | 39811743 | R | II | ERG | Body | opensea | Body-opens | | | |
| cg1974210 | 0.211292 | 0.63794 | 7.672079 | 7.67E-05 | 0.002057 | 2.010701 | 0.532294 | 0.743586 | -0.21129 | 5 | 88426429 | F | II | | IGR | opensea | IGR-opense | | rs7318108 | 0;3 |
| cg1274217 | 0.210219 | 0.577926 | 7.668148 | 7.7E-05 | 0.00206 | 2.007005 | 0.472817 | 0.683036 | -0.21022 | 12 | 1.03E+08 | R | II | IGF1 | Body | opensea | Body-opens | | rs5401299 | 23;1 |
| cg1891422 | 0.223878 | 0.587798 | 7.667296 | 7.71E-05 | 0.002061 | 2.006203 | 0.475859 | 0.699737 | -0.22388 | 9 | 1.3E+08 | R | II | RALGPS1 | Body | opensea | Body-opens | | rs2417044 | 15 |
| cg0084963 | 0.212725 | 0.47373 | 7.667157 | 7.71E-05 | 0.002061 | 2.006072 | 0.367367 | 0.580092 | -0.21273 | 15 | 50399974 | F | II | ATP8B4 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0981588 | 0.227864 | 0.60254 | 7.667081 | 7.71E-05 | 0.002061 | 2.006001 | 0.488608 | 0.716472 | -0.22786 | 12 | 93478385 | R | II | LOC643335 | Body | opensea | Body-opens | | rs1428527 | 38;28;7;2;1 |
| cg0164875 | 0.2152 | 0.597327 | 7.667046 | 7.71E-05 | 0.002061 | 2.005968 | 0.489727 | 0.704927 | -0.2152 | 5 | 38931978 | F | II | OSMR | ExonBnd | opensea | ExonBnd-o | | rs1483977 | 47;48 |
| cg0915245 | 0.216638 | 0.490175 | 7.666981 | 7.71E-05 | 0.002061 | 2.005906 | 0.381856 | 0.598494 | -0.21664 | 5 | 31742848 | F | II | | IGR | opensea | IGR-opense | | rs1815480 | 44 |
| cg1692232 | 0.221327 | 0.552669 | 7.665827 | 7.72E-05 | 0.002062 | 2.004821 | 0.442005 | 0.663333 | -0.22133 | 2 | 1.7E+08 | F | II | NOSTRIN | 5'UTR | opensea | 5'UTR-open | | rs5287805 | 26;51 |
| cg2667585 | 0.204189 | 0.524271 | 7.662486 | 7.74E-05 | 0.002065 | 2.001678 | 0.422176 | 0.626366 | -0.20419 | 9 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5584921 | 0;12 |
| cg0425581 | 0.212845 | 0.695031 | 7.661935 | 7.74E-05 | 0.002065 | 2.001158 | 0.588608 | 0.801453 | -0.21284 | 6 | 1.09E+08 | R | II | LINC00222 | Body | opensea | Body-opens | | rs1841963 | 32;18;5;2 |
| cg1875677 | 0.254379 | 0.590896 | 7.661758 | 7.74E-05 | 0.002065 | 2.000992 | 0.463707 | 0.718086 | -0.25438 | 10 | 1.12E+08 | R | II | DUSP5 | Body | shelf | Body-shelf | chr10:112( | rs1382536 | 42;38;14;5 |
| cg2023813 | 0.206953 | 0.680944 | 7.66027 | 7.75E-05 | 0.002066 | 1.999591 | 0.577468 | 0.78442 | -0.20695 | 1 | 2.46E+08 | R | II | KIF26B | Body | opensea | Body-opens | | rs1136597 | 2 |
| cg0603084 | 0.212907 | 0.561529 | 7.657945 | 7.77E-05 | 0.002069 | 1.997402 | 0.455075 | 0.667982 | -0.21291 | 3 | 1.33E+08 | F | II | TMEM108 | Body | opensea | Body-opens | | rs1858090 | 0;1 |
| cg0536068 | 0.241023 | 0.410026 | 7.657725 | 7.77E-05 | 0.002069 | 1.997196 | 0.289514 | 0.530537 | -0.24102 | 14 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1857465 | 2 |
| cg2223925 | 0.216726 | 0.527709 | 7.657637 | 7.77E-05 | 0.002069 | 1.997112 | 0.419347 | 0.636072 | -0.21673 | 10 | 33271411 | F | I | | IGR | shore | IGR-shore | chr10:332( | rs5452603 | 1;36 |
| cg0140004 | 0.232533 | 0.499102 | 7.655158 | 7.79E-05 | 0.002071 | 1.994778 | 0.382836 | 0.615368 | -0.23253 | 15 | 61091220 | R | II | RORA | Body | opensea | Body-opens | | | |
| cg1945606 | 0.230795 | 0.524093 | 7.655086 | 7.79E-05 | 0.002071 | 1.99471 | 0.408696 | 0.639491 | -0.2308 | 18 | 74076380 | R | II | ZNF516 | Body | opensea | Body-opens | | rs1505394 | 12;6 |
| cg2618836 | 0.223167 | 0.631602 | 7.654944 | 7.79E-05 | 0.002072 | 1.994576 | 0.520018 | 0.743185 | -0.22317 | 7 | 1.37E+08 | R | II | MIR490 | TSS1500 | opensea | TSS1500-o | | rs1893552 | 51;38;27;2;1 |
| cg0025780 | 0.216087 | 0.589226 | 7.651863 | 7.81E-05 | 0.002075 | 1.991674 | 0.481182 | 0.69727 | -0.21609 | 2 | 57938135 | R | II | | IGR | opensea | IGR-opense | | rs5446424 | 32;2;1 |
| cg1165921 | 0.23117 | 0.346215 | 7.649545 | 7.83E-05 | 0.002078 | 1.989489 | 0.23063 | 0.4618 | -0.23117 | 16 | 71642351 | F | II | | IGR | opensea | IGR-opense | | rs5538458 | 11;14;30;33 |
| cg1948221 | 0.252062 | 0.461339 | 7.649154 | 7.83E-05 | 0.002078 | 1.98912 | 0.335308 | 0.58737 | -0.25206 | 14 | 1.01E+08 | F | II | WDR25 | Body | opensea | Body-opens | | rs1392904 | 0;3;13 |
| cg0841204 | 0.212355 | 0.478961 | 7.648005 | 7.84E-05 | 0.00208 | 1.988037 | 0.372783 | 0.585138 | -0.21235 | 13 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5584778 | 35 |
| cg0768486 | 0.208002 | 0.480705 | 7.647799 | 7.84E-05 | 0.00208 | 1.987843 | 0.376704 | 0.584706 | -0.208 | 7 | 94122172 | R | II | | IGR | opensea | IGR-opense | | rs5603975 | 14;10 |
| cg0772530 | 0.211598 | 0.650579 | 7.647643 | 7.84E-05 | 0.00208 | 1.987696 | 0.54478 | 0.756378 | -0.2116 | 5 | 82730775 | F | II | | IGR | opensea | IGR-opense | | rs1449082 | 1;33;42 |
| cg2600305 | 0.206055 | 0.63111 | 7.647044 | 7.85E-05 | 0.00208 | 1.987131 | 0.528083 | 0.734138 | -0.20605 | 5 | 89908195 | F | II | GPR98 | Body | opensea | Body-opens | | rs1907576 | 1;28;35 |
| cg2621775 | 0.205118 | 0.61488 | 7.646449 | 7.85E-05 | 0.002081 | 1.98657 | 0.512321 | 0.717439 | -0.20512 | 15 | 40405659 | F | II | | IGR | opensea | IGR-opense | | rs5595421 | 1;31 |
| cg0612133 | 0.205174 | 0.651206 | 7.645735 | 7.85E-05 | 0.002081 | 1.985897 | 0.548619 | 0.753793 | -0.20517 | 9 | 77230148 | F | II | RORB | Body | opensea | Body-opens | | rs1480493 | 1 |
| cg0515929 | 0.209726 | 0.588772 | 7.644907 | 7.86E-05 | 0.002082 | 1.985116 | 0.483909 | 0.693635 | -0.20973 | 10 | 89870787 | F | II | | IGR | opensea | IGR-opense | | rs1924523 | 37 |
| cg0654121 | 0.217135 | 0.618529 | 7.644618 | 7.86E-05 | 0.002082 | 1.984844 | 0.509962 | 0.727097 | -0.21714 | 2 | 1.47E+08 | F | II | | IGR | opensea | IGR-opense | | rs1453170 | 10 |
| cg0423528 | 0.240251 | 0.601087 | 7.643776 | 7.87E-05 | 0.002083 | 1.98405 | 0.480962 | 0.721213 | -0.24025 | 2 | 1.03E+08 | R | II | SLC9A4 | Body | opensea | Body-opens | | rs1908159 | 46 |
| cg1481912 | 0.216258 | 0.642173 | 7.643305 | 7.87E-05 | 0.002084 | 1.983605 | 0.534043 | 0.750302 | -0.21626 | 2 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | rs5285125 | 1;23;37 |
| cg0731654 | 0.202714 | 0.615264 | 7.641753 | 7.88E-05 | 0.002085 | 1.982142 | 0.513907 | 0.716621 | -0.20271 | 9 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | | rs5305100 | 29;17;16 |
| cg0156940 | 0.212594 | 0.589436 | 7.640987 | 7.89E-05 | 0.002086 | 1.981419 | 0.483139 | 0.695733 | -0.21259 | 17 | 8824661 | F | II | PIK3R5 | 5'UTR | opensea | 5'UTR-open | | rs1475678 | 0;1 |
| cg2730929 | 0.216554 | 0.585288 | 7.640755 | 7.89E-05 | 0.002086 | 1.9812 | 0.477012 | 0.693565 | -0.21655 | 10 | 71867356 | F | II | H2AFY2 | Body | opensea | Body-opens | | rs5722344 | 0;1 |
| cg2202005 | 0.240709 | 0.530685 | 7.640676 | 7.89E-05 | 0.002086 | 1.981125 | 0.410331 | 0.65104 | -0.24071 | 6 | 88417020 | F | II | | IGR | opensea | IGR-opense | | rs5637637 | 1;6 |
| cg0072183 | 0.230513 | 0.645073 | 7.640066 | 7.89E-05 | 0.002087 | 1.98055 | 0.529816 | 0.760329 | -0.23051 | 20 | 50033738 | F | II | NFATC2 | Body | opensea | Body-opens | | rs8006186 | 11 |
| cg0348942 | 0.216512 | 0.661317 | 7.639678 | 7.9E-05 | 0.002087 | 1.980184 | 0.553062 | 0.769573 | -0.21651 | 8 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0679343 | 0.230296 | 0.596624 | 7.63795 | 7.91E-05 | 0.002089 | 1.978553 | 0.481476 | 0.711772 | -0.2303 | 2 | 2.32E+08 | R | II | ARMC9 | Body | opensea | Body-opens | | rs1906056 | 23;15;1 |
| cg1623627 | 0.234646 | 0.448156 | 7.637915 | 7.91E-05 | 0.002089 | 1.97852 | 0.330833 | 0.565479 | -0.23465 | 6 | 87891939 | F | II | ZNF292 | Body | opensea | Body-opens | | rs5755990 | 10;21;22 |
| cg0092220 | 0.208208 | 0.721317 | 7.636577 | 7.92E-05 | 0.002091 | 1.977257 | 0.617212 | 0.825421 | -0.20821 | 7 | 83742233 | F | II | SEMA3A | Body | opensea | Body-opens | | rs1322360 | 1;32;33 |
| cg0894579 | 0.2609 | 0.51415 | 7.635365 | 7.93E-05 | 0.002092 | 1.976114 | 0.3837 | 0.6446 | -0.2609 | 13 | 27571183 | R | II | | IGR | opensea | IGR-opense | | rs5447545 | 2 |
| cg2101706 | 0.213457 | 0.533929 | 7.634047 | 7.94E-05 | 0.002093 | 1.974869 | 0.4272 | 0.640658 | -0.21346 | 13 | 61001645 | R | II | TDRD3 | 5'UTR | opensea | 5'UTR-open | | rs1123258 | 26 |
| cg0399232 | 0.233853 | 0.609466 | 7.631577 | 7.95E-05 | 0.002095 | 1.972536 | 0.492539 | 0.726392 | -0.23385 | 1 | 2.24E+08 | R | II | TP53BP2 | Body | opensea | Body-opens | | rs7473998 | 44;41;39 |
| cg1639810 | 0.201089 | 0.646833 | 7.628865 | 7.97E-05 | 0.002098 | 1.969974 | 0.546289 | 0.747377 | -0.20109 | 12 | 66331507 | R | II | HMGA2 | Body | opensea | Body-opens | | rs5318896 | 24;2 |
| cg0456484 | 0.204165 | 0.515394 | 7.628235 | 7.98E-05 | 0.002098 | 1.96938 | 0.413312 | 0.617476 | -0.20416 | 17 | 67651487 | F | II | LINC01483 | Body | opensea | Body-opens | | rs1385215 | 0;23;34 |
| cg0291753 | 0.213555 | 0.546038 | 7.627255 | 7.99E-05 | 0.002098 | 1.968454 | 0.43926 | 0.652816 | -0.21356 | 6 | 1.5E+08 | F | II | TAB2 | Body | shelf | Body-shelf | chr6:14967 | rs5336620 | 14 |
| cg2687632 | 0.226612 | 0.553905 | 7.627018 | 7.99E-05 | 0.002099 | 1.96823 | 0.440599 | 0.667211 | -0.22661 | 1 | 2.45E+08 | R | II | | IGR | opensea | IGR-opense | | rs5782582 | 13;2 |
| cg1576533 | 0.235775 | 0.58615 | 7.624994 | 8E-05 | 0.0021 | 1.966317 | 0.468262 | 0.704037 | -0.23578 | 17 | 25546334 | F | II | | IGR | opensea | IGR-opense | | rs5694464 | 0;21;39;44 |
| cg2285697 | 0.20233 | 0.65725 | 7.624645 | 8E-05 | 0.002101 | 1.965987 | 0.556085 | 0.758415 | -0.20233 | 1 | 1.81E+08 | R | II | | IGR | opensea | IGR-opense | | rs1155639 | 43;2 |
| cg2437185 | 0.208444 | 0.646975 | 7.623824 | 8.01E-05 | 0.002101 | 1.965211 | 0.542753 | 0.751197 | -0.20844 | 5 | 31882166 | R | II | PDZD2 | Body | opensea | Body-opens | | rs6895128 | 27;26 |
| cg1309345 | 0.202956 | 0.699119 | 7.621085 | 8.03E-05 | 0.002104 | 1.962622 | 0.59764 | 0.800597 | -0.20296 | 16 | 83826869 | F | II | CDH13 | Body | opensea | Body-opens | | rs7996293 | 44 |
| cg2450249 | 0.224226 | 0.401812 | 7.620889 | 8.03E-05 | 0.002104 | 1.962436 | 0.289699 | 0.513924 | -0.22423 | 2 | 20981591 | F | II | LDAH | 5'UTR | opensea | 5'UTR-open | | rs5354175 | 1 |
| cg1649647 | 0.220742 | 0.585987 | 7.619745 | 8.04E-05 | 0.002105 | 1.961354 | 0.475616 | 0.696358 | -0.22074 | 2 | 1.15E+08 | F | II | LOC101066 | Body | opensea | Body-opens | | rs5752980 | 1 |
| cg0360757 | 0.230941 | 0.412285 | 7.619145 | 8.04E-05 | 0.002106 | 1.960786 | 0.296815 | 0.527756 | -0.23094 | 11 | 93471889 | R | II | TAF1D | Body | shelf | Body-shelf | chr11:934( | rs7118615 | 50 |
| cg0432415 | 0.212363 | 0.709529 | 7.616826 | 8.06E-05 | 0.002108 | 1.958593 | 0.603348 | 0.815711 | -0.21236 | 3 | 1.68E+08 | F | II | | IGR | opensea | IGR-opense | | rs1809462 | 0;17;20 |
| cg0675476 | 0.202807 | 0.572484 | 7.616558 | 8.06E-05 | 0.002108 | 1.95834 | 0.471081 | 0.673888 | -0.20281 | 6 | 72253845 | R | II | | IGR | opensea | IGR-opense | | rs5607735 | 46;16 |
| cg0332020 | 0.21565 | 0.567447 | 7.615804 | 8.07E-05 | 0.002109 | 1.957626 | 0.459622 | 0.675272 | -0.21565 | 5 | 1.67E+08 | F | II | TENM2 | Body | opensea | Body-opens | | rs5611869 | 1;14 |
| cg1740312 | 0.206613 | 0.653271 | 7.615642 | 8.07E-05 | 0.002109 | 1.957473 | 0.549965 | 0.756577 | -0.20661 | 11 | 6222458 | F | II | | IGR | opensea | IGR-opense | | rs7708650 | 10;44;45 |
| cg0589847 | 0.209224 | 0.556778 | 7.613147 | 8.09E-05 | 0.002111 | 1.955113 | 0.452166 | 0.66139 | -0.20922 | 2 | 2.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5753321 | 1 |
| cg0970083 | 0.237281 | 0.46287 | 7.612308 | 8.09E-05 | 0.002112 | 1.954318 | 0.34423 | 0.58151 | -0.23728 | 10 | 1.24E+08 | F | II | ATE1 | Body | opensea | Body-opens | | rs5778852 | 3 |
| cg1243151 | 0.267747 | 0.579245 | 7.611934 | 8.1E-05 | 0.002112 | 1.953964 | 0.445371 | 0.713118 | -0.26775 | 7 | 26428084 | R | II | | IGR | opensea | IGR-opense | | rs5350934 | 46;37 |
| cg0557442 | 0.245585 | 0.439826 | 7.611071 | 8.1E-05 | 0.002113 | 1.953147 | 0.317033 | 0.562618 | -0.24559 | 7 | 1.43E+08 | R | II | OR6W1P | TSS1500 | opensea | TSS1500-o | | rs5717869 | 1 |
| cg0793974 | 0.256059 | 0.371129 | 7.610276 | 8.11E-05 | 0.002114 | 1.952394 | 0.2431 | 0.499159 | -0.25606 | 4 | 57507828 | F | II | | IGR | opensea | IGR-opense | | rs5697734 | 1;3;10 |
| cg1800797 | 0.226635 | 0.46791 | 7.61006 | 8.11E-05 | 0.002114 | 1.95219 | 0.354592 | 0.581227 | -0.22663 | 19 | 38918129 | F | II | RASGRP4 | TSS1500 | opensea | TSS1500-o | | rs1401830 | 0;6;26;28;34 |
| cg0827157 | 0.202273 | 0.589992 | 7.609788 | 8.11E-05 | 0.002114 | 1.951933 | 0.488856 | 0.691128 | -0.20227 | 9 | 6683284 | R | II | | IGR | shore | IGR-shore | chr9:6680( | rs5288425 | 45 |
| cg0184545 | 0.200339 | 0.649515 | 7.608703 | 8.12E-05 | 0.002115 | 1.950905 | 0.549346 | 0.749685 | -0.20034 | 21 | 40204504 | R | II | | IGR | opensea | IGR-opense | | rs5598858 | 37;35 |
| cg0476683 | 0.225535 | 0.588054 | 7.608553 | 8.12E-05 | 0.002115 | 1.950763 | 0.475287 | 0.700822 | -0.22553 | 7 | 20647070 | F | II | | IGR | opensea | IGR-opense | | rs1911644 | 1;25;38 |
| cg2363569 | 0.214991 | 0.586307 | 7.607517 | 8.13E-05 | 0.002117 | 1.949782 | 0.478812 | 0.693803 | -0.21499 | 22 | 23131902 | F | II | | IGR | opensea | IGR-opense | | rs5626338 | 1 |
| cg1233521 | 0.234979 | 0.519377 | 7.607167 | 8.13E-05 | 0.002117 | 1.949451 | 0.401888 | 0.636867 | -0.23498 | 4 | 39661877 | F | II | | IGR | opensea | IGR-opense | | rs1853423 | 0 |
| cg0354841 | 0.279709 | 0.461009 | 7.606899 | 8.13E-05 | 0.002117 | 1.949197 | 0.321154 | 0.600863 | -0.27971 | 11 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5594888 | 49 |
| cg0846056 | 0.204563 | 0.692165 | 7.606095 | 8.14E-05 | 0.002118 | 1.948435 | 0.589884 | 0.794447 | -0.20456 | 7 | 29950752 | R | II | WIPF3 | Body | opensea | Body-opens | | rs3688830 | 2 |
| cg0842356 | 0.238755 | 0.465731 | 7.605047 | 8.15E-05 | 0.002119 | 1.947442 | 0.346353 | 0.585108 | -0.23875 | 9 | 20355400 | F | II | MLLT3 | Body | opensea | Body-opens | | rs5312661 | 25;48 |
| cg1332223 | 0.211003 | 0.455196 | 7.604586 | 8.15E-05 | 0.00212 | 1.947006 | 0.349695 | 0.560698 | -0.211 | 15 | 54025579 | R | II | WDR72 | 5'UTR | opensea | 5'UTR-open | | rs5406711 | 16;13;2;1 |
| cg0614736 | 0.228452 | 0.665436 | 7.603711 | 8.16E-05 | 0.002121 | 1.946177 | 0.55121 | 0.779662 | -0.22845 | 12 | 24689930 | R | II | SOX5 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2162972 | 0.222471 | 0.719089 | 7.603515 | 8.16E-05 | 0.002121 | 1.945992 | 0.607853 | 0.830324 | -0.22247 | 10 | 20249114 | R | II | PLXDC2 | Body | opensea | Body-opens | | rs5597220 | 31;27 |
| cg0101536 | 0.216845 | 0.533539 | 7.603481 | 8.16E-05 | 0.002121 | 1.945959 | 0.425116 | 0.641962 | -0.21685 | 3 | 1.85E+08 | F | II | MAP3K13 | 5'UTR | opensea | 5'UTR-open | | rs5492391 | 1 |
| cg0491079 | 0.229097 | 0.561104 | 7.603093 | 8.16E-05 | 0.002122 | 1.945591 | 0.446556 | 0.675652 | -0.2291 | 21 | 32585992 | R | II | TIAM1 | Body | opensea | Body-opens | | rs3733863 | 5 |
| cg0409987 | 0.20146 | 0.71299 | 7.601928 | 8.17E-05 | 0.002123 | 1.944487 | 0.61226 | 0.81372 | -0.20146 | 2 | 9232531 | R | II | | IGR | opensea | IGR-opense | | rs1457358 | 21 |
| cg1904019 | 0.215578 | 0.610821 | 7.601545 | 8.17E-05 | 0.002123 | 1.944124 | 0.503032 | 0.71861 | -0.21558 | 2 | 60687132 | R | II | BCL11A | 3'UTR | shore | 3'UTR-shor | chr2:6068 | rs1819795 | 49;36;15 |
| cg1041712 | 0.223119 | 0.520998 | 7.601516 | 8.17E-05 | 0.002123 | 1.944097 | 0.409439 | 0.632558 | -0.22312 | 8 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5309705 | 42 |
| cg1787559 | 0.241314 | 0.543562 | 7.601114 | 8.17E-05 | 0.002123 | 1.943716 | 0.422906 | 0.664219 | -0.24131 | 2 | 69085258 | R | II | | IGR | opensea | IGR-opense | | rs5635044 | 2 |
| cg0086886 | 0.206445 | 0.648307 | 7.601017 | 8.18E-05 | 0.002123 | 1.943624 | 0.545084 | 0.751529 | -0.20644 | 12 | 55041948 | R | II | DCD | Body | opensea | Body-opens | | rs1487161 | 2 |
| cg1059773 | 0.209869 | 0.487947 | 7.60047 | 8.18E-05 | 0.002124 | 1.943106 | 0.383012 | 0.592881 | -0.20987 | 15 | 65682326 | R | II | IGDCC4 | Body | opensea | Body-opens | | rs5465504 | 47;24;10;2 |
| cg2169421 | 0.21435 | 0.591471 | 7.600434 | 8.18E-05 | 0.002124 | 1.943071 | 0.484296 | 0.698646 | -0.21435 | 8 | 48565455 | F | II | SPIDR | Body | opensea | Body-opens | | rs5326918 | 6;8 |
| cg1951318 | 0.255936 | 0.495011 | 7.600393 | 8.18E-05 | 0.002124 | 1.943033 | 0.367043 | 0.622979 | -0.25594 | 1 | 2.1E+08 | F | II | | IGR | shore | IGR-shore | chr1:2099( | rs5334262 | 1;2;4;22 |
| cg2255029 | 0.203741 | 0.601679 | 7.60033 | 8.18E-05 | 0.002124 | 1.942973 | 0.499808 | 0.703549 | -0.20374 | 10 | 30008454 | F | II | SVIL | 5'UTR | opensea | 5'UTR-open | | rs5493365 | 0;16 |
| cg1353265 | 0.215171 | 0.621728 | 7.599583 | 8.19E-05 | 0.002124 | 1.942265 | 0.514143 | 0.729314 | -0.21517 | 13 | 67013293 | R | II | PCDH9 | Body | opensea | Body-opens | | | |
| cg0127249 | 0.203443 | 0.717569 | 7.599067 | 8.19E-05 | 0.002125 | 1.941776 | 0.615848 | 0.81929 | -0.20344 | 4 | 1.6E+08 | F | II | | IGR | opensea | IGR-opense | | rs1877097 | 1 |
| cg1422072 | 0.207151 | 0.710814 | 7.598103 | 8.2E-05 | 0.002126 | 1.940862 | 0.607238 | 0.814389 | -0.20715 | 4 | 1.02E+08 | R | II | PPP3CA | Body | opensea | Body-opens | | | |
| cg1914636 | 0.200961 | 0.426864 | 7.597864 | 8.2E-05 | 0.002126 | 1.940635 | 0.326384 | 0.527345 | -0.20096 | 5 | 36279612 | F | II | RANBP3L | Body | opensea | Body-opens | | | |
| cg1698938 | 0.214275 | 0.536763 | 7.597402 | 8.2E-05 | 0.002126 | 1.940197 | 0.429626 | 0.643901 | -0.21427 | 3 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2200837 | 0.228875 | 0.624236 | 7.596475 | 8.21E-05 | 0.002128 | 1.939319 | 0.509798 | 0.738673 | -0.22888 | 4 | 38711666 | F | II | | IGR | opensea | IGR-opense | | rs1313295 | 18;39;51 |
| cg0035333 | 0.233541 | 0.535644 | 7.596177 | 8.21E-05 | 0.002128 | 1.939036 | 0.418874 | 0.652415 | -0.23354 | 4 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs7572287 | 29;24;18 |
| cg0257626 | 0.203543 | 0.621049 | 7.595323 | 8.22E-05 | 0.002129 | 1.938226 | 0.519278 | 0.722821 | -0.20354 | 1 | 1.17E+08 | R | II | SLC22A15 | Body | opensea | Body-opens | | | |
| cg2180824 | 0.200235 | 0.674447 | 7.594532 | 8.22E-05 | 0.00213 | 1.937476 | 0.57433 | 0.774565 | -0.20023 | 17 | 14640085 | R | II | | IGR | opensea | IGR-opense | | rs5293328 | 34 |
| cg1049245 | 0.206274 | 0.522398 | 7.59441 | 8.22E-05 | 0.00213 | 1.93736 | 0.419261 | 0.625535 | -0.20627 | 2 | 2.26E+08 | R | II | NYAP2 | Body | opensea | Body-opens | | | |
| cg0125708 | 0.222072 | 0.534921 | 7.594373 | 8.22E-05 | 0.00213 | 1.937325 | 0.423885 | 0.645957 | -0.22207 | 6 | 25706812 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1830000 | 0.201061 | 0.681796 | 7.592628 | 8.24E-05 | 0.002132 | 1.93567 | 0.581265 | 0.782326 | -0.20106 | 6 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs1818383 | 28;16;4 |
| cg0620277 | 0.221072 | 0.663297 | 7.592019 | 8.24E-05 | 0.002132 | 1.935092 | 0.552761 | 0.773833 | -0.22107 | 4 | 57514827 | R | II | HOPX | 3'UTR | opensea | 3'UTR-open | | rs5553330 | 32;29;22;21;18;2;1 |
| cg1883586 | 0.227728 | 0.450695 | 7.591926 | 8.24E-05 | 0.002132 | 1.935004 | 0.336831 | 0.564559 | -0.22773 | 14 | 52020726 | F | II | FRMD6 | 5'UTR | opensea | 5'UTR-open | | rs1126210 | 2;30;32;37 |
| cg1021676 | 0.201245 | 0.428368 | 7.588741 | 8.27E-05 | 0.002136 | 1.931982 | 0.327746 | 0.528991 | -0.20124 | 17 | 76313052 | R | II | | IGR | shelf | IGR-shelf | chr17:763( | rs5364750 | 35;32;27;1 |
| cg0207249 | 0.251953 | 0.522086 | 7.58864 | 8.27E-05 | 0.002136 | 1.931886 | 0.39611 | 0.648063 | -0.25195 | 15 | 60689285 | F | II | ANXA2 | 5'UTR | shore | 5'UTR-shor | chr15:606( | rs5757140 | 27;50 |
| cg0758107 | 0.259535 | 0.523348 | 7.588366 | 8.27E-05 | 0.002136 | 1.931626 | 0.39358 | 0.653116 | -0.25954 | 6 | 40291048 | F | II | | IGR | opensea | IGR-opense | | rs6032991 | 0;26 |
| cg0937313 | 0.208119 | 0.601447 | 7.587489 | 8.28E-05 | 0.002137 | 1.930794 | 0.497388 | 0.705506 | -0.20812 | 17 | 61933544 | F | II | TCAM1 | TSS1500 | opensea | TSS1500-o | | rs1831117 | 3;11;39 |
| cg0212074 | 0.223507 | 0.567527 | 7.586849 | 8.28E-05 | 0.002137 | 1.930186 | 0.455774 | 0.67928 | -0.22351 | 9 | 1.09E+08 | R | II | LINC01505 | Body | opensea | Body-opens | | rs1505325 | 32 |
| cg2597092 | 0.222929 | 0.436508 | 7.586014 | 8.29E-05 | 0.002138 | 1.929393 | 0.325043 | 0.547973 | -0.22293 | 21 | 26933520 | F | II | MIR155HG | TSS1500 | shore | TSS1500-sh | chr21:269( | rs1911841 | 16 |
| cg1255841 | 0.218418 | 0.578489 | 7.585489 | 8.29E-05 | 0.002139 | 1.928895 | 0.46928 | 0.687698 | -0.21842 | 5 | 38289749 | F | II | EGFLAM-AS | Body | opensea | Body-opens | | rs5582633 | 0;9 |
| cg1649515 | 0.248456 | 0.477029 | 7.585462 | 8.29E-05 | 0.002139 | 1.92887 | 0.352801 | 0.601257 | -0.24846 | 12 | 79802105 | F | II | SYT1 | Body | opensea | Body-opens | | rs5764822 | 0 |
| cg0975880 | 0.232491 | 0.438726 | 7.585346 | 8.29E-05 | 0.002139 | 1.928759 | 0.32248 | 0.554971 | -0.23249 | 7 | 54870727 | F | II | LOC10099( | Body | opensea | Body-opens | | rs5474794 | 1;2 |
| cg0767689 | 0.233962 | 0.49134 | 7.584764 | 8.3E-05 | 0.002139 | 1.928207 | 0.374359 | 0.608321 | -0.23396 | 19 | 5213590 | R | II | PTPRS | Body | shore | Body-shore | chr19:521( | rs5538257 | 43 |
| cg0439339 | 0.202522 | 0.503313 | 7.584397 | 8.3E-05 | 0.00214 | 1.927858 | 0.402052 | 0.604574 | -0.20252 | 11 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | | rs5663130 | 1 |
| cg1387993 | 0.241693 | 0.422317 | 7.584051 | 8.3E-05 | 0.00214 | 1.927529 | 0.30147 | 0.543163 | -0.24169 | 15 | 42265413 | R | II | EHD4 | TSS1500 | shore | TSS1500-sh | chr15:422( | rs5329212 | 51;19 |
| cg1617725 | 0.252803 | 0.65897 | 7.583476 | 8.31E-05 | 0.002141 | 1.926984 | 0.532568 | 0.785371 | -0.2528 | 6 | 1.2E+08 | F | II | MAN1A1 | Body | opensea | Body-opens | | rs5548515 | 44 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0221343 | 0.231692 | 0.582548 | 7.581355 | 8.32E-05 | 0.002143 | 1.924969 | 0.466702 | 0.698395 | -0.23169 | 16 | 1650791 | F | II | IFT140 | Body | opensea | Body-opens | | rs1888232 | 36;37;50 |
| cg0096989 | 0.202061 | 0.475711 | 7.580554 | 8.33E-05 | 0.002144 | 1.924208 | 0.374681 | 0.576741 | -0.20206 | 15 | 63133069 | F | II | TLN2 | 3'UTR | opensea | 3'UTR-open | | rs1463595 | 11;39;44 |
| cg1244350 | 0.222088 | 0.507598 | 7.580488 | 8.33E-05 | 0.002144 | 1.924145 | 0.396554 | 0.618642 | -0.22209 | 2 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5491095 | 9 |
| cg1275452 | 0.219648 | 0.611718 | 7.57885 | 8.34E-05 | 0.002145 | 1.92259 | 0.501894 | 0.721542 | -0.21965 | 9 | 1.34E+08 | R | II | RAPGEF1 | Body | opensea | Body-opens | | | |
| cg1830591 | 0.212212 | 0.630671 | 7.578539 | 8.34E-05 | 0.002146 | 1.922294 | 0.524565 | 0.736777 | -0.21221 | 2 | 59789603 | R | II | | IGR | opensea | IGR-opense | | rs7295517 | 36 |
| cg2485944 | 0.202173 | 0.616591 | 7.578499 | 8.34E-05 | 0.002146 | 1.922256 | 0.515505 | 0.717678 | -0.20217 | 3 | 1.55E+08 | F | II | | IGR | opensea | IGR-opense | | rs5520512 | 25;42 |
| cg1536882 | 0.262239 | 0.514175 | 7.577864 | 8.35E-05 | 0.002146 | 1.921652 | 0.383056 | 0.645295 | -0.26224 | 10 | 31293955 | F | II | ZNF438 | Body | opensea | Body-opens | | rs1424217 | 45 |
| cg2474550 | 0.265561 | 0.505647 | 7.577023 | 8.35E-05 | 0.002147 | 1.920853 | 0.372866 | 0.638427 | -0.26556 | 4 | 88728805 | R | II | IBSP | Body | opensea | Body-opens | | rs5392891 | 47;21;14;1 |
| cg1280604 | 0.233901 | 0.564726 | 7.576632 | 8.36E-05 | 0.002147 | 1.920482 | 0.447775 | 0.681676 | -0.2339 | 14 | 51208379 | R | II | NIN | Body | opensea | Body-opens | | rs1486194 | 4 |
| cg1613261 | 0.233193 | 0.648321 | 7.576447 | 8.36E-05 | 0.002147 | 1.920306 | 0.531724 | 0.764917 | -0.23319 | 5 | 1.26E+08 | F | II | MARCH3 | 5'UTR | opensea | 5'UTR-open | | rs5688538 | 1;4;25;48 |
| cg0522667 | 0.212903 | 0.664683 | 7.576321 | 8.36E-05 | 0.002147 | 1.920186 | 0.558232 | 0.771135 | -0.2129 | 2 | 2.32E+08 | R | II | ARMC9 | Body | opensea | Body-opens | | | |
| cg1907489 | 0.207519 | 0.631815 | 7.574909 | 8.37E-05 | 0.002148 | 1.918844 | 0.528055 | 0.735575 | -0.20752 | 4 | 74574840 | F | II | | IGR | opensea | IGR-opense | | rs5551728 | 1;16 |
| cg0073439 | 0.243011 | 0.60001 | 7.571877 | 8.39E-05 | 0.002152 | 1.915962 | 0.478504 | 0.721516 | -0.24301 | 10 | 4122651 | R | II | LOC101927 | Body | opensea | Body-opens | | rs1166529 | 22;5;2 |
| cg1830503 | 0.216868 | 0.616736 | 7.569979 | 8.41E-05 | 0.002153 | 1.914157 | 0.508302 | 0.725171 | -0.21687 | 21 | 35578464 | R | II | | IGR | shelf | IGR-shelf | chr21:355 | rs1837840 | 46;29;8;1 |
| cg1581196 | 0.210348 | 0.457234 | 7.569688 | 8.41E-05 | 0.002154 | 1.91388 | 0.35206 | 0.562408 | -0.21035 | 12 | 91505941 | F | II | LUM | TSS1500 | opensea | TSS1500-op | | rs1388144 | 1 |
| cg2604933 | 0.213827 | 0.564912 | 7.569572 | 8.41E-05 | 0.002154 | 1.91377 | 0.457999 | 0.671825 | -0.21383 | 12 | 12435784 | R | II | | IGR | opensea | IGR-opense | | rs1379252 | 2;1 |
| cg0056384 | 0.205899 | 0.668528 | 7.56833 | 8.42E-05 | 0.002155 | 1.912589 | 0.565579 | 0.771477 | -0.2059 | 5 | 93530270 | F | II | C5orf36 | Body | opensea | Body-opens | | rs5484228 | 32;41;43 |
| cg1000219 | 0.202241 | 0.651092 | 7.567773 | 8.42E-05 | 0.002156 | 1.912059 | 0.549972 | 0.752213 | -0.20224 | 6 | 3526492 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0870354 | 0.206489 | 0.410346 | 7.567213 | 8.43E-05 | 0.002156 | 1.911526 | 0.307102 | 0.513591 | -0.20649 | 15 | 33525475 | R | II | | IGR | opensea | IGR-opense | | rs1442067 | 51;43;38;2 |
| cg0299625 | 0.244646 | 0.407316 | 7.566952 | 8.43E-05 | 0.002156 | 1.911277 | 0.284992 | 0.529639 | -0.24465 | 13 | 52569011 | R | II | ATP7B | Body | opensea | Body-opens | | rs1861917 | 6 |
| cg1662261 | 0.215216 | 0.690384 | 7.566341 | 8.43E-05 | 0.002157 | 1.910696 | 0.582776 | 0.797992 | -0.21522 | 1 | 66713511 | F | II | PDE4B | Body | opensea | Body-opens | | rs5686325 | 1;9;46 |
| cg2445831 | 0.224953 | 0.500341 | 7.56616 | 8.44E-05 | 0.002157 | 1.910524 | 0.387864 | 0.612817 | -0.22495 | 7 | 18679329 | F | II | HDAC9 | Body | opensea | Body-opens | | rs5359762 | 7 |
| cg0198878 | 0.200486 | 0.677229 | 7.564697 | 8.45E-05 | 0.002159 | 1.909132 | 0.576986 | 0.777472 | -0.20049 | 4 | 1.71E+08 | F | II | LOC100505 | Body | opensea | Body-opens | | rs1499815 | 0;46 |
| cg1259422 | 0.243906 | 0.497014 | 7.564206 | 8.45E-05 | 0.002159 | 1.908664 | 0.375061 | 0.618967 | -0.24391 | 12 | 1.01E+08 | R | II | GAS2L3 | 5'UTR | shelf | 5'UTR-shelf | chr12:100 | rs5274976 | 32;2;1 |
| cg0395673 | 0.203532 | 0.629037 | 7.563496 | 8.46E-05 | 0.00216 | 1.907989 | 0.52727 | 0.730803 | -0.20353 | 15 | 38619073 | F | II | SPRED1 | Body | opensea | Body-opens | | rs5280015 | 15 |
| cg0340603 | 0.214204 | 0.678727 | 7.562893 | 8.46E-05 | 0.002161 | 1.907415 | 0.571626 | 0.785829 | -0.2142 | 9 | 94277498 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2095969 | 0.221261 | 0.651737 | 7.560791 | 8.48E-05 | 0.002163 | 1.905414 | 0.541106 | 0.762368 | -0.22126 | 2 | 2.24E+08 | R | II | KCNE4 | TSS1500 | shelf | TSS1500-sh | chr2:2239 | rs5463765 | 39;7 |
| cg0870784 | 0.239664 | 0.447887 | 7.560247 | 8.48E-05 | 0.002163 | 1.904896 | 0.328055 | 0.567719 | -0.23966 | 10 | 13061436 | R | II | CCDC3 | 5'UTR | opensea | 5'UTR-open | | rs5510475 | 8 |
| cg2365440 | 0.253491 | 0.534699 | 7.559568 | 8.49E-05 | 0.002164 | 1.904249 | 0.407953 | 0.661444 | -0.25349 | 7 | 55606442 | F | II | VOPP1 | Body | opensea | Body-opens | | rs5632752 | 31 |
| cg1305263 | 0.221426 | 0.651403 | 7.558484 | 8.49E-05 | 0.002165 | 1.903218 | 0.54069 | 0.762116 | -0.22143 | 1 | 2.07E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:2066 | rs5474871 | 10;36;37;46 |
| cg0130368 | 0.218879 | 0.607249 | 7.557352 | 8.5E-05 | 0.002166 | 1.90214 | 0.49781 | 0.716689 | -0.21888 | 20 | 24089848 | R | II | | IGR | opensea | IGR-opense | | rs1853614 | 46;31;1 |
| cg0527476 | 0.221079 | 0.582019 | 7.557237 | 8.5E-05 | 0.002166 | 1.90203 | 0.47148 | 0.692559 | -0.22108 | 4 | 75276066 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1562793 | 0.207175 | 0.542862 | 7.557083 | 8.5E-05 | 0.002166 | 1.901883 | 0.439274 | 0.646449 | -0.20717 | 7 | 50871576 | F | II | | IGR | opensea | IGR-opense | | rs1827449 | 1 |
| cg2232171 | 0.264675 | 0.521753 | 7.556677 | 8.51E-05 | 0.002166 | 1.901497 | 0.389415 | 0.654091 | -0.26468 | 17 | 34219858 | R | II | | IGR | opensea | IGR-opense | | rs3826454 | 36;20;1 |
| cg1978702 | 0.21377 | 0.677528 | 7.556067 | 8.51E-05 | 0.002167 | 1.900915 | 0.570643 | 0.784413 | -0.21377 | 10 | 52072918 | F | II | SGMS1 | Body | opensea | Body-opens | | | |
| cg1605541 | 0.247797 | 0.549118 | 7.55442 | 8.53E-05 | 0.002169 | 1.899346 | 0.425219 | 0.673016 | -0.2478 | 6 | 31146124 | R | II | PSORS1C3 | TSS1500 | shelf | TSS1500-sh | chr6:3114 | rs3758451 | 51;16 |
| cg0475741 | 0.230215 | 0.57357 | 7.553702 | 8.53E-05 | 0.002169 | 1.898662 | 0.458463 | 0.688677 | -0.23021 | 13 | 76259545 | F | II | LMO7 | Body | opensea | Body-opens | | rs7483109 | 21;30 |
| cg0909759 | 0.204211 | 0.584642 | 7.552784 | 8.54E-05 | 0.00217 | 1.897787 | 0.482536 | 0.686747 | -0.20421 | 1 | 22183322 | R | II | HSPG2 | Body | opensea | Body-opens | | rs1863170 | 16;10 |
| cg2030557 | 0.229341 | 0.524394 | 7.551174 | 8.55E-05 | 0.002172 | 1.896253 | 0.409724 | 0.639065 | -0.22934 | 13 | 28968481 | F | II | FLT1 | Body | opensea | Body-opens | | rs1753765 | 29;31 |
| cg0906702 | 0.229153 | 0.562673 | 7.551161 | 8.55E-05 | 0.002172 | 1.896241 | 0.448096 | 0.677249 | -0.22915 | 1 | 1.87E+08 | R | II | PLA2G4A | Body | opensea | Body-opens | | rs5485340 | 9 |
| cg0210572 | 0.212713 | 0.63933 | 7.551064 | 8.55E-05 | 0.002172 | 1.896148 | 0.532973 | 0.745686 | -0.21271 | 9 | 72002586 | R | II | FAM189A2 | Body | opensea | Body-opens | | rs867365 | 34;14 |
| cg0981432 | 0.250609 | 0.675325 | 7.550449 | 8.56E-05 | 0.002172 | 1.895562 | 0.550021 | 0.80063 | -0.25061 | 14 | 81740696 | F | II | STON2 | Body | opensea | Body-opens | | rs1143304 | 19;28 |
| cg2569072 | 0.203483 | 0.591987 | 7.550444 | 8.56E-05 | 0.002172 | 1.895558 | 0.490246 | 0.693728 | -0.20348 | 5 | 1.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs5558101 | 27;18;2 |
| cg0712246 | 0.213814 | 0.485446 | 7.54937 | 8.56E-05 | 0.002173 | 1.894534 | 0.378539 | 0.592353 | -0.21381 | 12 | 4287879 | F | II | | IGR | opensea | IGR-opense | | rs1476594 | 1;48 |
| cg0995399 | 0.224388 | 0.430183 | 7.549093 | 8.57E-05 | 0.002174 | 1.89427 | 0.317989 | 0.542377 | -0.22439 | 13 | 76372944 | F | II | LMO7 | 5'UTR | opensea | 5'UTR-open | | rs5332939 | 0 |
| cg0965721 | 0.24239 | 0.580652 | 7.548837 | 8.57E-05 | 0.002174 | 1.894025 | 0.459457 | 0.701847 | -0.24239 | 5 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs5437879 | 41 |
| cg0779874 | 0.23122 | 0.633378 | 7.548486 | 8.57E-05 | 0.002174 | 1.89369 | 0.517768 | 0.748988 | -0.23122 | 5 | 58756391 | R | II | PDE4D | Body | opensea | Body-opens | | rs1442515 | 51;6 |
| cg1632273 | 0.242056 | 0.684572 | 7.548356 | 8.57E-05 | 0.002174 | 1.893566 | 0.563544 | 0.8056 | -0.24206 | 5 | 6496603 | R | II | UBE2QL1 | 3'UTR | opensea | 3'UTR-open | | rs5683474 | 46;35;32;20 |
| cg0846203 | 0.200748 | 0.592938 | 7.547488 | 8.58E-05 | 0.002175 | 1.892739 | 0.492564 | 0.693311 | -0.20075 | 6 | 1.67E+08 | R | II | RPS6KA2 | Body | shore | Body-shore | chr6:1670 | rs1266486 | 13;2 |
| cg1147341 | 0.222251 | 0.626657 | 7.545718 | 8.59E-05 | 0.002177 | 1.891052 | 0.515532 | 0.737782 | -0.22225 | 8 | 1.46E+08 | R | II | ZNF251 | 3'UTR | opensea | 3'UTR-open | | rs1809929 | 28;15 |
| cg2009729 | 0.20035 | 0.682827 | 7.545597 | 8.59E-05 | 0.002177 | 1.890936 | 0.582652 | 0.783002 | -0.20035 | 12 | 62387515 | R | II | FAM19A2 | 5'UTR | opensea | 5'UTR-open | | rs5301949 | 20;1 |
| cg0118659 | 0.237024 | 0.644669 | 7.542253 | 8.62E-05 | 0.002182 | 1.887746 | 0.526157 | 0.763181 | -0.23702 | 11 | 89954679 | R | II | CHORDC1 | Body | shore | Body-shore | chr11:899 | rs5508522 | 2 |
| cg1230401 | 0.223152 | 0.544695 | 7.542043 | 8.62E-05 | 0.002182 | 1.887546 | 0.433119 | 0.656271 | -0.22315 | 21 | 39641138 | R | II | KCNJ15 | 5'UTR | opensea | 5'UTR-open | | rs5481488 | 50;44;18;2 |
| cg1088839 | 0.206265 | 0.600435 | 7.538562 | 8.65E-05 | 0.002185 | 1.884224 | 0.497303 | 0.703567 | -0.20626 | 6 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs1473935 | 31;1 |
| cg0570323 | 0.247872 | 0.449698 | 7.538313 | 8.65E-05 | 0.002185 | 1.883986 | 0.325762 | 0.573634 | -0.24787 | 4 | 14112376 | R | II | | IGR | opensea | IGR-opense | | rs5742792 | 37;13;8;1 |
| cg0211395 | 0.20366 | 0.586618 | 7.533022 | 8.69E-05 | 0.002191 | 1.878935 | 0.484788 | 0.688448 | -0.20366 | 14 | 53291505 | R | II | | IGR | opensea | IGR-opense | | rs1903460 | 43;20;1 |
| cg1265863 | 0.200085 | 0.669268 | 7.532539 | 8.7E-05 | 0.002191 | 1.878473 | 0.569225 | 0.769311 | -0.20009 | 13 | 44599207 | F | II | LINC00284 | Body | opensea | Body-opens | | rs5476777 | 1;4;41 |
| cg0395308 | 0.2109 | 0.550264 | 7.532021 | 8.7E-05 | 0.002192 | 1.877978 | 0.444814 | 0.655714 | -0.2109 | 8 | 38491479 | F | II | | IGR | opensea | IGR-opense | | rs1401122 | 0;34 |
| cg1459389 | 0.203436 | 0.591085 | 7.530463 | 8.71E-05 | 0.002193 | 1.876491 | 0.489367 | 0.692803 | -0.20344 | 22 | 22781069 | R | II | | IGR | opensea | IGR-opense | | rs5606323 | 45;20;2 |
| cg1629641 | 0.241189 | 0.452994 | 7.530371 | 8.71E-05 | 0.002193 | 1.876402 | 0.332399 | 0.573588 | -0.24119 | 8 | 1.26E+08 | F | II | NSMCE2 | Body | opensea | Body-opens | | rs7973453 | 0;1;22;29 |
| cg1857697 | 0.227962 | 0.618595 | 7.529504 | 8.72E-05 | 0.002194 | 1.875574 | 0.504614 | 0.732576 | -0.22796 | 2 | 2.08E+08 | R | II | | IGR | opensea | IGR-opense | | rs1115600 | 47 |
| cg1287163 | 0.239912 | 0.683086 | 7.529111 | 8.72E-05 | 0.002194 | 1.875198 | 0.56313 | 0.803042 | -0.23991 | 9 | 5554506 | R | II | PDCD1LG2 | Body | opensea | Body-opens | | rs3681561 | 1 |
| cg1199477 | 0.223198 | 0.667218 | 7.528084 | 8.73E-05 | 0.002196 | 1.874217 | 0.555619 | 0.778816 | -0.2232 | 4 | 41669567 | F | II | LIMCH1 | Body | opensea | Body-opens | | rs1462906 | 1 |
| cg1626791 | 0.228078 | 0.592836 | 7.527636 | 8.73E-05 | 0.002196 | 1.873789 | 0.478797 | 0.706875 | -0.22808 | 8 | 27138829 | F | II | | IGR | opensea | IGR-opense | | rs5440058 | 0;6;49 |
| cg0048505 | 0.212092 | 0.584069 | 7.527574 | 8.73E-05 | 0.002196 | 1.87373 | 0.478023 | 0.690115 | -0.21209 | 16 | 82048758 | F | II | | IGR | shelf | IGR-shelf | chr16:820 | rs1477363 | 1;12;19;30;48 |
| cg1521445 | 0.206257 | 0.650793 | 7.527254 | 8.74E-05 | 0.002196 | 1.873424 | 0.547664 | 0.753922 | -0.20626 | 13 | 94825922 | R | II | GPC6-AS1 | Body | opensea | Body-opens | | rs5281133 | 45;31;2 |
| cg2488821 | 0.219342 | 0.542168 | 7.52718 | 8.74E-05 | 0.002196 | 1.873353 | 0.432497 | 0.651839 | -0.21934 | 11 | 1.29E+08 | F | II | ARHGAP32 | Body | opensea | Body-opens | | rs1136691 | 43 |
| cg0522982 | 0.238915 | 0.721061 | 7.527126 | 8.74E-05 | 0.002196 | 1.873301 | 0.601603 | 0.840518 | -0.23891 | 3 | 3170767 | R | II | TRNT1 | Body | shore | Body-shore | chr3:3168 | rs5594728 | 41;25 |
| cg0021319 | 0.206662 | 0.409793 | 7.526086 | 8.75E-05 | 0.002197 | 1.872308 | 0.306462 | 0.513125 | -0.20666 | 2 | 1.59E+08 | F | II | PKP4 | 5'UTR | opensea | 5'UTR-open | | rs5402857 | 8;10 |
| cg0236017 | 0.23131 | 0.54159 | 7.526067 | 8.75E-05 | 0.002197 | 1.872289 | 0.425935 | 0.657245 | -0.23131 | 18 | 26470890 | F | II | | IGR | opensea | IGR-opense | | rs476127 | 10 |
| cg0427913 | 0.250289 | 0.467827 | 7.524956 | 8.76E-05 | 0.002198 | 1.871227 | 0.342683 | 0.592971 | -0.25029 | 12 | 27925367 | R | II | LOC10013 | TSS1500 | opensea | TSS1500-op | | | |
| cg1099456 | 0.216197 | 0.467077 | 7.524747 | 8.76E-05 | 0.002198 | 1.871027 | 0.358979 | 0.575176 | -0.2162 | 3 | 1.19E+08 | R | II | ADPRH | Body | opensea | Body-opens | | rs5445868 | 22;13 |
| cg1031116 | 0.21242 | 0.474999 | 7.524122 | 8.76E-05 | 0.002199 | 1.87043 | 0.368789 | 0.581209 | -0.21242 | 18 | 11324853 | R | II | | IGR | opensea | IGR-opense | | rs5406348 | 7;4;2 |
| cg1873204 | 0.241188 | 0.627049 | 7.523448 | 8.77E-05 | 0.0022 | 1.869786 | 0.506455 | 0.747644 | -0.24119 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1556652 | 0.23588 | 0.496578 | 7.52292 | 8.77E-05 | 0.002201 | 1.869281 | 0.378638 | 0.614518 | -0.23588 | 6 | 38068342 | R | II | ZFAND3 | Body | opensea | Body-opens | | rs3738140 | 3 |
| cg2623654 | 0.20399 | 0.56469 | 7.521942 | 8.78E-05 | 0.002202 | 1.868346 | 0.462695 | 0.666685 | -0.20399 | 8 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5876270 | 12;14;14;16;47 |
| cg2478713 | 0.249337 | 0.600431 | 7.520215 | 8.79E-05 | 0.002203 | 1.866694 | 0.475763 | 0.7251 | -0.24934 | 5 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1488906 | 0.232381 | 0.671245 | 7.519919 | 8.8E-05 | 0.002204 | 1.866411 | 0.555055 | 0.787436 | -0.23238 | 12 | 47417292 | F | II | | IGR | opensea | IGR-opense | | rs5495259 | 30;44 |
| cg1857398 | 0.241432 | 0.553773 | 7.519853 | 8.8E-05 | 0.002204 | 1.866348 | 0.433057 | 0.674489 | -0.24143 | 2 | 85908284 | F | II | | IGR | opensea | IGR-opense | | rs1393303 | 0 |
| cg0242385 | 0.263484 | 0.41006 | 7.517811 | 8.81E-05 | 0.002206 | 1.864395 | 0.278318 | 0.541802 | -0.26348 | 10 | 33795998 | F | II | | IGR | opensea | IGR-opense | | rs1921992 | 0;42 |
| cg0676465 | 0.21717 | 0.694944 | 7.515889 | 8.83E-05 | 0.002208 | 1.862555 | 0.586359 | 0.803529 | -0.21717 | 2 | 70775729 | F | II | TGFA | Body | opensea | Body-opens | | | |
| cg0291692 | 0.220367 | 0.672007 | 7.513048 | 8.85E-05 | 0.002211 | 1.859836 | 0.561824 | 0.782191 | -0.22037 | 15 | 48797233 | F | II | FBN1 | ExonBnd | opensea | ExonBnd-op | | | |
| cg0195759 | 0.223323 | 0.557281 | 7.51304 | 8.85E-05 | 0.002211 | 1.859828 | 0.44562 | 0.668943 | -0.22332 | 4 | 89631033 | F | II | FAM13AOS | Body | opensea | Body-opens | | | |
| cg0345992 | 0.217887 | 0.663584 | 7.511815 | 8.86E-05 | 0.002212 | 1.858656 | 0.554641 | 0.772527 | -0.21789 | 14 | 96876128 | R | II | AK7 | Body | opensea | Body-opens | | rs5768955 | 48;1 |
| cg2238938 | 0.203384 | 0.296661 | 7.5114 | 8.86E-05 | 0.002213 | 1.858259 | 0.194968 | 0.398353 | -0.20338 | 4 | 26077294 | R | II | | IGR | opensea | IGR-opense | | rs5411591 | 34 |
| cg1471321 | 0.239363 | 0.59065 | 7.511246 | 8.86E-05 | 0.002213 | 1.858111 | 0.470969 | 0.710332 | -0.23936 | 1 | 33924313 | R | II | | IGR | opensea | IGR-opense | | rs5772192 | 10;2 |
| cg0587941 | 0.208339 | 0.615021 | 7.511147 | 8.87E-05 | 0.002213 | 1.858017 | 0.510851 | 0.71919 | -0.20834 | 2 | 1.97E+08 | R | II | DNAH7 | Body | opensea | Body-opens | | rs5294507 | 38 |
| cg0503690 | 0.244061 | 0.644347 | 7.50845 | 8.89E-05 | 0.002216 | 1.855434 | 0.522317 | 0.766377 | -0.24406 | 5 | 66139656 | F | II | MAST4 | Body | opensea | Body-opens | | rs5354734 | 1 |
| cg0528998 | 0.204845 | 0.585617 | 7.508379 | 8.89E-05 | 0.002216 | 1.855366 | 0.483194 | 0.688039 | -0.20484 | 7 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1937766 | 0.232723 | 0.601965 | 7.507169 | 8.9E-05 | 0.002218 | 1.854207 | 0.485604 | 0.718326 | -0.23272 | 3 | 1.43E+08 | F | II | PCOLCE2 | Body | shore | Body-shore | chr3:1426 | rs1383120 | 27 |
| cg0689635 | 0.219245 | 0.583071 | 7.507121 | 8.9E-05 | 0.002218 | 1.854161 | 0.473449 | 0.692694 | -0.21925 | 7 | 41477061 | F | II | | IGR | opensea | IGR-opense | | rs5762524 | 6;38 |
| cg2237474 | 0.228033 | 0.555129 | 7.506179 | 8.91E-05 | 0.002218 | 1.853259 | 0.441113 | 0.669145 | -0.22803 | 2 | 1.07E+08 | F | I | UXS1 | Body | opensea | Body-opens | | rs5713730 | 12;16 |
| cg1457281 | 0.230588 | 0.572001 | 7.505829 | 8.91E-05 | 0.002219 | 1.852923 | 0.456707 | 0.687295 | -0.23059 | 12 | 23713608 | R | II | SOX5 | Body | opensea | Body-opens | | rs1151929 | 33;32;18;6 |
| cg0524719 | 0.233008 | 0.597694 | 7.50561 | 8.91E-05 | 0.002219 | 1.852714 | 0.48119 | 0.714198 | -0.23301 | 3 | 1.01E+08 | F | II | IMPG2 | Body | opensea | Body-opens | | rs5740286 | 13;50 |
| cg2483586 | 0.240364 | 0.761816 | 7.504738 | 8.92E-05 | 0.00222 | 1.851878 | 0.641634 | 0.881998 | -0.24036 | 1 | 1.74E+08 | F | II | RABGAP1L | 5'UTR | shore | 5'UTR-shor | chr1:1741 | | |
| cg0332217 | 0.206261 | 0.576214 | 7.504372 | 8.92E-05 | 0.00222 | 1.851528 | 0.473083 | 0.679344 | -0.20626 | 10 | 47085806 | R | II | NPY4R | 5'UTR | shelf | 5'UTR-shelf | chr10:4701 | rs2854083 | 50;49;43;40;33;1 |
| cg0351602 | 0.201789 | 0.570569 | 7.503542 | 8.93E-05 | 0.002221 | 1.850732 | 0.469675 | 0.671464 | -0.20179 | 1 | 16564651 | R | II | C1orf89 | TSS1500 | shore | TSS1500-sh | chr1:1656 | rs5324915 | 42;24 |
| cg0031046 | 0.201743 | 0.594214 | 7.501667 | 8.94E-05 | 0.002223 | 1.848935 | 0.493343 | 0.695085 | -0.20174 | 3 | 1.34E+08 | R | II | KY | TSS1500 | shore | TSS1500-sh | chr3:1343 | rs5439594 | 6;0 |
| cg2547871 | 0.224055 | 0.516909 | 7.501588 | 8.94E-05 | 0.002223 | 1.848859 | 0.404881 | 0.628937 | -0.22406 | 4 | 74347571 | F | II | AFM | 1stExon | opensea | 1stExon-op | | rs5316342 | 0;1;35;42 |
| cg1453330 | 0.203908 | 0.631869 | 7.498619 | 8.97E-05 | 0.002226 | 1.846013 | 0.529915 | 0.733823 | -0.20391 | 19 | 38310956 | R | II | LOC64455 | Body | shelf | Body-shelf | chr19:383 | | |
| cg2507486 | 0.207893 | 0.506713 | 7.498544 | 8.97E-05 | 0.002226 | 1.845941 | 0.402767 | 0.61066 | -0.20789 | 12 | 17048137 | R | II | | IGR | opensea | IGR-opense | | rs1895417 | 44;1 |
| cg1426063 | 0.205107 | 0.501757 | 7.498281 | 8.97E-05 | 0.002227 | 1.845689 | 0.399204 | 0.604311 | -0.20511 | 1 | 84139163 | R | II | LOC10192 | Body | opensea | Body-opens | | rs1211771 | 50 |
| cg1818895 | 0.211409 | 0.477541 | 7.497624 | 8.97E-05 | 0.002227 | 1.845059 | 0.371836 | 0.583246 | -0.21141 | 16 | 65613388 | F | II | | IGR | opensea | IGR-opense | | rs5771782 | 50 |
| cg0784238 | 0.235552 | 0.444992 | 7.497438 | 8.98E-05 | 0.002228 | 1.844881 | 0.327216 | 0.562768 | -0.23555 | 1 | 67632028 | R | II | IL23R | TSS200 | opensea | TSS200-ope | | rs1146575 | 50;24;18 |
| cg0219385 | 0.257362 | 0.499084 | 7.49717 | 8.98E-05 | 0.002228 | 1.844624 | 0.370403 | 0.627765 | -0.25736 | 18 | 77960683 | R | II | PARD6G | Body | opensea | Body-opens | | rs1500228 | 46 |
| cg0841205 | 0.201547 | 0.705052 | 7.496836 | 8.98E-05 | 0.002228 | 1.844303 | 0.604279 | 0.805826 | -0.20155 | 12 | 1.25E+08 | R | II | ZNF664-FA | 5'UTR | opensea | 5'UTR-open | | rs5278118 | 6 |
| cg1812829 | 0.205344 | 0.54942 | 7.495828 | 8.99E-05 | 0.002229 | 1.843337 | 0.446748 | 0.652092 | -0.20534 | 14 | 30709685 | F | II | | IGR | opensea | IGR-opense | | rs5596466 | 5 |
| cg0285475 | 0.213285 | 0.529112 | 7.495504 | 8.99E-05 | 0.002229 | 1.843026 | 0.422469 | 0.635755 | -0.21329 | 6 | 1.07E+08 | F | II | ATG5 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0197691 | 0.203714 | 0.574292 | 7.495376 | 8.99E-05 | 0.002229 | 1.842903 | 0.472435 | 0.676148 | -0.20371 | 6 | 29430900 | F | II | OR2H1 | 3'UTR | opensea | 3'UTR-open | | rs5464888 | 0;1;10;27;33 |
| cg0027566 | 0.252987 | 0.490523 | 7.493921 | 9E-05 | 0.00223 | 1.841507 | 0.36403 | 0.617017 | -0.25299 | 20 | 48317973 | R | II | B4GALT5 | Body | opensea | Body-opens | | rs1414485 | 1 |
| cg1963276 | 0.215586 | 0.507121 | 7.493185 | 9.01E-05 | 0.002231 | 1.840801 | 0.399328 | 0.614915 | -0.21559 | 17 | 69992013 | F | II | | IGR | opensea | IGR-opense | | rs1430753 | 25;30 |
| cg0566719 | 0.247593 | 0.567673 | 7.49301 | 9.01E-05 | 0.002231 | 1.840634 | 0.443877 | 0.691469 | -0.24759 | 7 | 1.43E+08 | F | II | PIP | TSS1500 | opensea | TSS1500-op | | rs5523543 | 7;9;36 |
| cg0030326 | 0.21586 | 0.59285 | 7.492459 | 9.02E-05 | 0.002232 | 1.840105 | 0.48492 | 0.70078 | -0.21586 | 14 | 85706085 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0499252 | 0.201422 | 0.62754 | 7.492368 | 9.02E-05 | 0.002232 | 1.840018 | 0.526829 | 0.728251 | -0.20142 | 8 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs1465610 | 0;1;33 |
| cg1554943 | 0.208408 | 0.56068 | 7.492133 | 9.02E-05 | 0.002232 | 1.839792 | 0.456476 | 0.664884 | -0.20841 | 7 | 14192484 | F | II | DGKB | Body | opensea | Body-opens | | rs5555197 | 1;4;13 |
| cg0063394 | 0.241698 | 0.452511 | 7.490611 | 9.03E-05 | 0.002234 | 1.838331 | 0.331662 | 0.57336 | -0.2417 | 1 | 35417758 | F | II | | IGR | opensea | IGR-opense | | rs5598706 | 0;13;18;26;28;49 |
| cg2661956 | 0.205733 | 0.460826 | 7.489906 | 9.04E-05 | 0.002235 | 1.837654 | 0.35796 | 0.563693 | -0.20573 | 6 | 29445999 | R | II | | IGR | opensea | IGR-opense | | rs7197655 | 38;1 |
| cg1096962 | 0.229267 | 0.601338 | 7.489609 | 9.04E-05 | 0.002235 | 1.83737 | 0.486705 | 0.715972 | -0.22927 | 1 | 2.15E+08 | F | II | PTPN14 | 5'UTR | opensea | 5'UTR-open | | rs5436577 | 21;37 |
| cg0652908 | 0.212843 | 0.539675 | 7.487826 | 9.05E-05 | 0.002237 | 1.835658 | 0.433254 | 0.646097 | -0.21284 | 6 | 37489576 | F | II | LOC10050 | Body | opensea | Body-opens | | rs7834097 | 27 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2403124 | 0.20868 | 0.527226 | 7.487059 | 9.06E-05 | 0.002237 | 1.834922 | 0.422886 | 0.631566 | -0.20868 | 6 | 48035236 | R | II | PTCHD4 | Body | shore | Body-shore | chr6:4803( | rs1833135 | 18;2;1 |
| cg2367789 | 0.245923 | 0.524881 | 7.485519 | 9.07E-05 | 0.002239 | 1.833443 | 0.40192 | 0.647842 | -0.24592 | 10 | 3783003 | R | II | LOC10537( | Body | opensea | Body-opens | | rs5718346 | 50;3 |
| cg1051301 | 0.239251 | 0.386523 | 7.485518 | 9.07E-05 | 0.002239 | 1.833443 | 0.266897 | 0.506148 | -0.23925 | 18 | 10123326 | R | II | | IGR | opensea | IGR-opense | | rs1875615 | 32;2;1 |
| cg0076396 | 0.244206 | 0.46288 | 7.48498 | 9.08E-05 | 0.00224 | 1.832926 | 0.340778 | 0.584983 | -0.24421 | 9 | 1.09E+08 | F | II | TMEM38B | Body | opensea | Body-opens | | rs1887439 | 6 |
| cg0818128 | 0.212659 | 0.691973 | 7.484179 | 9.08E-05 | 0.002241 | 1.832156 | 0.585643 | 0.798302 | -0.21266 | 3 | 1.73E+08 | R | II | SPATA16 | Body | opensea | Body-opens | | rs5384071 | 14;7 |
| cg0705003 | 0.21775 | 0.367363 | 7.483702 | 9.09E-05 | 0.002241 | 1.831699 | 0.258487 | 0.476238 | -0.21775 | 9 | 15144803 | R | II | | IGR | opensea | IGR-opense | | rs1872222 | 1 |
| cg1994993 | 0.203958 | 0.640161 | 7.483602 | 9.09E-05 | 0.002241 | 1.831602 | 0.538182 | 0.74214 | -0.20396 | 11 | 30531731 | R | II | MPPED2 | Body | opensea | Body-opens | | rs5690267 | 2 |
| cg2033595 | 0.203214 | 0.583655 | 7.482814 | 9.1E-05 | 0.002242 | 1.830845 | 0.482048 | 0.685261 | -0.20321 | 18 | 51749158 | R | II | SNORA37 | TSS1500 | shore | TSS1500-sh | chr18:517( | rs5717611 | 39 |
| cg0971230 | 0.259519 | 0.588979 | 7.480909 | 9.11E-05 | 0.002244 | 1.829016 | 0.45922 | 0.718739 | -0.25952 | 20 | 54949299 | F | II | AURKA | Body | opensea | Body-opens | | | |
| cg0542582 | 0.225629 | 0.574057 | 7.479958 | 9.12E-05 | 0.002245 | 1.828101 | 0.461242 | 0.686871 | -0.22563 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0115518 | 0.220894 | 0.488514 | 7.478513 | 9.13E-05 | 0.002246 | 1.826713 | 0.378067 | 0.598961 | -0.22089 | 9 | 84470724 | F | II | | IGR | opensea | IGR-opense | | rs5348398 | 28;42 |
| cg2142955 | 0.2014 | 0.396673 | 7.477799 | 9.14E-05 | 0.002247 | 1.826027 | 0.295973 | 0.497373 | -0.2014 | 7 | 30635762 | F | II | GARS | Body | shore | Body-shore | chr7:3063( | rs5595406 | 9 |
| cg0671267 | 0.212336 | 0.50382 | 7.476151 | 9.15E-05 | 0.002249 | 1.824443 | 0.397652 | 0.609988 | -0.21234 | 1 | 88231424 | R | II | | IGR | opensea | IGR-opense | | rs5596753 | 24;12 |
| cg2316372 | 0.2057 | 0.524064 | 7.473156 | 9.18E-05 | 0.002254 | 1.821563 | 0.421214 | 0.626914 | -0.2057 | 17 | 48404379 | F | II | | IGR | opensea | IGR-opense | | rs5774547 | 0;13;27 |
| cg0912267 | 0.230355 | 0.478837 | 7.472936 | 9.18E-05 | 0.002254 | 1.821351 | 0.36366 | 0.594014 | -0.23035 | 2 | 46897833 | F | II | | IGR | opensea | IGR-opense | | rs1883472 | 9;24;37;38 |
| cg0017224 | 0.214993 | 0.501908 | 7.472284 | 9.18E-05 | 0.002255 | 1.820725 | 0.394411 | 0.609404 | -0.21499 | 7 | 65653179 | F | II | | IGR | opensea | IGR-opense | | rs1502391 | 20;50 |
| cg1351721 | 0.215237 | 0.605114 | 7.472095 | 9.19E-05 | 0.002255 | 1.820543 | 0.497495 | 0.712732 | -0.21524 | 2 | 2.11E+08 | R | II | CPS1 | Body | opensea | Body-opens | | rs1493889 | 34;8;2 |
| cg0922131 | 0.246688 | 0.675346 | 7.471523 | 9.19E-05 | 0.002256 | 1.819993 | 0.552003 | 0.79869 | -0.24669 | 6 | 1.17E+08 | R | II | TRAPPC3L | Body | opensea | Body-opens | | rs5706721 | 34;7 |
| cg0877181 | 0.218033 | 0.637785 | 7.469762 | 9.2E-05 | 0.002257 | 1.818299 | 0.528769 | 0.746802 | -0.21803 | 14 | 37740094 | R | II | MIPOL1 | Body | opensea | Body-opens | | rs1830127 | 2 |
| cg1729868 | 0.215319 | 0.648483 | 7.469485 | 9.21E-05 | 0.002258 | 1.818032 | 0.540823 | 0.756143 | -0.21532 | 10 | 91718341 | F | II | LINC01375 | TSS1500 | opensea | TSS1500-op | | rs1379061 | 1;17 |
| cg2679021 | 0.21182 | 0.506958 | 7.467512 | 9.22E-05 | 0.00226 | 1.816135 | 0.401048 | 0.612868 | -0.21182 | 6 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs1405861 | 0;9 |
| cg2419008 | 0.206989 | 0.627299 | 7.466171 | 9.23E-05 | 0.002261 | 1.814844 | 0.523804 | 0.730793 | -0.20699 | 1 | 2.07E+08 | R | II | FCAMR | TSS1500 | opensea | TSS1500-op | | rs1206637 | 31;15;13 |
| cg0399130 | 0.235201 | 0.427765 | 7.465569 | 9.24E-05 | 0.002262 | 1.814265 | 0.310165 | 0.545365 | -0.2352 | 1 | 68237761 | R | II | GNG12 | 5'UTR | opensea | 5'UTR-open | | rs5421145 | 43;18;2 |
| cg0915113 | 0.221115 | 0.569338 | 7.465494 | 9.24E-05 | 0.002262 | 1.814193 | 0.45878 | 0.679895 | -0.22111 | 17 | 48552276 | F | II | | IGR | shelf | IGR-shelf | chr17:485( | rs5443613 | 0 |
| cg2077057 | 0.208952 | 0.644573 | 7.465493 | 9.24E-05 | 0.002262 | 1.814192 | 0.540097 | 0.749049 | -0.20895 | 20 | 48307717 | F | II | B4GALT5 | Body | opensea | Body-opens | | rs5432808 | 0;11 |
| cg0606788 | 0.205289 | 0.374419 | 7.465386 | 9.24E-05 | 0.002262 | 1.814089 | 0.271775 | 0.477064 | -0.20529 | 3 | 1.22E+08 | R | II | CCDC58 | Body | opensea | Body-opens | | rs5353685 | 36;1 |
| cg2152462 | 0.2433 | 0.587273 | 7.464994 | 9.24E-05 | 0.002263 | 1.813711 | 0.465623 | 0.708923 | -0.2433 | 5 | 39360908 | F | II | C9 | Body | opensea | Body-opens | | rs1475086 | 1 |
| cg1654896 | 0.217852 | 0.520246 | 7.464836 | 9.25E-05 | 0.002263 | 1.813559 | 0.411319 | 0.629172 | -0.21785 | 5 | 1.77E+08 | F | II | | IGR | shelf | IGR-shelf | chr5:1769( | rs1117867 | 6 |
| cg1071857 | 0.215594 | 0.683348 | 7.464559 | 9.25E-05 | 0.002263 | 1.813293 | 0.575551 | 0.791145 | -0.21559 | 2 | 74859870 | R | II | M1AP | Body | opensea | Body-opens | | rs7805888 | 44;1 |
| cg1394698 | 0.215633 | 0.611341 | 7.464479 | 9.25E-05 | 0.002263 | 1.813216 | 0.503525 | 0.719158 | -0.21563 | 9 | 78701451 | F | II | PCSK5 | Body | opensea | Body-opens | | rs4113091 | 0;1;4;9 |
| cg2292706 | 0.223191 | 0.453559 | 7.463768 | 9.25E-05 | 0.002264 | 1.812531 | 0.341963 | 0.565155 | -0.22319 | 3 | 16857796 | F | II | | IGR | opensea | IGR-opense | | rs5454230 | 2;26;27 |
| cg0158768 | 0.200324 | 0.762269 | 7.462798 | 9.26E-05 | 0.002265 | 1.811597 | 0.662107 | 0.862431 | -0.20032 | 5 | 1.29E+08 | F | II | CHSY3 | Body | opensea | Body-opens | | rs7378585 | 10 |
| cg0688260 | 0.20959 | 0.539695 | 7.462616 | 9.26E-05 | 0.002265 | 1.811422 | 0.4349 | 0.64449 | -0.20959 | 20 | 57933267 | F | II | | IGR | opensea | IGR-opense | | rs5635728 | 1 |
| cg1010454 | 0.234938 | 0.681121 | 7.462239 | 9.27E-05 | 0.002265 | 1.811059 | 0.563653 | 0.79859 | -0.23494 | 2 | 2.38E+08 | R | II | | IGR | opensea | IGR-opense | | rs1420429 | 38;1 |
| cg0363421 | 0.213416 | 0.677968 | 7.461139 | 9.28E-05 | 0.002266 | 1.81 | 0.57126 | 0.784676 | -0.21342 | 2 | 1.35E+08 | F | II | TMEM163 | Body | opensea | Body-opens | | rs5374461 | 1;36;41 |
| cg1383680 | 0.209 | 0.684651 | 7.460852 | 9.28E-05 | 0.002267 | 1.809724 | 0.580151 | 0.789151 | -0.209 | 9 | 16337710 | R | II | | IGR | opensea | IGR-opense | | rs1466882 | 14;1 |
| cg1054113 | 0.207299 | 0.717609 | 7.460464 | 9.28E-05 | 0.002267 | 1.80935 | 0.61396 | 0.821259 | -0.2073 | 1 | 2.26E+08 | F | II | ENAH | Body | opensea | Body-opens | | rs1466752 | 24;34;41;50 |
| cg1387843 | 0.206338 | 0.682103 | 7.459591 | 9.29E-05 | 0.002269 | 1.80851 | 0.578934 | 0.785272 | -0.20634 | 12 | 66409494 | F | II | | IGR | opensea | IGR-opense | | rs5509891 | 0;23;37 |
| cg0936207 | 0.204354 | 0.662457 | 7.459188 | 9.29E-05 | 0.002269 | 1.808121 | 0.56028 | 0.764635 | -0.20435 | 1 | 1.85E+08 | R | II | C1orf21 | Body | opensea | Body-opens | | rs5392211 | 37;1 |
| cg0023417 | 0.211072 | 0.612981 | 7.4588 | 9.3E-05 | 0.002269 | 1.807748 | 0.507445 | 0.718516 | -0.21107 | 5 | 1.57E+08 | R | II | ITK | Body | opensea | Body-opens | | rs1396556 | 7;1 |
| cg1212670 | 0.27165 | 0.608031 | 7.45789 | 9.3E-05 | 0.00227 | 1.806871 | 0.472206 | 0.743856 | -0.27165 | 1 | 1.57E+08 | F | II | C1orf92 | TSS1500 | shore | TSS1500-sh | chr1:1568( | rs5416842 | 7;41 |
| cg2033140 | 0.201001 | 0.642126 | 7.457196 | 9.31E-05 | 0.002271 | 1.806203 | 0.541625 | 0.742627 | -0.201 | 8 | 1.2E+08 | F | II | COLEC10 | TSS1500 | opensea | TSS1500-op | | | |
| cg0842867 | 0.243938 | 0.424866 | 7.456915 | 9.31E-05 | 0.002271 | 1.805932 | 0.302897 | 0.546835 | -0.24394 | 3 | 1.77E+08 | F | II | LINC00578 | Body | opensea | Body-opens | | rs1506197 | 9;32 |
| cg0173840 | 0.221749 | 0.642022 | 7.456069 | 9.32E-05 | 0.002272 | 1.805116 | 0.531148 | 0.752896 | -0.22175 | 11 | 1.25E+08 | F | II | VSIG2 | Body | shelf | Body-shelf | chr11:124( | rs5274798 | 1;31 |
| cg0577853 | 0.21897 | 0.663728 | 7.454557 | 9.33E-05 | 0.002274 | 1.80366 | 0.554243 | 0.773212 | -0.21897 | 2 | 1E+08 | R | II | AFF3 | Body | opensea | Body-opens | | rs7550121 | 10;2 |
| cg0542558 | 0.209319 | 0.728586 | 7.453446 | 9.34E-05 | 0.002275 | 1.80259 | 0.623927 | 0.833246 | -0.20932 | 2 | 1.98E+08 | R | II | ANKRD44 | Body | opensea | Body-opens | | rs1913531 | 1 |
| cg2207064 | 0.213492 | 0.635926 | 7.452157 | 9.35E-05 | 0.002276 | 1.801346 | 0.52918 | 0.742672 | -0.21349 | 2 | 18050522 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0110501 | 0.212517 | 0.505113 | 7.451731 | 9.36E-05 | 0.002277 | 1.800936 | 0.398854 | 0.611371 | -0.21252 | 12 | 18837147 | R | II | PLCZ1 | Body | opensea | Body-opens | | | |
| cg0389256 | 0.228143 | 0.661353 | 7.45151 | 9.36E-05 | 0.002277 | 1.800723 | 0.547282 | 0.775425 | -0.22814 | 1 | 1.45E+08 | R | II | PDE4DIP | Body | shore | Body-shore | chr1:1450( | | |
| cg1110805 | 0.211843 | 0.628858 | 7.451379 | 9.36E-05 | 0.002277 | 1.800597 | 0.522937 | 0.734779 | -0.21184 | 3 | 1.93E+08 | R | II | ATP13A5-A | Body | opensea | Body-opens | | | |
| cg2721980 | 0.204546 | 0.494724 | 7.448973 | 9.38E-05 | 0.00228 | 1.798277 | 0.392451 | 0.596997 | -0.20455 | 8 | 30140310 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1420059 | 0.202443 | 0.685583 | 7.448797 | 9.38E-05 | 0.00228 | 1.798107 | 0.584361 | 0.786805 | -0.20244 | 20 | 30670571 | F | II | HCK | Body | opensea | Body-opens | | rs5423180 | 19;25;41 |
| cg2208246 | 0.271497 | 0.591429 | 7.448503 | 9.38E-05 | 0.00228 | 1.797824 | 0.455681 | 0.727178 | -0.2715 | 14 | 24540415 | R | II | CPNE6 | TSS1500 | opensea | TSS1500-op | | rs5368055 | 49;17;7;2 |
| cg2305874 | 0.215194 | 0.694802 | 7.447714 | 9.39E-05 | 0.002281 | 1.797063 | 0.587206 | 0.802399 | -0.21519 | 17 | 39305246 | F | II | KRTAP4-5 | 1stExon | opensea | 1stExon-op | | rs5442049 | 1;11;34 |
| cg2577409 | 0.258961 | 0.488971 | 7.446462 | 9.4E-05 | 0.002282 | 1.795856 | 0.35949 | 0.618451 | -0.25896 | 7 | 41771743 | R | II | INHBA-AS1 | Body | opensea | Body-opens | | rs5491337 | 43;30;9;1 |
| cg0591968 | 0.221729 | 0.416125 | 7.445901 | 9.41E-05 | 0.002283 | 1.795314 | 0.30526 | 0.526989 | -0.22173 | 1 | 1.6E+08 | F | II | APCS | TSS1500 | opensea | TSS1500-op | | rs5438881 | 0;12 |
| cg2036327 | 0.201793 | 0.604145 | 7.44551 | 9.41E-05 | 0.002283 | 1.794937 | 0.503248 | 0.705041 | -0.20179 | 8 | 55181528 | F | II | | IGR | opensea | IGR-opense | | rs5369200 | 30 |
| cg2368045 | 0.225238 | 0.412774 | 7.444537 | 9.42E-05 | 0.002284 | 1.793999 | 0.300156 | 0.525393 | -0.22524 | 10 | 3823790 | R | II | KLF6 | Body | island | Body-islanc | chr10:382: | rs5513880 | 33;20;15;4 |
| cg0824231 | 0.209976 | 0.605684 | 7.443148 | 9.43E-05 | 0.002286 | 1.792658 | 0.500696 | 0.710672 | -0.20998 | 2 | 41141773 | F | II | | IGR | opensea | IGR-opense | | rs1166516 | 1;8;10;26;32;38 |
| cg1917777 | 0.247149 | 0.539993 | 7.442864 | 9.43E-05 | 0.002286 | 1.792384 | 0.416419 | 0.663567 | -0.24715 | 4 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs1137738 | 1 |
| cg0567511 | 0.201142 | 0.490231 | 7.440854 | 9.45E-05 | 0.002288 | 1.790444 | 0.38966 | 0.590802 | -0.20114 | 14 | 26276555 | R | II | | IGR | opensea | IGR-opense | | rs5727655 | 44 |
| cg0761647 | 0.202075 | 0.619984 | 7.440305 | 9.45E-05 | 0.002288 | 1.789915 | 0.518946 | 0.721021 | -0.20207 | 3 | 46413711 | F | II | CCR5 | 5'UTR | opensea | 5'UTR-open | | rs2856764 | 32 |
| cg0016354 | 0.20583 | 0.647172 | 7.440181 | 9.46E-05 | 0.002288 | 1.789795 | 0.544257 | 0.750087 | -0.20583 | 1 | 2.39E+08 | R | II | | IGR | opensea | IGR-opense | | rs5644347 | 41;1 |
| cg1022614 | 0.254119 | 0.431661 | 7.438427 | 9.47E-05 | 0.00229 | 1.788102 | 0.304602 | 0.558721 | -0.25412 | 12 | 76036209 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1083765 | 0.201023 | 0.597067 | 7.438163 | 9.47E-05 | 0.002291 | 1.787848 | 0.496555 | 0.697579 | -0.20102 | 12 | 26989568 | F | II | | IGR | shelf | IGR-shelf | chr12:269( | rs3676748 | 1 |
| cg2249692 | 0.202959 | 0.384242 | 7.437814 | 9.48E-05 | 0.002291 | 1.787511 | 0.282762 | 0.485721 | -0.20296 | 14 | 29300586 | F | II | | IGR | opensea | IGR-opense | | rs5448951 | 48 |
| cg1945236 | 0.209667 | 0.560245 | 7.437677 | 9.48E-05 | 0.002291 | 1.787378 | 0.455411 | 0.665079 | -0.20967 | 1 | 1.82E+08 | R | II | ZNF648 | TSS1500 | opensea | TSS1500-op | | rs5631158 | 44;1 |
| cg1174567 | 0.230965 | 0.493124 | 7.437085 | 9.48E-05 | 0.002292 | 1.786806 | 0.377642 | 0.608607 | -0.23097 | 10 | 43900830 | R | II | HNRNPF | 5'UTR | shore | 5'UTR-shor | chr10:439( | | |
| cg0987897 | 0.230089 | 0.331207 | 7.436716 | 9.49E-05 | 0.002292 | 1.78645 | 0.216163 | 0.446252 | -0.23009 | 13 | 20756290 | F | II | | IGR | opensea | IGR-opense | | rs1400455 | 5 |
| cg2415926 | 0.207197 | 0.389926 | 7.435646 | 9.5E-05 | 0.002293 | 1.785417 | 0.286328 | 0.493524 | -0.2072 | 7 | 29167530 | R | II | LOC10192( | Body | opensea | Body-opens | | rs245858 | 44 |
| cg1506339 | 0.21389 | 0.637914 | 7.434665 | 9.5E-05 | 0.002294 | 1.78447 | 0.530969 | 0.744859 | -0.21389 | 20 | 19880476 | R | II | RIN2 | Body | opensea | Body-opens | | rs5651868 | 2;1 |
| cg0099205 | 0.200988 | 0.592874 | 7.433639 | 9.51E-05 | 0.002295 | 1.783479 | 0.49238 | 0.693368 | -0.20099 | 9 | 1.28E+08 | R | II | OLFML2A | Body | shore | Body-shore | chr9:1275( | rs1131068 | 44;39;1 |
| cg1296842 | 0.261609 | 0.546528 | 7.433379 | 9.51E-05 | 0.002295 | 1.783228 | 0.415723 | 0.677333 | -0.26161 | 10 | 85898499 | F | II | GHITM | TSS1500 | shore | TSS1500-sh | chr10:858( | rs5676181 | 0;18;20 |
| cg1321511 | 0.237171 | 0.633827 | 7.433189 | 9.52E-05 | 0.002295 | 1.783044 | 0.515242 | 0.752412 | -0.23717 | 12 | 62525966 | R | II | FAM19A2 | 5'UTR | opensea | 5'UTR-open | | rs1452422 | 2 |
| cg2054545 | 0.213793 | 0.472928 | 7.432345 | 9.52E-05 | 0.002296 | 1.782228 | 0.366031 | 0.579824 | -0.21379 | 6 | 26046341 | R | II | | IGR | shore | IGR-shore | chr6:2604( | rs1434222 | 35;8 |
| cg0957850 | 0.200092 | 0.611889 | 7.431714 | 9.53E-05 | 0.002297 | 1.781619 | 0.511843 | 0.711935 | -0.20009 | 2 | 2.29E+08 | R | II | SLC19A3 | 5'UTR | opensea | 5'UTR-open | | rs1114975 | 43;42 |
| cg2200026 | 0.215623 | 0.593389 | 7.431509 | 9.53E-05 | 0.002297 | 1.781421 | 0.485577 | 0.7012 | -0.21562 | 6 | 12420068 | R | II | | IGR | opensea | IGR-opense | | rs5276940 | 50;17;1 |
| cg1178196 | 0.215152 | 0.424773 | 7.428967 | 9.55E-05 | 0.0023 | 1.778964 | 0.317197 | 0.532349 | -0.21515 | 8 | 22210276 | R | II | PIWIL2 | Body | opensea | Body-opens | | rs4872476 | 44;1 |
| cg0864170 | 0.219387 | 0.674186 | 7.42704 | 9.57E-05 | 0.002302 | 1.777102 | 0.564493 | 0.78388 | -0.21939 | 2 | 1.05E+08 | R | II | LOC150568 | Body | opensea | Body-opens | | rs1815858 | 27 |
| cg2279761 | 0.206065 | 0.611021 | 7.426653 | 9.57E-05 | 0.002303 | 1.776727 | 0.507989 | 0.714054 | -0.20607 | 5 | 36444321 | F | II | | IGR | opensea | IGR-opense | | rs5488783 | 1;42 |
| cg2089966 | 0.251827 | 0.434576 | 7.426149 | 9.58E-05 | 0.002304 | 1.776241 | 0.308663 | 0.560489 | -0.25183 | 17 | 64420217 | R | II | PRKCA | Body | opensea | Body-opens | | rs8014920 | 32;17 |
| cg0027207 | 0.206385 | 0.549154 | 7.425606 | 9.58E-05 | 0.002305 | 1.775715 | 0.445962 | 0.652347 | -0.20638 | 2 | 1.03E+08 | F | II | IL18R1 | 5'UTR | opensea | 5'UTR-open | | rs5602272 | 1;10;31 |
| cg0045139 | 0.223051 | 0.479373 | 7.424275 | 9.59E-05 | 0.002306 | 1.774428 | 0.367847 | 0.590898 | -0.22305 | 2 | 48843645 | F | II | GTF2A1L | TSS1500 | shore | TSS1500-sh | chr2:4884( | rs5302868 | 1 |
| cg2376636 | 0.207018 | 0.594241 | 7.421924 | 9.61E-05 | 0.002309 | 1.772155 | 0.490732 | 0.69775 | -0.20702 | 12 | 6193688 | R | II | VWF | Body | opensea | Body-opens | | rs5732613 | 31;1 |
| cg0582052 | 0.228608 | 0.622909 | 7.4215 | 9.62E-05 | 0.00231 | 1.771745 | 0.508605 | 0.737213 | -0.22861 | 10 | 82132926 | R | II | | IGR | opensea | IGR-opense | | rs5884460 | 30 |
| cg2140375 | 0.223961 | 0.643936 | 7.420334 | 9.63E-05 | 0.002311 | 1.770617 | 0.531956 | 0.755917 | -0.22396 | 7 | 38739258 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0608888 | 0.212238 | 0.545277 | 7.420087 | 9.63E-05 | 0.002311 | 1.770378 | 0.439158 | 0.651396 | -0.21224 | 8 | 32569026 | R | II | NRG1 | Body | opensea | Body-opens | | rs1884257 | 25;24;1 |
| cg1328751 | 0.21198 | 0.595001 | 7.418259 | 9.65E-05 | 0.002313 | 1.768609 | 0.489011 | 0.700991 | -0.21198 | 1 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | | rs1450948 | 29 |
| cg2533638 | 0.206848 | 0.586522 | 7.416772 | 9.66E-05 | 0.002315 | 1.767171 | 0.483097 | 0.689946 | -0.20685 | 9 | 1.16E+08 | R | II | | IGR | opensea | IGR-opense | | rs7032414 | 46;2 |
| cg0320133 | 0.224313 | 0.405838 | 7.414869 | 9.68E-05 | 0.002317 | 1.765328 | 0.293681 | 0.517994 | -0.22431 | 10 | 69609995 | R | II | | IGR | shore | IGR-shore | chr10:696( | rs1433344 | 17;2 |
| cg1940687 | 0.216512 | 0.578584 | 7.414815 | 9.68E-05 | 0.002317 | 1.765276 | 0.470328 | 0.68684 | -0.21651 | 2 | 2.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs7745087 | 15 |
| cg2662097 | 0.231862 | 0.505949 | 7.414803 | 9.68E-05 | 0.002317 | 1.765265 | 0.390018 | 0.62188 | -0.23186 | 4 | 1.52E+08 | F | II | | IGR | opensea | IGR-opense | | rs5577611 | 1;14;50 |
| cg1736432 | 0.202151 | 0.465258 | 7.41342 | 9.69E-05 | 0.002319 | 1.763925 | 0.364183 | 0.566334 | -0.20215 | 15 | 92486164 | R | II | SLCO3A1 | Body | opensea | Body-opens | | rs5356259 | 9 |
| cg1441645 | 0.208573 | 0.634147 | 7.412954 | 9.69E-05 | 0.002319 | 1.763474 | 0.52986 | 0.738434 | -0.20857 | 10 | 36050800 | R | II | | IGR | shelf | IGR-shelf | chr10:360( | rs5479960 | 50;21;16;2;1 |
| cg2035553 | 0.208635 | 0.637569 | 7.411669 | 9.71E-05 | 0.002321 | 1.762231 | 0.533252 | 0.741887 | -0.20864 | 8 | 9117883 | R | II | | IGR | opensea | IGR-opense | | rs1380526 | 49;34;20 |
| cg1823174 | 0.20494 | 0.591306 | 7.411636 | 9.71E-05 | 0.002321 | 1.762198 | 0.488837 | 0.693776 | -0.20494 | 2 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5273863 | 0;20;26;27 |
| cg0769723 | 0.220126 | 0.636819 | 7.410215 | 9.72E-05 | 0.002322 | 1.760822 | 0.526756 | 0.746882 | -0.22013 | 10 | 33405714 | F | II | | IGR | opensea | IGR-opense | | rs1164971 | 0;10;48 |
| cg0292334 | 0.229963 | 0.49898 | 7.409819 | 9.72E-05 | 0.002322 | 1.760438 | 0.383999 | 0.613962 | -0.22996 | 21 | 37222493 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1281282 | 0.203122 | 0.616787 | 7.408237 | 9.74E-05 | 0.002324 | 1.758906 | 0.515226 | 0.718349 | -0.20312 | 20 | 18812196 | R | II | C20orf78 | TSS1500 | opensea | TSS1500-op | | | |
| cg2707008 | 0.201409 | 0.496848 | 7.407883 | 9.74E-05 | 0.002324 | 1.758563 | 0.396144 | 0.597552 | -0.20141 | 22 | 29641839 | F | II | EMID1 | Body | opensea | Body-opens | | rs1824210 | 0;18 |
| cg2059819 | 0.235283 | 0.483967 | 7.407835 | 9.74E-05 | 0.002324 | 1.758516 | 0.366325 | 0.601608 | -0.23528 | 2 | 2.41E+08 | F | II | | IGR | shore | IGR-shore | chr2:2408( | rs5333676 | 19 |
| cg2194611 | 0.219766 | 0.581629 | 7.407789 | 9.74E-05 | 0.002324 | 1.758472 | 0.471746 | 0.691512 | -0.21977 | 6 | 1.12E+08 | F | II | REV3L | Body | opensea | Body-opens | | | |
| cg2274644 | 0.224662 | 0.561189 | 7.406476 | 9.75E-05 | 0.002326 | 1.7572 | 0.448858 | 0.673521 | -0.22466 | 14 | 67585119 | F | II | GPHN | Body | opensea | Body-opens | | rs5386287 | 26 |
| cg0366939 | 0.247798 | 0.532844 | 7.4055 | 9.76E-05 | 0.002327 | 1.756254 | 0.408945 | 0.656742 | -0.2478 | 16 | 75685254 | F | II | TERF2IP | Body | shelf | Body-shelf | chr16:756( | rs5629946 | 1;5;32 |
| cg0156330 | 0.209457 | 0.400938 | 7.401745 | 9.79E-05 | 0.002332 | 1.752614 | 0.29621 | 0.505667 | -0.20946 | 18 | 21552432 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1219116 | 0.207619 | 0.471213 | 7.399722 | 9.81E-05 | 0.002334 | 1.750653 | 0.367403 | 0.575022 | -0.20762 | 18 | 12838280 | R | II | PTPN2 | Body | opensea | Body-opens | | rs5307803 | 24;4;1 |
| cg0236070 | 0.243042 | 0.460794 | 7.398164 | 9.83E-05 | 0.002336 | 1.749142 | 0.339273 | 0.582315 | -0.24304 | 5 | 1.45E+08 | F | II | SH3RF2 | 5'UTR | shore | 5'UTR-shor | chr5:1453( | rs5458217 | 0;4;8;19 |
| cg1728002 | 0.224387 | 0.654347 | 7.397301 | 9.83E-05 | 0.002337 | 1.748305 | 0.542153 | 0.76654 | -0.22439 | 5 | 1.72E+08 | R | II | SH3PXD2B | Body | opensea | Body-opens | | rs7720749 | 12 |
| cg2092004 | 0.243931 | 0.611938 | 7.397081 | 9.84E-05 | 0.002337 | 1.748092 | 0.489973 | 0.733904 | -0.24393 | 2 | 41822300 | F | II | | IGR | opensea | IGR-opense | | rs5449718 | 2;33;39;40 |
| cg1016768 | 0.203453 | 0.556875 | 7.396999 | 9.84E-05 | 0.002337 | 1.748012 | 0.455148 | 0.658601 | -0.20345 | 11 | 1.27E+08 | R | II | | IGR | opensea | IGR-opense | | rs1173662 | 42;34 |
| cg0956704 | 0.201867 | 0.59036 | 7.396835 | 9.84E-05 | 0.002337 | 1.747854 | 0.489427 | 0.691294 | -0.20187 | 2 | 46456880 | R | II | | IGR | opensea | IGR-opense | | rs5380756 | 2 |
| cg1417889 | 0.244343 | 0.656088 | 7.39635 | 9.84E-05 | 0.002338 | 1.747383 | 0.533917 | 0.778259 | -0.24434 | 6 | 11778902 | R | II | C6orf105 | 1stExon | opensea | 1stExon-op | | rs5391503 | 46;5;1 |
| cg0097744 | 0.203822 | 0.561707 | 7.395358 | 9.85E-05 | 0.002339 | 1.74642 | 0.459797 | 0.663618 | -0.20382 | 6 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1874982 | 13;2 |
| cg1744648 | 0.254928 | 0.46024 | 7.395197 | 9.85E-05 | 0.002339 | 1.746264 | 0.332776 | 0.587704 | -0.25493 | 6 | 6772111 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1551295 | 0.212362 | 0.490176 | 7.395186 | 9.85E-05 | 0.002339 | 1.746254 | 0.383995 | 0.596357 | -0.21236 | 14 | 91711930 | F | II | GPR68 | TSS1500 | opensea | TSS1500-op | | | |
| cg0118062 | 0.210879 | 0.520508 | 7.395182 | 9.85E-05 | 0.002339 | 1.74625 | 0.415068 | 0.625948 | -0.21088 | 3 | 5023394 | F | II | BHLHE40 | Body | shore | Body-shore | chr3:5024( | rs5526239 | 9 |
| cg1575411 | 0.217747 | 0.602025 | 7.394431 | 9.86E-05 | 0.00234 | 1.745521 | 0.493151 | 0.710898 | -0.21775 | 10 | 78864253 | F | II | KCNMA1 | Body | opensea | Body-opens | | | |
| cg0494099 | 0.20453 | 0.593097 | 7.391187 | 9.89E-05 | 0.002345 | 1.742372 | 0.490832 | 0.695362 | -0.20453 | 14 | 81851393 | R | II | STON2 | Body | opensea | Body-opens | | rs5517519 | 31;26;23 |
| cg1694290 | 0.231845 | 0.573652 | 7.39076 | 9.89E-05 | 0.002345 | 1.741959 | 0.45773 | 0.689575 | -0.23185 | 6 | 1.31E+08 | R | II | | IGR | opensea | IGR-opense | | rs7684457 | 28 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0645653 | 0.20328 | 0.577895 | 7.390749 | 9.89E-05 | 0.002345 | 1.741948 | 0.476255 | 0.679535 | -0.20328 | 17 | 38929184 | F | II | KRT26 | TSS1500 | opensea | TSS1500-op | rs5485326 | 34;43 |
| cg2476898 | 0.23767 | 0.665537 | 7.38945 | 9.91E-05 | 0.002347 | 1.740687 | 0.546702 | 0.784372 | -0.23767 | 6 | 1.25E+08 | R | II | NKAIN2 | TSS1500 | opensea | TSS1500-op | rs5735528 | 27;48 |
| cg2343324 | 0.240502 | 0.484982 | 7.389361 | 9.91E-05 | 0.002347 | 1.740601 | 0.364731 | 0.605234 | -0.2405 | 2 | 2.17E+08 | R | II | XRCC5 | Body | shelf | Body-shelf | chr2:2169 | rs617097 | 37;35 |
| cg2097015 | 0.222645 | 0.502912 | 7.38916 | 9.91E-05 | 0.002347 | 1.740405 | 0.39159 | 0.614235 | -0.22265 | 1 | 1.87E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0001433 | 0.206784 | 0.547682 | 7.388685 | 9.91E-05 | 0.002347 | 1.739943 | 0.444291 | 0.651074 | -0.20678 | 8 | 20130023 | R | II | | IGR | opensea | IGR-opense | | rs729361;r | 30;1 |
| cg0234508 | 0.200613 | 0.548667 | 7.388596 | 9.91E-05 | 0.002347 | 1.739857 | 0.44836 | 0.648974 | -0.20061 | 2 | 16688253 | R | II | | IGR | shore | IGR-shore | chr2:1668 | rs5362305 | 34;6;1 |
| cg0536010 | 0.218593 | 0.531701 | 7.388394 | 9.91E-05 | 0.002347 | 1.739661 | 0.422404 | 0.640997 | -0.21859 | 2 | 1.66E+08 | F | II | COBLL1 | Body | opensea | Body-opens | | rs5486942 | 0;9;19;23;28 |
| cg1268187 | 0.204904 | 0.559765 | 7.387944 | 9.92E-05 | 0.002348 | 1.739224 | 0.457313 | 0.662217 | -0.2049 | 5 | 89225159 | R | II | | IGR | opensea | IGR-opense | | rs1395734 | 46 |
| cg1720159 | 0.219111 | 0.404773 | 7.387684 | 9.92E-05 | 0.002348 | 1.738971 | 0.295218 | 0.514328 | -0.21911 | 10 | 1.16E+08 | R | II | PLEKHS1 | Body | opensea | Body-opens | | rs5326667 | 48;46;1 |
| cg2759909 | 0.204834 | 0.644144 | 7.387596 | 9.92E-05 | 0.002348 | 1.738886 | 0.541727 | 0.746561 | -0.20483 | 14 | 21398180 | F | II | | IGR | opensea | IGR-opense | | rs1904792 | 14;38 |
| cg1844343 | 0.209052 | 0.526795 | 7.387163 | 9.93E-05 | 0.002349 | 1.738466 | 0.422269 | 0.63132 | -0.20905 | 16 | 48766851 | R | II | | IGR | opensea | IGR-opense | | rs5564808 | 39;1 |
| cg2359111 | 0.201967 | 0.754181 | 7.38642 | 9.93E-05 | 0.002349 | 1.737744 | 0.653197 | 0.855165 | -0.20197 | 6 | 1.59E+08 | R | II | C6orf99 | 5'UTR | opensea | 5'UTR-open | | rs5478406 | 44 |
| cg1727914 | 0.232211 | 0.577322 | 7.386403 | 9.93E-05 | 0.002349 | 1.737728 | 0.461216 | 0.693427 | -0.23221 | 2 | 1.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs1466713 | 0 |
| cg2017576 | 0.22006 | 0.435989 | 7.38558 | 9.94E-05 | 0.00235 | 1.736929 | 0.325959 | 0.546019 | -0.22006 | 6 | 1.13E+08 | R | II | LAMA4 | Body | opensea | Body-opens | | rs2072022 | 51;14 |
| cg2043236 | 0.211583 | 0.571809 | 7.384704 | 9.95E-05 | 0.002351 | 1.736077 | 0.466018 | 0.6776 | -0.21158 | 21 | 46738842 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2549132 | 0.230911 | 0.564675 | 7.384464 | 9.95E-05 | 0.002351 | 1.735844 | 0.44922 | 0.680131 | -0.23091 | 5 | 41072899 | F | II | MROH2B | TSS1500 | opensea | TSS1500-op | rs5471986 | 0;43;50 |
| cg0913912 | 0.225406 | 0.589556 | 7.384451 | 9.95E-05 | 0.002351 | 1.735832 | 0.476853 | 0.702259 | -0.22541 | 6 | 34492115 | F | II | PACSIN1 | 5'UTR | shelf | 5'UTR-shelf | chr6:3449 | rs5540612 | 23 |
| cg2697247 | 0.205539 | 0.631755 | 7.38408 | 9.95E-05 | 0.002352 | 1.735472 | 0.528985 | 0.734525 | -0.20554 | 17 | 57406769 | R | II | | IGR | shelf | IGR-shelf | chr17:574 | rs5336468 | 34 |
| cg1954435 | 0.219762 | 0.632369 | 7.383204 | 9.96E-05 | 0.002352 | 1.734621 | 0.522487 | 0.74225 | -0.21976 | 15 | 54025496 | F | II | WDR72 | 5'UTR | opensea | 5'UTR-open | | rs5719765 | 31 |
| cg1640885 | 0.205021 | 0.416734 | 7.383042 | 9.96E-05 | 0.002353 | 1.734464 | 0.314223 | 0.519245 | -0.20502 | 2 | 98808235 | R | II | VWA3B | Body | opensea | Body-opens | | rs5466267 | 48;1 |
| cg2519637 | 0.260572 | 0.434987 | 7.382956 | 9.96E-05 | 0.002353 | 1.73438 | 0.3047 | 0.565273 | -0.26057 | 2 | 1.52E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | | |
| cg0459743 | 0.201998 | 0.641463 | 7.382776 | 9.97E-05 | 0.002353 | 1.734205 | 0.540464 | 0.742462 | -0.202 | 14 | 70355127 | R | II | SMOC1 | Body | opensea | Body-opens | | rs5557600 | 33 |
| cg1139284 | 0.213634 | 0.688962 | 7.379654 | 9.99E-05 | 0.002358 | 1.731171 | 0.582145 | 0.795779 | -0.21363 | 8 | 49987774 | F | II | C8orf22 | Body | opensea | Body-opens | | rs1380230 | 15;27 |
| cg0552000 | 0.204918 | 0.688548 | 7.378812 | 0.0001 | 0.002358 | 1.730352 | 0.586089 | 0.791007 | -0.20492 | 2 | 1.36E+08 | F | II | R3HDM1 | Body | opensea | Body-opens | | rs5521545 | 0;4;10 |
| cg0363396 | 0.289733 | 0.52591 | 7.377603 | 0.0001 | 0.00236 | 1.729177 | 0.381044 | 0.670777 | -0.28973 | 11 | 6222973 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1582209 | 0.23317 | 0.594453 | 7.377249 | 0.0001 | 0.00236 | 1.728833 | 0.477868 | 0.711038 | -0.23317 | 21 | 26561322 | R | II | | IGR | opensea | IGR-opense | | rs5343791 | 48;12 |
| cg0143720 | 0.228683 | 0.431584 | 7.376784 | 0.0001 | 0.002361 | 1.728381 | 0.317243 | 0.545926 | -0.22868 | 1 | 2.02E+08 | F | II | PTPN7 | TSS1500 | opensea | TSS1500-op | rs1092034 | 47 |
| cg0050713 | 0.237083 | 0.603588 | 7.37669 | 0.0001 | 0.002361 | 1.728289 | 0.485047 | 0.722129 | -0.23708 | 10 | 27528611 | F | II | ACBD5 | Body | shore | Body-shore | chr10:275 | rs5528940 | 0;22;41 |
| cg2134101 | 0.228937 | 0.641549 | 7.375565 | 0.0001 | 0.002362 | 1.727196 | 0.527081 | 0.756018 | -0.22894 | 10 | 1.26E+08 | F | II | FAM53B | Body | opensea | Body-opens | | rs1491672 | 0;1 |
| cg0214879 | 0.223204 | 0.55701 | 7.374602 | 0.0001 | 0.002363 | 1.72626 | 0.445408 | 0.668612 | -0.2232 | 2 | 29548577 | R | II | ALK | Body | opensea | Body-opens | | rs7775625 | 28;1 |
| cg0841576 | 0.241092 | 0.377627 | 7.372075 | 0.000101 | 0.002365 | 1.723802 | 0.257081 | 0.498173 | -0.24109 | 20 | 50224747 | R | II | ATP9A | Body | opensea | Body-opens | | rs1906615 | 30;12 |
| cg0047894 | 0.279306 | 0.576868 | 7.371614 | 0.000101 | 0.002366 | 1.723353 | 0.437215 | 0.716521 | -0.27931 | 2 | 75854312 | R | II | | IGR | opensea | IGR-opense | | rs5605754 | 8 |
| cg2451747 | 0.21163 | 0.571088 | 7.371212 | 0.000101 | 0.002367 | 1.722962 | 0.465273 | 0.676903 | -0.21163 | 2 | 70587712 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2553028 | 0.200586 | 0.685156 | 7.370932 | 0.000101 | 0.002367 | 1.72269 | 0.584863 | 0.785448 | -0.20059 | 10 | 22904806 | R | II | PIP4K2A | Body | opensea | Body-opens | | | |
| cg0760473 | 0.201464 | 0.396257 | 7.370511 | 0.000101 | 0.002367 | 1.72228 | 0.295525 | 0.496989 | -0.20146 | 16 | 19295632 | R | II | LOC72827 | TSS1500 | opensea | TSS1500-op | rs5716382 | 28 |
| cg2102172 | 0.235112 | 0.665744 | 7.370372 | 0.000101 | 0.002367 | 1.722145 | 0.548188 | 0.7833 | -0.23511 | 7 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1458209 | 37;39 |
| cg0079743 | 0.230002 | 0.464844 | 7.370293 | 0.000101 | 0.002367 | 1.722069 | 0.349843 | 0.579845 | -0.23 | 11 | 32680447 | F | II | CCDC73 | Body | opensea | Body-opens | | rs5324417 | 7;15;44 |
| cg0479088 | 0.203416 | 0.643438 | 7.368773 | 0.000101 | 0.002369 | 1.720589 | 0.54173 | 0.745146 | -0.20342 | 15 | 58515544 | F | II | | IGR | opensea | IGR-opense | | rs5717238 | 0;28 |
| cg0086992 | 0.276675 | 0.484457 | 7.368079 | 0.000101 | 0.00237 | 1.719914 | 0.34612 | 0.622794 | -0.27667 | 1 | 67051101 | R | II | SGIP1 | Body | opensea | Body-opens | | | |
| cg1515982 | 0.225939 | 0.531524 | 7.364605 | 0.000101 | 0.002373 | 1.716532 | 0.418554 | 0.644493 | -0.22594 | 6 | 1.6E+08 | F | II | FNDC1 | Body | opensea | Body-opens | | rs5542824 | 0;2 |
| cg0542691 | 0.204622 | 0.572043 | 7.360916 | 0.000102 | 0.002378 | 1.712939 | 0.469732 | 0.674354 | -0.20462 | 20 | 52612842 | R | II | BCAS1 | Body | opensea | Body-opens | | rs5474291 | 2 |
| cg2008318 | 0.214701 | 0.669793 | 7.360502 | 0.000102 | 0.002378 | 1.712537 | 0.562442 | 0.777144 | -0.2147 | 3 | 1.52E+08 | F | II | | IGR | opensea | IGR-opense | | rs1450104 | 11;31;51 |
| cg1989623 | 0.211699 | 0.612087 | 7.360297 | 0.000102 | 0.002378 | 1.712337 | 0.506237 | 0.717937 | -0.2117 | 2 | 19435289 | F | II | | IGR | opensea | IGR-opense | | rs5547201 | 1;6;44;49 |
| cg0629748 | 0.213435 | 0.701081 | 7.360132 | 0.000102 | 0.002378 | 1.712176 | 0.594363 | 0.807799 | -0.21344 | 16 | 73240390 | R | II | | IGR | opensea | IGR-opense | | rs5575901 | 4;2;1 |
| cg2362755 | 0.266984 | 0.467508 | 7.358862 | 0.000102 | 0.002379 | 1.710939 | 0.334016 | 0.601 | -0.26698 | 2 | 2.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5383838 | 15 |
| cg1138988 | 0.21001 | 0.618959 | 7.356943 | 0.000102 | 0.002382 | 1.709069 | 0.513954 | 0.723964 | -0.21001 | 20 | 2634874 | R | II | NOP56 | Body | shore | Body-shore | chr20:263 | rs5565108 | 44;37;36;25;23;21;15;2;1 |
| cg0905520 | 0.22491 | 0.354077 | 7.356594 | 0.000102 | 0.002382 | 1.708729 | 0.241622 | 0.466532 | -0.22491 | 8 | 27780272 | F | II | SCARA5 | Body | shore | Body-shore | chr8:2777 | rs5519524 | 7;25;26;36 |
| cg2615736 | 0.237915 | 0.531501 | 7.356039 | 0.000102 | 0.002382 | 1.708188 | 0.412543 | 0.650458 | -0.23791 | 3 | 1.05E+08 | F | II | CBLB | Body | opensea | Body-opens | | | |
| cg0749197 | 0.202508 | 0.506705 | 7.353673 | 0.000102 | 0.002385 | 1.705882 | 0.405451 | 0.607959 | -0.20251 | 3 | 4448600 | R | II | SUMF1 | Body | opensea | Body-opens | | rs1389275 | 19 |
| cg2661266 | 0.213929 | 0.705821 | 7.353667 | 0.000102 | 0.002385 | 1.705876 | 0.598856 | 0.812785 | -0.21393 | 5 | 1.26E+08 | F | II | GRAMD3 | Body | opensea | Body-opens | | rs5620036 | 0;1;31 |
| cg0068671 | 0.21524 | 0.65214 | 7.353563 | 0.000102 | 0.002385 | 1.705775 | 0.54452 | 0.75976 | -0.21524 | 3 | 6190521 | R | II | | IGR | opensea | IGR-opense | | rs7746314 | 13 |
| cg1566672 | 0.211008 | 0.628335 | 7.353471 | 0.000102 | 0.002385 | 1.705686 | 0.522831 | 0.733839 | -0.21101 | 3 | 1.26E+08 | F | II | UROC1 | Body | opensea | Body-opens | | rs1165998 | 49 |
| cg2217209 | 0.204578 | 0.696611 | 7.352096 | 0.000103 | 0.002386 | 1.704345 | 0.594322 | 0.7989 | -0.20458 | 3 | 1.19E+08 | F | II | TMEM39A | TSS1500 | opensea | TSS1500-op | rs5353355 | 0;16;48 |
| cg2220610 | 0.231207 | 0.504386 | 7.350556 | 0.000103 | 0.002387 | 1.702843 | 0.388782 | 0.619989 | -0.23121 | 17 | 16344518 | R | II | LRRC75A-A | Body | shore | Body-shore | chr17:163 | rs5553797 | 44;39;34;11 |
| cg2691183 | 0.208873 | 0.563454 | 7.349013 | 0.000103 | 0.002389 | 1.701339 | 0.459018 | 0.667891 | -0.20887 | 1 | 1.57E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1694143 | 0.240167 | 0.40358 | 7.348269 | 0.000103 | 0.00239 | 1.700613 | 0.283497 | 0.523664 | -0.24017 | 6 | 45678413 | F | II | | IGR | opensea | IGR-opense | | rs5603071 | 33;38;40 |
| cg1762936 | 0.212522 | 0.634397 | 7.348166 | 0.000103 | 0.00239 | 1.700512 | 0.528136 | 0.740658 | -0.21252 | 10 | 1.06E+08 | F | II | CFAP58 | Body | opensea | Body-opens | | rs1419434 | 9 |
| cg0276782 | 0.228031 | 0.550678 | 7.347171 | 0.000103 | 0.002391 | 1.699541 | 0.436662 | 0.664693 | -0.22803 | 4 | 90022810 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2119995 | 0.215329 | 0.743417 | 7.346466 | 0.000103 | 0.002392 | 1.698854 | 0.635753 | 0.851082 | -0.21533 | 1 | 2.23E+08 | R | II | MIA3 | Body | shore | Body-shore | chr1:2227 | | |
| cg1128203 | 0.207436 | 0.659632 | 7.3459 | 0.000103 | 0.002392 | 1.698302 | 0.555915 | 0.76335 | -0.20744 | 17 | 78229251 | F | II | | IGR | opensea | IGR-opense | | rs1926638 | 40 |
| cg1905216 | 0.202482 | 0.481735 | 7.345692 | 0.000103 | 0.002393 | 1.698099 | 0.380494 | 0.582976 | -0.20248 | 5 | 80900 | R | II | | IGR | shelf | IGR-shelf | chr5:8342 | | |
| cg0715003 | 0.200622 | 0.62094 | 7.344562 | 0.000103 | 0.002394 | 1.696996 | 0.520629 | 0.72125 | -0.20062 | 14 | 21213898 | R | II | FAM12A | TSS200 | opensea | TSS200-ope | rs1888567 | 39 |
| cg1031408 | 0.201939 | 0.533616 | 7.344288 | 0.000103 | 0.002394 | 1.696728 | 0.432646 | 0.634586 | -0.20194 | 20 | 39291107 | F | II | | IGR | opensea | IGR-opense | | rs5307784 | 0;1;9;14;15;39 |
| cg1025135 | 0.219336 | 0.469577 | 7.343191 | 0.000103 | 0.002395 | 1.695658 | 0.359909 | 0.579245 | -0.21934 | 18 | 45682442 | R | II | | IGR | opensea | IGR-opense | | rs7884615 | 36;8;2 |
| cg0571473 | 0.251934 | 0.458772 | 7.342958 | 0.000103 | 0.002395 | 1.695431 | 0.332806 | 0.584739 | -0.25193 | 1 | 32409096 | F | II | | IGR | shore | IGR-shore | chr1:3241 | rs5467830 | 1 |
| cg2532668 | 0.278054 | 0.579326 | 7.339154 | 0.000104 | 0.0024 | 1.691717 | 0.440299 | 0.718353 | -0.27805 | 5 | 1.68E+08 | F | II | TENM2 | Body | opensea | Body-opens | | rs1930661 | 15 |
| cg2132162 | 0.23924 | 0.500654 | 7.337153 | 0.000104 | 0.002402 | 1.689763 | 0.381034 | 0.620274 | -0.23924 | 15 | 68325193 | F | II | | IGR | opensea | IGR-opense | | rs5573970 | 1;31;33 |
| cg2068029 | 0.2051 | 0.593475 | 7.337039 | 0.000104 | 0.002402 | 1.689651 | 0.490925 | 0.696026 | -0.2051 | 7 | 81600391 | F | II | CACNA2D1 | Body | opensea | Body-opens | | rs5529583 | 1;51 |
| cg2130166 | 0.205837 | 0.33913 | 7.33699 | 0.000104 | 0.002402 | 1.689604 | 0.236212 | 0.442048 | -0.20584 | 2 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs1807813 | 47 |
| cg2583420 | 0.215107 | 0.715905 | 7.33698 | 0.000104 | 0.002402 | 1.689594 | 0.608352 | 0.823459 | -0.21511 | 1 | 59949993 | R | II | FGGY | Body | opensea | Body-opens | | rs1479247 | 41 |
| cg2511639 | 0.246566 | 0.509034 | 7.336924 | 0.000104 | 0.002402 | 1.689539 | 0.385751 | 0.632317 | -0.24657 | 7 | 1.29E+08 | R | II | AHCYL2 | Body | opensea | Body-opens | | rs7889686 | 22;2 |
| cg2616511 | 0.239768 | 0.377308 | 7.336899 | 0.000104 | 0.002402 | 1.689515 | 0.257424 | 0.497192 | -0.23977 | 10 | 17553514 | R | II | | IGR | opensea | IGR-opense | | rs5638384 | 36;5;1 |
| cg0638782 | 0.213426 | 0.50698 | 7.336179 | 0.000104 | 0.002403 | 1.688812 | 0.400267 | 0.613693 | -0.21343 | 2 | 36892192 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0234225 | 0.205351 | 0.685127 | 7.33478 | 0.000104 | 0.002404 | 1.687445 | 0.582452 | 0.787803 | -0.20535 | 13 | 73438452 | R | II | PIBF1 | Body | opensea | Body-opens | | rs5319577 | 21;11;1 |
| cg1012829 | 0.206963 | 0.423905 | 7.334706 | 0.000104 | 0.002404 | 1.687373 | 0.320423 | 0.527387 | -0.20696 | 5 | 76086605 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1766641 | 0.2062 | 0.419559 | 7.334494 | 0.000104 | 0.002405 | 1.687165 | 0.31646 | 0.522659 | -0.2062 | 6 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5710963 | 45 |
| cg0115435 | 0.216526 | 0.616243 | 7.333787 | 0.000104 | 0.002405 | 1.686475 | 0.50798 | 0.724506 | -0.21653 | 13 | 44953908 | R | II | SERP2 | Body | opensea | Body-opens | | rs5331105 | 19;18;6;1 |
| cg2045833 | 0.219016 | 0.534785 | 7.333682 | 0.000104 | 0.002405 | 1.686372 | 0.425278 | 0.644293 | -0.21902 | 13 | 32502384 | R | II | EEF1DP3 | Body | opensea | Body-opens | | | |
| cg2344999 | 0.224088 | 0.525262 | 7.333139 | 0.000104 | 0.002406 | 1.685842 | 0.413218 | 0.637306 | -0.22409 | 1 | 46563930 | F | II | PIK3R3 | Body | opensea | Body-opens | | | |
| cg0370596 | 0.287933 | 0.588889 | 7.332126 | 0.000104 | 0.002406 | 1.684852 | 0.444922 | 0.732855 | -0.28793 | 7 | 1.12E+08 | F | II | DOCK4 | Body | opensea | Body-opens | | rs1129577 | 0 |
| cg1183676 | 0.216098 | 0.647663 | 7.330081 | 0.000105 | 0.00241 | 1.682853 | 0.539614 | 0.755712 | -0.2161 | 19 | 48754521 | F | II | CARD8 | TSS1500 | opensea | TSS1500-op | rs1872969 | 28 |
| cg0712025 | 0.248799 | 0.613143 | 7.329786 | 0.000105 | 0.00241 | 1.682565 | 0.488743 | 0.737543 | -0.2488 | 6 | 47199817 | F | II | TNFRSF21 | 3'UTR | opensea | 3'UTR-open | rs5636279 | 20;32;34 |
| cg1045901 | 0.239011 | 0.574064 | 7.327569 | 0.000105 | 0.002413 | 1.680397 | 0.454558 | 0.69357 | -0.23901 | 6 | 22574143 | F | II | | IGR | shelf | IGR-shelf | chr6:2256 | rs1483187 | 13;25;41 |
| cg1052457 | 0.223252 | 0.48186 | 7.326193 | 0.000105 | 0.002414 | 1.679052 | 0.370234 | 0.593486 | -0.22325 | 12 | 63322644 | F | II | PPM1H | Body | opensea | Body-opens | | rs5293536 | 0 |
| cg1660483 | 0.226367 | 0.400923 | 7.326184 | 0.000105 | 0.002414 | 1.679043 | 0.287739 | 0.514106 | -0.22637 | 7 | 1.08E+08 | F | II | NRCAM | 5'UTR | opensea | 5'UTR-open | rs5572698 | 0;23;28;45 |
| cg1446702 | 0.242274 | 0.660485 | 7.325192 | 0.000105 | 0.002416 | 1.678073 | 0.539348 | 0.781622 | -0.24227 | 2 | 1.78E+08 | R | II | LOC10013 | Body | opensea | Body-opens | | rs1456661 | 37 |
| cg2755092 | 0.202415 | 0.587645 | 7.324805 | 0.000105 | 0.002416 | 1.677695 | 0.486438 | 0.688853 | -0.20242 | 13 | 47578623 | R | II | | IGR | opensea | IGR-opense | | rs1911851 | 37;12;7 |
| cg0424128 | 0.213866 | 0.63308 | 7.324248 | 0.000105 | 0.002417 | 1.67715 | 0.526147 | 0.740013 | -0.21387 | 10 | 13147286 | R | II | OPTN | 5'UTR | opensea | 5'UTR-open | rs1251134 | 34 |
| cg2443352 | 0.211468 | 0.570343 | 7.323907 | 0.000105 | 0.002417 | 1.676816 | 0.464609 | 0.676077 | -0.21147 | 2 | 2.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs1162507 | 27 |
| cg1751181 | 0.213925 | 0.592925 | 7.323753 | 0.000105 | 0.002418 | 1.676666 | 0.485962 | 0.699888 | -0.21393 | 6 | 56755762 | R | II | DST | Body | opensea | Body-opens | | rs5579069 | 17;10;1 |
| cg2584078 | 0.234725 | 0.680505 | 7.322965 | 0.000105 | 0.002418 | 1.675895 | 0.563143 | 0.797868 | -0.23473 | 20 | 50156843 | F | II | NFATC2 | Body | shelf | Body-shelf | chr20:501 | rs5475672 | 1;30;31 |
| cg0854672 | 0.202973 | 0.549502 | 7.322857 | 0.000105 | 0.002418 | 1.675789 | 0.448016 | 0.650989 | -0.20297 | 10 | 67705174 | F | II | CTNNA3 | Body | opensea | Body-opens | | rs5763577 | 1;33 |
| cg1665189 | 0.202797 | 0.589643 | 7.322843 | 0.000105 | 0.002418 | 1.675775 | 0.488244 | 0.691041 | -0.2028 | 16 | 77910291 | F | II | VAT1L | Body | opensea | Body-opens | | rs2009665 | 1;15;18;45 |
| cg0551796 | 0.211612 | 0.650383 | 7.322824 | 0.000105 | 0.002418 | 1.675757 | 0.544577 | 0.756189 | -0.21161 | 2 | 10501538 | F | II | HPCAL1 | 5'UTR | opensea | 5'UTR-open | rs1477302 | 0 |
| cg0623013 | 0.204489 | 0.639592 | 7.322743 | 0.000105 | 0.002418 | 1.675677 | 0.537348 | 0.741837 | -0.20449 | 3 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5382117 | 22;21 |
| cg1452495 | 0.222433 | 0.659632 | 7.322355 | 0.000105 | 0.002419 | 1.675298 | 0.548416 | 0.770849 | -0.22243 | 1 | 17531661 | R | II | PADI1 | 5'UTR | opensea | 5'UTR-open | rs1160208 | 45;31;9;2 |
| cg0963117 | 0.204692 | 0.587753 | 7.321525 | 0.000105 | 0.00242 | 1.674486 | 0.485407 | 0.690099 | -0.20469 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5643954 | 37;7 |
| cg1401532 | 0.228309 | 0.54232 | 7.320754 | 0.000106 | 0.002421 | 1.673732 | 0.428165 | 0.656475 | -0.22831 | 8 | 1686076 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2619407 | 0.243603 | 0.603202 | 7.320364 | 0.000106 | 0.002421 | 1.67335 | 0.4814 | 0.725003 | -0.2436 | 6 | 21353994 | R | II | | IGR | opensea | IGR-opense | | rs1511818 | 7 |
| cg1390858 | 0.233614 | 0.500434 | 7.319534 | 0.000106 | 0.002422 | 1.672538 | 0.383627 | 0.617241 | -0.23361 | 19 | 38918142 | R | II | RASGRP4 | TSS1500 | opensea | TSS1500-op | rs5374606 | 29;15;9 |
| cg0524907 | 0.230842 | 0.61908 | 7.317254 | 0.000106 | 0.002425 | 1.670306 | 0.503659 | 0.734501 | -0.23084 | 17 | 48648690 | R | II | CACNA1G | Body | shore | Body-shore | chr17:486 | rs5373098 | 1 |
| cg2147099 | 0.210678 | 0.647282 | 7.315757 | 0.000106 | 0.002426 | 1.668841 | 0.541943 | 0.75262 | -0.21068 | 1 | 19828942 | R | II | | IGR | opensea | IGR-opense | | rs5646786 | 22;14 |
| cg0732211 | 0.225826 | 0.653369 | 7.315343 | 0.000106 | 0.002427 | 1.668435 | 0.540456 | 0.766282 | -0.22583 | 1 | 9498583 | R | II | | IGR | opensea | IGR-opense | | rs5339761 | 27;1 |
| cg0963481 | 0.232559 | 0.596934 | 7.314028 | 0.000106 | 0.002428 | 1.667148 | 0.480654 | 0.713213 | -0.23256 | 10 | 1.29E+08 | R | II | DOCK1 | Body | opensea | Body-opens | | rs5451282 | 41;22;1 |
| cg1458429 | 0.289987 | 0.34978 | 7.312825 | 0.000106 | 0.002429 | 1.66597 | 0.204786 | 0.494773 | -0.28999 | 11 | 1.22E+08 | R | II | MIR100HG | Body | opensea | Body-opens | | | |
| cg1269882 | 0.200022 | 0.693543 | 7.310907 | 0.000106 | 0.00243 | 1.664091 | 0.593532 | 0.793554 | -0.20002 | 4 | 1.57E+08 | F | II | GUCY1A3 | 3'UTR | opensea | 3'UTR-open | rs5662320 | 9 |
| cg1668501 | 0.216739 | 0.596048 | 7.310533 | 0.000107 | 0.002431 | 1.663725 | 0.487678 | 0.704417 | -0.21674 | 3 | 1.8E+08 | R | II | PEX5L | Body | opensea | Body-opens | | rs1902076 | 32;1 |
| cg0631615 | 0.208993 | 0.524025 | 7.308947 | 0.000107 | 0.002432 | 1.662171 | 0.419528 | 0.628521 | -0.20899 | 2 | 2.17E+08 | R | II | LINC00607 | Body | opensea | Body-opens | | rs1404432 | 15;2 |
| cg1215480 | 0.250977 | 0.494863 | 7.307789 | 0.000107 | 0.002433 | 1.661036 | 0.369374 | 0.620351 | -0.25098 | 22 | 45615112 | F | II | KIAA0930 | Body | opensea | Body-opens | | rs1840236 | 0 |
| cg0694026 | 0.207912 | 0.616045 | 7.307498 | 0.000107 | 0.002434 | 1.660751 | 0.512089 | 0.720001 | -0.20791 | 8 | 19188674 | F | II | SH2D4A | Body | opensea | Body-opens | | rs5413798 | 9;43 |
| cg2639550 | 0.239933 | 0.592604 | 7.307026 | 0.000107 | 0.002434 | 1.660288 | 0.472637 | 0.71257 | -0.23993 | 4 | 96474383 | R | II | | IGR | shelf | IGR-shelf | chr4:9646 | rs5445429 | 25;18;2 |
| cg0125519 | 0.214112 | 0.483072 | 7.306886 | 0.000107 | 0.002434 | 1.660151 | 0.376016 | 0.590129 | -0.21411 | 16 | 88848972 | F | II | PIEZO1 | Body | shore | Body-shore | chr16:888 | rs1403036 | 0;13;14;36 |
| cg1676395 | 0.243621 | 0.442986 | 7.306158 | 0.000107 | 0.002435 | 1.659437 | 0.321175 | 0.564796 | -0.24362 | 13 | 44379437 | F | II | | IGR | opensea | IGR-opense | | rs5676858 | 0 |
| cg1132854 | 0.202074 | 0.585747 | 7.305853 | 0.000107 | 0.002435 | 1.659139 | 0.48471 | 0.686784 | -0.20207 | 19 | 14910889 | F | II | OR7C1 | 1stExon | opensea | 1stExon-op | rs1495619 | 11 |
| cg1580229 | 0.213761 | 0.626468 | 7.302778 | 0.000107 | 0.002439 | 1.656124 | 0.519587 | 0.733349 | -0.21376 | 17 | 57069406 | R | II | TRIM37 | Body | opensea | Body-opens | | rs1872094 | 13;2 |
| cg0061154 | 0.236284 | 0.580533 | 7.301896 | 0.000107 | 0.00244 | 1.655259 | 0.462391 | 0.698675 | -0.23628 | 2 | 2.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5527183 | 51 |
| cg1487282 | 0.216953 | 0.580449 | 7.301706 | 0.000107 | 0.00244 | 1.655073 | 0.471973 | 0.688925 | -0.21695 | 10 | 29095261 | R | II | LINC01517 | Body | opensea | Body-opens | | rs5298043 | 48 |
| cg2410274 | 0.202026 | 0.589758 | 7.30135 | 0.000107 | 0.00244 | 1.654723 | 0.488745 | 0.690771 | -0.20203 | 7 | 1.42E+08 | R | II | CLEC5A | TSS200 | opensea | TSS200-ope | rs5486163 | 1 |
| cg0514648 | 0.22294 | 0.579174 | 7.30069 | 0.000107 | 0.002441 | 1.654076 | 0.467704 | 0.690645 | -0.22294 | 1 | 1.73E+08 | R | II | FASLG | Body | opensea | Body-opens | | rs2022556 | 11;10;1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0019146 | 0.200036 | 0.577833 | 7.299826 | 0.000108 | 0.002442 | 1.653229 | 0.477815 | 0.677851 | -0.20004 | 7 | 83097391 | R | II | SEMA3E | Body | opensea | Body-opens | | rs1888175 | 27;2 |
| cg2013615 | 0.210529 | 0.524255 | 7.299816 | 0.000108 | 0.002442 | 1.65322 | 0.41899 | 0.629519 | -0.21053 | 9 | 36817576 | R | II | | IGR | opensea | IGR-opense | | rs80151681 | 31 |
| cg1686438 | 0.210817 | 0.66015 | 7.299251 | 0.000108 | 0.002442 | 1.652665 | 0.554741 | 0.765558 | -0.21082 | 11 | 8108831 | R | II | TUB | Body | opensea | Body-opens | | | |
| cg0519923 | 0.234434 | 0.377633 | 7.299201 | 0.000108 | 0.002442 | 1.652616 | 0.260416 | 0.49485 | -0.23443 | 12 | 43548942 | F | II | | IGR | opensea | IGR-opense | | rs5299120 | 23;34 |
| cg0916364 | 0.256769 | 0.576009 | 7.297902 | 0.000108 | 0.002444 | 1.651341 | 0.447624 | 0.704393 | -0.25677 | 9 | 6566510 | R | II | GLDC | Body | opensea | Body-opens | | rs5738601 | 48;30;22 |
| cg0212418 | 0.220193 | 0.671754 | 7.297584 | 0.000108 | 0.002444 | 1.65103 | 0.561657 | 0.78185 | -0.22019 | 5 | 72950691 | F | II | RGNEF | 5'UTR | opensea | 5'UTR-open | | rs1119738 | 0 |
| cg0489544 | 0.203945 | 0.595854 | 7.295888 | 0.000108 | 0.002446 | 1.649365 | 0.493881 | 0.697827 | -0.20395 | 3 | 11342661 | F | II | ATG7 | Body | opensea | Body-opens | | | |
| cg1770273 | 0.263343 | 0.511673 | 7.295734 | 0.000108 | 0.002446 | 1.649215 | 0.380001 | 0.643344 | -0.26334 | 6 | 35941709 | F | II | SLC26A8 | Body | opensea | Body-opens | | | |
| cg1978224 | 0.208384 | 0.443469 | 7.295676 | 0.000108 | 0.002446 | 1.649158 | 0.339277 | 0.547661 | -0.20838 | 2 | 1.74E+08 | R | II | | IGR | opensea | IGR-opense | | rs5735937 | 26;2 |
| cg1378536 | 0.206411 | 0.641427 | 7.295675 | 0.000108 | 0.002446 | 1.649157 | 0.538221 | 0.744633 | -0.20641 | 1 | 2.11E+08 | R | II | RCOR3 | Body | opensea | Body-opens | | rs1451598 | 1 |
| cg0571620 | 0.266303 | 0.484024 | 7.29547 | 0.000108 | 0.002446 | 1.648956 | 0.350873 | 0.617176 | -0.2663 | 4 | 1.75E+08 | R | II | | IGR | opensea | IGR-opense | | rs5379179 | 50;48;8;2;1 |
| cg1981380 | 0.231648 | 0.701185 | 7.294845 | 0.000108 | 0.002446 | 1.648342 | 0.58536 | 0.817009 | -0.23165 | 2 | 2.19E+08 | F | II | DIRC3 | Body | opensea | Body-opens | | rs1869073 | 0;8 |
| cg1436648 | 0.235836 | 0.589491 | 7.293832 | 0.000108 | 0.002447 | 1.647348 | 0.471573 | 0.707409 | -0.23584 | 2 | 1.79E+08 | R | II | PDE11A | Body | opensea | Body-opens | | rs5319771 | 45;37 |
| cg0915281 | 0.23493 | 0.538088 | 7.293666 | 0.000108 | 0.002447 | 1.647185 | 0.420624 | 0.655553 | -0.23493 | 2 | 1.06E+08 | R | II | NCK2 | 5'UTR | opensea | 5'UTR-open | | rs4851864 | 43 |
| cg0063253 | 0.213109 | 0.48229 | 7.293639 | 0.000108 | 0.002447 | 1.647159 | 0.375735 | 0.588844 | -0.21311 | 3 | 1.31E+08 | F | II | NEK11 | Body | opensea | Body-opens | | rs5752773 | 29 |
| cg1790359 | 0.233799 | 0.370106 | 7.292624 | 0.000108 | 0.002449 | 1.646162 | 0.253207 | 0.487006 | -0.2338 | 1 | 28623081 | F | II | | IGR | opensea | IGR-opense | | rs1816048 | 9;37 |
| cg2582312 | 0.200278 | 0.565021 | 7.292344 | 0.000108 | 0.002449 | 1.645887 | 0.464882 | 0.66516 | -0.20028 | 10 | 1.35E+08 | R | II | SYCE1 | Body | opensea | Body-opens | | rs1424736 | 43;33;2 |
| cg1423955 | 0.204644 | 0.630596 | 7.29132 | 0.000108 | 0.00245 | 1.644882 | 0.528274 | 0.732918 | -0.20464 | 9 | 1.13E+08 | R | II | SVEP1 | Body | opensea | Body-opens | | rs5607355 | 1 |
| cg1707204 | 0.228313 | 0.606923 | 7.286599 | 0.000109 | 0.002455 | 1.640246 | 0.492766 | 0.721079 | -0.22831 | 2 | 1.74E+08 | F | II | CDCA7 | Body | shelf | Body-shelf | chr2:1742 | rs2013787 | 38 |
| cg1187670 | 0.23319 | 0.444506 | 7.286315 | 0.000109 | 0.002456 | 1.639967 | 0.327911 | 0.561101 | -0.23319 | 19 | 38918253 | R | II | RASGRP4 | TSS1500 | opensea | TSS1500-o | | rs1930561 | 18 |
| cg1225484 | 0.203285 | 0.635604 | 7.284813 | 0.000109 | 0.002457 | 1.638491 | 0.533961 | 0.737247 | -0.20329 | 2 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1863978 | 0;41 |
| cg1412770 | 0.221853 | 0.504652 | 7.28473 | 0.000109 | 0.002457 | 1.63841 | 0.393725 | 0.615578 | -0.22185 | 20 | 4172792 | F | II | LINC01433 | TSS1500 | opensea | TSS1500-o | | rs5754793 | 29 |
| cg1834149 | 0.223767 | 0.476682 | 7.284684 | 0.000109 | 0.002457 | 1.638364 | 0.364799 | 0.588566 | -0.22377 | 5 | 1.38E+08 | F | II | LRRTM2 | 3'UTR | opensea | 3'UTR-open | | rs5457311 | 44 |
| cg1692415 | 0.202888 | 0.664901 | 7.282761 | 0.000109 | 0.00246 | 1.636475 | 0.563457 | 0.766345 | -0.20289 | 20 | 33064906 | R | II | ITCH | Body | opensea | Body-opens | | rs5779181 | 1 |
| cg2459016 | 0.216425 | 0.489881 | 7.282696 | 0.000109 | 0.00246 | 1.636411 | 0.381668 | 0.598094 | -0.21643 | 10 | 94480397 | F | II | | IGR | opensea | IGR-opense | | rs5704052 | 26 |
| cg1659440 | 0.20829 | 0.539836 | 7.282528 | 0.000109 | 0.00246 | 1.636246 | 0.435691 | 0.643981 | -0.20829 | 8 | 1.31E+08 | F | II | ASAP1 | Body | opensea | Body-opens | | rs3755064 | 1;12;29 |
| cg0116418 | 0.220915 | 0.763455 | 7.280249 | 0.00011 | 0.002463 | 1.634006 | 0.652998 | 0.873912 | -0.22091 | 5 | 68591007 | R | II | CCDC125 | Body | opensea | Body-opens | | rs5280893 | 50;28;27 |
| cg0993190 | 0.266803 | 0.484928 | 7.27958 | 0.00011 | 0.002463 | 1.633348 | 0.351526 | 0.61833 | -0.2668 | 6 | 74160206 | F | II | C6orf150 | Body | shore | Body-shore | chr6:7416 | rs5778603 | 46 |
| cg0193246 | 0.211692 | 0.58894 | 7.278277 | 0.00011 | 0.002465 | 1.632067 | 0.483094 | 0.694787 | -0.21169 | 3 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs5613369 | 31;46 |
| cg0812539 | 0.217446 | 0.546128 | 7.27821 | 0.00011 | 0.002465 | 1.632001 | 0.437405 | 0.654851 | -0.21745 | 20 | 47000124 | R | II | | IGR | shore | IGR-shore | chr20:4700 | | |
| cg2495671 | 0.225916 | 0.536361 | 7.277045 | 0.00011 | 0.002466 | 1.630855 | 0.423403 | 0.649319 | -0.22592 | 2 | 32157955 | R | II | MEMO1 | 5'UTR | opensea | 5'UTR-open | | rs1469062 | 42;23;2;1 |
| cg1299301 | 0.209869 | 0.600003 | 7.276314 | 0.00011 | 0.002467 | 1.630137 | 0.495068 | 0.704937 | -0.20987 | 22 | 33375726 | R | II | SYN3 | Body | opensea | Body-opens | | rs241730 | 24;1 |
| cg1883620 | 0.211548 | 0.631228 | 7.275712 | 0.00011 | 0.002468 | 1.629544 | 0.525454 | 0.737002 | -0.21155 | 16 | 50588188 | R | II | NKD1 | Body | opensea | Body-opens | | rs5745607 | 12 |
| cg2491081 | 0.218336 | 0.715654 | 7.275259 | 0.00011 | 0.002468 | 1.629098 | 0.606486 | 0.824822 | -0.21834 | 1 | 1.85E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0925845 | 0.231629 | 0.439792 | 7.274989 | 0.00011 | 0.002469 | 1.628833 | 0.323977 | 0.555607 | -0.23163 | 19 | 38918162 | R | II | RASGRP4 | TSS1500 | opensea | TSS1500-o | | rs5374606 | 49;35;29;9;7;1 |
| cg0942575 | 0.218496 | 0.497679 | 7.274234 | 0.00011 | 0.002469 | 1.62809 | 0.388431 | 0.606927 | -0.2185 | 20 | 51117318 | R | I | | IGR | opensea | IGR-opense | | rs1190616 | 41 |
| cg0767975 | 0.210148 | 0.600616 | 7.274057 | 0.00011 | 0.002469 | 1.627917 | 0.495542 | 0.70569 | -0.21015 | 12 | 96134315 | R | II | NTN4 | Body | opensea | Body-opens | | rs1860253 | 43;41;21;6;2;1 |
| cg2582848 | 0.225562 | 0.611141 | 7.272413 | 0.00011 | 0.002471 | 1.626299 | 0.49836 | 0.723922 | -0.22556 | 2 | 1.71E+08 | F | II | MYO3B | Body | opensea | Body-opens | | rs5628350 | 0;7;20 |
| cg2492221 | 0.22516 | 0.467189 | 7.27134 | 0.00011 | 0.002473 | 1.625243 | 0.35461 | 0.579769 | -0.22516 | 18 | 24146960 | R | II | KCTD1 | Body | opensea | Body-opens | | rs1437947 | 24 |
| cg2557113 | 0.238661 | 0.443295 | 7.270565 | 0.000111 | 0.002473 | 1.62448 | 0.323964 | 0.562625 | -0.23866 | 6 | 1.28E+08 | R | II | ECHDC1 | 3'UTR | opensea | 3'UTR-open | | rs5309609 | 32;10 |
| cg2540389 | 0.200486 | 0.557289 | 7.270062 | 0.000111 | 0.002474 | 1.623985 | 0.457046 | 0.657532 | -0.20049 | 8 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs1845556 | 17 |
| cg0196764 | 0.21484 | 0.45731 | 7.270052 | 0.000111 | 0.002474 | 1.623976 | 0.34989 | 0.56473 | -0.21484 | 1 | 38229476 | F | II | EPHA10 | Body | shore | Body-shore | chr1:3822 | rs5610241 | 1 |
| cg1182179 | 0.223601 | 0.385704 | 7.267523 | 0.000111 | 0.002477 | 1.621486 | 0.273904 | 0.497505 | -0.2236 | 22 | 47611604 | R | II | | IGR | shelf | IGR-shelf | chr22:476 | rs1923492 | 21;2;1 |
| cg2450074 | 0.210962 | 0.579207 | 7.266594 | 0.000111 | 0.002478 | 1.620571 | 0.473726 | 0.684688 | -0.21096 | 1 | 4557351 | R | II | | IGR | opensea | IGR-opense | | rs780602 | 36;15;1 |
| cg1232798 | 0.220999 | 0.400936 | 7.266476 | 0.000111 | 0.002478 | 1.620455 | 0.290436 | 0.511435 | -0.221 | 14 | 32675436 | F | II | | IGR | shelf | IGR-shelf | chr14:3267 | rs5480985 | 9;18;25 |
| cg0641939 | 0.237119 | 0.622123 | 7.26616 | 0.000111 | 0.002479 | 1.620144 | 0.503563 | 0.740682 | -0.23712 | 11 | 59952352 | F | II | MS4A6A | TSS1500 | opensea | TSS1500-o | | rs1835661 | 1;15;16;25;35;38 |
| cg0594202 | 0.207009 | 0.632359 | 7.265836 | 0.000111 | 0.002479 | 1.619825 | 0.528855 | 0.735864 | -0.20701 | 1 | 43402591 | F | II | SLC2A1 | Body | opensea | Body-opens | | rs5644101 | 0;16;21;29 |
| cg1452113 | 0.203652 | 0.632209 | 7.265721 | 0.000111 | 0.002479 | 1.619712 | 0.530383 | 0.734035 | -0.20365 | 3 | 44162215 | R | II | | IGR | opensea | IGR-opense | | rs5685135 | 36;2;1 |
| cg2696124 | 0.268775 | 0.4648 | 7.264779 | 0.000111 | 0.00248 | 1.618784 | 0.330413 | 0.599187 | -0.26877 | 6 | 90813309 | F | II | BACH2 | 5'UTR | opensea | 5'UTR-open | | rs5570660 | 15;20;42 |
| cg2117249 | 0.227489 | 0.598117 | 7.263181 | 0.000111 | 0.002482 | 1.61721 | 0.484372 | 0.711861 | -0.22749 | 9 | 78510119 | F | II | PCSK5 | Body | shelf | Body-shelf | chr9:7850 | rs5441930 | 8;49 |
| cg1032149 | 0.206411 | 0.543139 | 7.261569 | 0.000111 | 0.002484 | 1.615622 | 0.439933 | 0.646345 | -0.20641 | 5 | 63460267 | R | II | RNF180 | TSS1500 | shore | TSS1500-sh | chr5:6346 | rs7643877 | 48;39;10 |
| cg1593156 | 0.250446 | 0.539071 | 7.261314 | 0.000111 | 0.002484 | 1.615371 | 0.413848 | 0.664294 | -0.25045 | 9 | 71985131 | F | II | FAM189A2 | Body | opensea | Body-opens | | rs1113834 | 20;38 |
| cg2295375 | 0.205168 | 0.477846 | 7.26121 | 0.000112 | 0.002484 | 1.615269 | 0.375263 | 0.58043 | -0.20517 | 5 | 10632397 | F | II | ANKRD33B | Body | opensea | Body-opens | | rs1482635 | 1;11;28;35;43 |
| cg2356230 | 0.208911 | 0.531245 | 7.259653 | 0.000112 | 0.002486 | 1.613735 | 0.42679 | 0.635701 | -0.20891 | 3 | 1.12E+08 | F | II | | IGR | opensea | IGR-opense | | rs1451531 | 51 |
| cg1814440 | 0.20197 | 0.587854 | 7.259001 | 0.000112 | 0.002487 | 1.613092 | 0.486869 | 0.68884 | -0.20197 | 5 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | rs1922828 | 33;34 |
| cg1046061 | 0.214503 | 0.593808 | 7.258474 | 0.000112 | 0.002487 | 1.612573 | 0.486557 | 0.70106 | -0.2145 | 5 | 1.57E+08 | R | II | LSM11 | Body | opensea | Body-opens | | rs1156765 | 9;2 |
| cg0147833 | 0.20399 | 0.502321 | 7.257827 | 0.000112 | 0.002488 | 1.611935 | 0.400327 | 0.604316 | -0.20399 | 7 | 1.49E+08 | F | II | ZNF212 | TSS1500 | shore | TSS1500-sh | chr7:1489 | rs5747862 | 1;36 |
| cg2019713 | 0.229969 | 0.564931 | 7.257428 | 0.000112 | 0.002488 | 1.611542 | 0.449946 | 0.679915 | -0.22997 | 12 | 1.27E+08 | R | I | | IGR | opensea | IGR-opense | | rs5679570 | 26;22;18 |
| cg0647854 | 0.220759 | 0.401324 | 7.255746 | 0.000112 | 0.00249 | 1.609884 | 0.290944 | 0.511704 | -0.22076 | 9 | 16526801 | R | II | BNC2 | Body | opensea | Body-opens | | rs7654231 | 37 |
| cg0717899 | 0.205847 | 0.378641 | 7.255646 | 0.000112 | 0.00249 | 1.609785 | 0.275718 | 0.481565 | -0.20585 | 8 | 816998 | R | II | | IGR | opensea | IGR-opense | | rs5437049 | 27;2 |
| cg1574799 | 0.228676 | 0.469454 | 7.25504 | 0.000112 | 0.002491 | 1.609188 | 0.355116 | 0.583792 | -0.22868 | 12 | 16503552 | R | II | MGST1 | 5'UTR | opensea | 5'UTR-open | | rs5719260 | 47;43;39;30 |
| cg0663872 | 0.211748 | 0.635015 | 7.254835 | 0.000112 | 0.002491 | 1.608986 | 0.529141 | 0.74089 | -0.21175 | 1 | 1.86E+08 | F | II | MIR548F1 | TSS1500 | opensea | TSS1500-o | | rs1848891 | 1 |
| cg1344578 | 0.214887 | 0.489019 | 7.254375 | 0.000112 | 0.002492 | 1.608532 | 0.381576 | 0.596463 | -0.21489 | 3 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5467548 | 46;24;6;2;1 |
| cg2602274 | 0.222701 | 0.652706 | 7.253762 | 0.000112 | 0.002493 | 1.607928 | 0.541356 | 0.764057 | -0.2227 | 9 | 27482773 | R | II | MOB3B | 5'UTR | opensea | 5'UTR-open | | rs1868682 | 50;22;7 |
| cg1512351 | 0.224938 | 0.496581 | 7.253503 | 0.000112 | 0.002493 | 1.607672 | 0.384112 | 0.60905 | -0.22494 | 2 | 1.37E+08 | F | II | LCT | Body | opensea | Body-opens | | rs1873690 | 0;10 |
| cg0187972 | 0.220779 | 0.702837 | 7.253454 | 0.000112 | 0.002493 | 1.607624 | 0.592448 | 0.813226 | -0.22078 | 3 | 1.41E+08 | R | II | ZBTB38 | 5'UTR | shore | 5'UTR-shor | chr3:1411 | | |
| cg2351582 | 0.217557 | 0.585303 | 7.253116 | 0.000112 | 0.002493 | 1.607291 | 0.476524 | 0.694081 | -0.21756 | 14 | 31858190 | F | II | HEATR5A | Body | opensea | Body-opens | | rs6175428 | 0;13;19 |
| cg0751281 | 0.219701 | 0.493181 | 7.251845 | 0.000112 | 0.002495 | 1.606037 | 0.38333 | 0.603032 | -0.2197 | 19 | 11203661 | R | II | LDLR | Body | shore | Body-shore | chr19:112 | rs5511773 | 41;28;2;1 |
| cg0766499 | 0.232231 | 0.57666 | 7.250691 | 0.000113 | 0.002496 | 1.604899 | 0.460545 | 0.692776 | -0.23223 | 8 | 1.05E+08 | F | II | RIMS2 | 3'UTR | opensea | 3'UTR-open | | rs5431046 | 0;26;37 |
| cg0625482 | 0.212124 | 0.660076 | 7.250171 | 0.000113 | 0.002497 | 1.604387 | 0.554014 | 0.766138 | -0.21212 | 5 | 1.7E+08 | R | II | CTD-2270F | Body | opensea | Body-opens | | rs6028371 | 1 |
| cg0603525 | 0.207989 | 0.609422 | 7.249056 | 0.000113 | 0.002499 | 1.603286 | 0.505427 | 0.713416 | -0.20799 | 5 | 6496682 | F | II | UBE2QL1 | 3'UTR | opensea | 3'UTR-open | | rs5567634 | 0 |
| cg0838999 | 0.208034 | 0.611697 | 7.248227 | 0.000113 | 0.002499 | 1.602468 | 0.50768 | 0.715714 | -0.20803 | 3 | 1.32E+08 | F | II | CPNE4 | Body | opensea | Body-opens | | rs1931765 | 0;1;13;26 |
| cg1939767 | 0.218896 | 0.421826 | 7.244578 | 0.000113 | 0.002504 | 1.598868 | 0.312379 | 0.531274 | -0.2189 | 15 | 57079231 | F | II | | IGR | opensea | IGR-opense | | rs1499356 | 10;20;30 |
| cg1317742 | 0.219266 | 0.687442 | 7.243701 | 0.000113 | 0.002505 | 1.598002 | 0.577809 | 0.797075 | -0.21927 | 12 | 15773876 | R | II | EPS8 | 3'UTR | opensea | 3'UTR-open | | | |
| cg1803155 | 0.251305 | 0.437081 | 7.243158 | 0.000113 | 0.002506 | 1.597466 | 0.311428 | 0.562733 | -0.2513 | 11 | 1.21E+08 | R | II | GRIK4 | Body | opensea | Body-opens | | rs5408820 | 37;25 |
| cg2178908 | 0.220587 | 0.649879 | 7.242398 | 0.000113 | 0.002507 | 1.596715 | 0.539586 | 0.760173 | -0.22059 | 8 | 2024594 | R | II | MYOM2 | Body | opensea | Body-opens | | rs1906806 | 32;15 |
| cg2106615 | 0.210468 | 0.564068 | 7.241486 | 0.000114 | 0.002508 | 1.595815 | 0.458834 | 0.669302 | -0.21047 | 12 | 96003552 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1314145 | 0.202278 | 0.313057 | 7.241317 | 0.000114 | 0.002508 | 1.595648 | 0.211918 | 0.414196 | -0.20228 | 15 | 61349870 | R | II | RORA | Body | opensea | Body-opens | | rs5313581 | 9;1 |
| cg1051608 | 0.213096 | 0.642595 | 7.240813 | 0.000114 | 0.002509 | 1.59515 | 0.536047 | 0.749144 | -0.2131 | 12 | 88784937 | R | II | | IGR | opensea | IGR-opense | | rs1400700 | 2 |
| cg0351287 | 0.231288 | 0.596217 | 7.238978 | 0.000114 | 0.002512 | 1.593338 | 0.480572 | 0.711861 | -0.23129 | 3 | 1.2E+08 | R | II | GPR156 | Body | opensea | Body-opens | | rs5631941 | 25 |
| cg1899876 | 0.235835 | 0.46014 | 7.238793 | 0.000114 | 0.002512 | 1.593155 | 0.342223 | 0.578058 | -0.23584 | 7 | 75224305 | R | II | HIP1 | Body | opensea | Body-opens | | rs3742669 | 35;1 |
| cg0580365 | 0.205921 | 0.586214 | 7.238787 | 0.000114 | 0.002512 | 1.593149 | 0.483253 | 0.689174 | -0.20592 | 13 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs5383553 | 49;26;1 |
| cg0437631 | 0.217806 | 0.521061 | 7.238713 | 0.000114 | 0.002512 | 1.593076 | 0.412158 | 0.629964 | -0.21781 | 5 | 1.22E+08 | R | II | SNCAIP | 5'UTR | opensea | 5'UTR-open | | rs1122374 | 44;38;24 |
| cg1224472 | 0.211045 | 0.59716 | 7.238665 | 0.000114 | 0.002512 | 1.593029 | 0.491637 | 0.702682 | -0.21104 | 11 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs5462783 | 30;27;20 |
| cg1135558 | 0.230147 | 0.441764 | 7.238138 | 0.000114 | 0.002513 | 1.592508 | 0.326691 | 0.556838 | -0.23015 | 5 | 82213584 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1954499 | 0.224004 | 0.644205 | 7.237207 | 0.000114 | 0.002514 | 1.591588 | 0.532203 | 0.756207 | -0.224 | 10 | 92301529 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-o | | rs5617087 | 47 |
| cg0372548 | 0.241008 | 0.518622 | 7.235725 | 0.000114 | 0.002516 | 1.590124 | 0.398118 | 0.639127 | -0.24101 | 3 | 84002996 | R | II | | IGR | opensea | IGR-opense | | rs5340046 | 1 |
| cg0891923 | 0.210045 | 0.586948 | 7.235564 | 0.000114 | 0.002516 | 1.589965 | 0.481926 | 0.69197 | -0.21004 | 7 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs5655937 | 12 |
| cg1399755 | 0.20153 | 0.610492 | 7.234435 | 0.000114 | 0.002518 | 1.58885 | 0.509727 | 0.711257 | -0.20153 | 9 | 1.18E+08 | F | II | TNC | Body | opensea | Body-opens | | | |
| cg0379046 | 0.218116 | 0.403077 | 7.233112 | 0.000114 | 0.00252 | 1.587542 | 0.294019 | 0.512135 | -0.21812 | 13 | 50944978 | F | II | DLEU1 | Body | opensea | Body-opens | | rs1474691 | 30;33 |
| cg1307259 | 0.200493 | 0.621231 | 7.229289 | 0.000115 | 0.002525 | 1.583762 | 0.520985 | 0.721477 | -0.20049 | 5 | 1.54E+08 | F | II | | IGR | opensea | IGR-opense | | rs5669937 | 22;48 |
| cg2018671 | 0.204493 | 0.592793 | 7.22766 | 0.000115 | 0.002527 | 1.582151 | 0.490547 | 0.695039 | -0.20449 | 4 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs1130713 | 21;2 |
| cg0448359 | 0.213259 | 0.566398 | 7.227101 | 0.000115 | 0.002528 | 1.581598 | 0.459769 | 0.673027 | -0.21326 | 8 | 75065106 | R | II | | IGR | opensea | IGR-opense | | rs1507478 | 2 |
| cg0624673 | 0.209617 | 0.579482 | 7.225885 | 0.000115 | 0.00253 | 1.580396 | 0.474673 | 0.68429 | -0.20962 | 12 | 1.12E+08 | F | II | ATXN2 | Body | opensea | Body-opens | | rs5368314 | 1;41;51 |
| cg0456991 | 0.204022 | 0.692228 | 7.223044 | 0.000116 | 0.002534 | 1.577585 | 0.590217 | 0.794239 | -0.20402 | 15 | 58761952 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5425763 | 27 |
| cg2096001 | 0.213815 | 0.576706 | 7.222708 | 0.000116 | 0.002535 | 1.577252 | 0.469798 | 0.683613 | -0.21381 | 11 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | rs1922436 | 0;1;3;43;48;49 |
| cg1812492 | 0.211372 | 0.358793 | 7.221678 | 0.000116 | 0.002536 | 1.576233 | 0.253107 | 0.464479 | -0.21137 | 5 | 73294360 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1632854 | 0.203027 | 0.505658 | 7.221493 | 0.000116 | 0.002536 | 1.57605 | 0.404144 | 0.607172 | -0.20303 | 20 | 50041045 | F | II | NFATC2 | Body | opensea | Body-opens | | rs1854660 | 1;17;18 |
| cg1351937 | 0.201991 | 0.631137 | 7.220124 | 0.000116 | 0.002537 | 1.574695 | 0.530142 | 0.732133 | -0.20199 | 2 | 2.19E+08 | R | II | CXCR1 | 5'UTR | opensea | 5'UTR-open | | rs1421281 | 2;1 |
| cg0085943 | 0.210183 | 0.625582 | 7.219831 | 0.000116 | 0.002538 | 1.574405 | 0.520491 | 0.730674 | -0.21018 | 3 | 17081344 | F | II | PLCL2 | Body | opensea | Body-opens | | rs1847311 | 0;40 |
| cg1395651 | 0.242596 | 0.545614 | 7.21953 | 0.000116 | 0.002538 | 1.574107 | 0.424316 | 0.666912 | -0.2426 | 12 | 40511665 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0630228 | 0.210515 | 0.632155 | 7.219026 | 0.000116 | 0.002539 | 1.573608 | 0.526897 | 0.737413 | -0.21052 | 4 | 76945319 | F | II | CXCL10 | TSS1500 | opensea | TSS1500-o | | rs5535312 | 1;7 |
| cg1911890 | 0.228965 | 0.706408 | 7.213459 | 0.000117 | 0.002546 | 1.568095 | 0.591925 | 0.82089 | -0.22897 | 7 | 1.57E+08 | R | I | DNAJB6 | Body | opensea | Body-opens | | rs1861470 | 50;43;41;36;5 |
| cg2229592 | 0.214117 | 0.41942 | 7.212443 | 0.000117 | 0.002546 | 1.567088 | 0.312361 | 0.526478 | -0.21412 | 15 | 99153795 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2331815 | 0.200905 | 0.680481 | 7.21243 | 0.000117 | 0.002546 | 1.567076 | 0.580028 | 0.780933 | -0.2009 | 4 | 83438155 | F | II | TMEM150C | 5'UTR | opensea | 5'UTR-open | | | |
| cg0266204 | 0.216083 | 0.495745 | 7.211266 | 0.000117 | 0.002548 | 1.565923 | 0.387704 | 0.603787 | -0.21608 | 6 | 1.06E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1336400 | 0.250547 | 0.612102 | 7.210811 | 0.000117 | 0.002548 | 1.565471 | 0.486828 | 0.737375 | -0.25055 | 1 | 1.79E+08 | F | II | RALGPS2 | Body | opensea | Body-opens | | rs5690147 | 18;39 |
| cg2451209 | 0.212306 | 0.388083 | 7.210554 | 0.000117 | 0.002549 | 1.565217 | 0.28193 | 0.494237 | -0.21231 | 3 | 78698151 | R | II | ROBO1 | Body | opensea | Body-opens | | rs7912951 | 48;41 |
| cg0906943 | 0.277622 | 0.518492 | 7.208438 | 0.000117 | 0.002552 | 1.56312 | 0.379681 | 0.657303 | -0.27762 | 5 | 80584068 | F | II | CKMT2-AS1 | Body | opensea | Body-opens | | rs5318956 | 5;42 |
| cg1193862 | 0.26075 | 0.565232 | 7.208085 | 0.000117 | 0.002552 | 1.56277 | 0.434857 | 0.695607 | -0.26075 | 1 | 2.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5770717 | 36 |
| cg0584961 | 0.205004 | 0.629562 | 7.207716 | 0.000117 | 0.002553 | 1.562404 | 0.52706 | 0.732063 | -0.205 | 6 | 56382557 | R | II | RNU6-71P | Body | opensea | Body-opens | | rs5506604 | 30 |
| cg0092722 | 0.201188 | 0.611476 | 7.20734 | 0.000117 | 0.002553 | 1.562031 | 0.510882 | 0.712071 | -0.20119 | 7 | 1.16E+08 | R | II | TFEC | Body | opensea | Body-opens | | rs1849824 | 36;31;10 |
| cg2011085 | 0.23127 | 0.396888 | 7.206334 | 0.000117 | 0.002555 | 1.561034 | 0.281253 | 0.512523 | -0.23127 | 15 | 67423715 | R | II | SMAD3 | 5'UTR | opensea | 5'UTR-open | | rs5355313 | 2 |
| cg0401641 | 0.205775 | 0.397588 | 7.206116 | 0.000117 | 0.002555 | 1.560818 | 0.294701 | 0.500475 | -0.20577 | 5 | 17411632 | F | II | | IGR | opensea | IGR-opense | | rs3701921 | 0;10 |
| cg0589080 | 0.24514 | 0.36683 | 7.205536 | 0.000117 | 0.002556 | 1.560242 | 0.24426 | 0.4894 | -0.24514 | 2 | 20716912 | R | II | | IGR | opensea | IGR-opense | | rs5380727 | 21;6;4 |
| cg2160577 | 0.211313 | 0.584651 | 7.204981 | 0.000118 | 0.002556 | 1.559692 | 0.478994 | 0.690307 | -0.21131 | 5 | 1.61E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1083504 | 0.203715 | 0.578525 | 7.203042 | 0.000118 | 0.002559 | 1.557769 | 0.476668 | 0.680382 | -0.20371 | 10 | 1.16E+08 | F | II | VWA2 | Body | opensea | Body-opens | | rs1161086 | 0 |
| cg0966411 | 0.203071 | 0.708755 | 7.202471 | 0.000118 | 0.00256 | 1.557203 | 0.60722 | 0.810291 | -0.20307 | 12 | 89769621 | R | II | | IGR | opensea | IGR-opense | | rs1181342 | 44;2 |
| cg2375600 | 0.20025 | 0.455487 | 7.202085 | 0.000118 | 0.002561 | 1.55682 | 0.355363 | 0.555612 | -0.20025 | 11 | 1.11E+08 | F | II | BTG4 | Body | opensea | Body-opens | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2109415 | 0.291297 | 0.51617 | 7.2018 | 0.000118 | 0.002561 | 1.556537 | 0.370522 | 0.661819 | -0.2913 | 7 | 17345221 | F | II | AHR | Body | opensea | Body-open | | rs1154274 | 0;39;41 |
| cg0664692 | 0.207377 | 0.668694 | 7.201603 | 0.000118 | 0.002561 | 1.556342 | 0.565006 | 0.772383 | -0.20738 | 3 | 53742188 | F | II | CACNA1D | Body | opensea | Body-open | | rs5399274 | 0;28;33;38;40 |
| cg0039426 | 0.217028 | 0.593621 | 7.201389 | 0.000118 | 0.002561 | 1.556129 | 0.485108 | 0.702135 | -0.21703 | 5 | 42483732 | F | II | GHR | 5'UTR | opensea | 5'UTR-open | | rs1464442 | 12;16;17;45 |
| cg1057554 | 0.223124 | 0.675771 | 7.20046 | 0.000118 | 0.002563 | 1.555208 | 0.564209 | 0.787332 | -0.22312 | 6 | 42283846 | R | II | TRERF1 | 5'UTR | opensea | 5'UTR-open | | rs1480177 | 50;9 |
| cg2045896 | 0.203994 | 0.330976 | 7.200325 | 0.000118 | 0.002563 | 1.555075 | 0.228979 | 0.432973 | -0.20399 | 10 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2098326 | 0.200483 | 0.624926 | 7.200226 | 0.000118 | 0.002563 | 1.554976 | 0.524684 | 0.725168 | -0.20048 | 2 | 21647170 | R | II | | IGR | opensea | IGR-opense | | rs1410584 | 14;12;2 |
| cg0909184 | 0.205669 | 0.627517 | 7.199528 | 0.000118 | 0.002564 | 1.554283 | 0.524683 | 0.730352 | -0.20567 | 5 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | rs1873335 | 1;17;44 |
| cg2331487 | 0.201691 | 0.554594 | 7.198718 | 0.000118 | 0.002565 | 1.55348 | 0.453748 | 0.65544 | -0.20169 | 8 | 19755888 | R | II | | IGR | opensea | IGR-opense | | rs1826271 | 40 |
| cg2085989 | 0.212792 | 0.499315 | 7.198213 | 0.000118 | 0.002566 | 1.552979 | 0.392919 | 0.605711 | -0.21279 | 6 | 16437561 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5714671 | 39;37;22;18 |
| cg1229242 | 0.201878 | 0.711533 | 7.197494 | 0.000118 | 0.002567 | 1.552265 | 0.610594 | 0.812472 | -0.20188 | 2 | 1.03E+08 | F | II | SLC9A2 | Body | opensea | Body-open | | rs5678527 | 0;41 |
| cg1283384 | 0.214739 | 0.60044 | 7.196431 | 0.000118 | 0.002568 | 1.55121 | 0.493071 | 0.707809 | -0.21474 | 3 | 42410451 | R | II | | IGR | opensea | IGR-opense | | rs5587938 | 50;43;17 |
| cg1107648 | 0.20734 | 0.687449 | 7.196324 | 0.000118 | 0.002568 | 1.551104 | 0.583779 | 0.791119 | -0.20734 | 4 | 1.87E+08 | F | II | SORBS2 | 5'UTR | opensea | 5'UTR-open | | rs5360878 | 7 |
| cg0328158 | 0.204859 | 0.804995 | 7.196083 | 0.000118 | 0.002569 | 1.550864 | 0.702566 | 0.907425 | -0.20486 | 18 | 74642490 | F | II | ZNF236 | Body | opensea | Body-open | | | |
| cg2316949 | 0.212857 | 0.489545 | 7.195877 | 0.000119 | 0.002569 | 1.55066 | 0.383116 | 0.595974 | -0.21286 | 10 | 1.21E+08 | R | II | PRDX3 | TSS1500 | shore | TSS1500-sh | chr10:1209 | | |
| cg0822090 | 0.226894 | 0.621401 | 7.194168 | 0.000119 | 0.00257 | 1.548964 | 0.507954 | 0.734849 | -0.22689 | 6 | 1.35E+08 | F | II | HBS1L | Body | opensea | Body-open | | rs5543972 | 0 |
| cg0457079 | 0.212113 | 0.408245 | 7.19403 | 0.000119 | 0.00257 | 1.548827 | 0.302188 | 0.514301 | -0.21211 | 10 | 97236038 | F | II | SORBS1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg0731447 | 0.201291 | 0.620323 | 7.192792 | 0.000119 | 0.002571 | 1.547597 | 0.519678 | 0.720969 | -0.20129 | 5 | 1.63E+08 | F | II | | IGR | opensea | IGR-opense | | rs1909656 | 29;36 |
| cg2492646 | 0.208352 | 0.564865 | 7.191707 | 0.000119 | 0.002572 | 1.546519 | 0.460689 | 0.669041 | -0.20835 | 3 | 1.56E+08 | R | II | KCNAB1 | TSS1500 | shore | TSS1500-sh | chr3:1560( | rs5471883 | 2;1 |
| cg0599364 | 0.204157 | 0.686716 | 7.191664 | 0.000119 | 0.002572 | 1.546477 | 0.584637 | 0.788794 | -0.20416 | 3 | 86277500 | F | II | | IGR | opensea | IGR-opense | | rs1823451 | 0 |
| cg1736707 | 0.20992 | 0.615264 | 7.191519 | 0.000119 | 0.002572 | 1.546333 | 0.510304 | 0.720224 | -0.20992 | 5 | 1.6E+08 | R | II | PTTG1 | Body | shore | Body-shore | chr5:15984 | | |
| cg0132053 | 0.201339 | 0.58069 | 7.190869 | 0.000119 | 0.002573 | 1.545687 | 0.480021 | 0.68136 | -0.20134 | 1 | 1.83E+08 | R | II | LAMC1 | Body | opensea | Body-open | | | |
| cg2681702 | 0.228107 | 0.359418 | 7.189408 | 0.000119 | 0.002575 | 1.544236 | 0.245364 | 0.473472 | -0.22811 | 12 | 95083269 | F | II | | IGR | opensea | IGR-opense | | rs7966378 | 7;27;43 |
| cg2158469 | 0.21373 | 0.673549 | 7.189333 | 0.000119 | 0.002575 | 1.544162 | 0.566684 | 0.780414 | -0.21373 | 1 | 94801143 | R | II | | IGR | opensea | IGR-opense | | rs1864680 | 26 |
| cg2317325 | 0.218843 | 0.654404 | 7.189136 | 0.000119 | 0.002575 | 1.543966 | 0.544983 | 0.763826 | -0.21884 | 9 | 83650002 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1811015 | 0.205406 | 0.416364 | 7.187577 | 0.000119 | 0.002577 | 1.542417 | 0.31366 | 0.519067 | -0.20541 | 12 | 76052813 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0915339 | 0.202639 | 0.705707 | 7.183816 | 0.00012 | 0.002583 | 1.538679 | 0.604388 | 0.807027 | -0.20264 | 2 | 7150625 | R | II | RNF144A | Body | opensea | Body-open | | rs5288318 | 9;2 |
| cg0027537 | 0.210284 | 0.535975 | 7.181765 | 0.00012 | 0.002586 | 1.536641 | 0.430833 | 0.641117 | -0.21028 | 10 | 33249085 | F | II | | IGR | shore | IGR-shore | chr10:3324 | rs1187078 | 48 |
| cg1120186 | 0.218078 | 0.577987 | 7.181753 | 0.00012 | 0.002586 | 1.536629 | 0.468948 | 0.687026 | -0.21808 | 6 | 8652918 | R | II | HULC | Body | opensea | Body-open | | rs5482847 | 7;1 |
| cg0014347 | 0.216452 | 0.420681 | 7.181689 | 0.00012 | 0.002586 | 1.536565 | 0.312455 | 0.528908 | -0.21645 | 1 | 65726681 | R | II | | IGR | opensea | IGR-opense | | rs3752938 | 1 |
| cg1886792 | 0.202757 | 0.668587 | 7.181268 | 0.00012 | 0.002586 | 1.536146 | 0.567209 | 0.769966 | -0.20276 | 7 | 1.28E+08 | R | II | | IGR | opensea | IGR-opense | | rs5360112 | 2;1 |
| cg1075798 | 0.207869 | 0.562726 | 7.180669 | 0.00012 | 0.002587 | 1.535551 | 0.458791 | 0.66666 | -0.20787 | 8 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1450176 | 31 |
| cg1110236 | 0.232022 | 0.585757 | 7.180499 | 0.00012 | 0.002588 | 1.535382 | 0.469746 | 0.701768 | -0.23202 | 10 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs1859792 | 1 |
| cg1039122 | 0.231814 | 0.669459 | 7.179963 | 0.00012 | 0.002588 | 1.534848 | 0.553552 | 0.785366 | -0.23181 | 8 | 59222640 | R | II | | IGR | opensea | IGR-opense | | rs1010957 | 47;19 |
| cg0015579 | 0.26554 | 0.598148 | 7.177483 | 0.000121 | 0.002592 | 1.532382 | 0.465378 | 0.730918 | -0.26554 | 2 | 1.73E+08 | R | II | METAP1D | Body | opensea | Body-open | | rs9973784 | 29 |
| cg2036166 | 0.222301 | 0.597014 | 7.177027 | 0.000121 | 0.002593 | 1.531929 | 0.485864 | 0.708165 | -0.2223 | 12 | 1.19E+08 | F | II | TAOK3 | Body | opensea | Body-open | | rs5393535 | 7;13 |
| cg1351670 | 0.209165 | 0.5028 | 7.176904 | 0.000121 | 0.002593 | 1.531806 | 0.398218 | 0.607383 | -0.20916 | 11 | 5299308 | F | II | | IGR | opensea | IGR-opense | | rs1910619 | 0;1;9 |
| cg1460324 | 0.21803 | 0.638837 | 7.176847 | 0.000121 | 0.002593 | 1.53175 | 0.529822 | 0.747852 | -0.21803 | 21 | 25515527 | R | II | | IGR | opensea | IGR-opense | | rs5713670 | 30;2 |
| cg0722090 | 0.255828 | 0.5736 | 7.176155 | 0.000121 | 0.002594 | 1.531061 | 0.445686 | 0.701514 | -0.25583 | 3 | 46973284 | F | II | CCDC12 | Body | opensea | Body-open | | rs5392739 | 21;36 |
| cg1749443 | 0.228024 | 0.564824 | 7.175066 | 0.000121 | 0.002595 | 1.529978 | 0.450812 | 0.678836 | -0.22802 | 10 | 50600744 | R | II | DRGX | TSS1500 | shelf | TSS1500-sh | chr10:5066 | rs5638770 | 48;1 |
| cg1720706 | 0.268026 | 0.650893 | 7.174758 | 0.000121 | 0.002595 | 1.529671 | 0.51688 | 0.784907 | -0.26803 | 5 | 95624196 | F | II | LOC10192 | Body | opensea | Body-open | | rs5425205 | 0;51 |
| cg1483027 | 0.249484 | 0.457687 | 7.17468 | 0.000121 | 0.002595 | 1.529593 | 0.332945 | 0.58243 | -0.24948 | 4 | 1.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs1882333 | 30;41;45 |
| cg2615909 | 0.21432 | 0.62669 | 7.17463 | 0.000121 | 0.002595 | 1.529544 | 0.51953 | 0.73385 | -0.21432 | 10 | 60474252 | F | II | BICC1 | Body | opensea | Body-open | | | |
| cg2120462 | 0.206464 | 0.523139 | 7.172298 | 0.000121 | 0.002598 | 1.527223 | 0.419907 | 0.626371 | -0.20646 | 15 | 77281418 | R | II | | IGR | opensea | IGR-opense | | rs2458247 | 10;8;2;1 |
| cg1844236 | 0.247978 | 0.362316 | 7.172026 | 0.000121 | 0.002599 | 1.526952 | 0.238327 | 0.486305 | -0.24798 | 7 | 44677772 | F | II | OGDH | Body | opensea | Body-open | | rs3699458 | 0;1;7 |
| cg2094127 | 0.201835 | 0.555195 | 7.171607 | 0.000121 | 0.002599 | 1.526535 | 0.454277 | 0.656112 | -0.20183 | 14 | 35860273 | F | II | | IGR | opensea | IGR-opense | | rs5431765 | 1;19 |
| cg0737770 | 0.203443 | 0.659235 | 7.17146 | 0.000121 | 0.002599 | 1.526388 | 0.557513 | 0.760957 | -0.20344 | 3 | 1.5E+08 | R | II | LINC01214 | Body | opensea | Body-open | | rs1858262 | 1 |
| cg2248420 | 0.227754 | 0.55211 | 7.171191 | 0.000121 | 0.002599 | 1.526121 | 0.438233 | 0.665987 | -0.22775 | 5 | 64499810 | R | II | ADAMTS6 | Body | opensea | Body-open | | rs6864345 | 30;18 |
| cg0145984 | 0.256195 | 0.356772 | 7.171139 | 0.000121 | 0.002599 | 1.526069 | 0.228674 | 0.484869 | -0.2562 | 3 | 69255721 | R | II | FRMD4B | Body | opensea | Body-open | | rs5495465 | 51;26;17 |
| cg2360903 | 0.212678 | 0.566575 | 7.171138 | 0.000121 | 0.002599 | 1.526068 | 0.460236 | 0.672914 | -0.21268 | 3 | 77637864 | R | II | ROBO2 | Body | opensea | Body-open | | rs3773626 | 15 |
| cg1810058 | 0.234947 | 0.495289 | 7.170565 | 0.000121 | 0.0026 | 1.525497 | 0.377815 | 0.612762 | -0.23495 | 10 | 91924411 | F | II | | IGR | opensea | IGR-opense | | rs5544802 | 20;24;28;39 |
| cg0148653 | 0.208512 | 0.566698 | 7.169604 | 0.000121 | 0.002601 | 1.524541 | 0.462441 | 0.670954 | -0.20851 | 2 | 64501251 | R | II | | IGR | opensea | IGR-opense | | rs1904847 | 1 |
| cg0170833 | 0.2436 | 0.553707 | 7.169445 | 0.000121 | 0.002602 | 1.524382 | 0.431907 | 0.675507 | -0.2436 | 20 | 20484969 | R | II | RALGAPA2 | Body | opensea | Body-open | | rs5746230 | 48;36;1 |
| cg0209481 | 0.201695 | 0.560324 | 7.169323 | 0.000122 | 0.002602 | 1.524261 | 0.459477 | 0.661172 | -0.2017 | 12 | 99324621 | F | II | ANKS1B | Body | opensea | Body-open | | | |
| cg0775046 | 0.203405 | 0.551395 | 7.169001 | 0.000122 | 0.002602 | 1.52394 | 0.449693 | 0.653098 | -0.2034 | 1 | 2.24E+08 | F | II | CAPN8 | Body | opensea | Body-open | | rs5663578 | 4;38;44 |
| cg2570213 | 0.229151 | 0.63606 | 7.168895 | 0.000122 | 0.002602 | 1.523835 | 0.521485 | 0.750635 | -0.22915 | 3 | 1.9E+08 | F | II | P3H2 | Body | opensea | Body-open | | | |
| cg1482806 | 0.204001 | 0.580622 | 7.168091 | 0.000122 | 0.002604 | 1.523034 | 0.478621 | 0.682622 | -0.204 | 1 | 1.51E+08 | R | II | | IGR | shelf | IGR-shelf | chr1:1512( | | |
| cg1707392 | 0.272561 | 0.516549 | 7.167525 | 0.000122 | 0.002604 | 1.522471 | 0.380268 | 0.652829 | -0.27256 | 10 | 81106651 | F | II | PPIF | TSS1500 | shore | TSS1500-sh | chr10:811( | rs1693709 | 42 |
| cg0437664 | 0.20858 | 0.591131 | 7.167395 | 0.000122 | 0.002605 | 1.522341 | 0.486841 | 0.695421 | -0.20858 | 15 | 67040057 | F | II | SMAD6 | Body | opensea | Body-open | | | |
| cg1787068 | 0.238572 | 0.537893 | 7.167222 | 0.000122 | 0.002605 | 1.522169 | 0.418607 | 0.657179 | -0.23857 | 2 | 1.83E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:1827( | rs3703685 | 2 |
| cg0726054 | 0.200766 | 0.449529 | 7.164638 | 0.000122 | 0.002609 | 1.519596 | 0.349146 | 0.549912 | -0.20077 | 16 | 51117848 | R | II | | IGR | opensea | IGR-opense | | rs1382099 | 8;2 |
| cg0955034 | 0.22025 | 0.615789 | 7.162345 | 0.000122 | 0.002612 | 1.517311 | 0.505664 | 0.725914 | -0.22025 | 2 | 2.34E+08 | F | II | NGEF | Body | opensea | Body-open | | rs5715535 | 0;21;35 |
| cg1829796 | 0.20508 | 0.644821 | 7.161669 | 0.000122 | 0.002612 | 1.516637 | 0.542281 | 0.747362 | -0.20508 | 7 | 1142765 | F | II | C7orf50 | Body | island | Body-islanc | chr7:1142( | rs5638420 | 25;29 |
| cg1968302 | 0.225443 | 0.583556 | 7.161537 | 0.000122 | 0.002613 | 1.516506 | 0.470835 | 0.696278 | -0.22544 | 12 | 2775658 | F | II | CACNA1C | Body | opensea | Body-open | | rs1410953 | 1;40;43;50 |
| cg0356511 | 0.201204 | 0.567605 | 7.161355 | 0.000122 | 0.002613 | 1.516324 | 0.467003 | 0.668206 | -0.2012 | 14 | 70259365 | F | II | SLC10A1 | Body | opensea | Body-open | | rs1512254 | 31;41 |
| cg1111896 | 0.225834 | 0.598027 | 7.160979 | 0.000122 | 0.002613 | 1.515949 | 0.48511 | 0.710944 | -0.22583 | 3 | 1.72E+08 | R | II | | IGR | opensea | IGR-opense | | rs5563425 | 11;6 |
| cg2364204 | 0.214915 | 0.618647 | 7.160715 | 0.000122 | 0.002613 | 1.515687 | 0.51119 | 0.726105 | -0.21491 | 5 | 1.11E+08 | F | II | NREP-AS1 | Body | opensea | Body-open | | rs1425311 | 1 |
| cg1402610 | 0.210615 | 0.629229 | 7.158489 | 0.000123 | 0.002616 | 1.513467 | 0.523922 | 0.734537 | -0.21062 | 10 | 46010523 | R | II | MARCH8 | Body | opensea | Body-open | | rs3550430 | 20;1 |
| cg1695050 | 0.215392 | 0.694577 | 7.157647 | 0.000123 | 0.002617 | 1.512628 | 0.586881 | 0.802273 | -0.21539 | 2 | 1.83E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1187059 | 0.204586 | 0.631396 | 7.157473 | 0.000123 | 0.002618 | 1.512454 | 0.529104 | 0.733689 | -0.20459 | 3 | 27672480 | F | II | | IGR | shore | IGR-shore | chr3:2767( | | |
| cg2368264 | 0.254553 | 0.535676 | 7.156744 | 0.000123 | 0.002619 | 1.511728 | 0.408399 | 0.662952 | -0.25455 | 3 | 1.85E+08 | F | II | LIPH | Body | opensea | Body-open | | | |
| cg1889300 | 0.207691 | 0.62985 | 7.155759 | 0.000123 | 0.00262 | 1.510745 | 0.526005 | 0.733695 | -0.20769 | 7 | 1.08E+08 | F | II | NRCAM | 5'UTR | opensea | 5'UTR-open | | rs1895390 | 1;43 |
| cg0632062 | 0.21137 | 0.62125 | 7.155623 | 0.000123 | 0.00262 | 1.51061 | 0.515565 | 0.726935 | -0.21137 | 7 | 1.22E+08 | F | II | AASS | Body | opensea | Body-open | | rs5431485 | 0;48 |
| cg1692681 | 0.214051 | 0.699745 | 7.154683 | 0.000123 | 0.002621 | 1.509672 | 0.592719 | 0.80677 | -0.21405 | 5 | 82116323 | F | II | | IGR | opensea | IGR-opense | | rs5748710 | 0;1;15;30;40 |
| cg0671206 | 0.207844 | 0.635335 | 7.153267 | 0.000123 | 0.002623 | 1.508259 | 0.531413 | 0.739257 | -0.20784 | 18 | 53859364 | F | II | | IGR | opensea | IGR-opense | | rs5573287 | 27 |
| cg2573795 | 0.208942 | 0.649112 | 7.15298 | 0.000123 | 0.002623 | 1.507973 | 0.544641 | 0.753584 | -0.20894 | 13 | 60804253 | F | II | LINC00434 | Body | opensea | Body-open | | rs1178131 | 0;16;23 |
| cg0528179 | 0.206178 | 0.629989 | 7.152124 | 0.000123 | 0.002624 | 1.507119 | 0.526899 | 0.733078 | -0.20618 | 6 | 8398901 | R | II | | IGR | opensea | IGR-opense | | rs1139627 | 39;23;21;2 |
| cg0633262 | 0.235633 | 0.671359 | 7.151561 | 0.000124 | 0.002625 | 1.506558 | 0.553543 | 0.789176 | -0.23563 | 4 | 40518663 | F | II | RBM47 | TSS1500 | opensea | TSS1500-op | | rs1129080 | 6;44 |
| cg1496906 | 0.205868 | 0.584881 | 7.15146 | 0.000124 | 0.002625 | 1.506457 | 0.481947 | 0.687816 | -0.20587 | 8 | 9217385 | F | II | | IGR | opensea | IGR-opense | | rs5560487 | 0;5;46 |
| cg0223465 | 0.218981 | 0.678085 | 7.150735 | 0.000124 | 0.002626 | 1.505734 | 0.568594 | 0.787575 | -0.21898 | 2 | 2.25E+08 | R | II | AP1S3 | Body | opensea | Body-open | | rs5648638 | 41;1 |
| cg0116319 | 0.212214 | 0.623561 | 7.150725 | 0.000124 | 0.002626 | 1.505723 | 0.517454 | 0.729668 | -0.21221 | 3 | 1.69E+08 | F | II | MECOM | 5'UTR | opensea | 5'UTR-open | | rs1808422 | 0;9;37 |
| cg0865824 | 0.208439 | 0.527297 | 7.150129 | 0.000124 | 0.002627 | 1.505129 | 0.423078 | 0.631517 | -0.20844 | 5 | 1.44E+08 | R | I | | IGR | opensea | IGR-opense | | rs1738516 | 39;32;24;19 |
| cg0285497 | 0.203024 | 0.519796 | 7.149339 | 0.000124 | 0.002628 | 1.504341 | 0.418284 | 0.621308 | -0.20302 | 4 | 8327406 | F | II | | IGR | opensea | IGR-opense | | rs1473955 | 0;1;24;44;48 |
| cg0322238 | 0.287417 | 0.646598 | 7.148895 | 0.000124 | 0.002628 | 1.503897 | 0.502889 | 0.790306 | -0.28742 | 5 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | rs7731899 | 28 |
| cg2382188 | 0.200913 | 0.602064 | 7.147883 | 0.000124 | 0.00263 | 1.502887 | 0.501608 | 0.70252 | -0.20091 | 14 | 75736234 | F | II | | IGR | opensea | IGR-opense | | rs5554423 | 26 |
| cg2579246 | 0.209571 | 0.582467 | 7.147256 | 0.000124 | 0.002631 | 1.502262 | 0.477682 | 0.687253 | -0.20957 | 3 | 1.22E+08 | R | II | CD86 | 5'UTR | opensea | 5'UTR-open | | rs1904566 | 2 |
| cg0792043 | 0.259523 | 0.452068 | 7.147172 | 0.000124 | 0.002631 | 1.502177 | 0.322307 | 0.58183 | -0.25952 | 11 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | | rs5307623 | 1;26;47 |
| cg0644243 | 0.222309 | 0.374769 | 7.14656 | 0.000124 | 0.002632 | 1.501566 | 0.263614 | 0.485923 | -0.22231 | 2 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | | rs7690842 | 19 |
| cg2711779 | 0.226799 | 0.522457 | 7.14621 | 0.000124 | 0.002633 | 1.501217 | 0.409058 | 0.635857 | -0.2268 | 12 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs1878525 | 39;37;14;13;2;1 |
| cg1832815 | 0.205439 | 0.686265 | 7.145928 | 0.000124 | 0.002633 | 1.500936 | 0.583545 | 0.788984 | -0.20544 | 18 | 44479410 | F | II | PIAS2 | Body | opensea | Body-open | | rs1115623 | 0 |
| cg1415052 | 0.219136 | 0.658835 | 7.14589 | 0.000124 | 0.002633 | 1.500898 | 0.549267 | 0.768403 | -0.21914 | 4 | 1.46E+08 | F | II | HHIP | Body | opensea | Body-open | | rs1397598 | 0;1;32 |
| cg0469316 | 0.209471 | 0.61644 | 7.145019 | 0.000124 | 0.002634 | 1.500028 | 0.511705 | 0.721175 | -0.20947 | 1 | 49187460 | R | II | AGBL4 | Body | opensea | Body-open | | rs1159410 | 30;28;20;2;1 |
| cg2252277 | 0.214351 | 0.672625 | 7.144958 | 0.000124 | 0.002634 | 1.499968 | 0.56545 | 0.779801 | -0.21435 | 3 | 1.02E+08 | R | II | LOC15222 | Body | opensea | Body-open | | rs1389228 | 42;11;2;1 |
| cg2675653 | 0.201371 | 0.654342 | 7.144451 | 0.000124 | 0.002634 | 1.499461 | 0.553656 | 0.755027 | -0.20137 | 1 | 1.65E+08 | F | II | PBX1 | Body | opensea | Body-open | | | |
| cg0170493 | 0.203811 | 0.583527 | 7.144383 | 0.000124 | 0.002634 | 1.499393 | 0.481622 | 0.685433 | -0.20381 | 2 | 1.49E+08 | F | II | ACVR2A | Body | opensea | Body-open | | | |
| cg2637817 | 0.208155 | 0.523357 | 7.144325 | 0.000124 | 0.002634 | 1.499335 | 0.419279 | 0.627434 | -0.20815 | 14 | 87477349 | R | II | | IGR | opensea | IGR-opense | | rs5641015 | 16 |
| cg0244933 | 0.208356 | 0.530903 | 7.142971 | 0.000125 | 0.002636 | 1.497983 | 0.426725 | 0.635081 | -0.20836 | 7 | 1.44E+08 | R | II | OR2A2 | TSS1500 | opensea | TSS1500-op | | rs1818206 | 47;12;5 |
| cg0954498 | 0.205608 | 0.627624 | 7.142635 | 0.000125 | 0.002636 | 1.497648 | 0.52482 | 0.730428 | -0.20561 | 8 | 68279604 | F | II | | IGR | opensea | IGR-opense | | rs5291932 | 0;8;14;23;24;50 |
| cg0161178 | 0.206734 | 0.501523 | 7.141489 | 0.000125 | 0.002638 | 1.496503 | 0.398156 | 0.604889 | -0.20673 | 7 | 1.4E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0218463 | 0.273974 | 0.456776 | 7.140735 | 0.000125 | 0.002639 | 1.49575 | 0.319789 | 0.593763 | -0.27397 | 8 | 1.24E+08 | R | II | ZHX2 | 3'UTR | opensea | 3'UTR-open | | rs5282248 | 26;2 |
| cg1588001 | 0.211729 | 0.633052 | 7.140175 | 0.000125 | 0.00264 | 1.49519 | 0.527188 | 0.738917 | -0.21173 | 11 | 1.01E+08 | F | II | FLJ32810 | Body | opensea | Body-open | | rs1859359 | 1;22 |
| cg2478968 | 0.200644 | 0.653958 | 7.138725 | 0.000125 | 0.002642 | 1.493742 | 0.553636 | 0.75428 | -0.20064 | 4 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5388652 | 2 |
| cg0861754 | 0.208931 | 0.598736 | 7.137688 | 0.000125 | 0.002644 | 1.492705 | 0.49427 | 0.703202 | -0.20893 | 2 | 2.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs1906033 | 48 |
| cg0176369 | 0.207828 | 0.597392 | 7.137062 | 0.000125 | 0.002644 | 1.49208 | 0.493478 | 0.701306 | -0.20783 | 2 | 95666377 | R | II | | IGR | shelf | IGR-shelf | chr2:9566( | | |
| cg1390845 | 0.274524 | 0.573555 | 7.137058 | 0.000125 | 0.002644 | 1.492076 | 0.436293 | 0.710817 | -0.27452 | 13 | 73909590 | R | II | | IGR | opensea | IGR-opense | | rs5331352 | 49;46;45;2 |
| cg0859559 | 0.262602 | 0.477734 | 7.13698 | 0.000125 | 0.002644 | 1.491998 | 0.346433 | 0.609035 | -0.2626 | 7 | 16780162 | F | II | | IGR | opensea | IGR-opense | | rs1861773 | 0;45 |
| cg2622012 | 0.203508 | 0.60568 | 7.136789 | 0.000125 | 0.002645 | 1.491806 | 0.503926 | 0.707434 | -0.20351 | 7 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs3722063 | 39 |
| cg2185489 | 0.222823 | 0.696699 | 7.136282 | 0.000125 | 0.002645 | 1.491301 | 0.585287 | 0.80811 | -0.22282 | 11 | 66704070 | R | II | PC | 5'UTR | opensea | 5'UTR-open | | rs3740680 | 45 |
| cg1048030 | 0.203488 | 0.591122 | 7.1357 | 0.000125 | 0.002646 | 1.490719 | 0.489378 | 0.692866 | -0.20349 | 10 | 3822883 | F | II | KLF6 | Body | shore | Body-shore | chr10:3824 | rs1914549 | 0;32;35 |
| cg0364500 | 0.263652 | 0.510778 | 7.134812 | 0.000126 | 0.002647 | 1.48983 | 0.378952 | 0.642605 | -0.26365 | 7 | 1.02E+08 | F | II | FBXL13 | Body | opensea | Body-open | | rs5554587 | 35;46 |
| cg1476141 | 0.25694 | 0.576389 | 7.134702 | 0.000126 | 0.002648 | 1.489721 | 0.447919 | 0.70486 | -0.25694 | 7 | 1.31E+08 | F | II | FLJ43663 | Body | opensea | Body-open | | rs1423128 | 1 |
| cg0042685 | 0.216427 | 0.609185 | 7.132903 | 0.000126 | 0.00265 | 1.487923 | 0.500972 | 0.717399 | -0.21643 | 4 | 56496836 | R | II | NMU | Body | opensea | Body-open | | rs1850473 | 50;46;22;3 |
| cg2211764 | 0.211286 | 0.622817 | 7.132544 | 0.000126 | 0.002651 | 1.487564 | 0.517174 | 0.72846 | -0.21129 | 20 | 23011983 | F | II | | IGR | shelf | IGR-shelf | chr20:2307 | rs1814612 | 1;19 |
| cg1830161 | 0.206768 | 0.620163 | 7.131431 | 0.000126 | 0.002652 | 1.486451 | 0.516779 | 0.723547 | -0.20677 | 5 | 1.11E+08 | R | II | NREP-AS1 | Body | opensea | Body-open | | | |
| cg1968240 | 0.206549 | 0.56309 | 7.131379 | 0.000126 | 0.002652 | 1.486399 | 0.459816 | 0.666365 | -0.20655 | 1 | 54714460 | R | II | SSBP3 | Body | opensea | Body-open | | rs5754255 | 46;9 |
| cg2563417 | 0.213142 | 0.584453 | 7.129866 | 0.000126 | 0.002654 | 1.484885 | 0.477882 | 0.691025 | -0.21314 | 13 | 1.07E+08 | R | II | EFNB2 | Body | opensea | Body-open | | rs5293580 | 46;18;0 |
| cg2072890 | 0.229419 | 0.456912 | 7.129239 | 0.000126 | 0.002655 | 1.484258 | 0.342203 | 0.571622 | -0.22942 | 18 | 67553469 | F | II | CD226 | Body | opensea | Body-open | | rs5442374 | 37;41 |
| cg1057899 | 0.215647 | 0.555844 | 7.129029 | 0.000126 | 0.002655 | 1.484048 | 0.448021 | 0.663667 | -0.21565 | 19 | 29455873 | F | II | LOC14814 | TSS200 | opensea | TSS200-ope | | rs1843742 | 0;51 |
| cg1690692 | 0.206733 | 0.592863 | 7.128744 | 0.000126 | 0.002656 | 1.483763 | 0.489497 | 0.69623 | -0.20673 | 1 | 46770585 | R | II | UQCRH | 5'UTR | shore | 5'UTR-shor | chr1:4676( | rs1862596 | 32;1 |
| cg0713665 | 0.260591 | 0.557855 | 7.128531 | 0.000126 | 0.002656 | 1.48355 | 0.42756 | 0.688151 | -0.26059 | 15 | 39627235 | F | II | | IGR | opensea | IGR-opense | | rs1135652 | 0;1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0274569 | 0.260673 | 0.579355 | 7.128475 | 0.000126 | 0.002656 | 1.483494 | 0.449018 | 0.709691 | -0.26067 | 9 | 93822926 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2459197 | 0.202635 | 0.699952 | 7.126841 | 0.000126 | 0.002658 | 1.481859 | 0.598634 | 0.80127 | -0.20264 | 6 | 1.62E+08 | F | II | PARK2 | Body | opensea | Body-opens | | rs1458860 | 0;31 | | | |
| cg1541041 | 0.209007 | 0.707764 | 7.124359 | 0.000127 | 0.002663 | 1.479375 | 0.60326 | 0.812268 | -0.20901 | 5 | 59559180 | R | II | PDE4D | 5'UTR | opensea | 5'UTR-open | | rs1265888 | 37 | | | |
| cg0239506 | 0.214943 | 0.48868 | 7.124249 | 0.000127 | 0.002663 | 1.479265 | 0.381209 | 0.596152 | -0.21494 | 2 | 2.17E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:2173( | rs1909209 | 15;9 | | | |
| cg2259909 | 0.222808 | 0.608156 | 7.124223 | 0.000127 | 0.002663 | 1.479239 | 0.496752 | 0.71956 | -0.22281 | 7 | 1.16E+08 | R | II | LINC01510 | Body | opensea | Body-opens | | rs5319736 | 39;1 | | | |
| cg2629308 | 0.20734 | 0.481548 | 7.123856 | 0.000127 | 0.002663 | 1.478872 | 0.377878 | 0.585218 | -0.20734 | 7 | 47334558 | R | II | TNS3 | Body | opensea | Body-opens | | | | | | |
| cg2558884 | 0.209488 | 0.654887 | 7.122878 | 0.000127 | 0.002664 | 1.477893 | 0.550143 | 0.759631 | -0.20949 | 2 | 10037561 | F | II | TAF1B | Body | opensea | Body-opens | | | | | | |
| cg1019450 | 0.21327 | 0.661533 | 7.121236 | 0.000127 | 0.002667 | 1.476249 | 0.554899 | 0.768168 | -0.21327 | 1 | 1.59E+08 | R | II | PYHIN1 | Body | opensea | Body-opens | | rs7735124 | 48;37;36;1 | | | |
| cg2616514 | 0.221079 | 0.556368 | 7.120264 | 0.000127 | 0.002668 | 1.475276 | 0.445829 | 0.666907 | -0.22108 | 12 | 27484656 | F | II | ARNTL2 | TSS1500 | shore | TSS1500-sh | chr12:2748 | | | | | |
| cg2597821 | 0.217016 | 0.588677 | 7.118244 | 0.000127 | 0.002671 | 1.473253 | 0.480169 | 0.697185 | -0.21702 | 1 | 15738732 | R | II | EFHD2 | Body | shore | Body-shore | chr1:1573( | rs1864571 | 2 | | | |
| cg1417833 | 0.204467 | 0.489994 | 7.116981 | 0.000128 | 0.002673 | 1.471988 | 0.387761 | 0.592227 | -0.20447 | 10 | 34936083 | R | II | PARD3 | Body | opensea | Body-opens | | rs1494582 | 48 | | | |
| cg1857024 | 0.217637 | 0.529643 | 7.116852 | 0.000128 | 0.002673 | 1.471858 | 0.420824 | 0.638462 | -0.21764 | 2 | 2.43E+08 | R | II | D2HGDH | Body | opensea | Body-opens | | rs7970617 | 28 | | | |
| cg0998467 | 0.200573 | 0.584242 | 7.115599 | 0.000128 | 0.002674 | 1.470603 | 0.483956 | 0.684529 | -0.20057 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1827058 | 0;1;5 | | | |
| cg0067091 | 0.21014 | 0.665357 | 7.115487 | 0.000128 | 0.002674 | 1.470491 | 0.560287 | 0.770427 | -0.21014 | 2 | 1.02E+08 | R | II | RPL31 | Body | shore | Body-shore | chr2:1016( | | | | | |
| cg0815381 | 0.230842 | 0.403067 | 7.115063 | 0.000128 | 0.002675 | 1.470066 | 0.287646 | 0.518488 | -0.23084 | 20 | 50021369 | F | II | NFATC2 | Body | opensea | Body-opens | | rs1932450 | 8;10;13;28;36 | | | |
| cg1359178 | 0.213595 | 0.474526 | 7.114836 | 0.000128 | 0.002675 | 1.469838 | 0.367729 | 0.581324 | -0.21359 | 9 | 75768868 | F | II | ANXA1 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0074747 | 0.206124 | 0.637942 | 7.114733 | 0.000128 | 0.002675 | 1.469736 | 0.53488 | 0.741004 | -0.20612 | 17 | 31340147 | R | II | ACCN1 | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg0322107 | 0.247631 | 0.681221 | 7.114615 | 0.000128 | 0.002675 | 1.469618 | 0.557406 | 0.805037 | -0.24763 | 1 | 1.86E+08 | R | II | HMCN1 | Body | opensea | Body-opens | | rs3727042 | 2;1 | | | |
| cg1669324 | 0.203859 | 0.452554 | 7.114327 | 0.000128 | 0.002675 | 1.469329 | 0.350624 | 0.554483 | -0.20386 | 11 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1889708 | 0 | | | |
| cg0218546 | 0.205351 | 0.667459 | 7.112355 | 0.000128 | 0.002678 | 1.467353 | 0.564784 | 0.770135 | -0.20535 | 16 | 84867338 | R | I | CRISPLD2 | 5'UTR | opensea | 5'UTR-open | | rs5488049 | 30;18;2;1 | | | |
| cg2277352 | 0.201454 | 0.65805 | 7.109266 | 0.000129 | 0.002682 | 1.464256 | 0.557323 | 0.758777 | -0.20145 | 13 | 1.06E+08 | R | II | DAOA | TSS1500 | opensea | TSS1500-op | | rs5497871 | 5;2 | | | |
| cg1542579 | 0.231578 | 0.488433 | 7.105594 | 0.000129 | 0.002687 | 1.460574 | 0.372644 | 0.604222 | -0.23158 | 21 | 43820702 | R | II | | IGR | opensea | IGR-opense | | rs5284330 | 49;32;1 | | | |
| cg1405499 | 0.210813 | 0.478685 | 7.104145 | 0.000129 | 0.002689 | 1.45912 | 0.373279 | 0.584092 | -0.21081 | 21 | 31874502 | R | II | KRTAP19-5 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg0924355 | 0.222088 | 0.574049 | 7.103655 | 0.000129 | 0.002689 | 1.458629 | 0.463005 | 0.685093 | -0.22209 | 4 | 1.49E+08 | F | II | | IGR | opensea | IGR-opense | | rs3755471 | 0;31 | | | |
| cg0286498 | 0.208194 | 0.608127 | 7.103288 | 0.000129 | 0.00269 | 1.458261 | 0.50403 | 0.712224 | -0.20819 | 13 | 30030226 | F | II | MTUS2 | Body | opensea | Body-opens | | rs5585496 | 0;11;20 | | | |
| cg0080369 | 0.248286 | 0.422691 | 7.10273 | 0.000129 | 0.002691 | 1.457701 | 0.298548 | 0.546834 | -0.24829 | 3 | 46411474 | R | II | CCR5 | TSS200 | opensea | TSS200-ope | | rs5509919 | 44 | | | |
| cg2166208 | 0.241938 | 0.538596 | 7.101507 | 0.00013 | 0.002692 | 1.456473 | 0.417627 | 0.659565 | -0.24194 | 10 | 228801 | R | II | ZMYND11 | Body | opensea | Body-opens | | rs5660542 | 19 | | | |
| cg0732174 | 0.227322 | 0.646431 | 7.10121 | 0.00013 | 0.002693 | 1.456176 | 0.53277 | 0.760092 | -0.22732 | 20 | 8696066 | R | II | PLCB1 | Body | opensea | Body-opens | | rs5687179 | 1 | | | |
| cg0869017 | 0.213501 | 0.375742 | 7.101122 | 0.00013 | 0.002693 | 1.456087 | 0.268992 | 0.482493 | -0.2135 | 6 | 1.24E+08 | R | II | TRDN | TSS1500 | opensea | TSS1500-op | | rs1824459 | 41;38;30;27 | | | |
| cg2603842 | 0.216766 | 0.622449 | 7.100306 | 0.00013 | 0.002694 | 1.455268 | 0.514066 | 0.730832 | -0.21677 | 17 | 29972407 | R | II | | IGR | opensea | IGR-opense | | rs5777905 | 46;27 | | | |
| cg1633655 | 0.240182 | 0.584901 | 7.100297 | 0.00013 | 0.002694 | 1.455259 | 0.46481 | 0.704992 | -0.24018 | 2 | 33295138 | R | II | LTBP1 | Body | opensea | Body-opens | | rs5437020 | 11;1 | | | |
| cg2396822 | 0.215549 | 0.680703 | 7.099716 | 0.00013 | 0.002694 | 1.454676 | 0.572928 | 0.788477 | -0.21555 | 4 | 89064932 | R | II | ABCG2 | 5'UTR | opensea | 5'UTR-open | | rs1125979 | 1 | | | |
| cg0162649 | 0.204316 | 0.595249 | 7.099325 | 0.00013 | 0.002695 | 1.454283 | 0.493091 | 0.697407 | -0.20432 | 15 | 93115885 | F | II | LOC10014 | TSS1500 | opensea | TSS1500-op | | rs5450629 | 15;30 | | | |
| cg0446650 | 0.213623 | 0.536413 | 7.097975 | 0.00013 | 0.002697 | 1.452928 | 0.429602 | 0.643225 | -0.21362 | 20 | 11862393 | R | II | | IGR | opensea | IGR-opense | | rs3486196 | 35;3 | | | |
| cg1239314 | 0.2157 | 0.617209 | 7.09479 | 0.00013 | 0.002701 | 1.44973 | 0.509359 | 0.725059 | -0.2157 | 6 | 23952794 | F | II | | IGR | opensea | IGR-opense | | rs1168722 | 41 | | | |
| cg0161885 | 0.202628 | 0.503169 | 7.094647 | 0.00013 | 0.002701 | 1.449587 | 0.401855 | 0.604484 | -0.20263 | 19 | 7812265 | R | II | CD209 | Body | opensea | Body-opens | | rs1425731 | 45;32 | | | |
| cg1047145 | 0.212582 | 0.526805 | 7.09452 | 0.00013 | 0.002701 | 1.449459 | 0.420514 | 0.633096 | -0.21258 | 5 | 79333328 | R | II | THBS4 | 5'UTR | shore | 5'UTR-shor | chr5:7933( | rs5397722 | 2 | | | |
| cg2651924 | 0.212735 | 0.441078 | 7.094376 | 0.00013 | 0.002701 | 1.449314 | 0.334711 | 0.547445 | -0.21273 | 8 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs5577656 | 50;37;22;5;1 | | | |
| cg1148106 | 0.203387 | 0.652968 | 7.093882 | 0.00013 | 0.002702 | 1.448818 | 0.551274 | 0.754661 | -0.20339 | 20 | 6036814 | R | II | | IGR | shelf | IGR-shelf | chr20:603( | rs5303682 | 16 | | | |
| cg1379684 | 0.238489 | 0.56232 | 7.09314 | 0.000131 | 0.002703 | 1.448073 | 0.443076 | 0.681564 | -0.23849 | 15 | 76303634 | F | II | NRG4 | 5'UTR | opensea | 5'UTR-open | | rs5412571 | 31 | | | |
| cg1873822 | 0.228173 | 0.616292 | 7.090551 | 0.000131 | 0.002706 | 1.445472 | 0.502205 | 0.730379 | -0.22817 | 4 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs5440234 | 1;7;8;38;40 | | | |
| cg0722545 | 0.220976 | 0.528916 | 7.088844 | 0.000131 | 0.002709 | 1.443757 | 0.418427 | 0.639404 | -0.22098 | 21 | 39592213 | F | II | | IGR | opensea | IGR-opense | | rs3691658 | 1;39 | | | |
| cg0242088 | 0.22368 | 0.65045 | 7.088795 | 0.000131 | 0.002709 | 1.443707 | 0.53861 | 0.76229 | -0.22368 | 1 | 64268019 | F | II | ROR1 | Body | opensea | Body-opens | | rs5430948 | 43 | | | |
| cg2718486 | 0.209112 | 0.609249 | 7.088219 | 0.000131 | 0.002709 | 1.443128 | 0.504694 | 0.713805 | -0.20911 | 15 | 33525681 | F | II | | IGR | opensea | IGR-opense | | rs1441737 | 1;3;12;17;31 | | | |
| cg2527338 | 0.236284 | 0.582307 | 7.086845 | 0.000131 | 0.002712 | 1.441747 | 0.464164 | 0.700449 | -0.23628 | 1 | 1.08E+08 | F | II | VAV3 | Body | opensea | Body-opens | | rs5408435 | 28 | | | |
| cg1327970 | 0.243404 | 0.541944 | 7.086708 | 0.000131 | 0.002712 | 1.44161 | 0.420242 | 0.663646 | -0.2434 | 6 | 32313583 | F | II | C6orf10 | Body | opensea | Body-opens | | | | | | |
| cg2305344 | 0.248684 | 0.507105 | 7.08531 | 0.000132 | 0.002714 | 1.440204 | 0.382763 | 0.631447 | -0.24868 | 14 | 78471899 | R | II | | IGR | opensea | IGR-opense | | rs1462769 | 40;28;27 | | | |
| cg2379231 | 0.209473 | 0.597692 | 7.084799 | 0.000132 | 0.002715 | 1.439691 | 0.492955 | 0.702428 | -0.20947 | 13 | 37010850 | R | II | CCNA1 | Body | opensea | Body-opens | | rs1911842 | 2 | | | |
| cg0929147 | 0.211686 | 0.573694 | 7.083988 | 0.000132 | 0.002717 | 1.438875 | 0.467851 | 0.679536 | -0.21169 | 13 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1469783 | 2 | | | |
| cg1289801 | 0.238754 | 0.427788 | 7.0821 | 0.000132 | 0.002719 | 1.436976 | 0.308411 | 0.547165 | -0.23875 | 17 | 74621049 | R | II | ST6GALNAC | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg2405339 | 0.21344 | 0.467669 | 7.079956 | 0.000132 | 0.002723 | 1.43482 | 0.360949 | 0.57439 | -0.21344 | 5 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs1862145 | 38;30;14;1 | | | |
| cg0183456 | 0.200165 | 0.652884 | 7.079759 | 0.000132 | 0.002723 | 1.434621 | 0.552802 | 0.752966 | -0.20016 | 12 | 1.1E+08 | F | II | FOXN4 | Body | opensea | Body-opens | | rs5336545 | 3 | | | |
| cg2759463 | 0.200877 | 0.655513 | 7.079756 | 0.000132 | 0.002723 | 1.434619 | 0.555075 | 0.755952 | -0.20088 | 2 | 1.83E+08 | F | II | PPP1R1C | Body | opensea | Body-opens | | rs7926889 | 6;17;36 | | | |
| cg0288118 | 0.207366 | 0.666302 | 7.074139 | 0.000133 | 0.002731 | 1.428966 | 0.562619 | 0.769985 | -0.20737 | 8 | 1.41E+08 | F | II | TRAPPC9 | Body | opensea | Body-opens | | rs5618993 | 19;28;50 | | | |
| cg0775728 | 0.201189 | 0.683582 | 7.073554 | 0.000133 | 0.002731 | 1.428377 | 0.582987 | 0.784176 | -0.20119 | 3 | 16076908 | R | II | | IGR | opensea | IGR-opense | | rs1406200 | 33;1 | | | |
| cg1126854 | 0.201049 | 0.696505 | 7.070901 | 0.000133 | 0.002735 | 1.425706 | 0.59598 | 0.797029 | -0.20105 | 4 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs1834864 | 0 | | | |
| cg1479960 | 0.200637 | 0.420984 | 7.070411 | 0.000133 | 0.002735 | 1.425212 | 0.320666 | 0.521302 | -0.20064 | 2 | 74396026 | F | II | MOB1A | Body | opensea | Body-opens | | rs9677593 | 45 | | | |
| cg1888467 | 0.209222 | 0.528567 | 7.070319 | 0.000133 | 0.002736 | 1.425119 | 0.423955 | 0.633178 | -0.20922 | 6 | 41885377 | F | II | MED20 | Body | shelf | Body-shelf | chr6:4188( | | | | | |
| cg0875689 | 0.211286 | 0.634911 | 7.069848 | 0.000133 | 0.002736 | 1.424645 | 0.529269 | 0.740554 | -0.21129 | 2 | 1.29E+08 | F | II | | IGR | shore | IGR-shore | chr2:1292( | | | | | |
| cg2223283 | 0.212536 | 0.435845 | 7.06976 | 0.000133 | 0.002736 | 1.424556 | 0.329577 | 0.542113 | -0.21254 | 4 | 1.29E+08 | R | II | | IGR | shelf | IGR-shelf | chr4:1285( | | | | | |
| cg0166327 | 0.248102 | 0.466803 | 7.069443 | 0.000134 | 0.002737 | 1.424237 | 0.342752 | 0.590853 | -0.2481 | 1 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs5517594 | 1 | | | |
| cg0385499 | 0.210364 | 0.59846 | 7.065875 | 0.000134 | 0.002742 | 1.420642 | 0.493279 | 0.703642 | -0.21036 | 7 | 38784604 | R | II | VPS41 | Body | opensea | Body-opens | | | | | | |
| cg1816074 | 0.225089 | 0.653572 | 7.064734 | 0.000134 | 0.002744 | 1.419493 | 0.541028 | 0.766116 | -0.22509 | 3 | 1.51E+08 | F | II | MED12L | Body | opensea | Body-opens | | rs3718257 | 1;20;23;49 | | | |
| cg2383338 | 0.213981 | 0.526028 | 7.064671 | 0.000134 | 0.002744 | 1.419429 | 0.419037 | 0.633019 | -0.21398 | 3 | 36739104 | F | II | | IGR | opensea | IGR-opense | | rs5494955 | 25 | | | |
| cg2210248 | 0.218716 | 0.401005 | 7.063986 | 0.000134 | 0.002745 | 1.418739 | 0.291647 | 0.510363 | -0.21872 | 12 | 1.17E+08 | F | I | | IGR | opensea | IGR-opense | | rs1387902 | 0;13;34;50 | | | |
| cg2030608 | 0.224124 | 0.637387 | 7.063918 | 0.000134 | 0.002745 | 1.418671 | 0.525325 | 0.749449 | -0.22412 | 4 | 5044013 | F | II | | IGR | opensea | IGR-opense | | rs3701141 | 0;19 | | | |
| cg2270889 | 0.253565 | 0.46604 | 7.063227 | 0.000134 | 0.002746 | 1.417974 | 0.339258 | 0.592823 | -0.25356 | 15 | 39577128 | R | II | | IGR | opensea | IGR-opense | | rs1761400 | 30;28 | | | |
| cg0855843 | 0.203478 | 0.646415 | 7.063133 | 0.000134 | 0.002746 | 1.417879 | 0.544676 | 0.748153 | -0.20348 | 10 | 79794996 | F | II | RPS24 | Body | shore | Body-shore | chr10:7975 | rs1462662 | 1;6;24;35;39 | | | |
| cg1128392 | 0.215256 | 0.64886 | 7.062811 | 0.000134 | 0.002747 | 1.417555 | 0.541232 | 0.756488 | -0.21526 | 18 | 48499845 | R | II | ELAC1 | 5'UTR | opensea | 5'UTR-open | | rs5377219 | 39;1 | | | |
| cg1048701 | 0.216045 | 0.486609 | 7.062463 | 0.000134 | 0.002747 | 1.417204 | 0.378587 | 0.594631 | -0.21604 | 2 | 30112851 | R | II | ALK | Body | opensea | Body-opens | | rs5441924 | 43;20 | | | |
| cg2480466 | 0.211887 | 0.55846 | 7.061278 | 0.000135 | 0.002749 | 1.41601 | 0.452517 | 0.664403 | -0.21189 | 10 | 96701584 | R | II | CYP2C9 | Body | opensea | Body-opens | | rs5593879 | 42;39;11 | | | |
| cg0667574 | 0.201491 | 0.550347 | 7.058987 | 0.000135 | 0.002753 | 1.4137 | 0.449601 | 0.651092 | -0.20149 | 3 | 1.69E+08 | F | II | MECOM | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0939686 | 0.222316 | 0.641277 | 7.056263 | 0.000135 | 0.002757 | 1.410952 | 0.530119 | 0.752435 | -0.22232 | 2 | 2.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5396094 | 0 | | | |
| cg1623760 | 0.218539 | 0.517841 | 7.055145 | 0.000135 | 0.002758 | 1.409824 | 0.408571 | 0.62711 | -0.21854 | 12 | 1.04E+08 | R | II | C12orf42 | Body | opensea | Body-opens | | rs7911010 | 24;14 | | | |
| cg2206326 | 0.22306 | 0.567753 | 7.054734 | 0.000135 | 0.002759 | 1.40941 | 0.456224 | 0.679283 | -0.22306 | 2 | 44958986 | R | II | CAMKMT | Body | opensea | Body-opens | | rs1437746 | 14 | | | |
| cg1924951 | 0.238901 | 0.616202 | 7.052932 | 0.000136 | 0.002762 | 1.407591 | 0.496752 | 0.735652 | -0.2389 | 4 | 1.57E+08 | R | II | | IGR | opensea | IGR-opense | | rs5577001 | 3;2 | | | |
| cg0874676 | 0.21422 | 0.40306 | 7.05159 | 0.000136 | 0.002764 | 1.406237 | 0.29595 | 0.51017 | -0.21422 | 4 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0279349 | 0.23576 | 0.569479 | 7.049857 | 0.000136 | 0.002766 | 1.404487 | 0.451599 | 0.687359 | -0.23576 | 11 | 60249801 | R | II | | IGR | opensea | IGR-opense | | rs5328572 | 27;14;1 | | | |
| cg0909187 | 0.212756 | 0.657665 | 7.048383 | 0.000136 | 0.002768 | 1.402999 | 0.551287 | 0.764043 | -0.21276 | 17 | 18852894 | F | II | SLC5A10 | TSS1500 | opensea | TSS1500-op | | rs5413618 | 0;43 | | | |
| cg1741775 | 0.23461 | 0.622303 | 7.047809 | 0.000136 | 0.002769 | 1.402419 | 0.504998 | 0.739608 | -0.23461 | 6 | 1.3E+08 | F | II | ARHGAP18 | Body | opensea | Body-opens | | rs5368687 | 0;32 | | | |
| cg0923237 | 0.214213 | 0.628609 | 7.046514 | 0.000136 | 0.002771 | 1.401111 | 0.521502 | 0.735715 | -0.21421 | 10 | 89898420 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1274996 | 0.200861 | 0.607662 | 7.04465 | 0.000137 | 0.002773 | 1.399229 | 0.507231 | 0.708092 | -0.20086 | 10 | 30236124 | R | II | | IGR | opensea | IGR-opense | | rs2795596 | 40;34;1 | | | |
| cg2373248 | 0.226102 | 0.586117 | 7.04391 | 0.000137 | 0.002774 | 1.398481 | 0.473066 | 0.699168 | -0.2261 | 3 | 12930997 | R | II | | IGR | opensea | IGR-opense | | rs1145087 | 1 | | | |
| cg2452265 | 0.203897 | 0.466451 | 7.043057 | 0.000137 | 0.002774 | 1.39762 | 0.364503 | 0.5684 | -0.2039 | 12 | 19535154 | R | I | | IGR | opensea | IGR-opense | | rs5680387 | 39;37;31;2 | | | |
| cg0329148 | 0.202085 | 0.487164 | 7.043036 | 0.000137 | 0.002774 | 1.397598 | 0.386121 | 0.588207 | -0.20209 | 11 | 5879372 | F | II | OR52E8 | TSS1500 | opensea | TSS1500-op | | rs5592706 | 24 | | | |
| cg1151010 | 0.201523 | 0.661333 | 7.042561 | 0.000137 | 0.002775 | 1.397118 | 0.560571 | 0.762095 | -0.20152 | 1 | 2.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs1111999 | 43;23;1 | | | |
| cg0348805 | 0.223414 | 0.634939 | 7.04162 | 0.000137 | 0.002776 | 1.396168 | 0.523232 | 0.746646 | -0.22341 | 2 | 2.31E+08 | R | II | TRIP12 | 5'UTR | opensea | 5'UTR-open | | rs5307202 | 13;1 | | | |
| cg0243634 | 0.206238 | 0.719733 | 7.040346 | 0.000137 | 0.002778 | 1.39488 | 0.616615 | 0.822852 | -0.20624 | 2 | 86178667 | R | II | | IGR | opensea | IGR-opense | | rs5758381 | 51;29;17;9;2;1 | | | |
| cg0373718 | 0.207446 | 0.620799 | 7.040088 | 0.000137 | 0.002778 | 1.394619 | 0.517076 | 0.724522 | -0.20745 | 3 | 1.13E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5591216 | 50 | | | |
| cg2157251 | 0.203918 | 0.647067 | 7.039649 | 0.000137 | 0.002779 | 1.394176 | 0.545108 | 0.749026 | -0.20392 | 8 | 86263262 | R | II | CA1 | 5'UTR | opensea | 5'UTR-open | | rs1829487 | 47;1 | | | |
| cg2532449 | 0.206748 | 0.564162 | 7.039503 | 0.000137 | 0.002779 | 1.394029 | 0.460788 | 0.667536 | -0.20675 | 14 | 33149242 | F | II | AKAP6 | Body | opensea | Body-opens | | rs1865857 | 0;14;47 | | | |
| cg1533625 | 0.200155 | 0.625327 | 7.038969 | 0.000137 | 0.00278 | 1.393488 | 0.52525 | 0.725404 | -0.20015 | 4 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs7636642 | 35;40;50 | | | |
| cg0580389 | 0.231258 | 0.583455 | 7.038536 | 0.000137 | 0.002781 | 1.393051 | 0.467826 | 0.699084 | -0.23126 | 7 | 20582399 | F | II | | IGR | opensea | IGR-opense | | rs5313114 | 1;39;48 | | | |
| cg0128717 | 0.240825 | 0.590259 | 7.037677 | 0.000138 | 0.002782 | 1.392183 | 0.469846 | 0.710671 | -0.24083 | 2 | 36923444 | R | II | VIT | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg2463452 | 0.223875 | 0.493314 | 7.036905 | 0.000138 | 0.002783 | 1.391402 | 0.381376 | 0.605251 | -0.22387 | 20 | 7921905 | F | II | HAO1 | TSS1500 | opensea | TSS1500-op | | rs7597917 | 0;27;38;44;51 | | | |
| cg0444280 | 0.226447 | 0.587099 | 7.036515 | 0.000138 | 0.002783 | 1.391008 | 0.473876 | 0.700323 | -0.22645 | 3 | 39509081 | F | II | MOBP | 5'UTR | opensea | 5'UTR-open | | rs5284437 | 48 | | | |
| cg2581322 | 0.213507 | 0.555025 | 7.03639 | 0.000138 | 0.002783 | 1.390882 | 0.448272 | 0.661778 | -0.21351 | 5 | 1.03E+08 | F | II | | IGR | opensea | IGR-opense | | rs7511141 | 2 | | | |
| cg0105504 | 0.211454 | 0.5998 | 7.036363 | 0.000138 | 0.002783 | 1.390854 | 0.494073 | 0.705527 | -0.21145 | 2 | 2.2E+08 | F | II | CCDC108 | Body | opensea | Body-opens | | rs5399104 | 0;1;11 | | | |
| cg2414540 | 0.254467 | 0.525785 | 7.034065 | 0.000138 | 0.002788 | 1.38853 | 0.398551 | 0.653019 | -0.25447 | 1 | 1.59E+08 | R | II | AIM2 | TSS1500 | opensea | TSS1500-op | | rs5510582 | 24;17;8;1 | | | |
| cg1456978 | 0.201553 | 0.644758 | 7.03195 | 0.000138 | 0.002791 | 1.386391 | 0.543981 | 0.745534 | -0.20155 | 2 | 40662175 | R | II | SLC8A1 | 5'UTR | opensea | 5'UTR-open | | rs5700303 | 28;21;14;12;1 | | | |
| cg0400522 | 0.204913 | 0.626775 | 7.031372 | 0.000138 | 0.002792 | 1.385807 | 0.524318 | 0.729231 | -0.20491 | 15 | 94020227 | R | II | | IGR | opensea | IGR-opense | | rs5350391 | 34;20 | | | |
| cg2472196 | 0.225125 | 0.524113 | 7.030141 | 0.000139 | 0.002795 | 1.38456 | 0.411551 | 0.636676 | -0.22513 | 3 | 1.51E+08 | F | II | CLRN1 | TSS1500 | opensea | TSS1500-op | | rs1381854 | 1;51 | | | |
| cg0959416 | 0.211144 | 0.665136 | 7.028706 | 0.000139 | 0.002797 | 1.383108 | 0.559564 | 0.770707 | -0.21114 | 8 | 18918361 | F | II | | IGR | opensea | IGR-opense | | rs5441941 | 8;15;30 | | | |
| cg1662883 | 0.24876 | 0.53613 | 7.027719 | 0.000139 | 0.002798 | 1.38211 | 0.41175 | 0.66051 | -0.24876 | 14 | 65938016 | R | II | FUT8 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg1526161 | 0.206851 | 0.672706 | 7.027641 | 0.000139 | 0.002799 | 1.382031 | 0.56928 | 0.776132 | -0.20685 | 2 | 1.59E+08 | R | II | CCDC148-A | Body | opensea | Body-opens | | | | | | |
| cg1872139 | 0.214148 | 0.546789 | 7.026002 | 0.000139 | 0.002801 | 1.380372 | 0.439715 | 0.653863 | -0.21415 | 5 | 32584912 | R | II | SUB1 | TSS1500 | shore | TSS1500-sh | chr5:3258( | | | | | |
| cg0224242 | 0.203151 | 0.578666 | 7.025976 | 0.000139 | 0.002801 | 1.380345 | 0.477091 | 0.680242 | -0.20315 | 5 | 43282451 | R | II | | IGR | opensea | IGR-opense | | rs1401985 | 8;6;1 | | | |
| cg1786881 | 0.217397 | 0.664405 | 7.025316 | 0.000139 | 0.002802 | 1.379677 | 0.555706 | 0.773104 | -0.2174 | 16 | 81476731 | F | II | | IGR | shore | IGR-shore | chr16:814( | rs5502819 | 2 | | | |
| cg0551951 | 0.213771 | 0.650769 | 7.023314 | 0.00014 | 0.002805 | 1.37765 | 0.543883 | 0.757654 | -0.21377 | 2 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | | rs5325498 | 36 | | | |
| cg1539756 | 0.205865 | 0.398407 | 7.019852 | 0.00014 | 0.00281 | 1.374144 | 0.295475 | 0.50134 | -0.20586 | 11 | 5346556 | F | II | OR51B2 | TSS1500 | opensea | TSS1500-op | | rs5680092 | 10;12;15;34;48 | | | |
| cg0336282 | 0.203082 | 0.515911 | 7.019712 | 0.00014 | 0.00281 | 1.374002 | 0.41437 | 0.617452 | -0.20308 | 7 | 27034965 | R | II | | IGR | opensea | IGR-opense | | rs2253415 | 20;19;1 | | | |
| cg1359027 | 0.214583 | 0.603418 | 7.019282 | 0.00014 | 0.002811 | 1.373566 | 0.496126 | 0.710709 | -0.21458 | 5 | 1.5E+08 | F | II | SYNPO | TSS1500 | opensea | TSS1500-op | | rs5520848 | 1;7;11 | | | |
| cg1439252 | 0.217614 | 0.432711 | 7.018366 | 0.00014 | 0.002813 | 1.372638 | 0.323904 | 0.541518 | -0.21761 | 2 | 26969085 | R | II | | IGR | opensea | IGR-opense | | rs5394057 | 27 | | | |
| cg0131289 | 0.203661 | 0.531892 | 7.017727 | 0.00014 | 0.002814 | 1.371991 | 0.430062 | 0.633723 | -0.20366 | 5 | 1.26E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0008780 | 0.218425 | 0.639161 | 7.016278 | 0.00014 | 0.002816 | 1.370522 | 0.529949 | 0.748374 | -0.21842 | 22 | 37761817 | F | II | ELFN2 | Body | opensea | Body-opens | | rs1420276 | 1;5;27 | | | |
| cg1264291 | 0.211748 | 0.660999 | 7.016137 | 0.00014 | 0.002816 | 1.37038 | 0.555125 | 0.766873 | -0.21175 | 11 | 1.14E+08 | R | II | ZBTB16 | Body | opensea | Body-opens | | rs1163417 | 25 | | | |
| cg0630901 | 0.204473 | 0.727148 | 7.015687 | 0.000141 | 0.002816 | 1.369924 | 0.624911 | 0.829384 | -0.20447 | 5 | 1.1E+08 | F | II | TMEM232 | Body | opensea | Body-opens | | rs3773563 | 28;35 | | | |
| cg2345122 | 0.254989 | 0.537241 | 7.015081 | 0.000141 | 0.002817 | 1.36931 | 0.409747 | 0.664736 | -0.25499 | 8 | 1.3E+08 | R | II | LINC00824 | Body | opensea | Body-opens | | rs5311545 | 1 | | | |
| cg1294126 | 0.220474 | 0.632129 | 7.014557 | 0.000141 | 0.002818 | 1.368778 | 0.521892 | 0.742366 | -0.22047 | 8 | 96715667 | R | II | | IGR | opensea | IGR-opense | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1656556 | 0.204199 | 0.628227 | 7.014466 | 0.000141 | 0.002819 | 1.368686 | 0.526128 | 0.730327 | -0.2042 | 5 | 52786484 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1352916 | 0.203694 | 0.611361 | 7.014047 | 0.000141 | 0.002819 | 1.368261 | 0.509514 | 0.713208 | -0.20369 | 12 | 1.28E+08 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5405683 | 1 | | | | |
| cg2685595 | 0.209326 | 0.537575 | 7.013832 | 0.000141 | 0.002819 | 1.368043 | 0.432913 | 0.642238 | -0.20933 | 8 | 93020657 | F | II | RUNX1T1 | Body | opensea | Body-opens | | rs5326829 | 14 | | | | |
| cg1180494 | 0.213829 | 0.681928 | 7.012893 | 0.000141 | 0.002821 | 1.367091 | 0.575014 | 0.788843 | -0.21383 | 12 | 31660731 | F | II | DENND5B | Body | opensea | Body-opens | | | | | | | |
| cg1569834 | 0.226409 | 0.650478 | 7.011794 | 0.000141 | 0.002822 | 1.365977 | 0.537274 | 0.763683 | -0.22641 | 11 | 83231866 | R | II | DLG2 | Body | opensea | Body-opens | | rs5498493 | 13;7 | | | | |
| cg1353422 | 0.255444 | 0.452244 | 7.010588 | 0.000141 | 0.002824 | 1.364755 | 0.324522 | 0.579966 | -0.25544 | 3 | 19390956 | R | II | KCNH8 | Body | opensea | Body-opens | | rs1511989 | 14 | | | | |
| cg2727114 | 0.206173 | 0.712763 | 7.009531 | 0.000141 | 0.002825 | 1.363682 | 0.609676 | 0.81585 | -0.20617 | 5 | 1.8E+08 | R | II | CNOT6 | Body | opensea | Body-opens | | rs7336323 | 47;10;7 | | | | |
| cg0522738 | 0.216106 | 0.480341 | 7.009246 | 0.000141 | 0.002825 | 1.363394 | 0.372288 | 0.588394 | -0.21611 | 1 | 2.44E+08 | F | II | | IGR | opensea | IGR-opense | | rs5323126 | 18 | | | | |
| cg1299652 | 0.200468 | 0.6073 | 7.009085 | 0.000141 | 0.002826 | 1.36323 | 0.507066 | 0.707534 | -0.20047 | 17 | 45819275 | F | II | TBX21 | Body | opensea | Body-opens | | rs5326534 | 0;3;15;21;29;30 | | | | |
| cg1724226 | 0.208269 | 0.580291 | 7.007741 | 0.000142 | 0.002827 | 1.361866 | 0.476156 | 0.684426 | -0.20827 | 3 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs1165919 | 42 | | | | |
| cg1298175 | 0.203896 | 0.582836 | 7.006147 | 0.000142 | 0.002829 | 1.360249 | 0.480888 | 0.684784 | -0.2039 | 4 | 38719509 | R | II | | IGR | opensea | IGR-opense | | rs5279207 | 42;39;8;1 | | | | |
| cg1675416 | 0.206122 | 0.691654 | 7.005101 | 0.000142 | 0.002831 | 1.359188 | 0.588593 | 0.794715 | -0.20612 | 5 | 88142655 | F | II | MEF2C | 5'UTR | opensea | 5'UTR-open | | rs5477945 | 13 | | | | |
| cg1107263 | 0.260824 | 0.583254 | 7.00401 | 0.000142 | 0.002833 | 1.358081 | 0.452843 | 0.713666 | -0.26082 | 7 | 65773051 | R | II | TPST1 | Body | opensea | Body-opens | | rs7314662 | 33 | | | | |
| cg0570977 | 0.206701 | 0.605938 | 7.003558 | 0.000142 | 0.002833 | 1.357622 | 0.502588 | 0.709288 | -0.2067 | 3 | 59703569 | R | II | | IGR | opensea | IGR-opense | | rs5750697 | 6 | | | | |
| cg0105362 | 0.239729 | 0.53284 | 7.002929 | 0.000142 | 0.002834 | 1.356984 | 0.412975 | 0.652705 | -0.23973 | 16 | 80030667 | R | II | | IGR | opensea | IGR-opense | | rs5461293 | 49 | | | | |
| cg0807041 | 0.224002 | 0.514248 | 7.001403 | 0.000142 | 0.002837 | 1.355435 | 0.402247 | 0.626249 | -0.224 | 10 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs5378702 | 0 | | | | |
| cg2375539 | 0.207077 | 0.308249 | 7.000848 | 0.000143 | 0.002837 | 1.354871 | 0.204711 | 0.411788 | -0.20708 | 4 | 54443635 | R | II | LNX1 | 5'UTR | opensea | 5'UTR-open | | | | | | | |
| cg0698090 | 0.217936 | 0.621784 | 6.999228 | 0.000143 | 0.00284 | 1.353227 | 0.512816 | 0.730752 | -0.21794 | 5 | 1.43E+08 | R | II | ARHGAP26 | Body | opensea | Body-opens | | rs1112557 | 45;23;1 | | | | |
| cg0586949 | 0.210051 | 0.498581 | 6.998002 | 0.000143 | 0.002841 | 1.351981 | 0.393555 | 0.603606 | -0.21005 | 6 | 209763 | R | II | | IGR | opensea | IGR-opense | | rs5695611 | 44 | | | | |
| cg0914724 | 0.206836 | 0.646967 | 6.997729 | 0.000143 | 0.002842 | 1.351704 | 0.543549 | 0.750384 | -0.20684 | 11 | 10012058 | F | II | SBF2 | Body | opensea | Body-opens | | rs5627300 | 1 | | | | |
| cg1172772 | 0.224442 | 0.528212 | 6.997577 | 0.000143 | 0.002842 | 1.35155 | 0.415991 | 0.640433 | -0.22444 | 18 | 42742510 | R | II | | IGR | opensea | IGR-opense | | rs1465537 | 13;2;1 | | | | |
| cg1825242 | 0.219017 | 0.625258 | 6.997159 | 0.000143 | 0.002843 | 1.351125 | 0.51575 | 0.734767 | -0.21902 | 3 | 13862475 | F | II | WNT7A | Body | shore | Body-shore | chr3:13866 | rs5539726 | 0;20;43;49 | | | | |
| cg2638161 | 0.228438 | 0.562408 | 6.993704 | 0.000144 | 0.002848 | 1.347615 | 0.44819 | 0.676627 | -0.22844 | 4 | 1.48E+08 | F | II | | IGR | opensea | IGR-opense | | rs1927821 | 7;25 | | | | |
| cg2349032 | 0.232371 | 0.649151 | 6.993674 | 0.000144 | 0.002848 | 1.347584 | 0.532965 | 0.765336 | -0.23237 | 5 | 57014231 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0214939 | 0.212974 | 0.386972 | 6.993534 | 0.000144 | 0.002848 | 1.347442 | 0.280485 | 0.493459 | -0.21297 | 3 | 1.46E+08 | R | II | | IGR | opensea | IGR-opense | | rs1498158 | 42;1 | | | | |
| cg0267384 | 0.219393 | 0.454769 | 6.991861 | 0.000144 | 0.00285 | 1.345743 | 0.345072 | 0.564466 | -0.21939 | 12 | 11856257 | R | II | ETV6 | Body | opensea | Body-opens | | rs5666965 | 51;40;23;20 | | | | |
| cg1012365 | 0.209463 | 0.698826 | 6.991818 | 0.000144 | 0.00285 | 1.345698 | 0.594094 | 0.803557 | -0.20946 | 9 | 71992028 | F | II | FAM189A2 | Body | opensea | Body-opens | | rs5643565 | 0;1;3 | | | | |
| cg0474851 | 0.2005 | 0.573373 | 6.991185 | 0.000144 | 0.002851 | 1.345055 | 0.473123 | 0.673624 | -0.2005 | 11 | 62230794 | R | II | AHNAK | Body | opensea | Body-opens | | rs5371080 | 34;23;11 | | | | |
| cg2699609 | 0.208737 | 0.606683 | 6.989388 | 0.000144 | 0.002854 | 1.343229 | 0.502315 | 0.711052 | -0.20874 | 7 | 18548468 | R | II | HDAC9 | TSS1500 | opensea | TSS1500-op | | rs1743244 | 51;44;3;2 | | | | |
| cg2654431 | 0.22313 | 0.508988 | 6.98894 | 0.000144 | 0.002855 | 1.342773 | 0.397423 | 0.620553 | -0.22313 | 8 | 11267659 | R | II | FAM167A-A | Body | opensea | Body-opens | | rs5438848 | 34;18 | | | | |
| cg1781594 | 0.225539 | 0.480674 | 6.988438 | 0.000144 | 0.002855 | 1.342263 | 0.367905 | 0.593444 | -0.22554 | 11 | 33775208 | F | II | FBXO3 | Body | opensea | Body-opens | | rs5579853 | 4;14 | | | | |
| cg0696816 | 0.224084 | 0.330935 | 6.988125 | 0.000144 | 0.002856 | 1.341944 | 0.218893 | 0.442977 | -0.22408 | 13 | 45629698 | F | II | | IGR | opensea | IGR-opense | | rs3744131 | 0;36 | | | | |
| cg1041738 | 0.228383 | 0.643042 | 6.987834 | 0.000144 | 0.002856 | 1.341648 | 0.528851 | 0.757234 | -0.22838 | 17 | 8772067 | R | II | PIK3R6 | TSS1500 | opensea | TSS1500-op | | rs1430212 | 48;39;20 | | | | |
| cg2519356 | 0.205094 | 0.604566 | 6.986223 | 0.000145 | 0.002858 | 1.34001 | 0.502019 | 0.707113 | -0.20509 | 5 | 56732213 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2553407 | 0.211477 | 0.501496 | 6.984589 | 0.000145 | 0.00286 | 1.338349 | 0.395757 | 0.607234 | -0.21148 | 1 | 2.34E+08 | R | II | SLC35F3 | Body | opensea | Body-opens | | rs1400884 | 2;1 | | | | |
| cg2682273 | 0.210551 | 0.546604 | 6.984411 | 0.000145 | 0.002861 | 1.338167 | 0.441329 | 0.651879 | -0.21055 | 1 | 1.59E+08 | F | II | | IGR | opensea | IGR-opense | | rs7548814 | 34;43 | | | | |
| cg1118424 | 0.237968 | 0.482884 | 6.984005 | 0.000145 | 0.002861 | 1.337754 | 0.3639 | 0.601868 | -0.23797 | 6 | 53291636 | R | II | | IGR | opensea | IGR-opense | | rs1869043 | 48;46;38;7;6;2 | | | | |
| cg2450774 | 0.221032 | 0.477295 | 6.98311 | 0.000145 | 0.002863 | 1.336844 | 0.366779 | 0.587811 | -0.22103 | 19 | 47288244 | F | II | SLC1A5 | 5'UTR | shelf | 5'UTR-shelf | chr19:4725 | rs5597639 | 1 | | | | |
| cg0144886 | 0.236772 | 0.674656 | 6.98224 | 0.000145 | 0.002864 | 1.335959 | 0.556271 | 0.793042 | -0.23677 | 8 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs5356130 | 11 | | | | |
| cg0120320 | 0.206145 | 0.656131 | 6.982183 | 0.000145 | 0.002864 | 1.3359 | 0.553059 | 0.759204 | -0.20614 | 7 | 27502432 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0639940 | 0.214458 | 0.295592 | 6.981516 | 0.000145 | 0.002864 | 1.335222 | 0.188363 | 0.402821 | -0.21446 | 2 | 9893425 | F | II | | IGR | opensea | IGR-opense | | rs5668928 | 0;3;29 | | | | |
| cg0163280 | 0.204465 | 0.525997 | 6.979569 | 0.000145 | 0.002867 | 1.333241 | 0.423764 | 0.62823 | -0.20447 | 18 | 61573962 | R | II | | IGR | opensea | IGR-opense | | rs1810644 | 17;2;1 | | | | |
| cg0158226 | 0.211808 | 0.714164 | 6.978821 | 0.000146 | 0.002868 | 1.33248 | 0.60826 | 0.820068 | -0.21181 | 18 | 8601670 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2595512 | 0.21108 | 0.694231 | 6.978564 | 0.000146 | 0.002869 | 1.332218 | 0.588691 | 0.799771 | -0.21108 | 12 | 94121046 | R | II | CRADD | Body | opensea | Body-opens | | rs5700041 | 38;1 | | | | |
| cg1259015 | 0.200708 | 0.551588 | 6.977858 | 0.000146 | 0.00287 | 1.331498 | 0.451234 | 0.651942 | -0.20071 | 13 | 92712018 | F | II | GPC5 | Body | opensea | Body-opens | | | | | | | |
| cg1433859 | 0.221241 | 0.360066 | 6.977223 | 0.000146 | 0.002871 | 1.330853 | 0.249446 | 0.470687 | -0.22124 | 11 | 16848924 | F | II | PLEKHA7 | Body | opensea | Body-opens | | rs5370418 | 12;21 | | | | |
| cg2272088 | 0.225311 | 0.609408 | 6.977155 | 0.000146 | 0.002871 | 1.330783 | 0.496753 | 0.722064 | -0.22531 | 2 | 1.7E+08 | F | II | DHRS9 | 5'UTR | opensea | 5'UTR-open | | rs1400580 | 1;37 | | | | |
| cg0765522 | 0.212748 | 0.586822 | 6.975264 | 0.000146 | 0.002873 | 1.328858 | 0.480448 | 0.693196 | -0.21275 | 13 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5374718 | 32;40 | | | | |
| cg0898940 | 0.20565 | 0.593568 | 6.973306 | 0.000146 | 0.002877 | 1.326864 | 0.490743 | 0.696394 | -0.20565 | 2 | 55817983 | R | II | PPP4R3B | Body | opensea | Body-opens | | rs5517423 | 1 | | | | |
| cg1155650 | 0.207712 | 0.500576 | 6.971791 | 0.000147 | 0.002879 | 1.32532 | 0.39672 | 0.604432 | -0.20771 | 2 | 2.06E+08 | R | II | PARD3B | Body | opensea | Body-opens | | rs1494896 | 2 | | | | |
| cg0023081 | 0.221582 | 0.544629 | 6.970446 | 0.000147 | 0.002881 | 1.32395 | 0.433838 | 0.65542 | -0.22158 | 6 | 85304889 | F | II | | IGR | opensea | IGR-opense | | rs4530827 | 32 | | | | |
| cg1115473 | 0.202606 | 0.432981 | 6.969358 | 0.000147 | 0.002883 | 1.322841 | 0.331679 | 0.534284 | -0.20261 | 5 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5399079 | 12 | | | | |
| cg0093693 | 0.221918 | 0.472409 | 6.966766 | 0.000147 | 0.002887 | 1.3202 | 0.361449 | 0.583368 | -0.22192 | 10 | 52271899 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | | | | | | |
| cg0388036 | 0.263288 | 0.575757 | 6.96379 | 0.000148 | 0.002892 | 1.317166 | 0.444113 | 0.707401 | -0.26329 | 11 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs1119839 | 31 | | | | |
| cg0765953 | 0.234618 | 0.57558 | 6.961945 | 0.000148 | 0.002894 | 1.315285 | 0.458271 | 0.692889 | -0.23462 | 6 | 5061542 | F | II | LOC10012 | Body | opensea | Body-opens | | rs9405253 | 38 | | | | |
| cg1532106 | 0.214064 | 0.665817 | 6.960255 | 0.000148 | 0.002896 | 1.313561 | 0.558785 | 0.772849 | -0.21406 | 3 | 23216920 | R | II | | IGR | opensea | IGR-opense | | rs1451311 | 16;2;1 | | | | |
| cg2428590 | 0.254614 | 0.522352 | 6.959299 | 0.000148 | 0.002898 | 1.312586 | 0.395045 | 0.649659 | -0.25461 | 6 | 25187166 | F | II | | IGR | opensea | IGR-opense | | rs5453236 | 3;41 | | | | |
| cg2698636 | 0.200152 | 0.56758 | 6.957639 | 0.000149 | 0.0029 | 1.310892 | 0.467504 | 0.667656 | -0.20015 | 3 | 9191725 | F | II | SRGAP3 | Body | opensea | Body-opens | | rs7301933 | 38;42;43 | | | | |
| cg0302113 | 0.205355 | 0.399531 | 6.957594 | 0.000149 | 0.0029 | 1.310847 | 0.296854 | 0.502208 | -0.20535 | 4 | 59626875 | R | II | | IGR | opensea | IGR-opense | | rs2862632 | 15 | | | | |
| cg0940813 | 0.243081 | 0.627905 | 6.957186 | 0.000149 | 0.002901 | 1.31043 | 0.506365 | 0.749445 | -0.24308 | 3 | 1.85E+08 | F | II | IGF2BP2 | Body | opensea | Body-opens | | rs1147923 | 1;51 | | | | |
| cg2734056 | 0.202859 | 0.648405 | 6.957014 | 0.000149 | 0.002901 | 1.310255 | 0.546975 | 0.749834 | -0.20286 | 20 | 16452834 | R | II | KIF16B | Body | opensea | Body-opens | | rs1884030 | 16 | | | | |
| cg0038776 | 0.240752 | 0.53408 | 6.956672 | 0.000149 | 0.002901 | 1.309906 | 0.413704 | 0.654456 | -0.24075 | 5 | 1.49E+08 | F | II | PDE6A | Body | opensea | Body-opens | | rs5562369 | 0;1;49;50 | | | | |
| cg1578150 | 0.206466 | 0.610712 | 6.955592 | 0.000149 | 0.002903 | 1.308803 | 0.507479 | 0.713945 | -0.20647 | 11 | 4871411 | R | II | OR51S1 | TSS1500 | opensea | TSS1500-op | | rs5477105 | 48;46;2 | | | | |
| cg0030645 | 0.212147 | 0.577119 | 6.955029 | 0.000149 | 0.002904 | 1.308228 | 0.471046 | 0.683193 | -0.21215 | 5 | 57377289 | F | II | | IGR | opensea | IGR-opense | | rs5389791 | 7 | | | | |
| cg2021005 | 0.25514 | 0.490953 | 6.953124 | 0.000149 | 0.002908 | 1.306284 | 0.363383 | 0.618523 | -0.25514 | 12 | 41830066 | F | II | PDZRN4 | TSS1500 | opensea | TSS1500-op | | rs5610468 | 1;50 | | | | |
| cg0591647 | 0.204443 | 0.688835 | 6.952633 | 0.000149 | 0.002909 | 1.305783 | 0.586614 | 0.791057 | -0.20444 | 7 | 1.12E+08 | R | II | DOCK4 | Body | opensea | Body-opens | | | | | | | |
| cg1012939 | 0.238084 | 0.527706 | 6.952567 | 0.000149 | 0.002909 | 1.305716 | 0.408664 | 0.646748 | -0.23808 | 4 | 54582825 | R | II | | IGR | opensea | IGR-opense | | rs2856413 | 42;1 | | | | |
| cg0822627 | 0.223588 | 0.41362 | 6.951517 | 0.000149 | 0.002911 | 1.304643 | 0.301826 | 0.525414 | -0.22359 | 5 | 73918270 | F | II | | IGR | opensea | IGR-opense | | rs1501360 | 49 | | | | |
| cg0693792 | 0.212999 | 0.618856 | 6.95036 | 0.00015 | 0.002913 | 1.303462 | 0.512356 | 0.725356 | -0.213 | 8 | 17979647 | R | II | | IGR | opensea | IGR-opense | | rs2850716 | 31;1 | | | | |
| cg0050802 | 0.223169 | 0.550835 | 6.949835 | 0.00015 | 0.002914 | 1.302926 | 0.439251 | 0.66242 | -0.22317 | 14 | 74296957 | F | II | | IGR | opensea | IGR-opense | | rs5319441 | 0;10 | | | | |
| cg1804502 | 0.206508 | 0.501137 | 6.949418 | 0.00015 | 0.002914 | 1.3025 | 0.397883 | 0.604391 | -0.20651 | 12 | 15506172 | F | II | PTPRO | Body | opensea | Body-opens | | rs5280188 | 26;42;43 | | | | |
| cg1238283 | 0.206522 | 0.526131 | 6.94872 | 0.00015 | 0.002915 | 1.301787 | 0.42287 | 0.629391 | -0.20652 | 1 | 75428722 | F | II | | IGR | opensea | IGR-opense | | rs5648659 | 0 | | | | |
| cg0200728 | 0.246635 | 0.472802 | 6.946884 | 0.00015 | 0.002918 | 1.299911 | 0.349485 | 0.59612 | -0.24664 | 8 | 30513708 | F | II | GTF2E2 | 5'UTR | shore | 5'UTR-shor | chr8:30515 | rs5433201 | 17;32 | | | | |
| cg0756650 | 0.247706 | 0.653487 | 6.946397 | 0.00015 | 0.002918 | 1.299413 | 0.529634 | 0.777341 | -0.24771 | 5 | 1.71E+08 | R | II | | IGR | opensea | IGR-opense | | rs1463084 | 37;33;24;23;11;6;2 | | | | |
| cg1576191 | 0.215982 | 0.658005 | 6.946142 | 0.00015 | 0.002918 | 1.299154 | 0.550014 | 0.765996 | -0.21598 | 12 | 1.08E+08 | F | II | BTBD11 | Body | opensea | Body-opens | | rs1407006 | 1;38 | | | | |
| cg1332833 | 0.211707 | 0.674467 | 6.945761 | 0.00015 | 0.002919 | 1.298764 | 0.568614 | 0.780321 | -0.21171 | 10 | 8623531 | R | II | | IGR | opensea | IGR-opense | | rs5484847 | 1 | | | | |
| cg0934018 | 0.260698 | 0.561969 | 6.945198 | 0.00015 | 0.002919 | 1.298188 | 0.43162 | 0.692318 | -0.2607 | 5 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs7963111 | 24;7;3 | | | | |
| cg0803811 | 0.224607 | 0.592466 | 6.944654 | 0.00015 | 0.00292 | 1.297633 | 0.480163 | 0.70477 | -0.22461 | 18 | 47400743 | R | II | MYO5B | Body | opensea | Body-opens | | rs5417073 | 43;14 | | | | |
| cg0743211 | 0.207947 | 0.680494 | 6.944588 | 0.00015 | 0.00292 | 1.297566 | 0.576521 | 0.784467 | -0.20795 | 11 | 60523170 | F | II | MS4A15 | TSS1500 | opensea | TSS1500-op | | | | | | | |
| cg0451843 | 0.246992 | 0.546075 | 6.9427 | 0.000151 | 0.002923 | 1.295636 | 0.422579 | 0.669571 | -0.24699 | 7 | 55981411 | F | II | ZNF713 | Body | opensea | Body-opens | | rs5499886 | 27 | | | | |
| cg2392517 | 0.207582 | 0.624237 | 6.941791 | 0.000151 | 0.002925 | 1.294707 | 0.520446 | 0.728028 | -0.20758 | 12 | 1.14E+08 | F | II | RASAL1 | 3'UTR | opensea | 3'UTR-open | | rs5333924 | 1;3;37 | | | | |
| cg0554476 | 0.200997 | 0.60169 | 6.941306 | 0.000151 | 0.002926 | 1.29421 | 0.501192 | 0.702189 | -0.201 | 10 | 93916533 | F | II | CPEB3 | Body | opensea | Body-opens | | | | | | | |
| cg1834270 | 0.204312 | 0.598625 | 6.940933 | 0.000151 | 0.002926 | 1.29383 | 0.496469 | 0.700781 | -0.20431 | 12 | 65178416 | R | II | | IGR | shelf | IGR-shelf | chr12:651 | rs5366804 | 20;7 | | | | |
| cg2460409 | 0.202914 | 0.593261 | 6.939222 | 0.000151 | 0.00293 | 1.29208 | 0.491804 | 0.694718 | -0.20291 | 8 | 87674163 | F | II | CNGB3 | Body | opensea | Body-opens | | | | | | | |
| cg1589464 | 0.226414 | 0.413007 | 6.938468 | 0.000151 | 0.00293 | 1.291309 | 0.2998 | 0.526214 | -0.22641 | 11 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs7764142 | 46;33;10 | | | | |
| cg1264982 | 0.216011 | 0.596749 | 6.938107 | 0.000151 | 0.002931 | 1.290939 | 0.488744 | 0.704755 | -0.21601 | 4 | 44930030 | R | II | | IGR | opensea | IGR-opense | | rs5399881 | 35;2;1 | | | | |
| cg1445879 | 0.20494 | 0.565118 | 6.937896 | 0.000151 | 0.002931 | 1.290724 | 0.462648 | 0.667588 | -0.20494 | 9 | 93050148 | R | II | | IGR | opensea | IGR-opense | | rs1417186 | 41 | | | | |
| cg1237691 | 0.213906 | 0.638716 | 6.937213 | 0.000152 | 0.002932 | 1.290026 | 0.531763 | 0.745669 | -0.21391 | 5 | 1.6E+08 | F | II | CCNJL | Body | opensea | Body-opens | | | | | | | |
| cg2166511 | 0.247771 | 0.527619 | 6.935252 | 0.000152 | 0.002935 | 1.288019 | 0.403734 | 0.651504 | -0.24777 | 2 | 1.53E+08 | F | II | NEB | Body | opensea | Body-opens | | rs1882083 | 50 | | | | |
| cg1093061 | 0.203776 | 0.663078 | 6.934234 | 0.000152 | 0.002936 | 1.286978 | 0.561191 | 0.764966 | -0.20378 | 14 | 80050236 | F | II | NRXN3 | Body | opensea | Body-opens | | | | | | | |
| cg1116115 | 0.211232 | 0.665105 | 6.934142 | 0.000152 | 0.002936 | 1.286884 | 0.55949 | 0.770721 | -0.21123 | 5 | 98119892 | F | II | RGMB | Body | opensea | Body-opens | | rs5575075 | 49 | | | | |
| cg0022217 | 0.235142 | 0.500689 | 6.933505 | 0.000152 | 0.002937 | 1.286232 | 0.383118 | 0.61826 | -0.23514 | 7 | 55584235 | R | II | VOPP1 | Body | opensea | Body-opens | | rs1884362 | 26 | | | | |
| cg2066525 | 0.224776 | 0.501728 | 6.933031 | 0.000152 | 0.002938 | 1.285747 | 0.38934 | 0.614116 | -0.22478 | 7 | 1.51E+08 | F | II | KCNH2 | Body | shelf | Body-shelf | chr7:1506 | | | | | | |
| cg0936352 | 0.201156 | 0.723598 | 6.931506 | 0.000152 | 0.00294 | 1.284186 | 0.62302 | 0.824176 | -0.20116 | 3 | 50149307 | F | II | RBM5 | Body | opensea | Body-opens | | | | | | | |
| cg1769761 | 0.211407 | 0.621253 | 6.930902 | 0.000152 | 0.002941 | 1.283568 | 0.51555 | 0.726957 | -0.21141 | 15 | 57170022 | R | II | | IGR | opensea | IGR-opense | | rs1490381 | 32;12 | | | | |
| cg2138609 | 0.200217 | 0.769603 | 6.930599 | 0.000152 | 0.002941 | 1.283258 | 0.669495 | 0.869711 | -0.20022 | 4 | 37727699 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2215734 | 0.212388 | 0.64227 | 6.92967 | 0.000153 | 0.002942 | 1.282307 | 0.536076 | 0.748464 | -0.21239 | 2 | 1.63E+08 | F | II | KCNH7 | Body | opensea | Body-opens | | rs2046490 | 19 | | | | |
| cg2297742 | 0.237192 | 0.378688 | 6.929572 | 0.000153 | 0.002943 | 1.282206 | 0.260092 | 0.497284 | -0.23719 | 3 | 11279984 | R | II | HRH1 | 5'UTR | opensea | 5'UTR-open | | rs5400748 | 49;1 | | | | |
| cg1352357 | 0.208087 | 0.60694 | 6.929498 | 0.000153 | 0.002943 | 1.282131 | 0.502896 | 0.710983 | -0.20809 | 2 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1867560 | 0.22583 | 0.73199 | 6.929454 | 0.000153 | 0.002943 | 1.282086 | 0.619074 | 0.844905 | -0.22583 | 8 | 1.42E+08 | R | II | PTP4A3 | 5'UTR | shelf | 5'UTR-shelf | chr8:1424 | rs5288647 | 39;30;2 | | | | |
| cg2505262 | 0.229255 | 0.554286 | 6.928512 | 0.000153 | 0.002944 | 1.281122 | 0.439659 | 0.668914 | -0.22926 | 9 | 8795664 | R | II | PTPRD | 5'UTR | opensea | 5'UTR-open | | rs1443030 | 32;18;15 | | | | |
| cg1233813 | 0.215964 | 0.646802 | 6.928438 | 0.000153 | 0.002944 | 1.281046 | 0.53882 | 0.754784 | -0.21596 | 2 | 2.19E+08 | F | II | TNS1 | Body | opensea | Body-opens | | rs5517049 | 6;17 | | | | |
| cg2636104 | 0.207915 | 0.686994 | 6.927453 | 0.000153 | 0.002945 | 1.280037 | 0.583036 | 0.790951 | -0.20792 | 10 | 1234237 | F | II | ADARB2 | Body | shelf | Body-shelf | chr10:123 | rs3744537 | 1 | | | | |
| cg0893407 | 0.213711 | 0.595015 | 6.926212 | 0.000153 | 0.002947 | 1.278766 | 0.48816 | 0.701871 | -0.21371 | 7 | 90453412 | F | II | CDK14 | Body | opensea | Body-opens | | rs5346979 | 0;18;20;23;49 | | | | |
| cg1005912 | 0.219061 | 0.596388 | 6.922369 | 0.000154 | 0.002953 | 1.27483 | 0.486858 | 0.705919 | -0.21906 | 8 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs5379764 | 50;11;10 | | | | |
| cg1096092 | 0.211274 | 0.668109 | 6.922226 | 0.000154 | 0.002953 | 1.274683 | 0.562472 | 0.773745 | -0.21127 | 3 | 1.58E+08 | F | II | GFM1 | ExonBnd | opensea | ExonBnd-op | | rs1404901 | 1;12;24 | | | | |
| cg0390575 | 0.220789 | 0.652178 | 6.920771 | 0.000154 | 0.002955 | 1.273192 | 0.541784 | 0.762573 | -0.22079 | 11 | 2566193 | F | II | KCNQ1 | Body | opensea | Body-opens | | rs7129955 | 18 | | | | |
| cg2323695 | 0.220833 | 0.597637 | 6.920753 | 0.000154 | 0.002955 | 1.273174 | 0.487221 | 0.708054 | -0.22083 | 12 | 42977926 | R | II | PRICKLE1 | 5'UTR | opensea | 5'UTR-open | | rs5916028 | 4 | | | | |
| cg1828705 | 0.206156 | 0.334397 | 6.920655 | 0.000154 | 0.002955 | 1.273074 | 0.231319 | 0.437476 | -0.20616 | 3 | 1.34E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1545196 | 0.226273 | 0.629914 | 6.920611 | 0.000154 | 0.002955 | 1.273029 | 0.516778 | 0.743051 | -0.22627 | 1 | 2.36E+08 | R | II | LYST | Body | shelf | Body-shelf | chr1:2360 | rs5419330 | 10;5;2 | | | | |
| cg0202594 | 0.214242 | 0.526211 | 6.918589 | 0.000154 | 0.002958 | 1.270956 | 0.41909 | 0.633332 | -0.21424 | 4 | 80998921 | F | II | | IGR | opensea | IGR-opense | | rs5325634 | 11;22;48 | | | | |
| cg0604068 | 0.202381 | 0.518669 | 6.917628 | 0.000154 | 0.00296 | 1.269971 | 0.417479 | 0.619859 | -0.20238 | 5 | 1.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs5643643 | 20 | | | | |
| cg0818254 | 0.210801 | 0.712912 | 6.916233 | 0.000155 | 0.002962 | 1.268541 | 0.607512 | 0.818313 | -0.2108 | 21 | 27259587 | F | II | APP | Body | opensea | Body-opens | | rs1153604 | 1;3;20 | | | | |
| cg0444184 | 0.234996 | 0.545063 | 6.914749 | 0.000155 | 0.002964 | 1.26702 | 0.427565 | 0.662561 | -0.235 | 2 | 38976288 | R | I | SFRS7 | Body | shore | Body-shore | chr2:3897 | rs5657739 | 24;2 | | | | |
| cg1133498 | 0.220128 | 0.607115 | 6.913686 | 0.000155 | 0.002965 | 1.265929 | 0.497051 | 0.717179 | -0.22013 | 15 | 91969783 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2710319 | 0.208009 | 0.697933 | 6.909635 | 0.000156 | 0.002972 | 1.261773 | 0.593929 | 0.801938 | -0.20801 | 6 | 3912299 | R | II | | IGR | opensea | IGR-opense | | rs1319687 | 26;20;1 | | | | |
| cg0539833 | 0.230281 | 0.619388 | 6.909078 | 0.000156 | 0.002973 | 1.261201 | 0.504247 | 0.734529 | -0.23028 | 19 | 16787345 | F | II | TMEM38A | Body | opensea | Body-opens | | rs5491761 | 1 | | | | |
| cg0166492 | 0.211532 | 0.600764 | 6.908643 | 0.000156 | 0.002973 | 1.260755 | 0.494998 | 0.70653 | -0.21153 | 11 | 35475769 | F | II | PAMR1 | Body | opensea | Body-opens | | rs5524594 | 1;4;49;50 | | | | |
| cg2491329 | 0.204263 | 0.635315 | 6.908129 | 0.000156 | 0.002974 | 1.260228 | 0.533183 | 0.737446 | -0.20426 | 9 | 3386844 | F | II | RFX3 | Body | opensea | Body-opens | | rs1137509 | 5;7;26;29 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1569869 | 0.220233 | 0.572013 | 6.906983 | 0.000156 | 0.002976 | 1.259052 | 0.461896 | 0.682129 | -0.22023 | 7 | 18079924 | R | II | | IGR | opensea | IGR-opense | | rs1866027 | 30 | | | |
| cg2041865 | 0.22605 | 0.682839 | 6.906761 | 0.000156 | 0.002976 | 1.258824 | 0.569814 | 0.795864 | -0.22605 | 12 | 15846287 | R | II | EPS8 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0130319 | 0.225093 | 0.44232 | 6.905826 | 0.000156 | 0.002977 | 1.257864 | 0.329773 | 0.554866 | -0.22509 | 7 | 1.29E+08 | R | II | AHCYL2 | Body | opensea | Body-opens | | | | | | |
| cg1245376 | 0.212915 | 0.53649 | 6.905397 | 0.000156 | 0.002978 | 1.257424 | 0.430033 | 0.642947 | -0.21291 | 20 | 20753448 | F | II | | IGR | opensea | IGR-opense | | rs953364;r | 30;35 | | | |
| cg0216388 | 0.235635 | 0.487427 | 6.905174 | 0.000156 | 0.002978 | 1.257195 | 0.36961 | 0.605245 | -0.23563 | 6 | 27729346 | R | I | | IGR | opensea | IGR-opense | | rs5435538 | 45;28;16 | | | |
| cg2609899 | 0.217651 | 0.499621 | 6.903891 | 0.000156 | 0.002981 | 1.255878 | 0.390796 | 0.608447 | -0.21765 | 1 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2037050 | 0.221047 | 0.392749 | 6.903031 | 0.000157 | 0.002982 | 1.254994 | 0.282225 | 0.503272 | -0.22105 | 13 | 29114024 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0763519 | 0.202569 | 0.73664 | 6.902893 | 0.000157 | 0.002982 | 1.254853 | 0.635356 | 0.837925 | -0.20257 | 2 | 1.54E+08 | R | II | PRPF40A | Body | opensea | Body-opens | | | | | | |
| cg2252416 | 0.206839 | 0.627565 | 6.901857 | 0.000157 | 0.002984 | 1.253789 | 0.524146 | 0.730985 | -0.20684 | 5 | 1.45E+08 | R | II | SH3RF2 | Body | opensea | Body-opens | | rs1481185 | 5 | | | |
| cg2510096 | 0.240411 | 0.488069 | 6.901583 | 0.000157 | 0.002984 | 1.253507 | 0.367864 | 0.608275 | -0.24041 | 12 | 31782808 | F | I | | IGR | opensea | IGR-opense | | rs5472692 | 22;43 | | | |
| cg1852203 | 0.21202 | 0.671703 | 6.901114 | 0.000157 | 0.002984 | 1.253026 | 0.565693 | 0.777713 | -0.21202 | 17 | 30568596 | R | II | | IGR | opensea | IGR-opense | | rs5711904 | 36;32;30;17;2;1 | | | |
| cg0392158 | 0.224202 | 0.40097 | 6.899959 | 0.000157 | 0.002986 | 1.25184 | 0.288869 | 0.513071 | -0.2242 | 11 | 95444955 | F | II | | IGR | opensea | IGR-opense | | rs7665303 | 7 | | | |
| cg1065794 | 0.20868 | 0.608405 | 6.89962 | 0.000157 | 0.002987 | 1.251491 | 0.504065 | 0.712745 | -0.20868 | 7 | 19997878 | F | II | LOC101927 | Body | opensea | Body-opens | | rs5517130 | 28;42 | | | |
| cg2356651 | 0.202311 | 0.569029 | 6.899553 | 0.000157 | 0.002987 | 1.251422 | 0.467874 | 0.670184 | -0.20231 | 1 | 62698613 | R | II | | IGR | opensea | IGR-opense | | rs5413528 | 34;21;2;1 | | | |
| cg1634555 | 0.232577 | 0.563634 | 6.899089 | 0.000157 | 0.002987 | 1.250946 | 0.447346 | 0.679923 | -0.23258 | 2 | 2.14E+08 | F | II | IKZF2 | Body | opensea | Body-opens | | rs1834106 | 1;8;33;44 | | | |
| cg1273638 | 0.217592 | 0.633548 | 6.898769 | 0.000157 | 0.002987 | 1.250617 | 0.524752 | 0.742344 | -0.21759 | 7 | 28519833 | F | II | CREB5 | 5'UTR | opensea | 5'UTR-open | | rs5447980 | 29 | | | |
| cg2578870 | 0.204334 | 0.611072 | 6.8986 | 0.000157 | 0.002987 | 1.250444 | 0.508905 | 0.713239 | -0.20433 | 17 | 40225722 | F | II | | IGR | shore | IGR-shore | chr17:402 | rs5584147 | 1 | | | |
| cg1815104 | 0.252798 | 0.438992 | 6.898373 | 0.000157 | 0.002987 | 1.25021 | 0.312593 | 0.565391 | -0.2528 | 18 | 52917041 | F | II | TCF4 | Body | opensea | Body-opens | | rs1464412 | 1;29 | | | |
| cg0086966 | 0.220879 | 0.41044 | 6.898076 | 0.000157 | 0.002987 | 1.249905 | 0.3 | 0.52088 | -0.22088 | 1 | 45936038 | R | II | TESK2 | 5'UTR | opensea | 5'UTR-open | | rs5290056 | 45;23 | | | |
| cg1031291 | 0.200259 | 0.429346 | 6.897536 | 0.000157 | 0.002988 | 1.24935 | 0.329217 | 0.529476 | -0.20026 | 7 | 24956388 | F | II | OSBPL3 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0425989 | 0.279141 | 0.550711 | 6.897491 | 0.000157 | 0.002988 | 1.249304 | 0.411141 | 0.690282 | -0.27914 | 8 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs1095647 | 12;2;1 | | | |
| cg0715430 | 0.203182 | 0.630647 | 6.897084 | 0.000157 | 0.002989 | 1.248886 | 0.529056 | 0.732237 | -0.20318 | 14 | 75677842 | R | II | | IGR | opensea | IGR-opense | | rs5701156 | 36;23;9;2 | | | |
| cg2505683 | 0.208999 | 0.557831 | 6.896338 | 0.000158 | 0.00299 | 1.248119 | 0.453332 | 0.662331 | -0.209 | 12 | 1.18E+08 | F | II | WSB2 | Body | opensea | Body-opens | | rs1427011 | 0;51 | | | |
| cg1836228 | 0.275273 | 0.575878 | 6.894009 | 0.000158 | 0.002994 | 1.245726 | 0.438242 | 0.713514 | -0.27527 | 7 | 1.57E+08 | R | I | DNAJB6 | Body | island | Body-islanc | chr7:1572( | | | | | |
| cg2226089 | 0.202147 | 0.614949 | 6.89319 | 0.000158 | 0.002995 | 1.244883 | 0.513875 | 0.716022 | -0.20215 | 18 | 46014854 | F | II | | IGR | opensea | IGR-opense | | rs5291930 | 1;14;26;50 | | | |
| cg1769413 | 0.267513 | 0.440905 | 6.893162 | 0.000158 | 0.002995 | 1.244855 | 0.307149 | 0.574662 | -0.26751 | 4 | 14858290 | F | I | | IGR | opensea | IGR-opense | | rs3679657 | 36;41;49;51 | | | |
| cg1619202 | 0.21127 | 0.654385 | 6.89298 | 0.000158 | 0.002995 | 1.244667 | 0.54875 | 0.760019 | -0.21127 | 10 | 90618573 | F | II | | IGR | opensea | IGR-opense | | rs5664924 | 11;16 | | | |
| cg2622416 | 0.230036 | 0.453358 | 6.892765 | 0.000158 | 0.002995 | 1.244446 | 0.33834 | 0.568376 | -0.23004 | 8 | 67343584 | R | II | ADHFE1 | TSS1500 | shore | TSS1500-sh | chr8:6734 | | | | | |
| cg0341892 | 0.21377 | 0.602967 | 6.892283 | 0.000158 | 0.002996 | 1.243951 | 0.496082 | 0.709852 | -0.21377 | 11 | 9598763 | F | II | WEE1 | Body | shelf | Body-shelf | chr11:959 | rs2017581 | 13 | | | |
| cg2035614 | 0.204116 | 0.695155 | 6.892246 | 0.000158 | 0.002996 | 1.243912 | 0.593097 | 0.797213 | -0.20412 | 1 | 92682443 | F | II | C1orf146 | TSS1500 | shore | TSS1500-sh | chr1:9268 | rs5330918 | 1 | | | |
| cg2755445 | 0.205216 | 0.555545 | 6.891966 | 0.000158 | 0.002996 | 1.243625 | 0.452937 | 0.658153 | -0.20522 | 6 | 51165249 | R | II | | IGR | opensea | IGR-opense | | rs5486004 | 2;1 | | | |
| cg2587349 | 0.217896 | 0.579169 | 6.890784 | 0.000158 | 0.002999 | 1.242409 | 0.470221 | 0.688117 | -0.2179 | 20 | 17973930 | F | II | | IGR | opensea | IGR-opense | | rs1407710 | 42;51 | | | |
| cg0653854 | 0.201722 | 0.403794 | 6.889693 | 0.000159 | 0.002999 | 1.241287 | 0.302934 | 0.504655 | -0.20172 | 10 | 33244887 | R | II | ITGB1 | 5'UTR | shore | 5'UTR-shor | chr10:332 | | | | | |
| cg1202456 | 0.205921 | 0.59342 | 6.888983 | 0.000159 | 0.003 | 1.240557 | 0.490459 | 0.696381 | -0.20592 | 12 | 62546633 | F | II | FAM19A2 | 5'UTR | opensea | 5'UTR-open | | rs1927178 | 0;24 | | | |
| cg2266191 | 0.2117 | 0.672005 | 6.888948 | 0.000159 | 0.003 | 1.240521 | 0.566155 | 0.777855 | -0.2117 | 1 | 2.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs5713828 | 4 | | | |
| cg1053372 | 0.254142 | 0.65096 | 6.888385 | 0.000159 | 0.003001 | 1.239943 | 0.523889 | 0.778031 | -0.25414 | 2 | 2.39E+08 | F | II | RBM44 | Body | opensea | Body-opens | | rs3688964 | 0 | | | |
| cg2136790 | 0.211907 | 0.546436 | 6.887364 | 0.000159 | 0.003003 | 1.238892 | 0.440483 | 0.652389 | -0.21191 | 10 | 82687542 | R | II | | IGR | opensea | IGR-opense | | rs5292452 | 45;2 | | | |
| cg2516175 | 0.206114 | 0.646539 | 6.887033 | 0.000159 | 0.003003 | 1.238552 | 0.543482 | 0.749596 | -0.20611 | 2 | 2.02E+08 | F | II | CFLAR | 5'UTR | shelf | 5'UTR-shelf | chr2:2019 | rs1389071 | 1;26 | | | |
| cg0977527 | 0.213082 | 0.575543 | 6.886854 | 0.000159 | 0.003004 | 1.238367 | 0.469002 | 0.682084 | -0.21308 | 12 | 1.25E+08 | F | II | ZNF664-FA | 5'UTR | opensea | 5'UTR-open | | rs7495264 | 27 | | | |
| cg0963796 | 0.201469 | 0.601331 | 6.885783 | 0.000159 | 0.003005 | 1.237265 | 0.500597 | 0.702066 | -0.20147 | 6 | 14798944 | R | II | | IGR | opensea | IGR-opense | | rs5586292 | 44 | | | |
| cg0932952 | 0.249228 | 0.551944 | 6.884299 | 0.000159 | 0.003008 | 1.235739 | 0.42733 | 0.676558 | -0.24923 | 1 | 1.82E+08 | R | II | | IGR | opensea | IGR-opense | | rs1481664 | 41;40;25 | | | |
| cg0598172 | 0.211695 | 0.624962 | 6.884213 | 0.000159 | 0.003008 | 1.23565 | 0.519115 | 0.73081 | -0.2117 | 9 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0526698 | 0.232258 | 0.5353 | 6.883925 | 0.00016 | 0.003009 | 1.235353 | 0.419171 | 0.651429 | -0.23226 | 14 | 74296969 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1018939 | 0.205788 | 0.554463 | 6.88374 | 0.00016 | 0.003009 | 1.235163 | 0.451569 | 0.657357 | -0.20579 | 17 | 52849566 | R | II | | IGR | opensea | IGR-opense | | rs3749768 | 28 | | | |
| cg0304165 | 0.23948 | 0.592443 | 6.882099 | 0.00016 | 0.003012 | 1.233474 | 0.472703 | 0.712183 | -0.23948 | 7 | 94543948 | F | II | PPP1R9A | Body | opensea | Body-opens | | rs5611462 | 19 | | | |
| cg2182216 | 0.259352 | 0.624298 | 6.881081 | 0.00016 | 0.003013 | 1.232425 | 0.494622 | 0.753974 | -0.25935 | 7 | 52531387 | R | II | | IGR | opensea | IGR-opense | | rs6963409 | 20;2 | | | |
| cg1713862 | 0.20537 | 0.682996 | 6.881074 | 0.00016 | 0.003013 | 1.232419 | 0.58031 | 0.785681 | -0.20537 | 7 | 22184820 | F | II | RAPGEF5 | ExonBnd | opensea | ExonBnd-o | | rs3691574 | 15;46 | | | |
| cg2713099 | 0.2004 | 0.601224 | 6.880053 | 0.00016 | 0.003015 | 1.231367 | 0.501024 | 0.701423 | -0.2004 | 5 | 1.49E+08 | F | II | ABLIM3 | Body | opensea | Body-opens | | rs5547711 | 1;14;25 | | | |
| cg1002763 | 0.21684 | 0.55283 | 6.879224 | 0.00016 | 0.003017 | 1.230514 | 0.44441 | 0.66125 | -0.21684 | 11 | 23501632 | F | II | | IGR | opensea | IGR-opense | | rs5659744 | 43 | | | |
| cg0254049 | 0.225564 | 0.635676 | 6.878874 | 0.00016 | 0.003017 | 1.230154 | 0.522894 | 0.748458 | -0.22556 | 4 | 4271819 | R | II | LYAR | Body | opensea | Body-opens | | rs1887744 | 25;6;2 | | | |
| cg2105851 | 0.212505 | 0.640843 | 6.877927 | 0.00016 | 0.003019 | 1.229178 | 0.53459 | 0.747095 | -0.2125 | 12 | 63144886 | R | II | PPM1H | Body | opensea | Body-opens | | rs163681;r | 21;18;2 | | | |
| cg1975683 | 0.243628 | 0.608733 | 6.87669 | 0.000161 | 0.00302 | 1.227904 | 0.486919 | 0.730547 | -0.24363 | 2 | 2.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5484834 | 2;1 | | | |
| cg0964739 | 0.200902 | 0.647358 | 6.874852 | 0.000161 | 0.003023 | 1.226011 | 0.546906 | 0.747809 | -0.2009 | 4 | 1.32E+08 | R | II | | IGR | opensea | IGR-opense | | rs1930195 | 33;18 | | | |
| cg1030769 | 0.216136 | 0.59784 | 6.873665 | 0.000161 | 0.003025 | 1.224788 | 0.489772 | 0.705908 | -0.21614 | 4 | 42346978 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1720134 | 0.207004 | 0.423069 | 6.870039 | 0.000162 | 0.003031 | 1.221051 | 0.319567 | 0.526571 | -0.207 | 9 | 1.1E+08 | F | II | ZNF462 | 5'UTR | opensea | 5'UTR-open | | rs5274923 | 26;32 | | | |
| cg2163462 | 0.217033 | 0.627683 | 6.869916 | 0.000162 | 0.003031 | 1.220924 | 0.519166 | 0.736199 | -0.21703 | 3 | 15687271 | R | II | BTD | 3'UTR | opensea | 3'UTR-open | | rs5293249 | 2 | | | |
| cg1727137 | 0.206201 | 0.718275 | 6.869915 | 0.000162 | 0.003031 | 1.220923 | 0.615175 | 0.821376 | -0.2062 | 3 | 32389059 | R | II | CMTM8 | Body | opensea | Body-opens | | rs1702924 | 8;6 | | | |
| cg0427048 | 0.233688 | 0.36264 | 6.869478 | 0.000162 | 0.003032 | 1.220472 | 0.245796 | 0.479484 | -0.23369 | 11 | 85827505 | F | II | | IGR | opensea | IGR-opense | | rs1497039 | 1;16;19;32 | | | |
| cg0161941 | 0.218004 | 0.675718 | 6.869086 | 0.000162 | 0.003033 | 1.220068 | 0.566716 | 0.78472 | -0.218 | 17 | 40507235 | R | II | STAT3 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0573310 | 0.208995 | 0.564446 | 6.868193 | 0.000162 | 0.003034 | 1.219148 | 0.459949 | 0.668944 | -0.20899 | 3 | 9032419 | R | II | SRGAP3 | Body | island | Body-islanc | chr3:9032 | rs5340441 | 46;19 | | | |
| cg0126318 | 0.204253 | 0.668982 | 6.867804 | 0.000162 | 0.003035 | 1.218747 | 0.566855 | 0.771108 | -0.20425 | 2 | 1.1E+08 | F | II | EDAR | Body | opensea | Body-opens | | rs5335877 | 1 | | | |
| cg2197450 | 0.239662 | 0.553926 | 6.867057 | 0.000162 | 0.003036 | 1.217976 | 0.434095 | 0.673757 | -0.23966 | 6 | 33141291 | R | I | COL11A2 | Body | opensea | Body-opens | | rs9277932 | 40;14;13 | | | |
| cg0048255 | 0.231672 | 0.499053 | 6.865706 | 0.000162 | 0.003038 | 1.216584 | 0.383217 | 0.614889 | -0.23167 | 3 | 1.01E+08 | R | I | | IGR | shore | IGR-shore | chr3:1014 | rs7315925 | 42 | | | |
| cg0574763 | 0.244705 | 0.453079 | 6.865702 | 0.000162 | 0.003038 | 1.216579 | 0.330727 | 0.575432 | -0.2447 | 18 | 39527524 | R | II | | IGR | opensea | IGR-opense | | rs1383585 | 45;37 | | | |
| cg0287917 | 0.213328 | 0.4306 | 6.863879 | 0.000163 | 0.003041 | 1.214698 | 0.323936 | 0.537264 | -0.21333 | 1 | 45955199 | R | II | TESK2 | 5'UTR | shore | 5'UTR-shor | chr1:4595( | | | | | |
| cg1415343 | 0.241804 | 0.417364 | 6.863574 | 0.000163 | 0.003042 | 1.214385 | 0.296461 | 0.538266 | -0.2418 | 5 | 1.19E+08 | R | I | TNFAIP8 | TSS1500 | shore | TSS1500-sh | chr5:1186 | rs7610611 | 46;40 | | | |
| cg0815317 | 0.245039 | 0.566768 | 6.858097 | 0.000164 | 0.00305 | 1.208732 | 0.444249 | 0.689288 | -0.24504 | 11 | 1.27E+08 | F | II | KIRREL3 | Body | opensea | Body-opens | | rs5649188 | 0;30;45;51 | | | |
| cg2545236 | 0.201819 | 0.665061 | 6.857811 | 0.000164 | 0.00305 | 1.208437 | 0.564151 | 0.76597 | -0.20182 | 7 | 26676191 | F | II | C7orf71 | TSS1500 | opensea | TSS1500-o | | rs1485305 | 23 | | | |
| cg1776538 | 0.242201 | 0.563338 | 6.857595 | 0.000164 | 0.003051 | 1.208214 | 0.442237 | 0.684438 | -0.2422 | 12 | 1.17E+08 | F | II | FBXW8 | Body | opensea | Body-opens | | rs1172971 | 8 | | | |
| cg1026529 | 0.235929 | 0.744265 | 6.85702 | 0.000164 | 0.003052 | 1.207621 | 0.6263 | 0.86223 | -0.23593 | 13 | 24415428 | R | II | MIPEP | Body | opensea | Body-opens | | rs1482737 | 48;1 | | | |
| cg2682100 | 0.214326 | 0.577119 | 6.856541 | 0.000164 | 0.003052 | 1.207126 | 0.469956 | 0.684282 | -0.21433 | 2 | 773393 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0325190 | 0.202237 | 0.442244 | 6.85535 | 0.000164 | 0.003054 | 1.205896 | 0.341125 | 0.543362 | -0.20224 | 5 | 33277735 | R | II | | IGR | opensea | IGR-opense | | rs436219 | 31 | | | |
| cg2621624 | 0.206246 | 0.567317 | 6.854956 | 0.000164 | 0.003055 | 1.205489 | 0.464193 | 0.67044 | -0.20625 | 6 | 49495283 | F | II | GLYATL3 | 3'UTR | opensea | 3'UTR-open | | | | | | |
| cg2638454 | 0.270596 | 0.425312 | 6.854182 | 0.000164 | 0.003056 | 1.20469 | 0.290014 | 0.56061 | -0.2706 | 8 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs7833070 | 9;36;43;44 | | | |
| cg1717552 | 0.206685 | 0.529074 | 6.853319 | 0.000164 | 0.003057 | 1.203799 | 0.425731 | 0.632416 | -0.20669 | 1 | 79627622 | F | II | | IGR | opensea | IGR-opense | | rs5777937 | 44 | | | |
| cg0122827 | 0.214251 | 0.550901 | 6.851363 | 0.000165 | 0.003061 | 1.201778 | 0.443776 | 0.658027 | -0.21425 | 3 | 1.43E+08 | R | II | | IGR | shelf | IGR-shelf | chr3:1426 | rs5668653 | 35;1 | | | |
| cg2486983 | 0.218102 | 0.527363 | 6.85011 | 0.000165 | 0.003063 | 1.200483 | 0.418312 | 0.636414 | -0.2181 | 4 | 1.39E+08 | F | II | SLC7A11 | Body | opensea | Body-opens | | rs5663115 | 0;28 | | | |
| cg0811945 | 0.204989 | 0.517297 | 6.850042 | 0.000165 | 0.003063 | 1.200414 | 0.414803 | 0.619792 | -0.20499 | 13 | 53602385 | R | II | OLFM4 | TSS1500 | opensea | TSS1500-o | | | | | | |
| cg0129452 | 0.202325 | 0.638534 | 6.849307 | 0.000165 | 0.003064 | 1.199654 | 0.537372 | 0.739697 | -0.20233 | 5 | 1.43E+08 | R | II | NR3C1 | TSS1500 | opensea | TSS1500-o | | rs6175741 | 49;39;23;2;1 | | | |
| cg0867831 | 0.209054 | 0.571441 | 6.848687 | 0.000165 | 0.003065 | 1.199013 | 0.466914 | 0.675968 | -0.20905 | 3 | 1.54E+08 | R | II | | IGR | opensea | IGR-opense | | rs1908646 | 6;2 | | | |
| cg0632910 | 0.318813 | 0.585401 | 6.847602 | 0.000165 | 0.003067 | 1.197892 | 0.425994 | 0.744807 | -0.31881 | 8 | 20810381 | R | II | LOC10246 | TSS1500 | opensea | TSS1500-o | | rs1134091 | 1 | | | |
| cg0276954 | 0.221014 | 0.641 | 6.846217 | 0.000165 | 0.003069 | 1.196461 | 0.530493 | 0.751506 | -0.22101 | 2 | 2.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5674079 | 34 | | | |
| cg0020646 | 0.217229 | 0.620607 | 6.846194 | 0.000165 | 0.003069 | 1.196436 | 0.511993 | 0.729221 | -0.21723 | 6 | 30179435 | R | II | TRIM26 | 5'UTR | shore | 5'UTR-shor | chr6:3018 | rs2844775 | 15;9;2 | | | |
| cg1880299 | 0.204939 | 0.727858 | 6.845614 | 0.000166 | 0.00307 | 1.195837 | 0.625388 | 0.830327 | -0.20494 | 3 | 1.72E+08 | F | II | | IGR | opensea | IGR-opense | | rs5415132 | 24 | | | |
| cg1718465 | 0.205271 | 0.535348 | 6.845463 | 0.000166 | 0.00307 | 1.195681 | 0.432713 | 0.637984 | -0.20527 | 1 | 2.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs1397429 | 2 | | | |
| cg2457146 | 0.213149 | 0.580478 | 6.844587 | 0.000166 | 0.003072 | 1.194775 | 0.473904 | 0.687053 | -0.21315 | 14 | 59338822 | F | II | LINC01500 | Body | opensea | Body-opens | | rs5507784 | 0;10;16;26;51 | | | |
| cg0530775 | 0.225977 | 0.457915 | 6.844558 | 0.000166 | 0.003072 | 1.194746 | 0.344926 | 0.570904 | -0.22598 | 2 | 1.44E+08 | F | II | ARHGAP15 | Body | opensea | Body-opens | | | | | | |
| cg0234899 | 0.200718 | 0.636481 | 6.84422 | 0.000166 | 0.003072 | 1.194396 | 0.536122 | 0.73684 | -0.20072 | 1 | 87631365 | R | II | LINC01140 | Body | opensea | Body-opens | | rs1811109 | 29;28;2 | | | |
| cg2045719 | 0.202287 | 0.609745 | 6.844034 | 0.000166 | 0.003072 | 1.194204 | 0.508601 | 0.710888 | -0.20229 | 18 | 7904834 | F | II | PTPRM | Body | opensea | Body-opens | | rs1406173 | 0;1;8;9;33;39;40 | | | |
| cg2450247 | 0.221376 | 0.69407 | 6.843443 | 0.000166 | 0.003073 | 1.193593 | 0.583382 | 0.804758 | -0.22138 | 1 | 64238366 | R | II | ROR1 | TSS1500 | shore | TSS1500-sh | chr1:6423 | rs5705543 | 39;26;24;2 | | | |
| cg1554486 | 0.205233 | 0.637732 | 6.840113 | 0.000166 | 0.003079 | 1.190149 | 0.535115 | 0.740348 | -0.20523 | 3 | 31411189 | R | II | | IGR | opensea | IGR-opense | | rs5403783 | 26;25;20;11 | | | |
| cg1008096 | 0.221657 | 0.67417 | 6.839691 | 0.000167 | 0.00308 | 1.189712 | 0.563341 | 0.784998 | -0.22166 | 10 | 1.12E+08 | R | II | DUSP5 | Body | shelf | Body-shelf | chr10:1122 | | | | | |
| cg2377747 | 0.244195 | 0.618293 | 6.839124 | 0.000167 | 0.003081 | 1.189125 | 0.496196 | 0.740391 | -0.24419 | 13 | 1.01E+08 | R | II | PCCA | Body | opensea | Body-opens | | | | | | |
| cg0700016 | 0.200977 | 0.675313 | 6.838092 | 0.000167 | 0.003082 | 1.188058 | 0.574824 | 0.775801 | -0.20098 | 7 | 42196167 | F | II | GLI3 | Body | opensea | Body-opens | | rs5653983 | 10;34 | | | |
| cg2425678 | 0.20056 | 0.669082 | 6.837933 | 0.000167 | 0.003082 | 1.187894 | 0.568802 | 0.769362 | -0.20056 | 4 | 1.84E+08 | F | II | WWC2 | Body | opensea | Body-opens | | rs5574652 | 2;40;41 | | | |
| cg2255810 | 0.218464 | 0.523291 | 6.837449 | 0.000167 | 0.003083 | 1.187393 | 0.414059 | 0.632523 | -0.21846 | 1 | 82626409 | R | II | | IGR | opensea | IGR-opense | | rs5512738 | 45;2 | | | |
| cg0118631 | 0.227509 | 0.550667 | 6.833336 | 0.000168 | 0.00309 | 1.183135 | 0.436912 | 0.664421 | -0.22751 | 8 | 17645191 | R | II | MTUS1 | 5'UTR | opensea | 5'UTR-open | | rs1137741 | 41;27 | | | |
| cg1213554 | 0.253123 | 0.439173 | 6.833014 | 0.000168 | 0.00309 | 1.182802 | 0.312611 | 0.565735 | -0.25312 | 7 | 26428126 | R | II | | IGR | opensea | IGR-opense | | rs7679345 | 22;17;1 | | | |
| cg1874835 | 0.20926 | 0.633068 | 6.832075 | 0.000168 | 0.003092 | 1.18183 | 0.528438 | 0.737698 | -0.20926 | 17 | 16935485 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1387375 | 0.272079 | 0.455488 | 6.827294 | 0.000169 | 0.003099 | 1.176879 | 0.319449 | 0.591527 | -0.27208 | 2 | 317826 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs5515383 | 33;13 | | | |
| cg1932247 | 0.205949 | 0.580753 | 6.8259 | 0.000169 | 0.003101 | 1.175434 | 0.477778 | 0.683728 | -0.20595 | 2 | 2.42E+08 | R | II | SNED1 | Body | shelf | Body-shelf | chr2:2419 | rs5298497 | 38 | | | |
| cg2319118 | 0.201978 | 0.641488 | 6.823115 | 0.000169 | 0.003107 | 1.172548 | 0.540499 | 0.742477 | -0.20198 | 20 | 40278415 | R | II | | IGR | opensea | IGR-opense | | rs5611886 | 9 | | | |
| cg2729481 | 0.200276 | 0.594268 | 6.82166 | 0.000169 | 0.003109 | 1.171039 | 0.49413 | 0.694407 | -0.20028 | 2 | 1.1E+08 | F | II | SH3RF3 | Body | opensea | Body-opens | | rs5725975 | 0 | | | |
| cg0993866 | 0.211619 | 0.553841 | 6.819077 | 0.00017 | 0.003114 | 1.168362 | 0.448032 | 0.659651 | -0.21162 | 12 | 58977519 | F | II | LOC10192 | Body | opensea | Body-opens | | rs8008417 | 1;42 | | | |
| cg2211319 | 0.210232 | 0.520801 | 6.818195 | 0.00017 | 0.003116 | 1.167447 | 0.415685 | 0.625917 | -0.21023 | 10 | 35902589 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1456904 | 0.20428 | 0.609588 | 6.817287 | 0.00017 | 0.003116 | 1.166505 | 0.507447 | 0.711728 | -0.20428 | 17 | 54713112 | R | II | | IGR | opensea | IGR-opense | | rs1873743 | 34;20;2 | | | |
| cg0970971 | 0.202029 | 0.589922 | 6.815256 | 0.000171 | 0.003121 | 1.164399 | 0.488907 | 0.690937 | -0.20203 | 6 | 84692831 | F | II | | IGR | opensea | IGR-opense | | rs5595372 | 2;25 | | | |
| cg1458518 | 0.250991 | 0.401581 | 6.811728 | 0.000171 | 0.003127 | 1.160738 | 0.276085 | 0.527076 | -0.25099 | 12 | 1.05E+08 | F | II | CHST11 | Body | opensea | Body-opens | | rs5773223 | 1;27;35 | | | |
| cg1850569 | 0.222187 | 0.420853 | 6.810161 | 0.000171 | 0.00313 | 1.159112 | 0.309759 | 0.531947 | -0.22219 | 3 | 56711495 | R | II | FAM208A | Body | opensea | Body-opens | | | | | | |
| cg2482735 | 0.221168 | 0.612436 | 6.807789 | 0.000172 | 0.003134 | 1.156649 | 0.501852 | 0.72302 | -0.22117 | 3 | 66813437 | R | II | | IGR | opensea | IGR-opense | | rs7967066 | 45 | | | |
| cg0563404 | 0.207448 | 0.384783 | 6.807786 | 0.000172 | 0.003134 | 1.156646 | 0.281059 | 0.488507 | -0.20745 | 20 | 30624702 | F | II | | IGR | opensea | IGR-opense | | rs1835778 | 1 | | | |
| cg1058636 | 0.202346 | 0.436481 | 6.807484 | 0.000172 | 0.003134 | 1.156332 | 0.335308 | 0.537654 | -0.20235 | 17 | 14663786 | R | II | | IGR | opensea | IGR-opense | | rs5511134 | 28 | | | |
| cg0932620 | 0.203136 | 0.673769 | 6.807378 | 0.000172 | 0.003134 | 1.156222 | 0.572202 | 0.775337 | -0.20314 | 3 | 1.22E+08 | R | II | CASR | 5'UTR | shelf | 5'UTR-shelf | chr3:1219 | rs5542069 | 29;23;2 | | | |
| cg1966493 | 0.238039 | 0.554221 | 6.805617 | 0.000172 | 0.003138 | 1.154393 | 0.435201 | 0.67324 | -0.23804 | 5 | 6493258 | R | II | UBE2QL1 | 3'UTR | opensea | 3'UTR-open | | rs1848432 | 29;9 | | | |
| cg1584106 | 0.239748 | 0.57138 | 6.804308 | 0.000172 | 0.003139 | 1.153034 | 0.451506 | 0.691254 | -0.23975 | 2 | 24925976 | R | II | NCOA1 | Body | opensea | Body-opens | | rs5525567 | 3;1 | | | |
| cg0339718 | 0.209123 | 0.585061 | 6.803033 | 0.000173 | 0.003141 | 1.151709 | 0.480499 | 0.689623 | -0.20912 | 7 | 1.38E+08 | F | II | ATP6V0A4 | 5'UTR | opensea | 5'UTR-open | | rs5421721 | 18 | | | |
| cg0061023 | 0.207137 | 0.657969 | 6.802588 | 0.000173 | 0.003141 | 1.151247 | 0.554401 | 0.761538 | -0.20714 | 3 | 28293872 | R | II | CMC1 | Body | opensea | Body-opens | | rs5391046 | 2;1 | | | |
| cg1837630 | 0.225061 | 0.467595 | 6.802402 | 0.000173 | 0.003142 | 1.151054 | 0.355065 | 0.580126 | -0.22506 | 1 | 76254508 | F | II | RABGGTB | Body | opensea | Body-opens | | rs5738946 | 15;28 | | | |
| cg0626713 | 0.203703 | 0.741946 | 6.801949 | 0.000173 | 0.003142 | 1.150583 | 0.640095 | 0.843798 | -0.2037 | 1 | 23704878 | F | II | | IGR | opensea | IGR-opense | | rs5602486 | 20 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1752446 | 0.24239 | 0.44444 | 6.801 | 0.000173 | 0.003144 | 1.149597 | 0.323245 | 0.565635 | -0.24239 | 3 | 46411369 | R | II | CCR5 | TSS1500 | opensea | TSS1500-op | rs4138484 | 2;1 | | | | |
| cg1108893 | 0.218778 | 0.520212 | 6.79974 | 0.000173 | 0.003145 | 1.148287 | 0.410823 | 0.629601 | -0.21878 | 7 | 78629839 | F | II | MAGI2 | Body | opensea | Body-opens | rs1117729 | 31 | | | | |
| cg2224369 | 0.21544 | 0.599276 | 6.798584 | 0.000173 | 0.003147 | 1.147086 | 0.491556 | 0.706996 | -0.21544 | 17 | 47952618 | F | II | | IGR | opensea | IGR-opense | rs5550810 | 11 | | | | |
| cg2414931 | 0.204169 | 0.758042 | 6.79857 | 0.000173 | 0.003147 | 1.147071 | 0.655957 | 0.860126 | -0.20417 | 19 | 45949789 | F | II | | IGR | shore | IGR-shore | chr19:459 | rs5382723 | 1;41 | | | | |
| cg0741889 | 0.204987 | 0.4478 | 6.798555 | 0.000173 | 0.003147 | 1.147056 | 0.345307 | 0.550293 | -0.20499 | 6 | 52150456 | R | II | MCM3 | TSS1500 | shore | TSS1500-sh | chr6:5214 | rs5337167 | 42;32 | | | | |
| cg0018242 | 0.210053 | 0.59864 | 6.798511 | 0.000173 | 0.003147 | 1.14701 | 0.493613 | 0.703666 | -0.21005 | 3 | 1.71E+08 | R | II | RPL22L1 | Body | shore | Body-shore | chr3:17051 | rs7667051 | 24 | | | | |
| cg1836726 | 0.200002 | 0.729648 | 6.797611 | 0.000173 | 0.003149 | 1.146074 | 0.629647 | 0.829649 | -0.2 | 4 | 1.54E+08 | F | II | TRIM2 | TSS1500 | opensea | TSS1500-op | rs5690207 | 1 | | | | |
| cg2571909 | 0.22565 | 0.525318 | 6.79713 | 0.000174 | 0.003149 | 1.145575 | 0.412493 | 0.638143 | -0.22565 | 17 | 43855147 | R | II | MGC57346 | 5'UTR | opensea | 5'UTR-open | rs2844529 | 26;2;1 | | | | |
| cg1781464 | 0.202088 | 0.662655 | 6.794914 | 0.000174 | 0.003154 | 1.14327 | 0.561611 | 0.763699 | -0.20209 | 1 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | rs7411138 | 51 | | | | |
| cg0742101 | 0.211876 | 0.551705 | 6.794563 | 0.000174 | 0.003155 | 1.142906 | 0.445767 | 0.657643 | -0.21188 | 11 | 1.14E+08 | R | II | ZBTB16 | Body | shelf | Body-shelf | chr11:113 | rs5627351 | 21 | | | | |
| cg0995233 | 0.20306 | 0.544914 | 6.79221 | 0.000174 | 0.003159 | 1.140458 | 0.443384 | 0.646444 | -0.20306 | 7 | 69088087 | R | II | AUTS2 | Body | opensea | Body-opens | rs5762225 | 28 | | | | |
| cg0779198 | 0.209166 | 0.572959 | 6.791327 | 0.000175 | 0.003161 | 1.13954 | 0.468376 | 0.677541 | -0.20917 | 2 | 1.89E+08 | R | II | GULP1 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg2527894 | 0.201341 | 0.648144 | 6.790554 | 0.000175 | 0.003161 | 1.138736 | 0.547474 | 0.748815 | -0.20134 | 6 | 1.4E+08 | R | II | | IGR | opensea | IGR-opense | rs5723386 | 43 | | | | |
| cg2523756 | 0.209373 | 0.694078 | 6.78979 | 0.000175 | 0.003163 | 1.137941 | 0.589392 | 0.798765 | -0.20937 | 4 | 48559784 | R | II | FRYL | Body | opensea | Body-opens | rs5323067 | 33;1 | | | | |
| cg2301847 | 0.205183 | 0.518948 | 6.787836 | 0.000175 | 0.003166 | 1.135907 | 0.416356 | 0.621539 | -0.20518 | 3 | 1.55E+08 | F | II | PLCH1 | Body | opensea | Body-opens | rs6013522 | 51 | | | | |
| cg0552165 | 0.207421 | 0.675559 | 6.7878 | 0.000175 | 0.003166 | 1.13587 | 0.571849 | 0.77927 | -0.20742 | 1 | 2.01E+08 | R | II | IGFN1 | TSS200 | opensea | TSS200-ope | | | | | | |
| cg2677914 | 0.225757 | 0.616017 | 6.784893 | 0.000176 | 0.003171 | 1.132843 | 0.503138 | 0.728895 | -0.22576 | 15 | 33320928 | R | II | FMN1 | Body | opensea | Body-opens | rs5532470 | 1 | | | | |
| cg2327750 | 0.217357 | 0.507709 | 6.78473 | 0.000176 | 0.003171 | 1.132674 | 0.39903 | 0.616387 | -0.21736 | 3 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | rs5315424 | 2;1 | | | | |
| cg1020660 | 0.211717 | 0.559323 | 6.784568 | 0.000176 | 0.003171 | 1.132505 | 0.453464 | 0.665181 | -0.21172 | 8 | 10183609 | R | II | MSRA | Body | opensea | Body-opens | rs1823779 | 41;35;24;9 | | | | |
| cg0965787 | 0.210023 | 0.636156 | 6.782846 | 0.000176 | 0.003174 | 1.130712 | 0.531145 | 0.741168 | -0.21002 | 7 | 94123732 | F | II | | IGR | opensea | IGR-opense | rs5676287 | 9 | | | | |
| cg1743481 | 0.200377 | 0.607184 | 6.780284 | 0.000176 | 0.003179 | 1.128044 | 0.506996 | 0.707373 | -0.20038 | 22 | 46804102 | F | II | CELSR1 | Body | shore | Body-shore | chr22:468 | rs55051769 | 47 | | | |
| cg1080485 | 0.201505 | 0.674599 | 6.778268 | 0.000177 | 0.003183 | 1.125944 | 0.573847 | 0.775351 | -0.2015 | 5 | 58047077 | F | II | RAB3C | Body | opensea | Body-opens | rs1858136 | 1;34 | | | | |
| cg1024164 | 0.201482 | 0.42799 | 6.778214 | 0.000177 | 0.003183 | 1.125888 | 0.327249 | 0.528731 | -0.20148 | 9 | 94928041 | F | II | | IGR | opensea | IGR-opense | rs5665954 | 31 | | | | |
| cg0992783 | 0.234618 | 0.449759 | 6.778198 | 0.000177 | 0.003183 | 1.12587 | 0.33245 | 0.567068 | -0.23462 | 12 | 99775980 | F | II | ANKS1B | Body | opensea | Body-opens | rs1429453 | 9;35;45;47 | | | | |
| cg2196501 | 0.210905 | 0.402093 | 6.778002 | 0.000177 | 0.003183 | 1.125667 | 0.296641 | 0.507546 | -0.21091 | 18 | 61344467 | R | II | | IGR | opensea | IGR-opense | rs7396234 | 41;36;2 | | | | |
| cg1336202 | 0.212059 | 0.663989 | 6.777913 | 0.000177 | 0.003183 | 1.125573 | 0.55796 | 0.770019 | -0.21206 | 2 | 5689033 | F | II | | IGR | opensea | IGR-opense | rs5494179 | 1;20 | | | | |
| cg0224306 | 0.200725 | 0.447116 | 6.774411 | 0.000177 | 0.003189 | 1.121924 | 0.346753 | 0.547478 | -0.20073 | 5 | 1.12E+08 | R | II | | IGR | opensea | IGR-opense | rs1426846 | 33;22;1 | | | | |
| cg0264651 | 0.213691 | 0.335932 | 6.774251 | 0.000177 | 0.003189 | 1.121758 | 0.229087 | 0.442778 | -0.21369 | 2 | 1.28E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:1281 | rs5351777 | 24;12 | | | | |
| cg0491064 | 0.203855 | 0.649733 | 6.773915 | 0.000178 | 0.00319 | 1.121407 | 0.547806 | 0.751661 | -0.20385 | 2 | 1.88E+08 | R | II | FAM171B | Body | opensea | Body-opens | rs1472911 | 2 | | | | |
| cg0278410 | 0.233203 | 0.495739 | 6.773608 | 0.000178 | 0.00319 | 1.121087 | 0.379137 | 0.61234 | -0.2332 | 1 | 2.06E+08 | R | I | CTSE | 5'UTR | opensea | 5'UTR-open | rs5517095 | 47;46 | | | | |
| cg1682392 | 0.209035 | 0.461006 | 6.773412 | 0.000178 | 0.003191 | 1.120882 | 0.356489 | 0.565524 | -0.20904 | 12 | 1.06E+08 | R | II | | IGR | opensea | IGR-opense | rs5558716 | 2;1 | | | | |
| cg2475649 | 0.221004 | 0.646918 | 6.773303 | 0.000178 | 0.003191 | 1.120769 | 0.536416 | 0.75742 | -0.221 | 18 | 21754024 | F | II | OSBPL1A | Body | opensea | Body-opens | rs1841844 | 1;7;34;36 | | | | |
| cg1775909 | 0.266965 | 0.540538 | 6.773214 | 0.000178 | 0.003191 | 1.120676 | 0.407055 | 0.67402 | -0.26697 | 6 | 56755566 | R | II | DST | Body | opensea | Body-opens | rs7345970 | 32;21;1 | | | | |
| cg2048830 | 0.201145 | 0.551877 | 6.772887 | 0.000178 | 0.003191 | 1.120335 | 0.451305 | 0.65245 | -0.20114 | 8 | 74330903 | R | II | STAU2-AS1 | TSS1500 | opensea | TSS1500-op | rs1433152 | 1 | | | | |
| cg0509706 | 0.215194 | 0.664796 | 6.772801 | 0.000178 | 0.003192 | 1.120246 | 0.5572 | 0.772393 | -0.21519 | 5 | 77939250 | R | II | LHFPL2 | 5'UTR | opensea | 5'UTR-open | rs1469983 | 8 | | | | |
| cg1119742 | 0.210448 | 0.46718 | 6.772337 | 0.000178 | 0.003192 | 1.119762 | 0.361956 | 0.572404 | -0.21045 | 5 | 1.49E+08 | F | II | PDE6A | Body | opensea | Body-opens | rs5377106 | 1;15;16 | | | | |
| cg2751207 | 0.246249 | 0.333689 | 6.770547 | 0.000178 | 0.003195 | 1.117896 | 0.210564 | 0.456813 | -0.24625 | 4 | 1.13E+08 | R | II | | IGR | shelf | IGR-shelf | chr4:1132 | rs4834256 | 2 | | | | |
| cg2248316 | 0.209246 | 0.603854 | 6.770474 | 0.000178 | 0.003195 | 1.117819 | 0.49923 | 0.708477 | -0.20925 | 2 | 1.66E+08 | F | II | SCN3A | Body | opensea | Body-opens | rs5296365 | 45 | | | | |
| cg2491939 | 0.202108 | 0.54124 | 6.76918 | 0.000178 | 0.003197 | 1.11647 | 0.440186 | 0.642294 | -0.20211 | 5 | 54255690 | F | II | | IGR | opensea | IGR-opense | rs1382419 | 49 | | | | |
| cg1555935 | 0.280968 | 0.535262 | 6.769121 | 0.000178 | 0.003197 | 1.116408 | 0.394778 | 0.675746 | -0.28097 | 18 | 74785799 | R | II | MBP | Body | opensea | Body-opens | rs5493903 | 23;18;13;2 | | | | |
| cg0859126 | 0.28228 | 0.470078 | 6.768381 | 0.000179 | 0.003198 | 1.115636 | 0.328938 | 0.611217 | -0.28228 | 17 | 56082867 | F | I | SFRS1 | 3'UTR | shore | 3'UTR-shor | chr17:560 | rs1420721 | 41 | | | |
| cg1272301 | 0.20308 | 0.616178 | 6.766908 | 0.000179 | 0.0032 | 1.114099 | 0.514638 | 0.717718 | -0.20308 | 5 | 14298377 | F | II | TRIO | Body | opensea | Body-opens | | | | | | |
| cg0860508 | 0.203161 | 0.659358 | 6.765988 | 0.000179 | 0.003202 | 1.11314 | 0.557777 | 0.760939 | -0.20316 | 6 | 22299163 | F | II | PRL | 5'UTR | opensea | 5'UTR-open | rs5694875 | 0;21 | | | | |
| cg0889806 | 0.212522 | 0.431282 | 6.763885 | 0.000179 | 0.003206 | 1.110945 | 0.325021 | 0.537544 | -0.21252 | 7 | 29311062 | R | II | CHN2 | Body | opensea | Body-opens | rs7153959 | 47;19;4;2 | | | | |
| cg1394631 | 0.210794 | 0.63643 | 6.763757 | 0.000179 | 0.003206 | 1.110811 | 0.531033 | 0.741827 | -0.21079 | 11 | 44604458 | R | II | CD82 | 5'UTR | opensea | 5'UTR-open | rs5764570 | 40;15 | | | | |
| cg1607231 | 0.257434 | 0.509229 | 6.763719 | 0.000179 | 0.003206 | 1.110772 | 0.380512 | 0.637946 | -0.25743 | 4 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | rs5384291 | 29 | | | | |
| cg2707619 | 0.204621 | 0.687884 | 6.762088 | 0.00018 | 0.003209 | 1.10907 | 0.585573 | 0.790195 | -0.20462 | 6 | 1.25E+08 | F | II | RNF217-AS | Body | opensea | Body-opens | rs5660396 | 43 | | | | |
| cg0691043 | 0.205707 | 0.685392 | 6.761649 | 0.00018 | 0.00321 | 1.108611 | 0.582538 | 0.788246 | -0.20571 | 3 | 1.72E+08 | F | II | FNDC3B | Body | opensea | Body-opens | rs5378117 | 8;10 | | | | |
| cg1109040 | 0.214269 | 0.592214 | 6.761267 | 0.00018 | 0.003211 | 1.108213 | 0.48508 | 0.699349 | -0.21427 | 12 | 52716545 | R | II | KRT83 | TSS1500 | shore | TSS1500-sh | chr12:527 | rs5689484 | 37;31;30;25;2 | | | |
| cg0805930 | 0.213554 | 0.610351 | 6.760223 | 0.00018 | 0.003213 | 1.107122 | 0.503574 | 0.717128 | -0.21355 | 9 | 1.37E+08 | R | II | | IGR | opensea | IGR-opense | rs5491321 | 1 | | | | |
| cg1798957 | 0.204627 | 0.671433 | 6.760221 | 0.00018 | 0.003213 | 1.10712 | 0.569119 | 0.773746 | -0.20463 | 21 | 40365051 | F | II | | IGR | opensea | IGR-opense | rs1922630 | 9 | | | | |
| cg2319904 | 0.2032 | 0.65268 | 6.759776 | 0.00018 | 0.003214 | 1.106656 | 0.55108 | 0.75428 | -0.2032 | 2 | 42667428 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0297317 | 0.206346 | 0.590383 | 6.759455 | 0.00018 | 0.003214 | 1.106321 | 0.48721 | 0.693556 | -0.20635 | 11 | 10388914 | F | II | CAND1.11 | Body | opensea | Body-opens | rs1808621 | 13;26;43 | | | | |
| cg1725550 | 0.219677 | 0.570272 | 6.758947 | 0.00018 | 0.003215 | 1.10579 | 0.460434 | 0.68011 | -0.21968 | 18 | 57271843 | F | II | CCBE1 | Body | opensea | Body-opens | | | | | | |
| cg1873449 | 0.203148 | 0.612124 | 6.758261 | 0.00018 | 0.003216 | 1.105074 | 0.51055 | 0.713698 | -0.20315 | 8 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | rs5703478 | 46 | | | | |
| cg0641425 | 0.203339 | 0.531297 | 6.757981 | 0.00018 | 0.003216 | 1.104781 | 0.429627 | 0.632966 | -0.20334 | 4 | 1.65E+08 | R | II | ANP32C | TSS1500 | opensea | TSS1500-op | rs5686351 | 40;2 | | | | |
| cg0981391 | 0.225491 | 0.686967 | 6.757846 | 0.00018 | 0.003216 | 1.104641 | 0.574221 | 0.799712 | -0.22549 | 7 | 1.3E+08 | R | II | KLHDC10 | Body | opensea | Body-opens | | | | | | |
| cg1851351 | 0.202401 | 0.712341 | 6.757312 | 0.00018 | 0.003217 | 1.104083 | 0.611141 | 0.813541 | -0.2024 | 10 | 23358248 | R | II | | IGR | opensea | IGR-opense | rs5584453 | 51;2;1 | | | | |
| cg1500851 | 0.212949 | 0.568119 | 6.757041 | 0.000181 | 0.003218 | 1.103799 | 0.461645 | 0.674593 | -0.21295 | 14 | 83484836 | R | II | | IGR | opensea | IGR-opense | rs7613278 | 30;28;1 | | | | |
| cg0833868 | 0.219763 | 0.605194 | 6.752835 | 0.000181 | 0.003225 | 1.099405 | 0.495312 | 0.715075 | -0.21976 | 3 | 1.7E+08 | R | II | | IGR | opensea | IGR-opense | rs1882507 | 49;1 | | | | |
| cg1593113 | 0.216399 | 0.720431 | 6.75217 | 0.000181 | 0.003226 | 1.09871 | 0.612231 | 0.828631 | -0.2164 | 5 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2491523 | 0.214856 | 0.643122 | 6.751638 | 0.000181 | 0.003227 | 1.098154 | 0.535694 | 0.75055 | -0.21486 | 1 | 10278214 | R | II | KIF1B | 5'UTR | opensea | 5'UTR-open | rs1898153 | 10;3;2;1 | | | | |
| cg0484347 | 0.203311 | 0.666446 | 6.751096 | 0.000182 | 0.003228 | 1.097587 | 0.564791 | 0.768102 | -0.20331 | 10 | 1.01E+08 | R | II | COX15 | 3'UTR | opensea | 3'UTR-open | rs7665612 | 39;35;1 | | | | |
| cg0845437 | 0.22887 | 0.414537 | 6.749758 | 0.000182 | 0.00323 | 1.096189 | 0.300102 | 0.528971 | -0.22887 | 10 | 93705191 | R | II | BTAF1 | Body | opensea | Body-opens | rs5652038 | 1 | | | | |
| cg2751126 | 0.213128 | 0.694206 | 6.749033 | 0.000182 | 0.003232 | 1.095431 | 0.587642 | 0.80077 | -0.21313 | 6 | 1.36E+08 | R | II | PDE7B | Body | opensea | Body-opens | rs5598354 | 2 | | | | |
| cg2347190 | 0.200861 | 0.494406 | 6.748794 | 0.000182 | 0.003232 | 1.095181 | 0.393976 | 0.594837 | -0.20086 | 7 | 84243859 | F | II | | IGR | opensea | IGR-opense | rs5691396 | 1;4;10;29;39 | | | | |
| cg2074091 | 0.229264 | 0.396572 | 6.748776 | 0.000182 | 0.003232 | 1.095163 | 0.28194 | 0.511204 | -0.22926 | 3 | 1.25E+08 | F | II | SLC12A8 | Body | opensea | Body-opens | rs1870849 | 1;4;16;45 | | | | |
| cg0835054 | 0.219424 | 0.607237 | 6.748734 | 0.000182 | 0.003232 | 1.095119 | 0.497525 | 0.716949 | -0.21942 | 3 | 99591722 | R | II | C3orf26 | Body | shelf | Body-shelf | chr3:9959 | rs5390080 | 33;16;1 | | | |
| cg0172965 | 0.209572 | 0.659507 | 6.748621 | 0.000182 | 0.003232 | 1.095 | 0.554721 | 0.764294 | -0.20957 | 13 | 35737794 | F | II | NBEA | Body | opensea | Body-opens | | | | | | |
| cg0947304 | 0.248837 | 0.522904 | 6.748397 | 0.000182 | 0.003233 | 1.094766 | 0.398486 | 0.647323 | -0.24884 | 3 | 31294342 | R | II | | IGR | opensea | IGR-opense | rs5719371 | 21 | | | | |
| cg2652347 | 0.207712 | 0.705914 | 6.745968 | 0.000182 | 0.003237 | 1.092227 | 0.602058 | 0.80977 | -0.20771 | 4 | 74853333 | F | II | PPBP | Body | opensea | Body-opens | rs1435386 | 0;15;16 | | | | |
| cg2419466 | 0.22169 | 0.48081 | 6.744455 | 0.000183 | 0.00324 | 1.090644 | 0.369965 | 0.591656 | -0.22169 | 12 | 82347431 | F | II | LOC10192 | TSS200 | opensea | TSS200-ope | rs1443037 | 0 | | | | |
| cg1471726 | 0.213309 | 0.622209 | 6.743419 | 0.000183 | 0.003241 | 1.08956 | 0.515555 | 0.728863 | -0.21331 | 2 | 1.02E+08 | F | II | NPAS2 | 5'UTR | opensea | 5'UTR-open | rs5359901 | 0;35;43 | | | | |
| cg0633372 | 0.220471 | 0.4081 | 6.740513 | 0.000183 | 0.003248 | 1.086519 | 0.297865 | 0.518336 | -0.22047 | 10 | 52156632 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | rs5773394 | 0;1;45 | | | | |
| cg0398412 | 0.217784 | 0.64095 | 6.740136 | 0.000184 | 0.003248 | 1.086125 | 0.532058 | 0.749842 | -0.21778 | 3 | 15294769 | F | II | SH3BP5-AS | TSS1500 | opensea | TSS1500-op | rs5481649 | 0;3;14;15;17;24;42;51 | | | | |
| cg2526280 | 0.214513 | 0.645446 | 6.740079 | 0.000184 | 0.003248 | 1.086065 | 0.53819 | 0.752703 | -0.21451 | 3 | 19387737 | R | II | KCNH8 | Body | opensea | Body-opens | rs5663723 | 42;2 | | | | |
| cg1678928 | 0.205646 | 0.496119 | 6.739452 | 0.000184 | 0.003249 | 1.085408 | 0.393296 | 0.598942 | -0.20565 | 3 | 1.43E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:1426 | rs5364382 | 39;50 | | | |
| cg1089802 | 0.21819 | 0.629288 | 6.738324 | 0.000184 | 0.003252 | 1.084228 | 0.520193 | 0.738383 | -0.21819 | 2 | 40266366 | F | II | | IGR | opensea | IGR-opense | rs1455448 | 45;48 | | | | |
| cg0870089 | 0.208375 | 0.602021 | 6.738267 | 0.000184 | 0.003252 | 1.084169 | 0.497834 | 0.706209 | -0.20838 | 13 | 36921853 | R | II | SPG20 | TSS1500 | shore | TSS1500-sh | chr13:369 | rs1501820 | 35;29;15;5;3 | | | |
| cg1473265 | 0.204068 | 0.632103 | 6.737489 | 0.000184 | 0.003253 | 1.083353 | 0.530069 | 0.734136 | -0.20407 | 18 | 71186297 | R | II | | IGR | opensea | IGR-opense | rs1467693 | 13;1 | | | | |
| cg2599899 | 0.20806 | 0.691286 | 6.736472 | 0.000184 | 0.003254 | 1.082289 | 0.587256 | 0.795316 | -0.20806 | 20 | 19948667 | R | II | RIN2 | Body | opensea | Body-opens | rs5605624 | 38 | | | | |
| cg1025810 | 0.20598 | 0.567868 | 6.736411 | 0.000184 | 0.003254 | 1.082225 | 0.464878 | 0.670859 | -0.20598 | 7 | 95722949 | F | II | DYNC1I1 | Body | opensea | Body-opens | rs1895962 | 0;8 | | | | |
| cg0903763 | 0.216936 | 0.529854 | 6.736048 | 0.000184 | 0.003255 | 1.081846 | 0.421386 | 0.638322 | -0.21694 | 6 | 31528239 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1523378 | 0.205747 | 0.684552 | 6.735613 | 0.000184 | 0.003256 | 1.08139 | 0.581678 | 0.787425 | -0.20575 | 10 | 1.15E+08 | R | II | TCF7L2 | Body | opensea | Body-opens | rs6139053 | 11 | | | | |
| cg1852411 | 0.211018 | 0.384658 | 6.734721 | 0.000185 | 0.003258 | 1.080455 | 0.27915 | 0.490167 | -0.21102 | 2 | 505661 | F | II | | IGR | shore | IGR-shore | chr2:5036 | rs5413944 | 11 | | | |
| cg2706396 | 0.223128 | 0.606242 | 6.734196 | 0.000185 | 0.003258 | 1.079906 | 0.494678 | 0.717805 | -0.22313 | 5 | 1.69E+08 | F | II | DOCK2 | Body | opensea | Body-opens | rs5664441 | 38 | | | | |
| cg1767561 | 0.21447 | 0.38549 | 6.733023 | 0.000185 | 0.003261 | 1.078677 | 0.278255 | 0.492725 | -0.21447 | 2 | 1.06E+08 | R | II | NCK2 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg1829677 | 0.232979 | 0.388268 | 6.732909 | 0.000185 | 0.003261 | 1.078557 | 0.271779 | 0.504758 | -0.23298 | 16 | 10906666 | R | II | TVP23A | Body | opensea | Body-opens | rs1503740 | 48;16;13;12;2 | | | | |
| cg1981193 | 0.228579 | 0.41375 | 6.731724 | 0.000185 | 0.003263 | 1.077317 | 0.29946 | 0.52804 | -0.22858 | 14 | 92927763 | R | I | SLC24A4 | Body | opensea | Body-opens | rs5316323 | 43;24;19;2 | | | | |
| cg2588516 | 0.216929 | 0.567852 | 6.731002 | 0.000185 | 0.003264 | 1.07656 | 0.459387 | 0.676316 | -0.21693 | 1 | 1.69E+08 | R | II | NME7 | Body | opensea | Body-opens | rs5595690 | 37;16 | | | | |
| cg2616265 | 0.216986 | 0.72249 | 6.730751 | 0.000185 | 0.003265 | 1.076297 | 0.613997 | 0.830983 | -0.21699 | 14 | 90357313 | F | II | C14orf143 | Body | shore | Body-shore | chr14:903 | rs3706509 | 0 | | | |
| cg2497117 | 0.215465 | 0.638041 | 6.730742 | 0.000185 | 0.003265 | 1.076288 | 0.530308 | 0.745773 | -0.21546 | 10 | 94155343 | F | II | | IGR | opensea | IGR-opense | rs1138647 | 11;17;47 | | | | |
| cg0156618 | 0.201023 | 0.577305 | 6.728372 | 0.000186 | 0.003268 | 1.073805 | 0.476793 | 0.677816 | -0.20102 | 19 | 31899380 | F | II | | IGR | opensea | IGR-opense | rs5415426 | 13;29 | | | | |
| cg0030367 | 0.204677 | 0.631593 | 6.726897 | 0.000186 | 0.003271 | 1.072258 | 0.529255 | 0.733931 | -0.20468 | 22 | 39248604 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0037910 | 0.223107 | 0.510206 | 6.725917 | 0.000186 | 0.003273 | 1.071231 | 0.398653 | 0.62176 | -0.22311 | 5 | 1.29E+08 | F | II | KIAA1024L | Body | opensea | Body-opens | | | | | | |
| cg2051544 | 0.200106 | 0.584312 | 6.724517 | 0.000186 | 0.003275 | 1.069763 | 0.484259 | 0.684365 | -0.20011 | 5 | 1.38E+08 | R | II | LRRTM2 | 1stExon | opensea | 1stExon-op | rs3678510 | 20;1 | | | | |
| cg1327603 | 0.203811 | 0.528089 | 6.724238 | 0.000186 | 0.003276 | 1.069471 | 0.426184 | 0.629994 | -0.20381 | 2 | 1.78E+08 | F | II | | IGR | opensea | IGR-opense | rs5338834 | 1 | | | | |
| cg2416429 | 0.203638 | 0.654639 | 6.724202 | 0.000186 | 0.003276 | 1.069433 | 0.552819 | 0.756458 | -0.20364 | 10 | 20523154 | F | II | PLXDC2 | Body | opensea | Body-opens | rs5645034 | 0;1;16;51 | | | | |
| cg0530823 | 0.202818 | 0.662079 | 6.724013 | 0.000186 | 0.003276 | 1.069235 | 0.56067 | 0.763488 | -0.20282 | 10 | 1.05E+08 | R | II | CNNM2 | Body | opensea | Body-opens | rs1914631 | 47;42;30 | | | | |
| cg1538714 | 0.210529 | 0.617843 | 6.723698 | 0.000187 | 0.003276 | 1.068904 | 0.512578 | 0.723107 | -0.21053 | 3 | 45708477 | F | II | LIMD1 | Body | opensea | Body-opens | rs1444630 | 0;3;7 | | | | |
| cg2682168 | 0.210345 | 0.561643 | 6.723472 | 0.000187 | 0.003277 | 1.068668 | 0.456471 | 0.666816 | -0.21034 | 8 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0268500 | 0.231013 | 0.700629 | 6.722627 | 0.000187 | 0.003278 | 1.067781 | 0.585123 | 0.816136 | -0.23101 | 3 | 31903434 | R | II | OSBPL10 | Body | opensea | Body-opens | rs5659464 | 49;29 | | | | |
| cg2626733 | 0.241032 | 0.529684 | 6.721796 | 0.000187 | 0.00328 | 1.06691 | 0.409168 | 0.6502 | -0.24103 | 16 | 83614791 | R | II | CDH13 | Body | opensea | Body-opens | rs1821146 | 51 | | | | |
| cg2294358 | 0.208336 | 0.641956 | 6.720898 | 0.000187 | 0.003281 | 1.065968 | 0.537788 | 0.746124 | -0.20834 | 5 | 77834081 | R | II | LHFPL2 | 5'UTR | opensea | 5'UTR-open | rs5495701 | 42 | | | | |
| cg1295486 | 0.214387 | 0.372321 | 6.720742 | 0.000187 | 0.003281 | 1.065805 | 0.265128 | 0.479514 | -0.21439 | 1 | 2.48E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1345095 | 0.200697 | 0.680033 | 6.719306 | 0.000187 | 0.003284 | 1.064298 | 0.579684 | 0.780381 | -0.2007 | 3 | 1.69E+08 | R | II | MECOM | 5'UTR | opensea | 5'UTR-open | rs5728222 | 1 | | | | |
| cg2579088 | 0.220528 | 0.385326 | 6.718253 | 0.000188 | 0.003285 | 1.063193 | 0.275062 | 0.49559 | -0.22053 | 3 | 29977790 | R | II | RBMS3 | Body | opensea | Body-opens | | | | | | |
| cg0667144 | 0.205286 | 0.657462 | 6.717587 | 0.000188 | 0.003287 | 1.062495 | 0.554819 | 0.760105 | -0.20529 | 12 | 25671475 | R | II | LMNTD1 | Body | opensea | Body-opens | rs1135639 | 46;22 | | | | |
| cg1624892 | 0.224251 | 0.507 | 6.716727 | 0.000188 | 0.003288 | 1.061592 | 0.394874 | 0.619126 | -0.22425 | 12 | 30052697 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0120791 | 0.228068 | 0.548179 | 6.716491 | 0.000188 | 0.003289 | 1.061344 | 0.434145 | 0.662213 | -0.22807 | 15 | 79500886 | F | II | MIR184 | TSS1500 | opensea | TSS1500-op | rs5638785 | 0;1;2;15 | | | | |
| cg1947099 | 0.207739 | 0.674018 | 6.716437 | 0.000188 | 0.003289 | 1.061287 | 0.570149 | 0.777887 | -0.20774 | 2 | 1.8E+08 | R | II | SESTD1 | 5'UTR | opensea | 5'UTR-open | rs5366778 | 28 | | | | |
| cg2538760 | 0.203123 | 0.60058 | 6.714152 | 0.000188 | 0.003293 | 1.058889 | 0.499019 | 0.702141 | -0.20312 | 8 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | rs5586437 | 0;15;32 | | | | |
| cg1376959 | 0.208204 | 0.545936 | 6.712461 | 0.000189 | 0.003296 | 1.057114 | 0.441834 | 0.650038 | -0.2082 | 10 | 45432795 | R | II | TMEM72-A | Body | opensea | Body-opens | rs5673311 | 37;35;29 | | | | |
| cg0549388 | 0.206966 | 0.591903 | 6.712318 | 0.000189 | 0.003296 | 1.056964 | 0.48842 | 0.695386 | -0.20697 | 1 | 37093141 | R | II | | IGR | opensea | IGR-opense | rs5435483 | 50;31;8;1 | | | | |
| cg1543911 | 0.20728 | 0.520403 | 6.711824 | 0.000189 | 0.003297 | 1.056445 | 0.416763 | 0.624043 | -0.20728 | 3 | 1.83E+08 | F | II | | IGR | opensea | IGR-opense | rs1473256 | 16 | | | | |
| cg0621425 | 0.267429 | 0.646413 | 6.710854 | 0.000189 | 0.003299 | 1.055426 | 0.512699 | 0.780128 | -0.26743 | 13 | 73438525 | F | II | PIBF1 | Body | opensea | Body-opens | rs7853179 | 0;13 | | | | |
| cg1199382 | 0.241873 | 0.342681 | 6.710317 | 0.000189 | 0.0033 | 1.054863 | 0.221744 | 0.463617 | -0.24187 | 4 | 38525620 | F | II | LINC01258 | TSS1500 | opensea | TSS1500-op | rs1387812 | 1 | | | | |
| cg2118766 | 0.258766 | 0.591841 | 6.710069 | 0.000189 | 0.003301 | 1.054602 | 0.462458 | 0.721223 | -0.25877 | 17 | 17929033 | R | II | ATPAF2 | Body | opensea | Body-opens | rs1401111 | 39;22 | | | | |
| cg2605494 | 0.212724 | 0.776451 | 6.708496 | 0.000189 | 0.003304 | 1.05295 | 0.670089 | 0.882813 | -0.21272 | 6 | 14584856 | F | II | | IGR | opensea | IGR-opense | rs1873027 | 1;36;46 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1519775 | 0.21208 | 0.618771 | 6.707325 | 0.00019 | 0.003307 | 1.05172 | 0.512731 | 0.724811 | -0.21208 | 2 | 2.33E+08 | R | II | | IGR | opensea | IGR-opense | | rs7978931 | 5;2 | | | | |
| cg0884565 | 0.270713 | 0.465674 | 6.706894 | 0.00019 | 0.003307 | 1.051267 | 0.330318 | 0.60103 | -0.27071 | 2 | 55727415 | R | II | | IGR | opensea | IGR-opense | | rs5737204 | 36;29;10;2 | | | | |
| cg0742875 | 0.200135 | 0.687869 | 6.705586 | 0.00019 | 0.00331 | 1.049892 | 0.587801 | 0.787936 | -0.20013 | 8 | 8633724 | F | II | | IGR | opensea | IGR-opense | | rs1127215 | 0;42;43 | | | | |
| cg0672730 | 0.202356 | 0.740088 | 6.704405 | 0.00019 | 0.003311 | 1.048651 | 0.63891 | 0.841266 | -0.20236 | 15 | 37049798 | R | II | C15orf41 | Body | opensea | Body-opens | | rs1415268 | 49;48;36;25;2 | | | | |
| cg1341401 | 0.203831 | 0.594503 | 6.704128 | 0.00019 | 0.003311 | 1.04836 | 0.492587 | 0.696418 | -0.20383 | 22 | 43118522 | F | II | | IGR | shore | IGR-shore | chr22:431 | rs1126301 | 1;42 | | | | |
| cg0785975 | 0.211531 | 0.509187 | 6.703577 | 0.00019 | 0.003312 | 1.047781 | 0.403422 | 0.614952 | -0.21153 | 13 | 96300257 | R | II | | IGR | shelf | IGR-shelf | chr13:962 | rs1433704 | 13 | | | | |
| cg0481369 | 0.215685 | 0.332256 | 6.702782 | 0.00019 | 0.003314 | 1.046946 | 0.224414 | 0.440098 | -0.21568 | 10 | 22920025 | R | I | PIP4K2A | Body | opensea | Body-opens | | rs1895442 | 29 | | | | |
| cg1126395 | 0.211022 | 0.511698 | 6.700884 | 0.000191 | 0.003317 | 1.04495 | 0.406187 | 0.617209 | -0.21102 | 4 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs7294378 | 45;5 | | | | |
| cg0954940 | 0.232336 | 0.746508 | 6.699431 | 0.000191 | 0.003319 | 1.043423 | 0.63034 | 0.862676 | -0.23234 | 8 | 10331768 | R | II | LINCR-000 | TSS1500 | opensea | TSS1500-o | | rs1811592 | 26;16;2;1 | | | | |
| cg1990510 | 0.213097 | 0.616813 | 6.699279 | 0.000191 | 0.003319 | 1.043263 | 0.510264 | 0.723361 | -0.2131 | 20 | 57892254 | F | II | EDN3 | Body | opensea | Body-opens | | rs5458164 | 0;9;28;46 | | | | |
| cg1560227 | 0.200486 | 0.572584 | 6.698515 | 0.000191 | 0.003321 | 1.04246 | 0.472341 | 0.672827 | -0.20049 | 7 | 55219876 | F | II | EGFR | Body | opensea | Body-opens | | rs1728980 | 28;32;33;34 | | | | |
| cg0614023 | 0.234006 | 0.477889 | 6.69718 | 0.000191 | 0.003323 | 1.041055 | 0.360886 | 0.594892 | -0.23401 | 4 | 41191243 | F | II | APBB2 | 5'UTR | opensea | 5'UTR-open | | | | | | | |
| cg2154153 | 0.222594 | 0.586317 | 6.696947 | 0.000192 | 0.003323 | 1.04081 | 0.47502 | 0.697614 | -0.22259 | 4 | 86684656 | F | II | ARHGAP24 | Body | opensea | Body-opens | | rs5372504 | 33;37 | | | | |
| cg0962327 | 0.207013 | 0.601561 | 6.696242 | 0.000192 | 0.003325 | 1.040068 | 0.498054 | 0.705067 | -0.20701 | 10 | 45395734 | R | II | | IGR | opensea | IGR-opense | | rs1506418 | 27;7;2 | | | | |
| cg1164388 | 0.208642 | 0.574362 | 6.693962 | 0.000192 | 0.00333 | 1.03767 | 0.470041 | 0.678683 | -0.20864 | 8 | 99483453 | R | II | STK3 | Body | opensea | Body-opens | | | | | | | |
| cg2191751 | 0.266358 | 0.472144 | 6.692437 | 0.000192 | 0.003333 | 1.036065 | 0.338965 | 0.605324 | -0.26636 | 11 | 85887699 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1867346 | 0.220018 | 0.506492 | 6.691437 | 0.000193 | 0.003335 | 1.035013 | 0.396483 | 0.616501 | -0.22002 | 7 | 69165517 | F | II | AUTS2 | Body | opensea | Body-opens | | rs5381957 | 0 | | | | |
| cg1613849 | 0.224012 | 0.534643 | 6.690881 | 0.000193 | 0.003336 | 1.034428 | 0.422637 | 0.646649 | -0.22401 | 18 | 10066065 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1642439 | 0.208113 | 0.432694 | 6.688887 | 0.000193 | 0.00334 | 1.032328 | 0.328637 | 0.53675 | -0.20811 | 10 | 71022363 | F | II | HKDC1 | Body | opensea | Body-opens | | rs1445793 | 1 | | | | |
| cg2700511 | 0.221988 | 0.432239 | 6.688826 | 0.000193 | 0.00334 | 1.032263 | 0.321245 | 0.543233 | -0.22199 | 17 | 13972210 | R | II | COX10 | TSS1500 | shore | TSS1500-sh | chr17:1397 | rs1502100 | 22 | | | | |
| cg0350304 | 0.223512 | 0.5718 | 6.688443 | 0.000193 | 0.00334 | 1.031861 | 0.460043 | 0.683556 | -0.22351 | 8 | 1.07E+08 | R | II | ZFPM2 | Body | opensea | Body-opens | | rs1467493 | 27 | | | | |
| cg1607361 | 0.206028 | 0.609739 | 6.688407 | 0.000193 | 0.00334 | 1.031822 | 0.506725 | 0.712752 | -0.20603 | 10 | 22100381 | R | II | DNAJC1 | Body | opensea | Body-opens | | rs5758406 | 2;1 | | | | |
| cg1320917 | 0.205591 | 0.534153 | 6.687803 | 0.000193 | 0.003342 | 1.031187 | 0.431358 | 0.636948 | -0.20559 | 8 | 1.1E+08 | F | II | | IGR | opensea | IGR-opense | | rs5723480 | 18;36;50 | | | | |
| cg1113685 | 0.240869 | 0.59591 | 6.687607 | 0.000193 | 0.003342 | 1.03098 | 0.475475 | 0.716344 | -0.24087 | 1 | 78227961 | R | II | | IGR | shelf | IGR-shelf | chr1:7822 | rs5402682 | 45;36;1 | | | | |
| cg0200319 | 0.202122 | 0.523233 | 6.686356 | 0.000194 | 0.003344 | 1.029662 | 0.422172 | 0.624294 | -0.20212 | 8 | 1.46E+08 | R | II | TMEM249 | TSS1500 | shore | TSS1500-sh | chr8:1455 | rs1126089 | 14 | | | | |
| cg0745036 | 0.212804 | 0.677571 | 6.685515 | 0.000194 | 0.003346 | 1.028777 | 0.571169 | 0.783973 | -0.2128 | 7 | 1.03E+08 | F | II | RELN | Body | opensea | Body-opens | | rs1459244 | 10 | | | | |
| cg0188489 | 0.237309 | 0.588884 | 6.685311 | 0.000194 | 0.003346 | 1.028562 | 0.470229 | 0.707538 | -0.23731 | 12 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1156487 | 0;40 | | | | |
| cg0062372 | 0.208638 | 0.672379 | 6.683462 | 0.000194 | 0.003349 | 1.026614 | 0.56806 | 0.776698 | -0.20864 | 3 | 98566093 | F | II | DCBLD2 | Body | opensea | Body-opens | | rs5640927 | 0 | | | | |
| cg0540785 | 0.217231 | 0.612731 | 6.683181 | 0.000194 | 0.003349 | 1.026319 | 0.504115 | 0.721346 | -0.21723 | 1 | 31913883 | R | II | | IGR | opensea | IGR-opense | | rs1165570 | 49;12 | | | | |
| cg0790623 | 0.220391 | 0.469421 | 6.682581 | 0.000194 | 0.00335 | 1.025687 | 0.359226 | 0.579616 | -0.22039 | 4 | 54549172 | F | II | | IGR | opensea | IGR-opense | | rs1154234 | 1 | | | | |
| cg2148697 | 0.201649 | 0.554783 | 6.682436 | 0.000194 | 0.00335 | 1.025533 | 0.453959 | 0.655608 | -0.20165 | 3 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5521569 | 9;2 | | | | |
| cg0624571 | 0.232817 | 0.447597 | 6.682208 | 0.000194 | 0.003351 | 1.025294 | 0.331189 | 0.564006 | -0.23282 | 17 | 74260776 | R | II | FAM100B | TSS1500 | shore | TSS1500-sh | chr17:742 | rs5638810 | 36;20 | | | | |
| cg1348738 | 0.204087 | 0.46899 | 6.681002 | 0.000195 | 0.003352 | 1.024022 | 0.366946 | 0.571033 | -0.20409 | 1 | 49157163 | F | II | AGBL4 | Body | opensea | Body-opens | | rs1492868 | 7;26;31;44;45 | | | | |
| cg1501416 | 0.231926 | 0.492711 | 6.680715 | 0.000195 | 0.003353 | 1.02372 | 0.376748 | 0.608674 | -0.23193 | 9 | 2251185 | R | II | | IGR | opensea | IGR-opense | | rs5665133 | 46;24;22;20 | | | | |
| cg0801857 | 0.210024 | 0.576263 | 6.680577 | 0.000195 | 0.003353 | 1.023574 | 0.471251 | 0.681275 | -0.21002 | 16 | 1014592 | R | II | LMF1 | Body | shore | Body-shore | chr16:101 | rs1467731 | 13 | | | | |
| cg1250394 | 0.264716 | 0.374662 | 6.680143 | 0.000195 | 0.003354 | 1.023118 | 0.242304 | 0.50702 | -0.26472 | 9 | 1.2E+08 | F | II | | IGR | opensea | IGR-opense | | rs1252039 | 33;44 | | | | |
| cg1749653 | 0.212194 | 0.582197 | 6.679849 | 0.000195 | 0.003355 | 1.022808 | 0.4761 | 0.688294 | -0.21219 | 3 | 59712199 | R | II | | IGR | opensea | IGR-opense | | rs1456800 | 11;4 | | | | |
| cg2670787 | 0.225315 | 0.652981 | 6.679198 | 0.000195 | 0.003356 | 1.022121 | 0.540323 | 0.765639 | -0.22532 | 1 | 1.73E+08 | F | II | | IGR | opensea | IGR-opense | | rs7471138 | 22 | | | | |
| cg0756261 | 0.202419 | 0.627397 | 6.678885 | 0.000195 | 0.003357 | 1.021791 | 0.526187 | 0.728606 | -0.20242 | 2 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs1682948 | 24;26 | | | | |
| cg2135874 | 0.2216 | 0.621373 | 6.678084 | 0.000195 | 0.003358 | 1.020946 | 0.510573 | 0.732173 | -0.2216 | 1 | 8384350 | F | I | SLC45A1 | ExonBnd | shore | ExonBnd-sh | chr1:8385 | rs1125996 | 0;48 | | | | |
| cg0685719 | 0.217886 | 0.587143 | 6.67718 | 0.000195 | 0.003359 | 1.019993 | 0.478201 | 0.696086 | -0.21789 | 18 | 57707737 | R | II | | IGR | opensea | IGR-opense | | rs1065386 | 35 | | | | |
| cg2656269 | 0.221194 | 0.486935 | 6.676337 | 0.000195 | 0.003361 | 1.019105 | 0.376337 | 0.597532 | -0.22119 | 16 | 23850404 | F | II | PRKCB | Body | shelf | Body-shelf | chr16:238 | rs1930964 | 0 | | | | |
| cg0278097 | 0.207848 | 0.673159 | 6.674958 | 0.000196 | 0.003363 | 1.017651 | 0.569235 | 0.777082 | -0.20785 | 5 | 36374005 | R | II | | IGR | opensea | IGR-opense | | rs5768777 | 50;42;41;26;2 | | | | |
| cg2404069 | 0.221433 | 0.597147 | 6.674556 | 0.000196 | 0.003363 | 1.017227 | 0.486431 | 0.707863 | -0.22143 | 22 | 24882671 | F | II | ADORA2A-A | Body | opensea | Body-opens | | rs1503637 | 35;42 | | | | |
| cg1055686 | 0.252929 | 0.56191 | 6.674152 | 0.000196 | 0.003364 | 1.016801 | 0.435446 | 0.688375 | -0.25293 | 6 | 16413526 | R | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs5700094 | 1 | | | | |
| cg1060911 | 0.205849 | 0.680234 | 6.674136 | 0.000196 | 0.003364 | 1.016783 | 0.57731 | 0.783158 | -0.20585 | 6 | 72059905 | F | II | | IGR | opensea | IGR-opense | | rs5526532 | 23;50 | | | | |
| cg2351207 | 0.222599 | 0.644511 | 6.673731 | 0.000196 | 0.003364 | 1.016356 | 0.533211 | 0.75581 | -0.2226 | 2 | 31349757 | F | II | GALNT14 | 5'UTR | opensea | 5'UTR-open | | rs5448075 | 0;1 | | | | |
| cg1799641 | 0.218008 | 0.575894 | 6.67338 | 0.000196 | 0.003365 | 1.015986 | 0.46689 | 0.684898 | -0.21801 | 18 | 44287235 | F | II | ST8SIA5 | Body | opensea | Body-opens | | rs5347249 | 15;28;42;51 | | | | |
| cg0644219 | 0.214869 | 0.377106 | 6.672545 | 0.000196 | 0.003367 | 1.015105 | 0.269672 | 0.484541 | -0.21487 | 1 | 92414344 | F | II | BRDT | TSS1500 | shore | TSS1500-sh | chr1:9241 | | | | | | |
| cg0172413 | 0.222401 | 0.667209 | 6.67102 | 0.000197 | 0.003369 | 1.013497 | 0.556009 | 0.77841 | -0.2224 | 15 | 55095991 | F | II | | IGR | opensea | IGR-opense | | rs1445033 | 37;41 | | | | |
| cg1928817 | 0.244172 | 0.624098 | 6.670783 | 0.000197 | 0.003369 | 1.013247 | 0.502012 | 0.746184 | -0.24417 | 5 | 57138658 | F | II | | IGR | opensea | IGR-opense | | rs5451952 | 1;31 | | | | |
| cg1460579 | 0.210565 | 0.680438 | 6.669636 | 0.000197 | 0.003372 | 1.012037 | 0.575155 | 0.785721 | -0.21057 | 1 | 2.49E+08 | R | II | OR2T11 | TSS1500 | opensea | TSS1500-o | | | | | | | |
| cg0994035 | 0.201095 | 0.53909 | 6.668854 | 0.000197 | 0.003373 | 1.011211 | 0.438543 | 0.639638 | -0.20109 | 15 | 62929234 | R | II | | IGR | opensea | IGR-opense | | rs1107167 | 30 | | | | |
| cg0727897 | 0.23353 | 0.506033 | 6.667221 | 0.000197 | 0.003376 | 1.009487 | 0.389268 | 0.622798 | -0.23353 | 8 | 22717823 | R | II | PEBP4 | Body | opensea | Body-opens | | rs5385562 | 33;10 | | | | |
| cg1426491 | 0.225343 | 0.326876 | 6.666803 | 0.000197 | 0.003377 | 1.009046 | 0.214204 | 0.439547 | -0.22534 | 3 | 1.86E+08 | F | II | | IGR | opensea | IGR-opense | | rs5418538 | 1;11 | | | | |
| cg1825232 | 0.225772 | 0.474304 | 6.666486 | 0.000197 | 0.003378 | 1.008712 | 0.361418 | 0.58719 | -0.22577 | 2 | 8549078 | F | II | | IGR | opensea | IGR-opense | | rs5300388 | 1;6 | | | | |
| cg1772033 | 0.22558 | 0.314812 | 6.666303 | 0.000197 | 0.003378 | 1.008519 | 0.202022 | 0.427602 | -0.22558 | 1 | 2.37E+08 | R | II | LGALS8 | Body | opensea | Body-opens | | rs5319730 | 36 | | | | |
| cg0693333 | 0.208174 | 0.650184 | 6.665243 | 0.000198 | 0.00338 | 1.007399 | 0.546097 | 0.754271 | -0.20817 | 15 | 65822313 | R | II | HACD3 | TSS1500 | shore | TSS1500-sh | chr15:658 | rs5500678 | 13 | | | | |
| cg0592415 | 0.232487 | 0.55637 | 6.663569 | 0.000198 | 0.003383 | 1.005632 | 0.440127 | 0.672613 | -0.23249 | 8 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0953854 | 0.205036 | 0.653985 | 6.663415 | 0.000198 | 0.003383 | 1.005469 | 0.551467 | 0.756503 | -0.20504 | 3 | 1.97E+08 | F | II | | IGR | opensea | IGR-opense | | rs5392340 | 6 | | | | |
| cg1454065 | 0.22407 | 0.642263 | 6.663139 | 0.000198 | 0.003384 | 1.005178 | 0.530228 | 0.754299 | -0.22407 | 9 | 6683274 | R | II | | IGR | shore | IGR-shore | chr9:6680 | rs5332944 | 48;35 | | | | |
| cg1812421 | 0.200033 | 0.622544 | 6.661979 | 0.000198 | 0.003386 | 1.003953 | 0.522527 | 0.72256 | -0.20003 | 8 | 38563189 | R | II | | IGR | opensea | IGR-opense | | rs1820947 | 51;29;22 | | | | |
| cg1415558 | 0.21437 | 0.574918 | 6.659427 | 0.000199 | 0.003389 | 1.001257 | 0.467733 | 0.682103 | -0.21437 | 10 | 50402388 | F | II | | IGR | opensea | IGR-opense | | rs5330601 | 12 | | | | |
| cg0257800 | 0.212091 | 0.632029 | 6.659193 | 0.000199 | 0.00339 | 1.00101 | 0.525984 | 0.738075 | -0.21209 | 6 | 43960080 | R | II | | IGR | opensea | IGR-opense | | rs1920719 | 30;28;24 | | | | |
| cg1521081 | 0.204091 | 0.665012 | 6.658177 | 0.000199 | 0.003392 | 0.999937 | 0.562966 | 0.767057 | -0.20409 | 1 | 36949518 | R | II | CSF3R | TSS1500 | opensea | TSS1500-o | | rs1909907 | 3 | | | | |
| cg1830630 | 0.22057 | 0.524157 | 6.655626 | 0.0002 | 0.003396 | 0.997241 | 0.413872 | 0.634441 | -0.22057 | 5 | 40813927 | F | II | | IGR | opensea | IGR-opense | | rs5570244 | 1;24;30 | | | | |
| cg1940153 | 0.201977 | 0.58298 | 6.652854 | 0.0002 | 0.0034 | 0.99431 | 0.481991 | 0.683968 | -0.20198 | 12 | 2757744 | F | II | CACNA1C | Body | opensea | Body-opens | | rs2239127 | 12;25;26;36;38 | | | | |
| cg2539770 | 0.240383 | 0.676547 | 6.650691 | 0.000201 | 0.003404 | 0.992023 | 0.556355 | 0.796738 | -0.24038 | 2 | 74973891 | R | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg1511367 | 0.212724 | 0.560652 | 6.648947 | 0.000201 | 0.003408 | 0.990178 | 0.45429 | 0.667013 | -0.21272 | 15 | 61224544 | R | II | RORA | Body | opensea | Body-opens | | rs3575158 | 20;10 | | | | |
| cg1447726 | 0.221277 | 0.596512 | 6.647574 | 0.000201 | 0.003411 | 0.988726 | 0.485874 | 0.707151 | -0.22128 | 12 | 1.18E+08 | F | II | WSB2 | Body | opensea | Body-opens | | rs5535515 | 2 | | | | |
| cg1250322 | 0.255691 | 0.512404 | 6.647528 | 0.000201 | 0.003411 | 0.988677 | 0.384558 | 0.640249 | -0.25569 | 1 | 52206444 | R | II | OSBPL9 | 5'UTR | opensea | 5'UTR-open | | | | | | | |
| cg0011066 | 0.230778 | 0.482054 | 6.647444 | 0.000201 | 0.003411 | 0.988589 | 0.366665 | 0.597443 | -0.23078 | 8 | 38220479 | F | II | WHSC1L1 | 5'UTR | opensea | 5'UTR-open | | rs1382997 | 34 | | | | |
| cg1473582 | 0.203078 | 0.636454 | 6.647189 | 0.000201 | 0.003412 | 0.988318 | 0.534915 | 0.737993 | -0.20308 | 18 | 47626463 | R | II | MYO5B | Body | opensea | Body-opens | | rs5639327 | 17;2 | | | | |
| cg2487672 | 0.203365 | 0.696919 | 6.646186 | 0.000201 | 0.003413 | 0.987257 | 0.595236 | 0.798601 | -0.20337 | 5 | 88130048 | R | II | MEF2C | 5'UTR | opensea | 5'UTR-open | | rs1480206 | 39 | | | | |
| cg0536041 | 0.204294 | 0.687501 | 6.646071 | 0.000201 | 0.003413 | 0.987135 | 0.585354 | 0.789648 | -0.20429 | 15 | 84764254 | R | II | EFTUD1P1 | Body | opensea | Body-opens | | rs7178655 | 15;8;3 | | | | |
| cg2589471 | 0.230006 | 0.668581 | 6.64456 | 0.000202 | 0.003416 | 0.985537 | 0.553578 | 0.783583 | -0.23001 | 4 | 75133599 | F | II | MTHFD2L | Body | opensea | Body-opens | | rs1685081 | 0 | | | | |
| cg2480063 | 0.209474 | 0.730299 | 6.643461 | 0.000202 | 0.003418 | 0.984373 | 0.625562 | 0.835036 | -0.20947 | 6 | 1.57E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg0918777 | 0.201567 | 0.514897 | 6.640973 | 0.000202 | 0.003423 | 0.981739 | 0.414113 | 0.61568 | -0.20157 | 10 | 30676907 | R | II | | IGR | opensea | IGR-opense | | rs1154562 | 1 | | | | |
| cg1000086 | 0.22813 | 0.627294 | 6.640328 | 0.000203 | 0.003424 | 0.981057 | 0.513229 | 0.741358 | -0.22813 | 7 | 89927944 | R | II | CFAP69 | Body | opensea | Body-opens | | | | | | | |
| cg1411395 | 0.223052 | 0.644511 | 6.640295 | 0.000203 | 0.003424 | 0.981021 | 0.532985 | 0.756037 | -0.22305 | 9 | 1.18E+08 | R | II | | IGR | opensea | IGR-opense | | rs5442140 | 10 | | | | |
| cg2622886 | 0.231796 | 0.6192 | 6.63597 | 0.000203 | 0.003432 | 0.976441 | 0.503301 | 0.735098 | -0.2318 | 3 | 3151740 | F | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | rs1858261 | 1;19 | | | | |
| cg1750789 | 0.230779 | 0.636969 | 6.635392 | 0.000204 | 0.003433 | 0.975828 | 0.52158 | 0.752358 | -0.23078 | 20 | 17943694 | R | II | SNX5 | Body | opensea | Body-opens | | rs1485609 | 2 | | | | |
| cg2542395 | 0.231152 | 0.56804 | 6.634666 | 0.000204 | 0.003434 | 0.97506 | 0.452464 | 0.683616 | -0.23115 | 5 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | rs1913498 | 49;31;2;1 | | | | |
| cg1443514 | 0.229456 | 0.609596 | 6.634237 | 0.000204 | 0.003434 | 0.974605 | 0.494868 | 0.724324 | -0.22946 | 17 | 71529741 | F | II | SDK2 | Body | opensea | Body-opens | | rs5288491 | 4 | | | | |
| cg2142461 | 0.201488 | 0.690536 | 6.63372 | 0.000204 | 0.003436 | 0.974056 | 0.589792 | 0.791279 | -0.20149 | 16 | 3635734 | F | II | SLX4 | Body | shelf | Body-shelf | chr16:363 | rs1495834 | 1 | | | | |
| cg1212445 | 0.209116 | 0.689583 | 6.630856 | 0.000205 | 0.003441 | 0.971021 | 0.585026 | 0.794141 | -0.20912 | 1 | 52726855 | R | II | ZFYVE9 | Body | opensea | Body-opens | | | | | | | |
| cg0046374 | 0.200949 | 0.681395 | 6.630534 | 0.000205 | 0.003442 | 0.97068 | 0.58092 | 0.781869 | -0.20095 | 1 | 64434320 | R | II | ROR1 | Body | opensea | Body-opens | | | | | | | |
| cg0859614 | 0.211453 | 0.667828 | 6.63009 | 0.000205 | 0.003442 | 0.970209 | 0.562102 | 0.773554 | -0.21145 | 2 | 38240625 | F | II | RMDN2 | Body | opensea | Body-opens | | | | | | | |
| cg1234626 | 0.253051 | 0.659973 | 6.628996 | 0.000205 | 0.003444 | 0.96905 | 0.533447 | 0.786498 | -0.25305 | 15 | 35331154 | R | II | | IGR | opensea | IGR-opense | | rs7916111 | 43 | | | | |
| cg0131465 | 0.211382 | 0.623362 | 6.628825 | 0.000205 | 0.003444 | 0.968868 | 0.517671 | 0.729054 | -0.21138 | 13 | 92197116 | R | II | GPC5 | Body | opensea | Body-opens | | rs5579592 | 21 | | | | |
| cg2636558 | 0.233281 | 0.645272 | 6.627582 | 0.000205 | 0.003447 | 0.96755 | 0.528632 | 0.761912 | -0.23328 | 1 | 1.72E+08 | R | II | DNM3 | Body | opensea | Body-opens | | rs5575786 | 51;49 | | | | |
| cg2103031 | 0.204466 | 0.72517 | 6.626647 | 0.000205 | 0.003448 | 0.966558 | 0.622937 | 0.827403 | -0.20447 | 13 | 50024293 | F | II | SETDB2 | TSS1500 | opensea | TSS1500-o | | rs5513777 | 0;1 | | | | |
| cg0641319 | 0.263597 | 0.593465 | 6.626558 | 0.000205 | 0.003448 | 0.966464 | 0.461666 | 0.725263 | -0.2636 | 14 | 64029351 | F | II | | IGR | opensea | IGR-opense | | | | | | | |
| cg2494672 | 0.227326 | 0.554782 | 6.625876 | 0.000206 | 0.00345 | 0.96574 | 0.441119 | 0.668445 | -0.22733 | 18 | 32398024 | R | II | DTNA | Body | opensea | Body-opens | | rs1493362 | 50;15 | | | | |
| cg1493148 | 0.233689 | 0.674498 | 6.622659 | 0.000206 | 0.003457 | 0.962327 | 0.557653 | 0.791343 | -0.23369 | 11 | 1.19E+08 | R | II | TRAPPC4 | Body | shelf | Body-shelf | chr11:1184 | rs4938621 | 30 | | | | |
| cg2539346 | 0.248406 | 0.649692 | 6.620889 | 0.000207 | 0.00346 | 0.96045 | 0.525489 | 0.773895 | -0.24841 | 12 | 1.04E+08 | R | II | C12orf42 | Body | opensea | Body-opens | | rs5731392 | 45;1 | | | | |
| cg0661668 | 0.201331 | 0.690413 | 6.619904 | 0.000207 | 0.003462 | 0.959404 | 0.589748 | 0.791079 | -0.20133 | 2 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | rs3684753 | 1 | | | | |
| cg0591316 | 0.204069 | 0.59466 | 6.618417 | 0.000207 | 0.003465 | 0.957826 | 0.492626 | 0.696695 | -0.20407 | 10 | 35514064 | F | II | | IGR | opensea | IGR-opense | | rs5554086 | 42 | | | | |
| cg1198638 | 0.200825 | 0.656551 | 6.61652 | 0.000207 | 0.003469 | 0.955811 | 0.556138 | 0.756964 | -0.20083 | 11 | 19628828 | F | II | NAV2 | Body | opensea | Body-opens | | rs1913077 | 1;22 | | | | |
| cg1437754 | 0.219606 | 0.508261 | 6.616511 | 0.000207 | 0.003469 | 0.955802 | 0.398458 | 0.618064 | -0.21961 | 15 | 66053752 | F | II | DENND4A | 5'UTR | opensea | 5'UTR-open | | rs3689945 | 1 | | | | |
| cg0929089 | 0.244686 | 0.423558 | 6.615665 | 0.000208 | 0.003471 | 0.954904 | 0.301215 | 0.545901 | -0.24469 | 9 | 19665584 | R | II | SLC24A2 | Body | opensea | Body-opens | | rs3680836 | 28;2;1 | | | | |
| cg2709522 | 0.202722 | 0.455299 | 6.615198 | 0.000208 | 0.003472 | 0.954408 | 0.353938 | 0.55666 | -0.20272 | 11 | 88090861 | R | II | | IGR | opensea | IGR-opense | | rs5614932 | 50;34 | | | | |
| cg2513072 | 0.201226 | 0.643305 | 6.612954 | 0.000208 | 0.003477 | 0.952024 | 0.542692 | 0.743918 | -0.20123 | 7 | 73483053 | F | II | ELN | 3'UTR | opensea | 3'UTR-open | | rs5725069 | 1;13 | | | | |
| cg0534315 | 0.20693 | 0.47179 | 6.612773 | 0.000208 | 0.003477 | 0.951832 | 0.368325 | 0.575255 | -0.20693 | 10 | 1.29E+08 | F | II | NPS | TSS200 | opensea | TSS200-ope | | rs1493361 | 0;1;30;42 | | | | |
| cg2130825 | 0.214107 | 0.452084 | 6.612423 | 0.000208 | 0.003478 | 0.95146 | 0.34503 | 0.559137 | -0.21411 | 7 | 1.14E+08 | F | II | | IGR | opensea | IGR-opense | | rs5649222 | 33 | | | | |
| cg1930038 | 0.203757 | 0.654103 | 6.612413 | 0.000208 | 0.003478 | 0.95145 | 0.552224 | 0.755981 | -0.20376 | 10 | 51549350 | R | II | MSMB | TSS1500 | opensea | TSS1500-o | | rs1277017 | 38;7 | | | | |
| cg0883814 | 0.211233 | 0.680227 | 6.610205 | 0.000209 | 0.003482 | 0.949103 | 0.57461 | 0.785843 | -0.21123 | 5 | 14817405 | F | II | ANKH | Body | opensea | Body-opens | | rs1379131 | 0;5;10;41 | | | | |
| cg1714101 | 0.219154 | 0.633806 | 6.608934 | 0.000209 | 0.003485 | 0.947753 | 0.524228 | 0.743383 | -0.21915 | 1 | 1.69E+08 | F | II | | IGR | opensea | IGR-opense | | rs5660502 | 28;45 | | | | |
| cg0143713 | 0.210496 | 0.612241 | 6.608405 | 0.000209 | 0.003487 | 0.94719 | 0.506994 | 0.717489 | -0.2105 | 1 | 94579396 | F | II | ABCA4 | Body | opensea | Body-opens | | rs3789439 | 30 | | | | |
| cg1787076 | 0.210426 | 0.65324 | 6.60723 | 0.000209 | 0.003489 | 0.945941 | 0.548027 | 0.758453 | -0.21043 | 6 | 20712001 | F | II | CDKAL1 | Body | opensea | Body-opens | | | | | | | |
| cg1029938 | 0.227731 | 0.489334 | 6.607186 | 0.000209 | 0.003489 | 0.945895 | 0.375469 | 0.6032 | -0.22773 | 8 | 54798735 | F | II | RGS20 | Body | shelf | Body-shelf | chr8:5479 | rs1178929 | 1 | | | | |
| cg1426570 | 0.207696 | 0.585497 | 6.605371 | 0.00021 | 0.003493 | 0.943965 | 0.481649 | 0.689345 | -0.2077 | 8 | 70740248 | R | II | SLCO5A1 | Body | shelf | Body-shelf | chr8:7074 | rs5325022 | 8;1 | | | | |
| cg0336943 | 0.21392 | 0.601595 | 6.603463 | 0.00021 | 0.003496 | 0.941937 | 0.494635 | 0.708555 | -0.21392 | 5 | 1.79E+08 | R | II | MIR340 | TSS200 | opensea | TSS200-ope | | rs1808492 | 2 | | | | |
| cg1505244 | 0.215355 | 0.524689 | 6.59877 | 0.000211 | 0.003505 | 0.936945 | 0.417011 | 0.632366 | -0.21535 | 17 | 74696872 | R | I | MXRA7 | Body | opensea | Body-opens | | rs5423163 | 37;23 | | | | |
| cg1779258 | 0.207338 | 0.667958 | 6.598252 | 0.000211 | 0.003506 | 0.936393 | 0.564289 | 0.771627 | -0.20734 | 1 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | rs1437678 | 0;1;17;20 | | | | |
| cg1135163 | 0.202029 | 0.630727 | 6.596295 | 0.000212 | 0.00351 | 0.934311 | 0.529713 | 0.731742 | -0.20203 | 15 | 67823882 | F | II | | IGR | opensea | IGR-opense | | rs5349894 | 14 | | | | |
| cg0542236 | 0.239261 | 0.749756 | 6.596192 | 0.000212 | 0.00351 | 0.934201 | 0.630126 | 0.869386 | -0.23926 | 3 | 31274615 | R | II | | IGR | opensea | IGR-opense | | rs1836011 | 43;5;1 | | | | |
| cg1714394 | 0.243846 | 0.475828 | 6.596166 | 0.000212 | 0.00351 | 0.934174 | 0.353905 | 0.597751 | -0.24385 | 12 | 1.17E+08 | R | II | FBXW8 | Body | opensea | Body-opens | | rs1458689 | 40;18;2 | | | | |
| cg0883786 | 0.213744 | 0.594528 | 6.596 | 0.000212 | 0.003511 | 0.933996 | 0.487656 | 0.7014 | -0.21374 | 10 | 1.31E+08 | F | II | | IGR | opensea | IGR-opense | | rs5705799 | 40;42 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0080430 | 0.205358 | 0.604028 | 6.595899 | 0.000212 | 0.003511 | 0.933889 | 0.501349 | 0.706707 | -0.20536 | 7 | 1.08E+08 | R | II | NRCAM | Body | opensea | Body-opens | | rs1211195 | 45;21 |
| cg2761764 | 0.229025 | 0.599546 | 6.594668 | 0.000212 | 0.003513 | 0.932578 | 0.485034 | 0.714059 | -0.22902 | 2 | 2.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5493327 | 15;1 |
| cg0128067 | 0.220451 | 0.598285 | 6.594523 | 0.000212 | 0.003513 | 0.932424 | 0.488059 | 0.708511 | -0.22045 | 1 | 2.36E+08 | F | II | ERO1B | Body | opensea | Body-opens | | rs7311722 | 0;9 |
| cg0254346 | 0.21936 | 0.533141 | 6.592511 | 0.000212 | 0.003518 | 0.930282 | 0.423461 | 0.642821 | -0.21936 | 2 | 1.14E+08 | F | II | IL1RN | TSS200 | opensea | TSS200-ope | | rs4252003 | 14;51 |
| cg1653013 | 0.221533 | 0.658515 | 6.591881 | 0.000213 | 0.003519 | 0.929611 | 0.547749 | 0.769282 | -0.22153 | 1 | 31988357 | R | II | LOC28455 | Body | opensea | Body-opens | | rs1867463 | 2;1 |
| cg0256430 | 0.202002 | 0.703966 | 6.591356 | 0.000213 | 0.00352 | 0.929052 | 0.602965 | 0.804967 | -0.202 | 3 | 98612083 | R | II | DCBLD2 | Body | opensea | Body-opens | | rs5321203 | 22 |
| cg1576578 | 0.235217 | 0.709964 | 6.589603 | 0.000213 | 0.003524 | 0.927185 | 0.592356 | 0.827573 | -0.23522 | 5 | 39224442 | R | II | FYB | Body | opensea | Body-opens | | rs1121342 | 25 |
| cg1683663 | 0.242795 | 0.344721 | 6.589181 | 0.000213 | 0.003525 | 0.926736 | 0.223323 | 0.466118 | -0.2428 | 17 | 57905956 | F | II | VMP1 | Body | opensea | Body-opens | | rs5463910 | 19 |
| cg0923631 | 0.200461 | 0.577571 | 6.588796 | 0.000213 | 0.003525 | 0.926325 | 0.477341 | 0.677801 | -0.20046 | 3 | 1.38E+08 | F | II | CLDN18 | 3'UTR | opensea | 3'UTR-open | | rs5433091 | 0 |
| cg1433946 | 0.257062 | 0.370374 | 6.587784 | 0.000214 | 0.003527 | 0.925247 | 0.241843 | 0.498905 | -0.25706 | 13 | 27927490 | R | II | | IGR | opensea | IGR-opense | | rs5274154 | 24 |
| cg1192011 | 0.200622 | 0.633452 | 6.587648 | 0.000214 | 0.003527 | 0.925102 | 0.533142 | 0.733763 | -0.20062 | 16 | 7588987 | F | II | RBFOX1 | Body | opensea | Body-opens | | rs5341715 | 0;7;25;28;43 |
| cg1375515 | 0.259518 | 0.382029 | 6.581665 | 0.000215 | 0.003539 | 0.918726 | 0.25227 | 0.511788 | -0.25952 | 11 | 33904715 | F | II | LMO2 | 5'UTR | opensea | 5'UTR-open | | rs5478470 | 12 |
| cg0255792 | 0.203389 | 0.596746 | 6.57914 | 0.000215 | 0.003544 | 0.916033 | 0.495052 | 0.698441 | -0.20339 | 2 | 595312 | F | II | | IGR | opensea | IGR-opense | | rs5385491 | 1;3;4;28;44 |
| cg1332191 | 0.215197 | 0.550746 | 6.579009 | 0.000215 | 0.003544 | 0.915893 | 0.443147 | 0.658344 | -0.2152 | 16 | 80779008 | F | II | CDYL2 | Body | opensea | Body-opens | | rs5374096 | 36 |
| cg2620073 | 0.219548 | 0.553152 | 6.578286 | 0.000216 | 0.003546 | 0.915122 | 0.443378 | 0.662926 | -0.21955 | 16 | 73768983 | F | II | | IGR | opensea | IGR-opense | | rs5401489 | 0;1 |
| cg2473204 | 0.229552 | 0.41906 | 6.577735 | 0.000216 | 0.003547 | 0.914534 | 0.304284 | 0.533836 | -0.22955 | 13 | 20994266 | F | II | CRYL1 | Body | opensea | Body-opens | | rs5376962 | 1 |
| cg0006369 | 0.211267 | 0.618193 | 6.577596 | 0.000216 | 0.003547 | 0.914386 | 0.51256 | 0.723827 | -0.21127 | 1 | 2.15E+08 | F | II | PTPN14 | Body | opensea | Body-opens | | rs1145528 | 1;30;44;45;48 |
| cg2361344 | 0.208067 | 0.540335 | 6.577296 | 0.000216 | 0.003548 | 0.914066 | 0.436301 | 0.644368 | -0.20807 | 9 | 33621065 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0009312 | 0.209922 | 0.609525 | 6.577114 | 0.000216 | 0.003548 | 0.913872 | 0.504564 | 0.714486 | -0.20992 | 2 | 2.17E+08 | R | II | LINC00607 | Body | opensea | Body-opens | | rs5525162 | 20 |
| cg0982415 | 0.201166 | 0.566323 | 6.576362 | 0.000216 | 0.00355 | 0.91307 | 0.46574 | 0.666906 | -0.20117 | 16 | 59239308 | F | II | | IGR | opensea | IGR-opense | | rs1501647 | 0 |
| cg1797801 | 0.205585 | 0.617627 | 6.574676 | 0.000216 | 0.003553 | 0.911271 | 0.514835 | 0.72042 | -0.20559 | 4 | 14171264 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0765863 | 0.206044 | 0.521064 | 6.574132 | 0.000216 | 0.003554 | 0.910691 | 0.418042 | 0.624086 | -0.20604 | 2 | 1.99E+08 | R | II | LOC10192 | Body | opensea | Body-opens | | rs5750751 | 27;1 |
| cg1964563 | 0.256951 | 0.385651 | 6.573788 | 0.000217 | 0.003555 | 0.910324 | 0.257176 | 0.514127 | -0.25695 | 1 | 1.14E+08 | F | I | SLC16A1 | TSS1500 | shore | TSS1500-sh | chr1:11134 | rs7573783 | 21;27 |
| cg2626988 | 0.228859 | 0.524645 | 6.572594 | 0.000217 | 0.003557 | 0.909049 | 0.410215 | 0.639074 | -0.22886 | 3 | 5023310 | R | II | BHLHE40 | Body | shore | Body-shore | chr3:5024 | rs5504074 | 43;6;3 |
| cg2713050 | 0.221039 | 0.583562 | 6.572241 | 0.000217 | 0.003558 | 0.908672 | 0.473042 | 0.694081 | -0.22104 | 8 | 80239495 | F | II | | IGR | opensea | IGR-opense | | rs7737767 | 0;38 |
| cg0241880 | 0.25428 | 0.466236 | 6.571803 | 0.000217 | 0.003559 | 0.908205 | 0.339096 | 0.593376 | -0.25428 | 12 | 94766510 | F | II | CEP83 | Body | opensea | Body-opens | | rs5698437 | 0 |
| cg0006043 | 0.20081 | 0.725193 | 6.571589 | 0.000217 | 0.00356 | 0.907976 | 0.624788 | 0.825598 | -0.20081 | 6 | 6952071 | F | II | | IGR | opensea | IGR-opense | | rs5301998 | 31;41 |
| cg0376700 | 0.207895 | 0.492257 | 6.571115 | 0.000217 | 0.003561 | 0.907471 | 0.388309 | 0.596204 | -0.20789 | 1 | 2.3E+08 | R | II | GALNT2 | Body | opensea | Body-opens | | rs5426432 | 47 |
| cg1065588 | 0.216534 | 0.458282 | 6.570888 | 0.000217 | 0.003561 | 0.907228 | 0.350015 | 0.56655 | -0.21653 | 20 | 5824213 | F | II | C20orf196 | Body | opensea | Body-opens | | | |
| cg1222936 | 0.205831 | 0.605975 | 6.565924 | 0.000218 | 0.003572 | 0.901927 | 0.50306 | 0.708891 | -0.20583 | 4 | 1.84E+08 | R | II | WWC2 | Body | opensea | Body-opens | | rs5568124 | 17 |
| cg1357148 | 0.237498 | 0.503346 | 6.565787 | 0.000218 | 0.003572 | 0.901781 | 0.384597 | 0.622095 | -0.2375 | 12 | 1.11E+08 | F | II | ATP2A2 | Body | opensea | Body-opens | | | |
| cg1893207 | 0.202527 | 0.649484 | 6.56511 | 0.000218 | 0.003574 | 0.901058 | 0.548221 | 0.750748 | -0.20253 | 11 | 64464117 | F | II | NRXN2 | Body | opensea | Body-opens | | rs5519097 | 25;33 |
| cg0263295 | 0.236954 | 0.541355 | 6.564652 | 0.000219 | 0.003575 | 0.900568 | 0.422878 | 0.659832 | -0.23695 | 3 | 1.9E+08 | F | II | | IGR | opensea | IGR-opense | | rs5638427 | 29;50 |
| cg0724910 | 0.213987 | 0.67988 | 6.562624 | 0.000219 | 0.003578 | 0.898402 | 0.572887 | 0.786873 | -0.21399 | 2 | 1.92E+08 | R | II | MYO1B | Body | opensea | Body-opens | | rs5301613 | 41;10;2 |
| cg2690992 | 0.221561 | 0.476002 | 6.562124 | 0.000219 | 0.003579 | 0.897867 | 0.365222 | 0.586782 | -0.22156 | 6 | 1.13E+08 | F | II | LAMA4 | Body | opensea | Body-opens | | rs1385178 | 1 |
| cg2715794 | 0.200402 | 0.673273 | 6.561178 | 0.000219 | 0.003581 | 0.896857 | 0.573072 | 0.773474 | -0.2004 | 5 | 1.59E+08 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5561088 | 11;24 |
| cg0306735 | 0.221017 | 0.651981 | 6.560213 | 0.000219 | 0.003582 | 0.895825 | 0.541473 | 0.76249 | -0.22102 | 13 | 25433377 | F | II | RNF17 | Body | opensea | Body-opens | | rs5350646 | 10;12;25 |
| cg1001303 | 0.201378 | 0.714902 | 6.558435 | 0.00022 | 0.003587 | 0.893924 | 0.614213 | 0.815591 | -0.20138 | 3 | 1.23E+08 | R | II | MYLK-AS1 | Body | opensea | Body-opens | | rs1423825 | 44;16;2 |
| cg0584485 | 0.208352 | 0.65899 | 6.557769 | 0.00022 | 0.003589 | 0.893212 | 0.554814 | 0.763166 | -0.20835 | 3 | 1.32E+08 | F | II | NCRNA001 | Body | shelf | Body-shelf | chr3:1324 | rs5686061 | 0;13 |
| cg0343158 | 0.200088 | 0.604496 | 6.557192 | 0.00022 | 0.00359 | 0.892596 | 0.504452 | 0.704541 | -0.20009 | 13 | 50929952 | R | II | DLEU1 | Body | opensea | Body-opens | | rs5486753 | 33 |
| cg0399615 | 0.249103 | 0.558067 | 6.556904 | 0.00022 | 0.003591 | 0.892288 | 0.433516 | 0.682619 | -0.2491 | 9 | 1.24E+08 | R | II | STOM | Body | shore | Body-shore | chr9:1241 | rs1395021 | 24 |
| cg1912461 | 0.230555 | 0.711941 | 6.554766 | 0.000221 | 0.003595 | 0.890002 | 0.596663 | 0.827218 | -0.23056 | 6 | 53728158 | R | II | LRRC1 | Body | opensea | Body-opens | | rs5447431 | 2;1 |
| cg2610007 | 0.214328 | 0.499898 | 6.554348 | 0.000221 | 0.003596 | 0.889554 | 0.392733 | 0.607062 | -0.21433 | 11 | 17493151 | R | II | ABCC8 | Body | opensea | Body-opens | | rs1445225 | 20;17;1 |
| cg1039357 | 0.201118 | 0.4837 | 6.552969 | 0.000221 | 0.003598 | 0.888078 | 0.383141 | 0.584259 | -0.20112 | 20 | 31880141 | F | II | BPIFB1 | Body | opensea | Body-opens | | rs1885750 | 0;1;3;20 |
| cg0174218 | 0.263159 | 0.536212 | 6.552807 | 0.000221 | 0.003598 | 0.887905 | 0.404633 | 0.667792 | -0.26316 | 9 | 6566568 | F | II | GLDC | Body | opensea | Body-opens | | rs1821660 | 7;34;38;48 |
| cg0466143 | 0.206862 | 0.589198 | 6.551128 | 0.000221 | 0.003602 | 0.886109 | 0.485767 | 0.692629 | -0.20686 | 15 | 79169207 | F | II | MORF4L1 | Body | shelf | Body-shelf | chr15:791 | | |
| cg2735277 | 0.218122 | 0.621085 | 6.550204 | 0.000222 | 0.003603 | 0.88512 | 0.512024 | 0.730146 | -0.21812 | 6 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0355520 | 0.209921 | 0.655688 | 6.544387 | 0.000223 | 0.003615 | 0.878893 | 0.550728 | 0.760649 | -0.20992 | 1 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0777779 | 0.222829 | 0.618063 | 6.542446 | 0.000223 | 0.003619 | 0.876814 | 0.506648 | 0.729477 | -0.22283 | 2 | 2.33E+08 | F | II | ALPPL2 | TSS1500 | shore | TSS1500-sh | chr2:2332 | rs5382976 | 15;41 |
| cg2615944 | 0.212845 | 0.542036 | 6.541178 | 0.000224 | 0.003622 | 0.875456 | 0.435614 | 0.648459 | -0.21285 | 2 | 33217280 | R | II | LTBP1 | Body | opensea | Body-opens | | rs219156 | 11 |
| cg1786256 | 0.203922 | 0.625758 | 6.541109 | 0.000224 | 0.003622 | 0.875382 | 0.523797 | 0.727719 | -0.20392 | 2 | 37733760 | R | II | | IGR | opensea | IGR-opense | | rs7740694 | 51;40;22;2 |
| cg0780011 | 0.229604 | 0.571092 | 6.539029 | 0.000224 | 0.003626 | 0.873154 | 0.45629 | 0.685895 | -0.2296 | 9 | 1.16E+08 | F | II | RGS3 | TSS200 | opensea | TSS200-ope | | rs1910361 | 10 |
| cg0781901 | 0.210088 | 0.679675 | 6.537933 | 0.000224 | 0.003628 | 0.871979 | 0.574631 | 0.784719 | -0.21009 | 11 | 46619375 | F | II | | IGR | shelf | IGR-shelf | chr11:466 | rs5528706 | 45 |
| cg1471066 | 0.220021 | 0.605947 | 6.537078 | 0.000225 | 0.00363 | 0.871063 | 0.495937 | 0.715958 | -0.22002 | 2 | 1.61E+08 | F | II | PLA2R1 | 3'UTR | opensea | 3'UTR-open | | | |
| cg0116461 | 0.217137 | 0.662337 | 6.535759 | 0.000225 | 0.003633 | 0.869649 | 0.553769 | 0.770906 | -0.21714 | 16 | 79184978 | R | II | WWOX | Body | opensea | Body-opens | | rs3762678 | 38;20;2 |
| cg2658237 | 0.251606 | 0.481975 | 6.5335 | 0.000225 | 0.003638 | 0.867227 | 0.356172 | 0.607778 | -0.25161 | 4 | 4639639 | R | II | STX18-AS1 | Body | opensea | Body-opens | | rs5517322 | 29;28;23;1 |
| cg0267283 | 0.256449 | 0.521534 | 6.533432 | 0.000225 | 0.003638 | 0.867155 | 0.39331 | 0.649759 | -0.25645 | 8 | 6286451 | R | II | MCPH1 | Body | opensea | Body-opens | | rs7935276 | 36;22;20;16 |
| cg2184943 | 0.200128 | 0.597613 | 6.532523 | 0.000226 | 0.00364 | 0.866179 | 0.497549 | 0.697677 | -0.20013 | 6 | 1.66E+08 | R | II | | IGR | opensea | IGR-opense | | rs5485429 | 36;22;20;11;2;1 |
| cg1323989 | 0.21083 | 0.536953 | 6.531476 | 0.000226 | 0.003642 | 0.865057 | 0.431538 | 0.642368 | -0.21083 | 7 | 81040017 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2349143 | 0.212439 | 0.555768 | 6.530253 | 0.000226 | 0.003645 | 0.863746 | 0.449548 | 0.661987 | -0.21244 | 2 | 37879685 | R | II | CDC42EP3 | 5'UTR | opensea | 5'UTR-open | | rs1383865 | 51 |
| cg1651697 | 0.216621 | 0.761055 | 6.52763 | 0.000227 | 0.00365 | 0.860931 | 0.652745 | 0.869365 | -0.21662 | 8 | 1.03E+08 | F | II | NCALD | 5'UTR | opensea | 5'UTR-open | | | |
| cg1618257 | 0.216898 | 0.650965 | 6.52741 | 0.000227 | 0.003651 | 0.860695 | 0.542516 | 0.759414 | -0.2169 | 21 | 16126051 | R | II | | IGR | opensea | IGR-opense | | rs2822903 | 41;21;5 |
| cg1294537 | 0.2099 | 0.67125 | 6.525558 | 0.000227 | 0.003654 | 0.858708 | 0.5663 | 0.7762 | -0.2099 | 3 | 1.97E+08 | R | II | PIGZ | 5'UTR | opensea | 5'UTR-open | | rs3696536 | 50;2 |
| cg0764498 | 0.201267 | 0.599934 | 6.524682 | 0.000227 | 0.003656 | 0.857767 | 0.499301 | 0.700567 | -0.20127 | 3 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs5458442 | 0;31 |
| cg0345809 | 0.201772 | 0.607595 | 6.522917 | 0.000228 | 0.003659 | 0.855872 | 0.506709 | 0.70848 | -0.20177 | 10 | 1.29E+08 | F | II | DOCK1 | Body | opensea | Body-opens | | rs5348742 | 1;2 |
| cg1330608 | 0.202303 | 0.597009 | 6.522533 | 0.000228 | 0.00366 | 0.855461 | 0.495858 | 0.698161 | -0.2023 | 12 | 79120039 | F | II | | IGR | opensea | IGR-opense | | rs1890856 | 1;25;44 |
| cg0388225 | 0.243862 | 0.491706 | 6.518988 | 0.000229 | 0.003667 | 0.851654 | 0.369775 | 0.613637 | -0.24386 | 2 | 8453221 | F | II | LINC00299 | Body | opensea | Body-opens | | rs3704664 | 34 |
| cg1736601 | 0.205786 | 0.588809 | 6.5165 | 0.000229 | 0.003671 | 0.848981 | 0.485916 | 0.691702 | -0.20579 | 10 | 1.25E+08 | F | II | IKZF5 | Body | opensea | Body-opens | | rs5416002 | 20;38 |
| cg1116429 | 0.241648 | 0.506582 | 6.515905 | 0.000229 | 0.003673 | 0.848342 | 0.385759 | 0.627406 | -0.24165 | 16 | 56817380 | R | II | NUP93 | TSS200 | opensea | TSS200-ope | | | |
| cg1428038 | 0.211597 | 0.646151 | 6.515081 | 0.00023 | 0.003674 | 0.847457 | 0.540352 | 0.75195 | -0.2116 | 12 | 96094182 | F | II | NTN4 | Body | opensea | Body-opens | | rs1172307 | 22;24;32;49 |
| cg0709452 | 0.224207 | 0.601103 | 6.512946 | 0.00023 | 0.003679 | 0.845162 | 0.488999 | 0.713207 | -0.22421 | 11 | 1.32E+08 | F | II | | IGR | opensea | IGR-opense | | rs8020585 | 0;30 |
| cg0178509 | 0.252179 | 0.606044 | 6.512557 | 0.00023 | 0.00368 | 0.844744 | 0.479954 | 0.732134 | -0.25218 | 8 | 22756144 | F | II | PEBP4 | Body | opensea | Body-opens | | rs1415635 | 1;45;48;50 |
| cg1378713 | 0.208758 | 0.434427 | 6.511798 | 0.00023 | 0.003681 | 0.843928 | 0.330048 | 0.538806 | -0.20876 | 14 | 21270407 | R | II | RNASE1 | 5'UTR | opensea | 5'UTR-open | | rs5391772 | 19;2 |
| cg1142235 | 0.203441 | 0.631987 | 6.509039 | 0.000231 | 0.003687 | 0.840962 | 0.530267 | 0.733708 | -0.20344 | 11 | 1.08E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0388709 | 0.20661 | 0.65191 | 6.506994 | 0.000232 | 0.003691 | 0.838763 | 0.548605 | 0.755215 | -0.20661 | 3 | 32002750 | F | II | OSBPL10 | Body | opensea | Body-opens | | rs5624645 | 1;46 |
| cg1570678 | 0.202286 | 0.605661 | 6.506307 | 0.000232 | 0.003693 | 0.838024 | 0.504518 | 0.706804 | -0.20229 | 12 | 1336248 | R | II | ERC1 | Body | opensea | Body-opens | | rs1907127 | 1 |
| cg1047182 | 0.210803 | 0.53724 | 6.505573 | 0.000232 | 0.003695 | 0.837234 | 0.431838 | 0.642641 | -0.2108 | 16 | 73557323 | R | II | | IGR | opensea | IGR-opense | | rs5551939 | 50;45;13;2;1 |
| cg1934725 | 0.207326 | 0.711965 | 6.505036 | 0.000232 | 0.003696 | 0.836656 | 0.608301 | 0.815628 | -0.20733 | 8 | 11706360 | F | II | CTSB | Body | opensea | Body-opens | | rs1127696 | 0;1;8;37;40 |
| cg1650818 | 0.23734 | 0.496406 | 6.504989 | 0.000232 | 0.003696 | 0.836605 | 0.377736 | 0.615076 | -0.23734 | 2 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5585572 | 44;1 |
| cg1128340 | 0.216595 | 0.647771 | 6.503781 | 0.000232 | 0.003699 | 0.835306 | 0.539474 | 0.756068 | -0.21659 | 19 | 18972137 | R | II | UPF1 | Body | opensea | Body-opens | | rs5642350 | 1 |
| cg0869041 | 0.203405 | 0.615164 | 6.503135 | 0.000232 | 0.0037 | 0.83461 | 0.513461 | 0.716866 | -0.2034 | 3 | 9240454 | R | II | SRGAP3 | Body | opensea | Body-opens | | rs1918263 | 44;1 |
| cg0648151 | 0.220035 | 0.455539 | 6.503013 | 0.000233 | 0.0037 | 0.83448 | 0.345522 | 0.565557 | -0.22003 | 2 | 49084769 | F | II | | IGR | opensea | IGR-opense | | rs5719601 | 1;37 |
| cg1305739 | 0.203603 | 0.525491 | 6.500356 | 0.000233 | 0.003706 | 0.83162 | 0.42369 | 0.627293 | -0.2036 | 5 | 24813952 | R | II | | IGR | opensea | IGR-opense | | rs1864219 | 42 |
| cg1307181 | 0.203124 | 0.62626 | 6.499995 | 0.000233 | 0.003707 | 0.831232 | 0.524698 | 0.727821 | -0.20312 | 3 | 81347939 | F | II | | IGR | opensea | IGR-opense | | rs6775805 | 7 |
| cg1848967 | 0.206125 | 0.436412 | 6.499712 | 0.000233 | 0.003707 | 0.830927 | 0.33335 | 0.539475 | -0.20613 | 10 | 1408561 | F | II | ADARB2 | Body | shelf | Body-shelf | chr10:140 | rs1140921 | 0;20;23;26 |
| cg0269811 | 0.215575 | 0.524256 | 6.497614 | 0.000234 | 0.003711 | 0.828668 | 0.416468 | 0.632043 | -0.21558 | 3 | 1.56E+08 | R | II | | IGR | opensea | IGR-opense | | rs7387370 | 18 |
| cg0376676 | 0.218017 | 0.614889 | 6.497041 | 0.000234 | 0.003713 | 0.82805 | 0.50588 | 0.723897 | -0.21802 | 11 | 1.25E+08 | R | II | PKNOX2 | 5'UTR | opensea | 5'UTR-open | | | |
| cg2113683 | 0.204003 | 0.551863 | 6.496622 | 0.000234 | 0.003714 | 0.8276 | 0.449862 | 0.653865 | -0.204 | 11 | 37711573 | R | II | | IGR | opensea | IGR-opense | | rs5343039 | 29;28;1 |
| cg1383157 | 0.264091 | 0.524155 | 6.494373 | 0.000235 | 0.003719 | 0.825177 | 0.392109 | 0.6562 | -0.26409 | 15 | 48834416 | R | II | FBN1 | Body | opensea | Body-opens | | rs1843965 | 2;1 |
| cg2759206 | 0.201859 | 0.553498 | 6.493625 | 0.000235 | 0.003721 | 0.824372 | 0.452568 | 0.654427 | -0.20186 | 12 | 40731085 | R | II | LRRK2 | Body | opensea | Body-opens | | rs5662758 | 45;41;27 |
| cg1229364 | 0.222225 | 0.689324 | 6.492831 | 0.000235 | 0.003722 | 0.823516 | 0.578212 | 0.800436 | -0.22222 | 14 | 85859960 | R | II | LINC00911 | TSS1500 | opensea | TSS1500-op | | rs1899435 | 24;3 |
| cg0581492 | 0.215746 | 0.617454 | 6.492659 | 0.000235 | 0.003723 | 0.823331 | 0.509581 | 0.725327 | -0.21575 | 8 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs5393526 | 6 |
| cg0836323 | 0.227457 | 0.602024 | 6.490453 | 0.000235 | 0.003727 | 0.820954 | 0.488295 | 0.715753 | -0.22746 | 10 | 52176831 | R | II | SGMS1 | 5'UTR | shore | 5'UTR-shor | chr10:521 | rs1162081 | 31 |
| cg1016849 | 0.245701 | 0.702635 | 6.490118 | 0.000236 | 0.003727 | 0.820593 | 0.579785 | 0.825486 | -0.2457 | 3 | 1.88E+08 | R | II | | IGR | opensea | IGR-opense | | rs5583051 | 51;24;14 |
| cg0355493 | 0.200119 | 0.719749 | 6.489584 | 0.000236 | 0.003729 | 0.820018 | 0.61969 | 0.819808 | -0.20012 | 3 | 69253935 | R | II | FRMD4B | Body | opensea | Body-opens | | | |
| cg0043240 | 0.200991 | 0.518036 | 6.488523 | 0.000236 | 0.003731 | 0.818874 | 0.417541 | 0.618531 | -0.20099 | 5 | 1.81E+08 | F | II | | IGR | opensea | IGR-opense | | rs1808494 | 37 |
| cg0650212 | 0.21327 | 0.628721 | 6.488441 | 0.000236 | 0.003731 | 0.818785 | 0.522086 | 0.735356 | -0.21327 | 21 | 35796374 | F | II | | IGR | opensea | IGR-opense | | rs5376233 | 24 |
| cg0811017 | 0.206223 | 0.366722 | 6.487984 | 0.000236 | 0.003732 | 0.818293 | 0.263611 | 0.469834 | -0.20622 | 11 | 72474129 | R | II | STARD10 | Body | opensea | Body-opens | | rs5533226 | 24;1 |
| cg2335263 | 0.202812 | 0.653633 | 6.485117 | 0.000237 | 0.003738 | 0.815201 | 0.552227 | 0.755039 | -0.20281 | 11 | 37470559 | R | II | | IGR | opensea | IGR-opense | | rs5635047 | 51 |
| cg1397242 | 0.21127 | 0.605863 | 6.48428 | 0.000237 | 0.00374 | 0.814299 | 0.500228 | 0.711497 | -0.21127 | 7 | 1.17E+08 | R | II | | IGR | opensea | IGR-opense | | rs5296211 | 10;2 |
| cg1738824 | 0.256352 | 0.668547 | 6.482994 | 0.000237 | 0.003743 | 0.812912 | 0.540371 | 0.796723 | -0.25635 | 11 | 34645707 | R | II | EHF | 5'UTR | opensea | 5'UTR-open | | rs5546780 | 42;12;1 |
| cg2754467 | 0.206418 | 0.564011 | 6.481118 | 0.000238 | 0.003747 | 0.810888 | 0.460802 | 0.66722 | -0.20642 | 10 | 1.3E+08 | F | II | CLRN3 | Body | opensea | Body-opens | | rs1143098 | 18;46 |
| cg1207370 | 0.200222 | 0.666434 | 6.480961 | 0.000238 | 0.003748 | 0.810719 | 0.566322 | 0.766545 | -0.20022 | 1 | 72131812 | R | II | NEGR1 | Body | opensea | Body-opens | | rs5632082 | 10 |
| cg0344325 | 0.204582 | 0.706041 | 6.479723 | 0.000238 | 0.003751 | 0.809384 | 0.60375 | 0.808332 | -0.20458 | 4 | 1.7E+08 | R | II | PALLD | 5'UTR | opensea | 5'UTR-open | | rs3757759 | 1 |
| cg2340479 | 0.233136 | 0.547571 | 6.479238 | 0.000238 | 0.003752 | 0.80886 | 0.431003 | 0.664139 | -0.23314 | 1 | 56919329 | R | II | | IGR | opensea | IGR-opense | | rs5501905 | 12;4 |
| cg2124141 | 0.29139 | 0.519152 | 6.478471 | 0.000238 | 0.003753 | 0.808032 | 0.373457 | 0.664846 | -0.29139 | 2 | 43267816 | F | II | | IGR | opensea | IGR-opense | | rs5308796 | 9;20;42 |
| cg1660601 | 0.234534 | 0.365106 | 6.478233 | 0.000238 | 0.003754 | 0.807775 | 0.247839 | 0.482373 | -0.23453 | 1 | 1.6E+08 | R | II | DCAF8 | TSS1500 | shore | TSS1500-sh | chr1:1602 | rs1426215 | 29 |
| cg1337345 | 0.227867 | 0.488483 | 6.476879 | 0.000239 | 0.003757 | 0.806314 | 0.374549 | 0.602417 | -0.22787 | 11 | 1.24E+08 | R | II | | IGR | opensea | IGR-opense | | rs5443272 | 1 |
| cg2244394 | 0.201989 | 0.578097 | 6.476473 | 0.000239 | 0.003759 | 0.805876 | 0.477102 | 0.679091 | -0.20199 | 6 | 1.22E+08 | R | II | | IGR | opensea | IGR-opense | | rs1908318 | 10 |
| cg0769997 | 0.215465 | 0.694908 | 6.473333 | 0.00024 | 0.003766 | 0.802485 | 0.587175 | 0.80264 | -0.21546 | 12 | 63194001 | R | II | PPM1H | Body | shore | Body-shore | chr12:631 | | |
| cg0376626 | 0.235878 | 0.645058 | 6.472507 | 0.00024 | 0.003767 | 0.801594 | 0.527119 | 0.762997 | -0.23588 | 12 | 27396229 | F | II | STK38L | TSS1500 | shore | TSS1500-sh | chr12:273 | | |
| cg1651595 | 0.226845 | 0.596048 | 6.466592 | 0.000241 | 0.00378 | 0.795203 | 0.482625 | 0.70947 | -0.22685 | 6 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | rs1869864 | 2;1 |
| cg0141465 | 0.217359 | 0.379598 | 6.46592 | 0.000241 | 0.003781 | 0.794477 | 0.270919 | 0.488278 | -0.21736 | 6 | 15776970 | F | II | | IGR | opensea | IGR-opense | | rs5317943 | 1;7;49 |
| cg1415263 | 0.211433 | 0.651693 | 6.462112 | 0.000242 | 0.003789 | 0.79036 | 0.545976 | 0.757409 | -0.21143 | 7 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0032942 | 0.245926 | 0.496671 | 6.461911 | 0.000242 | 0.00379 | 0.790143 | 0.373707 | 0.619634 | -0.24593 | 3 | 38193513 | F | II | | IGR | opensea | IGR-opense | | rs5611060 | 18 |
| cg1647116 | 0.219185 | 0.63325 | 6.459726 | 0.000243 | 0.003794 | 0.78778 | 0.523658 | 0.742843 | -0.21918 | 5 | 1.24E+08 | R | II | LINC01170 | Body | opensea | Body-opens | | rs5520728 | 34;20;11;2;1 |
| cg2421127 | 0.202231 | 0.467378 | 6.459481 | 0.000243 | 0.003794 | 0.787515 | 0.366262 | 0.568493 | -0.20223 | 14 | 1.01E+08 | F | II | WDR25 | Body | opensea | Body-opens | | rs5416025 | 30 |
| cg1475375 | 0.219257 | 0.599078 | 6.459301 | 0.000243 | 0.003795 | 0.78732 | 0.489449 | 0.708706 | -0.21926 | 3 | 1.28E+08 | R | II | KBTBD12 | Body | opensea | Body-opens | | rs5493902 | 1 |
| cg1098514 | 0.20498 | 0.6528 | 6.458106 | 0.000243 | 0.003798 | 0.786028 | 0.55031 | 0.75529 | -0.20498 | 5 | 1.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs1393730 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1663493 | 0.2521 | 0.552695 | 6.458017 | 0.000243 | 0.003798 | 0.785932 | 0.426645 | 0.678745 | -0.2521 | 10 | 35033892 | F | II | PARD3 | Body | opensea | Body-opens | | rs1881855 | 1 | | | |
| cg0973270 | 0.215493 | 0.59449 | 6.4579 | 0.000243 | 0.003798 | 0.785806 | 0.486743 | 0.702236 | -0.21549 | 8 | 1.31E+08 | R | II | CCDC26 | Body | opensea | Body-opens | | rs56256422 | 4;16;6 | | | |
| cg1909649 | 0.200366 | 0.550797 | 6.457544 | 0.000243 | 0.003799 | 0.78542 | 0.450614 | 0.65098 | -0.20037 | 11 | 1.05E+08 | R | II | | IGR | opensea | IGR-opense | | rs7922180 | 26 | | | |
| cg1702789 | 0.203242 | 0.497593 | 6.457006 | 0.000244 | 0.0038 | 0.784838 | 0.395973 | 0.599214 | -0.20324 | 5 | 14185523 | F | II | TRIO | Body | opensea | Body-opens | | rs1384397 | 0;1;12 | | | |
| cg0052041 | 0.213938 | 0.614135 | 6.455385 | 0.000244 | 0.003804 | 0.783083 | 0.507165 | 0.721104 | -0.21394 | 16 | 81558154 | R | II | CMIP | Body | opensea | Body-opens | | rs5331977 | 49;48;31;27;2 | | | |
| cg0893093 | 0.231099 | 0.59604 | 6.453913 | 0.000244 | 0.003807 | 0.781491 | 0.480491 | 0.71159 | -0.2311 | 10 | 64755207 | F | II | | IGR | opensea | IGR-opense | | rs1446983 | 16;40 | | | |
| cg0588627 | 0.212391 | 0.545954 | 6.44983 | 0.000245 | 0.003817 | 0.77707 | 0.439758 | 0.652149 | -0.21239 | 17 | 1444869 | F | II | PITPNA | ExonBnd | opensea | ExonBnd-o | | | | | | |
| cg1080009 | 0.220476 | 0.331741 | 6.449376 | 0.000245 | 0.003818 | 0.776579 | 0.221503 | 0.441979 | -0.22048 | 7 | 30362971 | F | II | ZNRF2 | Body | opensea | Body-opens | | rs1169602 | 0;1;9;23 | | | |
| cg2389580 | 0.214152 | 0.728306 | 6.448661 | 0.000246 | 0.003819 | 0.775804 | 0.62123 | 0.835382 | -0.21415 | 6 | 1.38E+08 | R | II | LOC10013( | Body | opensea | Body-opens | | | | | | |
| cg2068996 | 0.268681 | 0.473478 | 6.446924 | 0.000246 | 0.003824 | 0.773924 | 0.339137 | 0.607818 | -0.26868 | 1 | 28390766 | R | II | EYA3 | Body | opensea | Body-opens | | rs1430206 | 36;1 | | | |
| cg1754786 | 0.208762 | 0.606949 | 6.445385 | 0.000246 | 0.003826 | 0.772256 | 0.502569 | 0.71133 | -0.20876 | 5 | 1.22E+08 | F | II | | IGR | shelf | IGR-shelf | chr5:12164 | rs1167851 | 1 | | | |
| cg2322796 | 0.203385 | 0.632898 | 6.444817 | 0.000247 | 0.003828 | 0.771641 | 0.531205 | 0.73459 | -0.20338 | 9 | 686786 | R | II | KANK1 | Body | opensea | Body-opens | | rs7364280 | 37;35;16;1 | | | |
| cg0752599 | 0.214254 | 0.500197 | 6.441669 | 0.000247 | 0.003835 | 0.768229 | 0.393069 | 0.607324 | -0.21425 | 12 | 19339383 | R | II | PLEKHA5 | Body | opensea | Body-opens | | rs5616523 | 10;2 | | | |
| cg1585232 | 0.211751 | 0.727453 | 6.440931 | 0.000248 | 0.003837 | 0.76743 | 0.621577 | 0.833328 | -0.21175 | 18 | 68025432 | F | II | | IGR | opensea | IGR-opense | | rs1405014 | 0;37 | | | |
| cg2231140 | 0.202731 | 0.626879 | 6.438911 | 0.000248 | 0.003842 | 0.76524 | 0.525514 | 0.728245 | -0.20273 | 4 | 82379898 | R | II | RASGEF1B | Body | opensea | Body-opens | | rs5675265 | 41;1 | | | |
| cg1022434 | 0.208815 | 0.451963 | 6.437882 | 0.000248 | 0.003844 | 0.764123 | 0.347555 | 0.556371 | -0.20882 | 2 | 82461714 | R | II | | IGR | opensea | IGR-opense | | rs1338412 | 9 | | | |
| cg1339125 | 0.22633 | 0.592106 | 6.437305 | 0.000249 | 0.003845 | 0.763498 | 0.478941 | 0.705271 | -0.22633 | 5 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | | rs5585584 | 42;38;18 | | | |
| cg1607080 | 0.250518 | 0.632492 | 6.4369 | 0.000249 | 0.003846 | 0.763058 | 0.507233 | 0.757752 | -0.25052 | 17 | 40196866 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1771744 | 0.200123 | 0.563906 | 6.435515 | 0.000249 | 0.003849 | 0.761556 | 0.463845 | 0.663968 | -0.20012 | 13 | 39723059 | F | II | | IGR | opensea | IGR-opense | | rs1928366 | 1;9;12;13;17;21;41 | | | |
| cg2332782 | 0.207648 | 0.508629 | 6.433871 | 0.000249 | 0.003852 | 0.759774 | 0.404805 | 0.612453 | -0.20765 | 2 | 1.6E+08 | R | II | TANC1 | Body | opensea | Body-opens | | rs5565265 | 10;5 | | | |
| cg0348483 | 0.202016 | 0.603345 | 6.433345 | 0.00025 | 0.003853 | 0.759203 | 0.502337 | 0.704353 | -0.20202 | 7 | 30697901 | R | II | CRHR2 | Body | opensea | Body-opens | | | | | | |
| cg0011279 | 0.209052 | 0.709475 | 6.432536 | 0.00025 | 0.003855 | 0.758325 | 0.604949 | 0.814001 | -0.20905 | 13 | 28639071 | F | II | FLT3 | Body | opensea | Body-opens | | rs5608612 | 19 | | | |
| cg0480905 | 0.220145 | 0.586511 | 6.432308 | 0.00025 | 0.003855 | 0.758077 | 0.476438 | 0.696583 | -0.22014 | 14 | 99159371 | F | II | | IGR | opensea | IGR-opense | | rs6198130 | 1;48 | | | |
| cg1338876 | 0.228 | 0.465174 | 6.431745 | 0.00025 | 0.003857 | 0.757467 | 0.351174 | 0.579174 | -0.228 | 3 | 1.6E+08 | R | II | | IGR | opensea | IGR-opense | | rs3721659 | 41;24;2 | | | |
| cg1421889 | 0.221851 | 0.653765 | 6.431286 | 0.00025 | 0.003857 | 0.756969 | 0.54284 | 0.764691 | -0.22185 | 7 | 16853004 | F | II | | IGR | opensea | IGR-opense | | rs5723747 | 0;4 | | | |
| cg0292561 | 0.2304 | 0.379093 | 6.426871 | 0.000251 | 0.003867 | 0.752176 | 0.263894 | 0.494293 | -0.2304 | 1 | 70970229 | R | II | | IGR | opensea | IGR-opense | | rs5481548 | 49;39;32;30;1 | | | |
| cg0806798 | 0.216674 | 0.54278 | 6.425255 | 0.000252 | 0.00387 | 0.750421 | 0.434443 | 0.651117 | -0.21667 | 13 | 1.12E+08 | R | II | ANKRD10 | Body | opensea | Body-opens | | rs1499955 | 7;1 | | | |
| cg0110836 | 0.211795 | 0.571968 | 6.42494 | 0.000252 | 0.003871 | 0.750079 | 0.466071 | 0.677866 | -0.21179 | 5 | 1.79E+08 | R | II | | IGR | shelf | IGR-shelf | chr5:17897 | rs5287818 | 2;1 | | | |
| cg2453311 | 0.270113 | 0.570663 | 6.424885 | 0.000252 | 0.003871 | 0.75002 | 0.435607 | 0.70572 | -0.27011 | 2 | 54622005 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0616974 | 0.228639 | 0.509325 | 6.424252 | 0.000252 | 0.003872 | 0.749332 | 0.395005 | 0.623644 | -0.22864 | 3 | 1.19E+08 | F | II | | IGR | shelf | IGR-shelf | chr3:11947 | rs8017323 | 0;1;28 | | | |
| cg0092858 | 0.205422 | 0.662014 | 6.422501 | 0.000252 | 0.003876 | 0.74743 | 0.559303 | 0.764725 | -0.20542 | 1 | 1.45E+08 | R | II | SEC22B | Body | opensea | Body-opens | | rs5877680 | 2 | | | |
| cg0765782 | 0.200437 | 0.602883 | 6.422276 | 0.000252 | 0.003877 | 0.747185 | 0.502664 | 0.703102 | -0.20044 | 2 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5514396 | 0;1;20;32;38 | | | |
| cg2297424 | 0.214855 | 0.449044 | 6.420812 | 0.000253 | 0.00388 | 0.745594 | 0.341617 | 0.556472 | -0.21485 | 8 | 1.34E+08 | R | II | TG | Body | opensea | Body-opens | | rs1472662 | 42;41;2 | | | |
| cg2589143 | 0.201052 | 0.62751 | 6.42045 | 0.000253 | 0.003881 | 0.745202 | 0.526984 | 0.728036 | -0.20105 | 4 | 26733372 | F | II | TBC1D19 | Body | opensea | Body-opens | | rs1820795 | 17;18 | | | |
| cg2697079 | 0.217791 | 0.498751 | 6.42007 | 0.000253 | 0.003882 | 0.744789 | 0.389855 | 0.607647 | -0.21779 | 5 | 1.21E+08 | F | II | SRFBP1 | Body | opensea | Body-opens | | rs1998419 | 1;6;21;26 | | | |
| cg2536894 | 0.202146 | 0.402244 | 6.420041 | 0.000253 | 0.003882 | 0.744757 | 0.301171 | 0.503317 | -0.20215 | 8 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs5666735 | 6;34;45;47 | | | |
| cg2678327 | 0.214178 | 0.470718 | 6.418871 | 0.000253 | 0.003885 | 0.743486 | 0.363629 | 0.577807 | -0.21418 | 9 | 71348268 | R | II | PIP5K1B | 5'UTR | opensea | 5'UTR-open | | rs5520848 | 41 | | | |
| cg2546845 | 0.221998 | 0.478513 | 6.418415 | 0.000253 | 0.003886 | 0.74299 | 0.367514 | 0.589511 | -0.222 | 16 | 69167903 | F | II | CHTF8 | TSS1500 | shore | TSS1500-sh | chr16:6916 | | | | | |
| cg0228903 | 0.211483 | 0.678655 | 6.415211 | 0.000254 | 0.003894 | 0.739507 | 0.572914 | 0.784397 | -0.21148 | 4 | 24915774 | F | II | CCDC149 | TSS1500 | opensea | TSS1500-o | | rs5497493 | 4;36 | | | |
| cg0867697 | 0.233591 | 0.571977 | 6.414353 | 0.000254 | 0.003895 | 0.738575 | 0.455181 | 0.688773 | -0.23359 | 2 | 8453146 | R | II | LINC00299 | Body | opensea | Body-opens | | rs3746439 | 26 | | | |
| cg2245788 | 0.200105 | 0.602882 | 6.413764 | 0.000255 | 0.003897 | 0.737934 | 0.50283 | 0.702934 | -0.2001 | 21 | 39217945 | F | II | KCNJ6 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg1459738 | 0.245278 | 0.676185 | 6.413533 | 0.000255 | 0.003897 | 0.737683 | 0.553546 | 0.798824 | -0.24528 | 5 | 54319373 | F | II | GZMK | TSS1500 | opensea | TSS1500-o | | rs5521014 | 14;32 | | | |
| cg2612739 | 0.222655 | 0.657446 | 6.413358 | 0.000255 | 0.003898 | 0.737492 | 0.546118 | 0.768773 | -0.22266 | 3 | 78715830 | F | II | ROBO1 | Body | opensea | Body-opens | | rs1429603 | 3 | | | |
| cg1475887 | 0.21897 | 0.645577 | 6.412176 | 0.000255 | 0.0039 | 0.736207 | 0.536092 | 0.755062 | -0.21897 | 9 | 6566638 | R | II | GLDC | Body | opensea | Body-opens | | rs7039182 | 38;34;24 | | | |
| cg1464562 | 0.203645 | 0.656938 | 6.412006 | 0.000255 | 0.003901 | 0.736021 | 0.555115 | 0.75876 | -0.20365 | 1 | 2.08E+08 | R | II | PLXNA2 | Body | opensea | Body-opens | | rs5654473 | 41;27 | | | |
| cg2418075 | 0.213697 | 0.505305 | 6.410647 | 0.000255 | 0.003904 | 0.734544 | 0.398457 | 0.612153 | -0.2137 | 5 | 1.68E+08 | R | II | ODZ2 | Body | opensea | Body-opens | | rs5605284 | 2 | | | |
| cg1423265 | 0.241911 | 0.535491 | 6.409722 | 0.000256 | 0.003906 | 0.733537 | 0.414535 | 0.656446 | -0.24191 | 14 | 45564553 | F | II | PRPF39 | Body | opensea | Body-opens | | rs5370135 | 1;27;31 | | | |
| cg0670972 | 0.205675 | 0.532649 | 6.409487 | 0.000256 | 0.003907 | 0.733282 | 0.429812 | 0.635487 | -0.20568 | 11 | 63858820 | R | II | MACROD1 | Body | opensea | Body-opens | | rs1407658 | 29;1 | | | |
| cg1267199 | 0.200334 | 0.524848 | 6.406752 | 0.000256 | 0.003913 | 0.730306 | 0.424681 | 0.625015 | -0.20033 | 3 | 98687742 | R | II | | IGR | opensea | IGR-opense | | rs5347439 | 50;33;27 | | | |
| cg1986554 | 0.203062 | 0.553162 | 6.405569 | 0.000257 | 0.003916 | 0.729018 | 0.451631 | 0.654693 | -0.20306 | 17 | 68286640 | R | II | | IGR | opensea | IGR-opense | | rs1153447 | 31;13;9;2 | | | |
| cg1220835 | 0.217591 | 0.65456 | 6.405158 | 0.000257 | 0.003917 | 0.72857 | 0.545765 | 0.763356 | -0.21759 | 2 | 1.53E+08 | F | II | NEB | Body | opensea | Body-opens | | rs5762203 | 37 | | | |
| cg0406659 | 0.223367 | 0.440753 | 6.403586 | 0.000257 | 0.00392 | 0.72686 | 0.32907 | 0.552437 | -0.22337 | 2 | 2.31E+08 | F | II | FBXO36 | Body | opensea | Body-opens | | rs1896496 | 25 | | | |
| cg1093780 | 0.23473 | 0.386906 | 6.402219 | 0.000258 | 0.003923 | 0.72537 | 0.269541 | 0.504271 | -0.23473 | 4 | 26177098 | F | I | | IGR | opensea | IGR-opense | | rs6847292 | 12 | | | |
| cg0603425 | 0.202796 | 0.682514 | 6.400478 | 0.000258 | 0.003928 | 0.723474 | 0.581116 | 0.783912 | -0.2028 | 10 | 1.26E+08 | R | II | CHST15 | TSS1500 | shelf | TSS1500-sh | chr10:1258 | rs1388007 | 32;15 | | | |
| cg1805437 | 0.272911 | 0.44812 | 6.400075 | 0.000258 | 0.003929 | 0.723036 | 0.311665 | 0.584576 | -0.27291 | 10 | 81194201 | F | II | ZCCHC24 | Body | opensea | Body-opens | | rs5744125 | 4;18;35;42;44 | | | |
| cg1221027 | 0.223917 | 0.453759 | 6.399643 | 0.000258 | 0.00393 | 0.722565 | 0.3418 | 0.565717 | -0.22392 | 12 | 1.24E+08 | F | II | RILPL2 | Body | opensea | Body-opens | | | | | | |
| cg1340021 | 0.205717 | 0.444912 | 6.399494 | 0.000258 | 0.00393 | 0.722402 | 0.342054 | 0.547771 | -0.20572 | 1 | 1.92E+08 | F | II | | IGR | opensea | IGR-opense | | rs5566757 | 0;12;31;47;48 | | | |
| cg1598828 | 0.212079 | 0.610681 | 6.396999 | 0.000259 | 0.003935 | 0.719685 | 0.504641 | 0.71672 | -0.21208 | 13 | 27516202 | F | II | | IGR | opensea | IGR-opense | | rs1898066 | 1 | | | |
| cg1757035 | 0.253005 | 0.575341 | 6.396362 | 0.000259 | 0.003937 | 0.71899 | 0.448838 | 0.701843 | -0.253 | 12 | 27374821 | F | II | | IGR | opensea | IGR-opense | | rs5729244 | 19 | | | |
| cg0412597 | 0.209933 | 0.363885 | 6.394619 | 0.00026 | 0.003941 | 0.717091 | 0.258919 | 0.468852 | -0.20993 | 5 | 40936418 | R | II | C7 | Body | opensea | Body-opens | | rs2014107 | 18;2;1 | | | |
| cg1973876 | 0.243978 | 0.621408 | 6.392991 | 0.00026 | 0.003945 | 0.715316 | 0.499419 | 0.743396 | -0.24398 | 21 | 47268725 | R | II | PCBP3 | TSS1500 | opensea | TSS1500-o | | | | | | |
| cg1530856 | 0.232142 | 0.487124 | 6.392759 | 0.00026 | 0.003946 | 0.715063 | 0.371053 | 0.603195 | -0.23214 | 16 | 84785543 | F | II | USP10 | Body | opensea | Body-opens | | rs1913403 | 1;5;27 | | | |
| cg0777527 | 0.224605 | 0.430724 | 6.392235 | 0.00026 | 0.003947 | 0.714492 | 0.318421 | 0.543026 | -0.22461 | 8 | 1.05E+08 | F | II | RIMS2 | Body | opensea | Body-opens | | rs1811350 | 0;36 | | | |
| cg0019358 | 0.277863 | 0.483425 | 6.389417 | 0.000261 | 0.003954 | 0.71142 | 0.344494 | 0.622357 | -0.27786 | 1 | 77879926 | F | II | AK5 | Body | opensea | Body-opens | | rs7861829 | 0;1;50 | | | |
| cg2328711 | 0.200579 | 0.635791 | 6.387646 | 0.000261 | 0.003957 | 0.709488 | 0.535502 | 0.736081 | -0.20058 | 2 | 2.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs7532994 | 26 | | | |
| cg1750033 | 0.209217 | 0.691925 | 6.387113 | 0.000262 | 0.003958 | 0.708907 | 0.587316 | 0.796534 | -0.20922 | 9 | 1.37E+08 | F | II | VAV2 | Body | opensea | Body-opens | | rs1859143 | 0;27;49 | | | |
| cg0002634 | 0.209569 | 0.415709 | 6.38649 | 0.000262 | 0.00396 | 0.708227 | 0.310924 | 0.520493 | -0.20957 | 6 | 49845521 | R | II | CRISP1 | TSS1500 | opensea | TSS1500-o | | rs1918833 | 36;16;2;1 | | | |
| cg2274964 | 0.213166 | 0.570248 | 6.385745 | 0.000262 | 0.003962 | 0.707414 | 0.463665 | 0.676831 | -0.21317 | 11 | 857033 | R | I | TSPAN4 | 5'UTR | shore | 5'UTR-shor | chr11:858 | rs4963207 | 43;41;40 | | | |
| cg1894166 | 0.209731 | 0.579249 | 6.384758 | 0.000262 | 0.003964 | 0.706337 | 0.474384 | 0.684115 | -0.20973 | 3 | 1.5E+08 | R | II | EIF2A | Body | opensea | Body-opens | | rs5627171 | 48;25 | | | |
| cg1373033 | 0.216193 | 0.651381 | 6.383964 | 0.000262 | 0.003966 | 0.705471 | 0.543285 | 0.759478 | -0.21619 | 15 | 62999658 | R | II | TLN2 | Body | opensea | Body-opens | | rs5427692 | 50;32;1 | | | |
| cg0902897 | 0.209487 | 0.630881 | 6.38285 | 0.000263 | 0.003968 | 0.704255 | 0.526138 | 0.735625 | -0.20949 | 15 | 45383943 | R | II | | IGR | opensea | IGR-opense | | rs3703690 | 2 | | | |
| cg2194126 | 0.235239 | 0.451126 | 6.382187 | 0.000263 | 0.00397 | 0.703531 | 0.333507 | 0.568746 | -0.23524 | 6 | 30495956 | F | II | | IGR | opensea | IGR-opense | | rs5522917 | 1;5 | | | |
| cg0653858 | 0.215949 | 0.588456 | 6.379288 | 0.000264 | 0.003977 | 0.700366 | 0.480481 | 0.69643 | -0.21595 | 4 | 22485430 | F | II | ADGRA3 | Body | opensea | Body-opens | | | | | | |
| cg0998752 | 0.206816 | 0.662831 | 6.378563 | 0.000264 | 0.003978 | 0.699575 | 0.559423 | 0.766239 | -0.20682 | 9 | 36603035 | F | II | MELK | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg2753341 | 0.205613 | 0.566658 | 6.378011 | 0.000264 | 0.003979 | 0.698972 | 0.463851 | 0.669464 | -0.20561 | 1 | 51538170 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1179621 | 0.22929 | 0.560826 | 6.37691 | 0.000264 | 0.003981 | 0.69777 | 0.446181 | 0.675471 | -0.22929 | 3 | 1.95E+08 | F | II | C3orf21 | Body | opensea | Body-opens | | rs1479254 | 37 | | | |
| cg1416913 | 0.279079 | 0.435352 | 6.376734 | 0.000264 | 0.003981 | 0.697578 | 0.295813 | 0.574891 | -0.27908 | 6 | 14749088 | R | II | | IGR | opensea | IGR-opense | | rs7745856 | 21;2 | | | |
| cg1530381 | 0.209292 | 0.390279 | 6.376094 | 0.000265 | 0.003983 | 0.696878 | 0.285633 | 0.494925 | -0.20929 | 22 | 36958988 | R | I | CACNG2 | 3'UTR | shore | 3'UTR-shor | chr22:369 | rs1414397 | 39;2 | | | |
| cg1671858 | 0.211491 | 0.544819 | 6.374872 | 0.000265 | 0.003985 | 0.695543 | 0.439073 | 0.650564 | -0.21149 | 12 | 1.33E+08 | R | II | ANKLE2 | Body | shore | Body-shore | chr12:133 | rs5777973 | 50;16 | | | |
| cg1215518 | 0.212171 | 0.608827 | 6.374805 | 0.000265 | 0.003985 | 0.69547 | 0.502741 | 0.714912 | -0.21217 | 20 | 47255254 | F | II | PREX1 | Body | shelf | Body-shelf | chr20:472 | rs5394015 | 1 | | | |
| cg1620718 | 0.212011 | 0.551708 | 6.373562 | 0.000265 | 0.003989 | 0.694112 | 0.445702 | 0.657713 | -0.21201 | 6 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs5740736 | 33 | | | |
| cg1202896 | 0.266793 | 0.436973 | 6.373223 | 0.000265 | 0.00399 | 0.693742 | 0.303577 | 0.57037 | -0.26679 | 11 | 34393189 | R | II | | IGR | opensea | IGR-opense | | rs3977761 | 42;1 | | | |
| cg2038479 | 0.201357 | 0.635779 | 6.372909 | 0.000265 | 0.003991 | 0.693399 | 0.5351 | 0.736457 | -0.20136 | 19 | 1025441 | R | I | CNN2 | TSS1500 | shore | TSS1500-sh | chr19:1024 | rs5826714 | 39;28 | | | |
| cg1456214 | 0.21062 | 0.517892 | 6.372853 | 0.000265 | 0.003991 | 0.693337 | 0.412582 | 0.623202 | -0.21062 | 14 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs7576257 | 21 | | | |
| cg0027061 | 0.205289 | 0.509779 | 6.372655 | 0.000265 | 0.003992 | 0.693122 | 0.407134 | 0.612423 | -0.20529 | 2 | 7988355 | R | II | | IGR | opensea | IGR-opense | | rs1421392 | 1 | | | |
| cg0511817 | 0.219321 | 0.666989 | 6.371163 | 0.000266 | 0.003995 | 0.691491 | 0.557329 | 0.77665 | -0.21932 | 6 | 56593811 | F | II | RNU6-71P | Body | opensea | Body-opens | | rs5383642 | 45 | | | |
| cg0245692 | 0.238528 | 0.45685 | 6.370942 | 0.000266 | 0.003995 | 0.69125 | 0.337586 | 0.576114 | -0.23853 | 6 | 1.58E+08 | F | II | | IGR | shelf | IGR-shelf | chr6:1577 | rs3686276 | 0 | | | |
| cg0978003 | 0.206523 | 0.536189 | 6.370346 | 0.000266 | 0.003996 | 0.690597 | 0.432928 | 0.639451 | -0.20652 | 19 | 50508881 | F | II | VRK3 | Body | opensea | Body-opens | | | | | | |
| cg1596062 | 0.204014 | 0.63873 | 6.369798 | 0.000266 | 0.003997 | 0.689999 | 0.536723 | 0.740736 | -0.20401 | 17 | 35235530 | F | II | | IGR | opensea | IGR-opense | | rs5321827 | 0;15;47 | | | |
| cg0984754 | 0.226858 | 0.41287 | 6.368235 | 0.000267 | 0.004001 | 0.68829 | 0.299441 | 0.526299 | -0.22686 | 22 | 25404660 | F | II | | IGR | opensea | IGR-opense | | rs5584351 | 38;49 | | | |
| cg0707683 | 0.228918 | 0.575152 | 6.367368 | 0.000267 | 0.004003 | 0.687342 | 0.460693 | 0.689611 | -0.22892 | 15 | 65175729 | R | II | | IGR | opensea | IGR-opense | | rs5656571 | 49;12;2 | | | |
| cg2506471 | 0.212777 | 0.569483 | 6.36673 | 0.000267 | 0.004004 | 0.686645 | 0.463095 | 0.675872 | -0.21278 | 10 | 90611646 | R | II | ANKRD22 | 1stExon | opensea | 1stExon-op | | rs1925871 | 33 | | | |
| cg1525142 | 0.217943 | 0.644248 | 6.36634 | 0.000267 | 0.004005 | 0.686218 | 0.535277 | 0.75322 | -0.21794 | 8 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | | rs5331667 | 25 | | | |
| cg0346626 | 0.219299 | 0.663314 | 6.365656 | 0.000267 | 0.004007 | 0.68547 | 0.553665 | 0.772963 | -0.2193 | 14 | 53331377 | F | II | FERMT2 | Body | opensea | Body-opens | | rs2016469 | 0 | | | |
| cg0888472 | 0.223404 | 0.574311 | 6.364382 | 0.000268 | 0.00401 | 0.684077 | 0.462609 | 0.686013 | -0.2234 | 17 | 39679478 | F | II | | IGR | opensea | IGR-opense | | rs5375604 | 18 | | | |
| cg2414322 | 0.215325 | 0.505101 | 6.363951 | 0.000268 | 0.004011 | 0.683605 | 0.397439 | 0.612764 | -0.21533 | 6 | 31780526 | R | II | HSPA1L | 5'UTR | shelf | 5'UTR-shelf | chr6:3178 | rs5644559 | 36 | | | |
| cg0830404 | 0.230426 | 0.615628 | 6.363925 | 0.000268 | 0.004011 | 0.683576 | 0.500415 | 0.730841 | -0.23043 | 20 | 237253 | F | II | DEFB132 | TSS1500 | opensea | TSS1500-o | | rs5729680 | 36;44;48 | | | |
| cg0645625 | 0.210779 | 0.697043 | 6.362826 | 0.000268 | 0.004013 | 0.682375 | 0.591654 | 0.802432 | -0.21078 | 4 | 1.41E+08 | R | II | MAML3 | Body | opensea | Body-opens | | rs5640953 | 43;27;1 | | | |
| cg1205838 | 0.228295 | 0.741829 | 6.361 | 0.000269 | 0.004019 | 0.680376 | 0.627681 | 0.855976 | -0.22829 | 2 | 1.44E+08 | F | II | ARHGAP15 | Body | opensea | Body-opens | | rs5557508 | 28 | | | |
| cg1215827 | 0.258537 | 0.551994 | 6.35997 | 0.000269 | 0.004021 | 0.679249 | 0.422726 | 0.681263 | -0.25854 | 11 | 14566216 | F | II | PSMA1 | Body | opensea | Body-opens | | | | | | |
| cg0496289 | 0.22519 | 0.580591 | 6.358849 | 0.000269 | 0.004024 | 0.678023 | 0.467996 | 0.693186 | -0.22519 | 2 | 58335178 | F | II | VRK2 | Body | opensea | Body-opens | | rs1458518 | 0;8;22 | | | |
| cg2760582 | 0.215096 | 0.534515 | 6.357542 | 0.00027 | 0.004027 | 0.676591 | 0.426968 | 0.642063 | -0.2151 | 8 | 35647941 | R | II | UNC5D | Body | opensea | Body-opens | | rs5286741 | 46 | | | |
| cg2392919 | 0.204389 | 0.572627 | 6.356867 | 0.00027 | 0.004028 | 0.675853 | 0.470432 | 0.674821 | -0.20439 | 7 | 44662296 | F | II | OGDH | 5'UTR | opensea | 5'UTR-open | | rs1908862 | 1 | | | |
| cg0478257 | 0.212879 | 0.673996 | 6.355355 | 0.00027 | 0.004032 | 0.674197 | 0.567556 | 0.780435 | -0.21288 | 5 | 58114289 | F | II | RAB3C | Body | opensea | Body-opens | | rs5545454 | 28 | | | |
| cg1595779 | 0.215307 | 0.632431 | 6.355039 | 0.00027 | 0.004032 | 0.673851 | 0.524777 | 0.740084 | -0.21531 | 2 | 1.88E+08 | F | II | TFPI | 5'UTR | opensea | 5'UTR-open | | rs5690940 | 21 | | | |
| cg1364703 | 0.213902 | 0.595051 | 6.354677 | 0.00027 | 0.004034 | 0.673455 | 0.4881 | 0.702002 | -0.2139 | 2 | 38645840 | F | II | | IGR | opensea | IGR-opense | | rs5380471 | 0;10;33;34;39 | | | |
| cg2028723 | 0.245019 | 0.513184 | 6.354524 | 0.00027 | 0.004034 | 0.673287 | 0.390674 | 0.635693 | -0.24502 | 2 | 2.32E+08 | R | II | GPR55 | 5'UTR | opensea | 5'UTR-open | | rs5427401 | 31;18 | | | |
| cg0819002 | 0.213648 | 0.366813 | 6.353175 | 0.000271 | 0.004037 | 0.67181 | 0.25999 | 0.473637 | -0.21365 | 1 | 1.95E+08 | F | II | | IGR | opensea | IGR-opense | | rs5360394 | 0;1 | | | |
| cg1156237 | 0.21148 | 0.422452 | 6.352729 | 0.000271 | 0.004038 | 0.671322 | 0.316712 | 0.528192 | -0.21148 | 7 | 28194657 | R | II | JAZF1 | Body | opensea | Body-opens | | rs5426391 | 32;27;1 | | | |
| cg1138881 | 0.209858 | 0.622304 | 6.351099 | 0.000271 | 0.004042 | 0.669536 | 0.517375 | 0.727232 | -0.20986 | 9 | 75835312 | F | II | | IGR | opensea | IGR-opense | | rs1424584 | 2;26;31 | | | |
| cg2574111 | 0.211623 | 0.659377 | 6.350736 | 0.000272 | 0.004042 | 0.669138 | 0.553566 | 0.765189 | -0.21162 | 1 | 54482237 | F | II | LDLRAD1 | Body | opensea | Body-opens | | rs5657400 | 32;40 | | | |
| cg1488451 | 0.219939 | 0.595565 | 6.348839 | 0.000272 | 0.004047 | 0.66706 | 0.485596 | 0.705535 | -0.21994 | 17 | 55500358 | F | II | MSI2 | Body | opensea | Body-opens | | rs7283302 | 39;50 | | | |
| cg1414435 | 0.249998 | 0.522372 | 6.348572 | 0.000272 | 0.004047 | 0.666767 | 0.397373 | 0.647371 | -0.25 | 2 | 2.07E+08 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0631200 | 0.201709 | 0.43569 | 6.348107 | 0.000272 | 0.004048 | 0.666258 | 0.334835 | 0.536544 | -0.20171 | 8 | 1.36E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg1701692 | 0.246658 | 0.656804 | 6.347632 | 0.000272 | 0.00405 | 0.665737 | 0.533475 | 0.780133 | -0.24666 | 5 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | | rs5467619 | 5;1 | | | |
| cg1051598 | 0.241894 | 0.55007 | 6.345431 | 0.000273 | 0.004054 | 0.663325 | 0.429123 | 0.671017 | -0.24189 | 17 | 32528422 | R | II | | IGR | opensea | IGR-opense | | rs5778635 | 47;2 | | | |
| cg0586391 | 0.242427 | 0.58261 | 6.344835 | 0.000273 | 0.004056 | 0.662671 | 0.461397 | 0.703824 | -0.24243 | 4 | 1.55E+08 | R | II | DCHS2 | 1stExon | opensea | 1stExon-op | | rs5432459 | 33;29;20;15;1 | | | |
| cg1870459 | 0.278285 | 0.492181 | 6.343464 | 0.000274 | 0.004059 | 0.661168 | 0.353039 | 0.631324 | -0.27829 | 4 | 1.54E+08 | F | II | TRIM2 | 5'UTR | opensea | 5'UTR-open | | rs1140632 | 1;18 | | | |
| cg1541694 | 0.206 | 0.570453 | 6.342939 | 0.000274 | 0.00406 | 0.660592 | 0.467453 | 0.673453 | -0.206 | 17 | 53658125 | R | II | | IGR | opensea | IGR-opense | | rs1695608 | 22 | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1447836 | 0.214556 | 0.549598 | 6.342222 | 0.000274 | 0.004062 | 0.659806 | 0.44232 | 0.656876 | -0.21456 | 9 | 99209707 | F | II | | IGR | shelf | IGR-shelf | chr9:9921 | rs5481274 | 0 |
| cg1464326 | 0.23186 | 0.577345 | 6.34198 | 0.000274 | 0.004063 | 0.65954 | 0.461415 | 0.693275 | -0.23186 | 9 | 27408242 | F | II | MOBKL2B | Body | opensea | Body-open | | rs5561098 | 42;51 |
| cg1974334 | 0.220809 | 0.551418 | 6.341932 | 0.000274 | 0.004063 | 0.659489 | 0.441014 | 0.661822 | -0.22081 | 2 | 317938 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs7792054 | 29;4;1 |
| cg1720349 | 0.231821 | 0.428514 | 6.340921 | 0.000274 | 0.004066 | 0.658379 | 0.312604 | 0.544425 | -0.23182 | 2 | 61935357 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2371759 | 0.23803 | 0.573917 | 6.340214 | 0.000274 | 0.004067 | 0.657603 | 0.454902 | 0.692933 | -0.23803 | 1 | 86617731 | R | II | COL24A1 | Body | shelf | Body-shelf | chr1:8662 | rs5296961 | 39 |
| cg0291002 | 0.201489 | 0.346499 | 6.339683 | 0.000275 | 0.004069 | 0.657022 | 0.245755 | 0.447244 | -0.20149 | 21 | 36883608 | F | II | LOC10050 | Body | opensea | Body-open | | rs1509482 | 34;40 |
| cg0253407 | 0.228828 | 0.663538 | 6.338989 | 0.000275 | 0.00407 | 0.656259 | 0.549124 | 0.777952 | -0.22883 | 2 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5776896 | 18 |
| cg1084740 | 0.223215 | 0.669935 | 6.335767 | 0.000276 | 0.004077 | 0.652724 | 0.558327 | 0.781542 | -0.22321 | 21 | 39235836 | F | II | KCNJ6 | 5'UTR | opensea | 5'UTR-open | | rs1418269 | 0;32;35 |
| cg1017172 | 0.226844 | 0.648557 | 6.33511 | 0.000276 | 0.004079 | 0.652004 | 0.535135 | 0.761979 | -0.22684 | 7 | 1.39E+08 | R | II | KIAA1549 | Body | opensea | Body-open | | rs5780137 | 41;1 |
| cg2559502 | 0.209997 | 0.548393 | 6.333772 | 0.000276 | 0.004082 | 0.650535 | 0.443395 | 0.653392 | -0.21 | 4 | 1.55E+08 | R | II | KIAA0922 | Body | opensea | Body-open | | rs5381403 | 43;32 |
| cg1239935 | 0.202026 | 0.617535 | 6.333107 | 0.000277 | 0.004085 | 0.649805 | 0.516522 | 0.718548 | -0.20203 | 1 | 53828495 | F | II | | IGR | opensea | IGR-opense | | rs5743682 | 7;24;34 |
| cg0612731 | 0.214812 | 0.506802 | 6.33285 | 0.000277 | 0.004085 | 0.649522 | 0.399396 | 0.614208 | -0.21481 | 11 | 9599460 | R | II | WEE1 | Body | shelf | Body-shelf | chr11:9594 | rs5500584 | 35;1 |
| cg0800870 | 0.234057 | 0.598316 | 6.330683 | 0.000277 | 0.00409 | 0.647143 | 0.481288 | 0.715344 | -0.23406 | 15 | 52576512 | F | II | MYO5C | Body | opensea | Body-open | | | |
| cg0962654 | 0.239386 | 0.674242 | 6.330041 | 0.000277 | 0.004091 | 0.646438 | 0.554549 | 0.793935 | -0.23939 | 1 | 2.3E+08 | R | II | PGBD5 | Body | opensea | Body-open | | rs2820382 | 13;1 |
| cg1106474 | 0.20533 | 0.663517 | 6.32833 | 0.000278 | 0.004095 | 0.644558 | 0.560852 | 0.766182 | -0.20533 | 10 | 75227339 | F | II | PPP3CB | Body | opensea | Body-open | | | |
| cg1058171 | 0.214909 | 0.714684 | 6.322878 | 0.000279 | 0.004107 | 0.638568 | 0.607229 | 0.822138 | -0.21491 | 10 | 92683210 | F | II | | IGR | opensea | IGR-opense | | rs5423148 | 25 |
| cg1580845 | 0.248603 | 0.509991 | 6.322622 | 0.00028 | 0.004107 | 0.638287 | 0.38569 | 0.634292 | -0.2486 | 20 | 20478179 | F | II | RALGAPA2 | Body | opensea | Body-open | | rs3770796 | 31;33 |
| cg2136987 | 0.292733 | 0.680596 | 6.322543 | 0.00028 | 0.004107 | 0.638199 | 0.53423 | 0.826963 | -0.29273 | 5 | 1.51E+08 | F | II | | IGR | opensea | IGR-opense | | rs1997731 | 0;10 |
| cg1951365 | 0.209686 | 0.542698 | 6.32217 | 0.00028 | 0.004108 | 0.63779 | 0.437855 | 0.647541 | -0.20969 | 4 | 1.39E+08 | F | II | LINC00499 | Body | opensea | Body-open | | rs1488295 | 0 |
| cg0009834 | 0.205988 | 0.603646 | 6.321219 | 0.00028 | 0.004111 | 0.636744 | 0.500653 | 0.70664 | -0.20599 | 15 | 69605418 | F | II | PAQR5 | TSS1500 | opensea | TSS1500-op | | rs5743471 | 1;48 |
| cg2110738 | 0.218478 | 0.456422 | 6.31827 | 0.000281 | 0.004119 | 0.633501 | 0.347183 | 0.565661 | -0.21848 | 3 | 33043641 | R | II | GLB1 | Body | opensea | Body-open | | rs1845620 | 2 |
| cg1117382 | 0.204063 | 0.550074 | 6.315343 | 0.000282 | 0.004126 | 0.630282 | 0.448043 | 0.652106 | -0.20406 | 12 | 92439765 | F | II | C12orf79 | Body | opensea | Body-open | | rs1183626 | 1;7 |
| cg1471462 | 0.214518 | 0.700861 | 6.314581 | 0.000282 | 0.004128 | 0.629444 | 0.593602 | 0.80812 | -0.21452 | 7 | 99495452 | R | II | TRIM4 | Body | opensea | Body-open | | | |
| cg0408434 | 0.21186 | 0.598897 | 6.312669 | 0.000282 | 0.004132 | 0.62734 | 0.492967 | 0.704827 | -0.21186 | 10 | 75677011 | F | II | PLAU | 3'UTR | opensea | 3'UTR-open | | | |
| cg1534640 | 0.211443 | 0.637774 | 6.312463 | 0.000282 | 0.004133 | 0.627113 | 0.532052 | 0.743495 | -0.21144 | 5 | 40428382 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1937376 | 0.209113 | 0.610485 | 6.310846 | 0.000283 | 0.004137 | 0.625333 | 0.505929 | 0.715042 | -0.20911 | 1 | 2.48E+08 | R | II | | IGR | shore | IGR-shore | chr1:2476 | rs7541002 | 31;21;11 |
| cg0894951 | 0.204107 | 0.667463 | 6.310079 | 0.000283 | 0.004139 | 0.624489 | 0.565409 | 0.769516 | -0.20411 | 12 | 96941563 | R | II | CFAP54 | Body | opensea | Body-open | | | |
| cg1118643 | 0.246592 | 0.678737 | 6.309456 | 0.000283 | 0.004141 | 0.623803 | 0.555441 | 0.802033 | -0.24659 | 6 | 1.68E+08 | R | II | | IGR | opensea | IGR-opense | | rs5771150 | 30;27;19 |
| cg1813051 | 0.206689 | 0.582269 | 6.309406 | 0.000283 | 0.004141 | 0.623748 | 0.478925 | 0.685614 | -0.20669 | 4 | 1.77E+08 | R | II | GPM6A | TSS1500 | shore | TSS1500-sh | chr4:1769 | rs1413829 | 21;1 |
| cg2288136 | 0.215964 | 0.630855 | 6.307667 | 0.000284 | 0.004146 | 0.621863 | 0.522873 | 0.738837 | -0.21596 | 15 | 50553600 | R | II | HDC | Body | opensea | Body-open | | rs5743525 | 2 |
| cg0599296 | 0.214563 | 0.642594 | 6.305772 | 0.000284 | 0.00415 | 0.619747 | 0.535313 | 0.749876 | -0.21456 | 8 | 37476219 | R | II | | IGR | opensea | IGR-opense | | rs5757134 | 45;37;30 |
| cg1553199 | 0.238204 | 0.667736 | 6.304848 | 0.000285 | 0.004152 | 0.618729 | 0.548634 | 0.786838 | -0.2382 | 12 | 94602562 | R | II | PLXNC1 | Body | opensea | Body-open | | rs5280029 | 22;15;13 |
| cg0738064 | 0.240954 | 0.622275 | 6.301467 | 0.000286 | 0.004161 | 0.615004 | 0.501799 | 0.742752 | -0.24095 | 20 | 48295033 | R | II | B4GALT5 | Body | opensea | Body-open | | rs5383807 | 2;1 |
| cg1523530 | 0.203188 | 0.687606 | 6.300346 | 0.000286 | 0.004163 | 0.613769 | 0.586012 | 0.7892 | -0.20319 | 21 | 16440470 | R | II | | IGR | shelf | IGR-shelf | chr21:164 | rs11214999 | 40;2 |
| cg0647328 | 0.248778 | 0.442826 | 6.299534 | 0.000286 | 0.004166 | 0.612874 | 0.318437 | 0.567215 | -0.24878 | 6 | 32820102 | R | II | TAP1 | Body | shore | Body-shore | chr6:3282 | | |
| cg2179900 | 0.230175 | 0.683505 | 6.295247 | 0.000288 | 0.004176 | 0.608147 | 0.568417 | 0.798592 | -0.23017 | 1 | 65223175 | F | II | RAVER2 | Body | opensea | Body-open | | | |
| cg2576946 | 0.218616 | 0.535367 | 6.294352 | 0.000288 | 0.004178 | 0.60716 | 0.426059 | 0.644674 | -0.21862 | 5 | 71643841 | R | II | PTCD2 | Body | opensea | Body-open | | rs1909132 | 22;14 |
| cg1651488 | 0.240465 | 0.591327 | 6.292991 | 0.000288 | 0.004181 | 0.605659 | 0.471094 | 0.711559 | -0.24047 | 20 | 48293214 | F | II | B4GALT5 | Body | opensea | Body-open | | rs1876221 | 23 |
| cg2739356 | 0.218643 | 0.448842 | 6.292496 | 0.000288 | 0.004182 | 0.605112 | 0.339521 | 0.558164 | -0.21864 | 17 | 39159318 | R | II | | IGR | opensea | IGR-opense | | rs5433229 | 37;28;16;10 |
| cg1018879 | 0.235916 | 0.640588 | 6.291246 | 0.000289 | 0.004185 | 0.603734 | 0.52263 | 0.758546 | -0.23592 | 10 | 52158244 | F | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs3719573 | 30;42 |
| cg1986182 | 0.230712 | 0.641607 | 6.290164 | 0.000289 | 0.004188 | 0.60254 | 0.526251 | 0.756963 | -0.23071 | 16 | 87827874 | R | II | | IGR | opensea | IGR-opense | | rs5634045 | 47;42;27;25;2 |
| cg2586575 | 0.221027 | 0.360455 | 6.288894 | 0.000289 | 0.004191 | 0.601139 | 0.249941 | 0.470968 | -0.22103 | 7 | 75226291 | R | II | HIP1 | Body | opensea | Body-open | | rs5876112 | 19;16 |
| cg0306330 | 0.220719 | 0.566747 | 6.288606 | 0.00029 | 0.004192 | 0.600821 | 0.456388 | 0.677106 | -0.22072 | 4 | 24796919 | R | II | SOD3 | TSS200 | opensea | TSS200-ope | | rs5724407 | 22;18 |
| cg1112196 | 0.242636 | 0.607648 | 6.288582 | 0.00029 | 0.004192 | 0.600795 | 0.48633 | 0.728966 | -0.24264 | 21 | 47268670 | R | II | PCBP3 | TSS1500 | opensea | TSS1500-op | | rs5449136 | 2;1 |
| cg0752882 | 0.200368 | 0.638367 | 6.286612 | 0.00029 | 0.004197 | 0.598619 | 0.538183 | 0.738551 | -0.20037 | 1 | 2.2E+08 | R | II | | IGR | opensea | IGR-opense | | rs5505991 | 37;1 |
| cg1373600 | 0.213431 | 0.54974 | 6.282832 | 0.000291 | 0.004206 | 0.594446 | 0.443024 | 0.656455 | -0.21343 | 12 | 24974836 | F | II | BCAT1 | Body | opensea | Body-open | | rs1884907 | 1;14 |
| cg1929944 | 0.207476 | 0.491678 | 6.280171 | 0.000292 | 0.004212 | 0.591507 | 0.387941 | 0.595416 | -0.20748 | 3 | 1.12E+08 | R | II | SLC35A5 | 5'UTR | shore | 5'UTR-shor | chr3:1122 | rs1918138 | 50;34;32 |
| cg2083141 | 0.234317 | 0.515416 | 6.279218 | 0.000292 | 0.004215 | 0.590454 | 0.398258 | 0.632574 | -0.23432 | 11 | 72460551 | R | II | ARAP1 | 5'UTR | shelf | 5'UTR-shelf | chr11:724 | | |
| cg1873967 | 0.200837 | 0.634927 | 6.276927 | 0.000293 | 0.00422 | 0.587922 | 0.534508 | 0.735345 | -0.20084 | 2 | 43041125 | F | II | | IGR | shelf | IGR-shelf | chr2:4303 | | |
| cg1729460 | 0.207177 | 0.429678 | 6.274028 | 0.000294 | 0.004228 | 0.584718 | 0.32609 | 0.533267 | -0.20718 | 5 | 1.1E+08 | R | II | TMEM232 | Body | opensea | Body-open | | rs1496921 | 38;24;1 |
| cg0232914 | 0.226135 | 0.636541 | 6.271445 | 0.000295 | 0.004234 | 0.581862 | 0.523474 | 0.749609 | -0.22614 | 3 | 1.09E+08 | F | II | MORC1 | Body | opensea | Body-open | | rs6765616 | 24 |
| cg2543942 | 0.217405 | 0.694971 | 6.271299 | 0.000295 | 0.004235 | 0.581701 | 0.586269 | 0.803674 | -0.2174 | 2 | 1.59E+08 | R | II | UPP2 | Body | opensea | Body-open | | rs3582427 | 45 |
| cg0208899 | 0.218466 | 0.626555 | 6.271107 | 0.000295 | 0.004235 | 0.581489 | 0.517321 | 0.735788 | -0.21847 | 7 | 41817771 | R | II | LOC28595 | Body | opensea | Body-open | | rs5560447 | 16 |
| cg1360252 | 0.211581 | 0.682347 | 6.270463 | 0.000295 | 0.004237 | 0.580776 | 0.576557 | 0.788138 | -0.21158 | 11 | 2612793 | R | II | KCNQ1 | Body | opensea | Body-open | | | |
| cg2402335 | 0.201906 | 0.763168 | 6.269164 | 0.000295 | 0.004241 | 0.579339 | 0.662215 | 0.864121 | -0.20191 | 10 | 49540488 | R | II | MAPK8 | 5'UTR | opensea | 5'UTR-open | | rs1122310 | 36;29;26;22 |
| cg0836560 | 0.244011 | 0.339759 | 6.268431 | 0.000296 | 0.004243 | 0.578528 | 0.217754 | 0.461765 | -0.24401 | 19 | 33726655 | R | II | | IGR | island | IGR-island | chr19:337 | | |
| cg0668085 | 0.204496 | 0.699347 | 6.266839 | 0.000296 | 0.004247 | 0.576767 | 0.597098 | 0.801595 | -0.2045 | 10 | 22722951 | F | II | | IGR | shelf | IGR-shelf | chr10:227 | | |
| cg0682497 | 0.209887 | 0.637557 | 6.263819 | 0.000297 | 0.004254 | 0.573425 | 0.532613 | 0.7425 | -0.20989 | 4 | 14692240 | R | II | LINC00504 | Body | opensea | Body-open | | rs5592523 | 2;1 |
| cg0306294 | 0.233313 | 0.459133 | 6.263572 | 0.000297 | 0.004255 | 0.573151 | 0.342477 | 0.57579 | -0.23331 | 10 | 6183455 | F | I | | IGR | shelf | IGR-shelf | chr10:618 | rs5761326 | 25;26;45 |
| cg2048471 | 0.215019 | 0.756247 | 6.262205 | 0.000298 | 0.004258 | 0.571638 | 0.648738 | 0.863757 | -0.21502 | 1 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1881949 | 0;1 |
| cg0126637 | 0.230731 | 0.555162 | 6.26145 | 0.000298 | 0.00426 | 0.570803 | 0.439797 | 0.670528 | -0.23073 | 4 | 1.3E+08 | F | II | | IGR | opensea | IGR-opense | | rs1414676 | 1 |
| cg0196633 | 0.237708 | 0.504187 | 6.261171 | 0.000298 | 0.004261 | 0.570493 | 0.385333 | 0.623041 | -0.23771 | 2 | 1.28E+08 | F | II | MYO7B | Body | shelf | Body-shelf | chr2:1283 | rs5305738 | 0;3;25 |
| cg0068711 | 0.256063 | 0.553711 | 6.259238 | 0.000298 | 0.004265 | 0.568353 | 0.42568 | 0.681743 | -0.25606 | 15 | 76129654 | F | II | | IGR | opensea | IGR-opense | | rs1458165 | 1;3;23;24 |
| cg1547390 | 0.208509 | 0.419043 | 6.259171 | 0.000298 | 0.004265 | 0.568279 | 0.314788 | 0.523297 | -0.20851 | 9 | 1.4E+08 | F | II | MRPL41 | 3'UTR | shore | 3'UTR-shor | chr9:1404 | rs1425531 | 3;11 |
| cg0435471 | 0.213393 | 0.702141 | 6.257227 | 0.000299 | 0.004271 | 0.566125 | 0.595445 | 0.808838 | -0.21339 | 10 | 62895835 | F | II | | IGR | opensea | IGR-opense | | rs5499674 | 1 |
| cg1295889 | 0.30638 | 0.609965 | 6.256749 | 0.000299 | 0.004272 | 0.565596 | 0.456775 | 0.763155 | -0.30638 | 2 | 59444755 | F | II | LOC10192 | TSS200 | opensea | TSS200-ope | | rs5606858 | 0;1;8;15;20;39 |
| cg2232084 | 0.200277 | 0.49267 | 6.255455 | 0.0003 | 0.004275 | 0.564162 | 0.392532 | 0.592809 | -0.20028 | 9 | 22395999 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1996404 | 0.234016 | 0.676353 | 6.254943 | 0.0003 | 0.004276 | 0.563595 | 0.559345 | 0.793362 | -0.23402 | 2 | 54706756 | F | II | SPTBN1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1520792 | 0.221413 | 0.707234 | 6.253499 | 0.0003 | 0.00428 | 0.561995 | 0.596528 | 0.817941 | -0.22141 | 15 | 52672193 | R | II | MYO5A | Body | opensea | Body-open | | rs5293982 | 26 |
| cg0470592 | 0.207918 | 0.715343 | 6.252554 | 0.000301 | 0.004283 | 0.560947 | 0.611384 | 0.819302 | -0.20792 | 14 | 31090330 | F | II | SCFD1 | TSS1500 | opensea | TSS1500-op | | rs5541027 | 25;26 |
| cg2567405 | 0.217991 | 0.65467 | 6.252105 | 0.000301 | 0.004284 | 0.56045 | 0.545675 | 0.763665 | -0.21799 | 22 | 33058351 | R | II | SYN3 | Body | opensea | Body-open | | | |
| cg1032429 | 0.213621 | 0.566605 | 6.250907 | 0.000301 | 0.004286 | 0.559122 | 0.459795 | 0.673416 | -0.21362 | 4 | 1.23E+08 | R | II | ANXA5 | Body | opensea | Body-open | | | |
| cg0521064 | 0.25159 | 0.618899 | 6.250388 | 0.000301 | 0.004288 | 0.558546 | 0.493104 | 0.744694 | -0.25159 | 11 | 32843775 | R | II | | IGR | opensea | IGR-opense | | rs5494767 | 22;18;15;4 |
| cg1045613 | 0.285446 | 0.565699 | 6.249353 | 0.000302 | 0.00429 | 0.557399 | 0.422976 | 0.708422 | -0.28545 | 9 | 76985951 | F | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5668494 | 0;1;5;13 |
| cg2045262 | 0.216352 | 0.688038 | 6.249287 | 0.000302 | 0.00429 | 0.557326 | 0.579862 | 0.796215 | -0.21635 | 13 | 49283663 | R | II | | IGR | opensea | IGR-opense | | rs5570511 | 49;48;14;2;1 |
| cg0884452 | 0.221769 | 0.591428 | 6.24756 | 0.000302 | 0.004294 | 0.555411 | 0.480544 | 0.702313 | -0.22177 | 6 | 1.68E+08 | F | II | | IGR | opensea | IGR-opense | | rs1932774 | 4 |
| cg2355954 | 0.235033 | 0.630782 | 6.247163 | 0.000302 | 0.004294 | 0.554971 | 0.513265 | 0.748298 | -0.23503 | 14 | 95961108 | R | II | | IGR | opensea | IGR-opense | | rs1121933 | 35;14 |
| cg1427637 | 0.233154 | 0.569525 | 6.245929 | 0.000303 | 0.004298 | 0.553603 | 0.452948 | 0.686102 | -0.23315 | 9 | 97663142 | F | II | C9orf3 | Body | opensea | Body-open | | | |
| cg2462665 | 0.211191 | 0.579983 | 6.244733 | 0.000303 | 0.004301 | 0.552275 | 0.474388 | 0.685579 | -0.21119 | 10 | 1.35E+08 | F | I | C10orf93 | Body | shore | Body-shore | chr10:134 | rs1159650 | 4;11 |
| cg1869172 | 0.240401 | 0.424561 | 6.244126 | 0.000303 | 0.004303 | 0.551601 | 0.304361 | 0.544762 | -0.2404 | 18 | 59619669 | F | II | | IGR | opensea | IGR-opense | | rs5665563 | 5;8;9;19 |
| cg2606371 | 0.251087 | 0.591066 | 6.242645 | 0.000304 | 0.004307 | 0.549959 | 0.465522 | 0.71661 | -0.25109 | 10 | 17273187 | F | II | VIM | Body | shore | Body-shore | chr10:172 | rs5466490 | 33 |
| cg0588910 | 0.206836 | 0.395032 | 6.242137 | 0.000304 | 0.004308 | 0.549395 | 0.291614 | 0.49845 | -0.20684 | 8 | 38406936 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1913629 | 0.201596 | 0.682501 | 6.238017 | 0.000305 | 0.004319 | 0.544821 | 0.581703 | 0.783299 | -0.2016 | 9 | 1.08E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0182649 | 0.200449 | 0.613917 | 6.237771 | 0.000305 | 0.00432 | 0.544548 | 0.513693 | 0.714141 | -0.20045 | 13 | 60320950 | R | II | DIAPH3 | Body | opensea | Body-open | | | |
| cg2715469 | 0.20806 | 0.707063 | 6.237212 | 0.000305 | 0.004322 | 0.543928 | 0.603033 | 0.811093 | -0.20806 | 16 | 72223871 | F | II | | IGR | opensea | IGR-opense | | rs5330785 | 16;28 |
| cg0263935 | 0.204668 | 0.537414 | 6.236876 | 0.000305 | 0.004323 | 0.543555 | 0.43508 | 0.639749 | -0.20467 | 1 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs5528794 | 51;27;26;20;1 |
| cg1570093 | 0.212369 | 0.682077 | 6.236625 | 0.000306 | 0.004323 | 0.543276 | 0.575893 | 0.788261 | -0.21237 | 20 | 5928091 | F | II | TRMT6 | Body | shelf | Body-shelf | chr20:593 | rs1150766 | 6;15;50 |
| cg0117332 | 0.200257 | 0.646752 | 6.236427 | 0.000306 | 0.004324 | 0.543056 | 0.546623 | 0.74688 | -0.20026 | 8 | 23600672 | F | II | | IGR | opensea | IGR-opense | | rs5779047 | 0 |
| cg0583511 | 0.284288 | 0.440837 | 6.234965 | 0.000306 | 0.004328 | 0.541433 | 0.298693 | 0.582981 | -0.28429 | 7 | 48294858 | F | II | ABCA13 | Body | opensea | Body-open | | | |
| cg0235864 | 0.202124 | 0.460578 | 6.234293 | 0.000306 | 0.00433 | 0.540687 | 0.359516 | 0.56164 | -0.20212 | 6 | 25698362 | F | II | SCGN | Body | opensea | Body-open | | rs5419762 | 1 |
| cg0048557 | 0.206288 | 0.604099 | 6.227661 | 0.000308 | 0.004347 | 0.533317 | 0.500955 | 0.707242 | -0.20629 | 11 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5304984 | 21 |
| cg0921954 | 0.239325 | 0.674271 | 6.226642 | 0.000309 | 0.00435 | 0.532185 | 0.554608 | 0.793934 | -0.23933 | 4 | 40828790 | F | II | APBB2 | Body | opensea | Body-open | | rs5466305 | 20 |
| cg2252235 | 0.200762 | 0.58009 | 6.226438 | 0.000309 | 0.00435 | 0.531957 | 0.479709 | 0.680471 | -0.20076 | 12 | 97416508 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2514572 | 0.236134 | 0.522191 | 6.226134 | 0.000309 | 0.00435 | 0.53162 | 0.404124 | 0.640258 | -0.23613 | 16 | 89628775 | F | I | RPL13 | Body | shore | Body-shore | chr16:8896 | rs5696297 | 1;4;11;15;19;40 |
| cg0123384 | 0.223147 | 0.398388 | 6.225242 | 0.000309 | 0.004352 | 0.530628 | 0.286814 | 0.509962 | -0.22315 | 7 | 96452755 | F | II | | IGR | opensea | IGR-opense | | rs3758264 | 12;17 |
| cg2273534 | 0.226718 | 0.531428 | 6.223051 | 0.00031 | 0.004358 | 0.528191 | 0.418069 | 0.644787 | -0.22672 | 18 | 61201950 | R | II | | IGR | opensea | IGR-opense | | rs1409267 | 1 |
| cg1254858 | 0.211584 | 0.683459 | 6.220992 | 0.000311 | 0.004363 | 0.525901 | 0.577667 | 0.789251 | -0.21158 | 15 | 1.02E+08 | R | II | TARSL2 | Body | opensea | Body-open | | rs5437339 | 49;7 |
| cg1328528 | 0.232195 | 0.555204 | 6.220472 | 0.000311 | 0.004364 | 0.525323 | 0.439106 | 0.671301 | -0.23219 | 1 | 2.39E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1208315 | 0.221908 | 0.627858 | 6.220069 | 0.000311 | 0.004364 | 0.524874 | 0.516904 | 0.738812 | -0.22191 | 2 | 40740634 | F | II | SLC8A1 | TSS1500 | opensea | TSS1500-op | | rs1876015 | 22 |
| cg2611368 | 0.204657 | 0.607002 | 6.218853 | 0.000311 | 0.004369 | 0.523521 | 0.504674 | 0.709331 | -0.20466 | 5 | 1.76E+08 | F | II | LOC64320 | Body | opensea | Body-open | | rs5301727 | 0 |
| cg0584482 | 0.230496 | 0.549516 | 6.218591 | 0.000311 | 0.004369 | 0.52323 | 0.434268 | 0.664764 | -0.2305 | 6 | 32209576 | R | II | | IGR | opensea | IGR-opense | | rs3805715 | 16;1 |
| cg2554138 | 0.225695 | 0.512766 | 6.212204 | 0.000313 | 0.004384 | 0.516119 | 0.399919 | 0.625614 | -0.2257 | 7 | 1.23E+08 | F | II | | IGR | opensea | IGR-opense | | rs5446288 | 1 |
| cg1429413 | 0.204521 | 0.590894 | 6.212099 | 0.000313 | 0.004385 | 0.516003 | 0.488634 | 0.693155 | -0.20452 | 20 | 14929390 | F | II | MACROD2 | Body | opensea | Body-open | | rs5390101 | 0;37;50 |
| cg0445917 | 0.20201 | 0.499441 | 6.210416 | 0.000314 | 0.004387 | 0.514127 | 0.398436 | 0.600446 | -0.20201 | 20 | 48892065 | R | II | LINC01272 | 5'UTR | opensea | 5'UTR-open | | rs5591721 | 1 |
| cg0609707 | 0.219152 | 0.597177 | 6.210046 | 0.000314 | 0.004388 | 0.513716 | 0.487601 | 0.706753 | -0.21915 | 3 | 1.74E+08 | R | II | NLGN1 | Body | opensea | Body-open | | rs5365710 | 33;21;8;2;1 |
| cg1377652 | 0.213103 | 0.643731 | 6.209967 | 0.000314 | 0.004389 | 0.513627 | 0.537179 | 0.750282 | -0.2131 | 2 | 1.03E+08 | F | II | IL1RL1 | TSS1500 | opensea | TSS1500-op | | rs1813021 | 17;19 |
| cg1277298 | 0.227424 | 0.524783 | 6.208311 | 0.000315 | 0.004392 | 0.511783 | 0.411071 | 0.638495 | -0.22742 | 19 | 4841297 | R | II | PLIN3 | Body | opensea | Body-open | | rs5603041 | 28 |
| cg0815603 | 0.212832 | 0.580535 | 6.207787 | 0.000315 | 0.004393 | 0.511199 | 0.474119 | 0.686951 | -0.21283 | 1 | 2.48E+08 | F | II | GCSAML | TSS200 | opensea | TSS200-ope | | rs5369237 | 1 |
| cg0766781 | 0.211613 | 0.647469 | 6.206571 | 0.000315 | 0.004396 | 0.509844 | 0.541662 | 0.753275 | -0.21161 | 5 | 1.11E+08 | F | II | NREP-AS1 | Body | opensea | Body-open | | rs1168986 | 1;12;37 |
| cg0728340 | 0.21706 | 0.66753 | 6.205654 | 0.000316 | 0.004398 | 0.508822 | 0.559 | 0.77606 | -0.21706 | 3 | 1.87E+08 | R | II | MASP1 | Body | opensea | Body-open | | rs7254925 | 37;27;2;1 |
| cg1396880 | 0.216383 | 0.642206 | 6.205525 | 0.000316 | 0.004399 | 0.508678 | 0.534014 | 0.750397 | -0.21638 | 5 | 58081039 | R | II | RAB3C | Body | opensea | Body-open | | rs446155 | 11 |
| cg0900931 | 0.266816 | 0.64846 | 6.205064 | 0.000316 | 0.0044 | 0.508164 | 0.515052 | 0.781868 | -0.26682 | 9 | 6566991 | F | II | GLDC | Body | opensea | Body-open | | | |
| cg2400923 | 0.243485 | 0.50785 | 6.20271 | 0.000317 | 0.004406 | 0.505541 | 0.386107 | 0.629592 | -0.24348 | 14 | 23654509 | F | II | | IGR | opensea | IGR-opense | | rs5500190 | 1;12 |
| cg0904401 | 0.228511 | 0.54195 | 6.202562 | 0.000317 | 0.004406 | 0.505375 | 0.427694 | 0.656205 | -0.22851 | 16 | 52628994 | R | II | CASC16 | Body | opensea | Body-open | | rs1434900 | 19;13;2;1 |
| cg0258394 | 0.203506 | 0.55128 | 6.201858 | 0.000317 | 0.004409 | 0.50459 | 0.449527 | 0.653033 | -0.20351 | 7 | 12497782 | R | II | | IGR | opensea | IGR-opense | | rs5610669 | 40;23;8;2;1 |
| cg2206483 | 0.203038 | 0.400731 | 6.201576 | 0.000317 | 0.00441 | 0.504276 | 0.299213 | 0.50225 | -0.20304 | 4 | 1.41E+08 | F | II | MAML3 | Body | opensea | Body-open | | rs5467283 | 18 |
| cg0502621 | 0.201318 | 0.73493 | 6.200582 | 0.000317 | 0.004412 | 0.503167 | 0.634271 | 0.835589 | -0.20132 | 8 | 19540809 | F | II | CSGALNAC | TSS1500 | opensea | TSS1500-op | | rs1494898 | 22 |
| cg1745885 | 0.21715 | 0.524063 | 6.200102 | 0.000317 | 0.004413 | 0.502632 | 0.415488 | 0.632639 | -0.21715 | 14 | 33165403 | R | II | AKAP6 | Body | opensea | Body-open | | | |
| cg2670656 | 0.204439 | 0.561731 | 6.196978 | 0.000318 | 0.004422 | 0.499148 | 0.459511 | 0.66395 | -0.20444 | 9 | 613329 | R | II | KANK1 | 5'UTR | opensea | 5'UTR-open | | rs1692112 | 26;16;15;2;1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1266226 | 0.211972 | 0.434209 | 6.192118 | 0.00032 | 0.004435 | 0.493724 | 0.328223 | 0.540195 | -0.21197 | 2 | 2.15E+08 | F | II | SPAG16 | Body | opensea | Body-opens | | rs1380809 | 4;30 |
| cg0628980 | 0.204965 | 0.643001 | 6.191753 | 0.00032 | 0.004436 | 0.493317 | 0.540518 | 0.745484 | -0.20497 | 17 | 72748189 | R | II | SLC9A3R1 | Body | shelf | Body-shelf | chr17:7274 | rs7534297 | 2 |
| cg1050320 | 0.214312 | 0.591167 | 6.191706 | 0.00032 | 0.004436 | 0.493264 | 0.484011 | 0.698323 | -0.21431 | 11 | 5545506 | R | II | | IGR | opensea | IGR-opense | | rs5335299 | 2;1 |
| cg2180828 | 0.205621 | 0.653704 | 6.191196 | 0.00032 | 0.004437 | 0.492694 | 0.550893 | 0.756514 | -0.20562 | 2 | 2.18E+08 | R | II | TNP1 | TSS200 | opensea | TSS200-ope | | rs1150952 | 1 |
| cg2388719 | 0.221297 | 0.641485 | 6.190253 | 0.000321 | 0.00444 | 0.491642 | 0.530836 | 0.752134 | -0.2213 | 4 | 1.41E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0427662 | 0.269686 | 0.383251 | 6.190135 | 0.000321 | 0.00444 | 0.49151 | 0.248408 | 0.518095 | -0.26969 | 17 | 57918500 | F | II | MIR21 | TSS200 | opensea | TSS200-ope | | rs5586536 | 0;9;25;28;28;33 |
| cg0345263 | 0.201176 | 0.689803 | 6.189607 | 0.000321 | 0.004441 | 0.490921 | 0.589216 | 0.790391 | -0.20118 | 1 | 1.83E+08 | R | II | LAMC1 | Body | opensea | Body-opens | | rs1091123 | 41;2 |
| cg2232673 | 0.223896 | 0.450369 | 6.188688 | 0.000321 | 0.004443 | 0.489894 | 0.338421 | 0.562317 | -0.2239 | 19 | 32949815 | R | II | DPY19L3 | Body | opensea | Body-opens | | rs5622211 | 25;19 |
| cg0696563 | 0.222244 | 0.6163 | 6.188111 | 0.000321 | 0.004445 | 0.48925 | 0.505178 | 0.727422 | -0.22224 | 6 | 1.57E+08 | R | II | ARID1B | Body | opensea | Body-opens | | rs9480450 | 28;11 |
| cg1089360 | 0.21821 | 0.749932 | 6.186807 | 0.000322 | 0.004448 | 0.487794 | 0.640827 | 0.859037 | -0.21821 | 8 | 27976377 | R | II | ELP3 | Body | opensea | Body-opens | | rs5340511 | 27 |
| cg0980050 | 0.204514 | 0.400337 | 6.186568 | 0.000322 | 0.004448 | 0.487527 | 0.29808 | 0.502594 | -0.20451 | 12 | 24992256 | F | I | BCAT1 | Body | opensea | Body-opens | | rs5697143 | 1;22 |
| cg0452565 | 0.207846 | 0.538333 | 6.185739 | 0.000322 | 0.004451 | 0.4866 | 0.43441 | 0.642256 | -0.20785 | 6 | 1.52E+08 | R | II | ESR1 | Body | opensea | Body-opens | | | |
| cg2343324 | 0.210092 | 0.592406 | 6.184908 | 0.000323 | 0.004452 | 0.485672 | 0.48736 | 0.697452 | -0.21009 | 11 | 5019961 | R | II | ORS1L1 | TSS1500 | opensea | TSS1500-op | | rs1123916 | 18;1 |
| cg0196538 | 0.202537 | 0.450191 | 6.182079 | 0.000323 | 0.00446 | 0.48251 | 0.348922 | 0.551459 | -0.20254 | 1 | 90321064 | R | II | LRRC8D | 5'UTR | opensea | 5'UTR-open | | rs5716423 | 2 |
| cg2753892 | 0.20856 | 0.68172 | 6.181981 | 0.000323 | 0.00446 | 0.482402 | 0.57744 | 0.786 | -0.20856 | 6 | 1.59E+08 | F | II | DYNLT1 | Body | shore | Body-shore | chr6:1590 | rs1388722 | 0 |
| cg0955565 | 0.222669 | 0.683663 | 6.181177 | 0.000324 | 0.004462 | 0.481503 | 0.572328 | 0.794997 | -0.22267 | 13 | 33804866 | R | II | STARD13 | Body | opensea | Body-opens | | | |
| cg1627272 | 0.202185 | 0.364035 | 6.180636 | 0.000324 | 0.004464 | 0.480897 | 0.262943 | 0.465128 | -0.20219 | 15 | 55569254 | F | II | RAB27A | 5'UTR | opensea | 5'UTR-open | | rs1130405 | 13;22 |
| cg1368542 | 0.208618 | 0.687156 | 6.180483 | 0.000324 | 0.004464 | 0.480727 | 0.582847 | 0.791465 | -0.20862 | 5 | 1.75E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2658128 | 0.262538 | 0.471017 | 6.180079 | 0.000324 | 0.004465 | 0.480275 | 0.339747 | 0.602286 | -0.26254 | 9 | 1.04E+08 | R | II | GRIN3A | Body | opensea | Body-opens | | rs5395615 | 34;1 |
| cg1236896 | 0.232889 | 0.579788 | 6.17916 | 0.000324 | 0.004468 | 0.479247 | 0.463343 | 0.696232 | -0.23289 | 20 | 50021968 | F | II | NFATC2 | Body | opensea | Body-opens | | rs5841841 | 5 |
| cg1665226 | 0.221347 | 0.556615 | 6.175724 | 0.000326 | 0.004477 | 0.475406 | 0.445941 | 0.667289 | -0.22135 | 4 | 97948716 | F | II | | IGR | opensea | IGR-opense | | rs5625731 | 0;24 |
| cg2095556 | 0.226913 | 0.612226 | 6.174436 | 0.000326 | 0.004481 | 0.473965 | 0.498769 | 0.725682 | -0.22691 | 9 | 1.03E+08 | R | II | | IGR | opensea | IGR-opense | | rs5738888 | 26;2;1 |
| cg2147942 | 0.200099 | 0.576188 | 6.173943 | 0.000326 | 0.004482 | 0.473414 | 0.476139 | 0.676238 | -0.2001 | 7 | 46584088 | F | II | | IGR | opensea | IGR-opense | | rs5467136 | 28;49 |
| cg1561759 | 0.201421 | 0.686238 | 6.170388 | 0.000327 | 0.004493 | 0.469435 | 0.585527 | 0.786948 | -0.20142 | 3 | 1.46E+08 | F | II | | IGR | opensea | IGR-opense | | rs1824206 | 1;28;45 |
| cg0033809 | 0.222614 | 0.556242 | 6.168232 | 0.000328 | 0.004499 | 0.467022 | 0.444935 | 0.667549 | -0.22261 | 10 | 36964853 | F | II | | IGR | opensea | IGR-opense | | rs5366260 | 50 |
| cg0202238 | 0.223161 | 0.381972 | 6.167722 | 0.000328 | 0.0045 | 0.466451 | 0.270392 | 0.493553 | -0.22316 | 3 | 1.89E+08 | F | II | | IGR | opensea | IGR-opense | | rs5330183 | 1;45 |
| cg0495557 | 0.221757 | 0.64361 | 6.165413 | 0.000329 | 0.004506 | 0.463866 | 0.532732 | 0.754488 | -0.22176 | 1 | 92944306 | R | II | GFI1 | Body | shore | Body-shore | chr1:9294 | rs3725537 | 21 |
| cg1832263 | 0.202322 | 0.607976 | 6.164834 | 0.000329 | 0.004508 | 0.463218 | 0.506815 | 0.709137 | -0.20232 | 13 | 1.12E+08 | R | II | LINC00431 | Body | opensea | Body-opens | | rs5616474 | 37 |
| cg0443173 | 0.206534 | 0.644607 | 6.164815 | 0.000329 | 0.004508 | 0.463197 | 0.54134 | 0.747873 | -0.20653 | 18 | 3412782 | F | II | TGIF1 | TSS200 | opensea | TSS200-ope | | rs5523940 | 21 |
| cg0632665 | 0.223467 | 0.764339 | 6.164625 | 0.000329 | 0.004508 | 0.462984 | 0.652606 | 0.876073 | -0.22347 | 11 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1229322 | 10;32 |
| cg2521194 | 0.206441 | 0.579463 | 6.163851 | 0.00033 | 0.00451 | 0.462116 | 0.476242 | 0.682683 | -0.20644 | 18 | 13567010 | R | II | LDLRAD4 | Body | opensea | Body-opens | | rs5473010 | 42;29 |
| cg1807815 | 0.224334 | 0.584663 | 6.161381 | 0.000331 | 0.004517 | 0.45935 | 0.472496 | 0.69683 | -0.22433 | 18 | 66401812 | R | II | CCDC102B | 5'UTR | opensea | 5'UTR-open | | rs5579194 | 4 |
| cg0419167 | 0.21834 | 0.51263 | 6.160131 | 0.000331 | 0.00452 | 0.457949 | 0.40346 | 0.6218 | -0.21834 | 1 | 1.71E+08 | F | II | FMO2 | TSS1500 | opensea | TSS1500-op | | rs5614415 | 21 |
| cg1576011 | 0.210703 | 0.422681 | 6.158455 | 0.000332 | 0.004525 | 0.456071 | 0.317329 | 0.528032 | -0.2107 | 10 | 1.28E+08 | F | II | C10orf90 | Body | shelf | Body-shelf | chr10:128 | rs5348903 | 28 |
| cg2668197 | 0.216733 | 0.464188 | 6.157781 | 0.000332 | 0.004527 | 0.455316 | 0.355822 | 0.572555 | -0.21673 | 8 | 1.16E+08 | R | II | TRPS1 | Body | opensea | Body-opens | | rs5315447 | 24 |
| cg1119753 | 0.218922 | 0.666808 | 6.156974 | 0.000332 | 0.004529 | 0.454411 | 0.557347 | 0.776269 | -0.21892 | 3 | 1.29E+08 | F | II | IFT122 | Body | opensea | Body-opens | | | |
| cg0753673 | 0.224022 | 0.591417 | 6.156823 | 0.000332 | 0.004529 | 0.454242 | 0.479406 | 0.703428 | -0.22402 | 2 | 98630091 | F | II | | IGR | opensea | IGR-opense | | rs1437541 | 11;46 |
| cg1590897 | 0.270037 | 0.597967 | 6.15587 | 0.000332 | 0.004532 | 0.453174 | 0.462948 | 0.732985 | -0.27004 | 1 | 2.1E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:2099 | rs1831958 | 50 |
| cg2500242 | 0.23578 | 0.648173 | 6.155205 | 0.000333 | 0.004534 | 0.452428 | 0.530283 | 0.766063 | -0.23578 | 2 | 26150583 | R | II | KIF3C | 3'UTR | opensea | 3'UTR-open | | rs1061449 | 11;2 |
| cg2411568 | 0.218905 | 0.470874 | 6.153837 | 0.000333 | 0.004537 | 0.450894 | 0.361422 | 0.580327 | -0.21891 | 7 | 1.15E+08 | F | II | MDFIC | Body | shelf | Body-shelf | chr7:1145 | rs5698171 | 12;19;29 |
| cg2249596 | 0.21726 | 0.635483 | 6.153831 | 0.000333 | 0.004537 | 0.450888 | 0.526853 | 0.744113 | -0.21726 | 2 | 5622155 | R | II | | IGR | opensea | IGR-opense | | rs5974547 | 20;1 |
| cg2269950 | 0.210482 | 0.527118 | 6.152925 | 0.000334 | 0.004539 | 0.449872 | 0.421877 | 0.632359 | -0.21048 | 11 | 1.3E+08 | R | II | ZBTB44 | 5'UTR | opensea | 5'UTR-open | | rs7601566 | 42;41;21;2 |
| cg2486374 | 0.204328 | 0.641231 | 6.152768 | 0.000334 | 0.00454 | 0.449696 | 0.539067 | 0.743395 | -0.20433 | 1 | 81106806 | F | II | LOC10192 | TSS200 | opensea | TSS200-ope | | rs7545108 | 29 |
| cg2497680 | 0.245502 | 0.57046 | 6.152741 | 0.000334 | 0.00454 | 0.449666 | 0.447709 | 0.693211 | -0.2455 | 1 | 1.6E+08 | F | II | CRP | TSS1500 | opensea | TSS1500-op | | rs5610226 | 6 |
| cg0036034 | 0.20023 | 0.728907 | 6.15207 | 0.000334 | 0.004542 | 0.448913 | 0.628792 | 0.829022 | -0.20023 | 21 | 30590362 | R | II | LINC00189 | Body | opensea | Body-opens | | rs5277952 | 34 |
| cg0704579 | 0.217654 | 0.751045 | 6.149468 | 0.000335 | 0.004549 | 0.445994 | 0.642218 | 0.859872 | -0.21765 | 6 | 1.17E+08 | F | II | DSE | 5'UTR | opensea | 5'UTR-open | | rs1170718 | 16 |
| cg2093376 | 0.218587 | 0.450276 | 6.148591 | 0.000335 | 0.004551 | 0.44501 | 0.340983 | 0.559569 | -0.21859 | 1 | 51565956 | F | II | | IGR | opensea | IGR-opense | | rs5337805 | 40 |
| cg0272672 | 0.203146 | 0.410005 | 6.148024 | 0.000335 | 0.004552 | 0.444374 | 0.308432 | 0.511578 | -0.20315 | 20 | 48510804 | R | II | | IGR | opensea | IGR-opense | | rs5543041 | 24;13 |
| cg1159126 | 0.2083 | 0.448607 | 6.147655 | 0.000335 | 0.004553 | 0.44396 | 0.344457 | 0.552757 | -0.2083 | 5 | 1.34E+08 | R | II | | IGR | shelf | IGR-shelf | chr5:1343 | rs1924273 | 38;9 |
| cg2344312 | 0.259523 | 0.594789 | 6.146837 | 0.000336 | 0.004555 | 0.443041 | 0.465028 | 0.72455 | -0.25952 | 3 | 75229143 | F | II | | IGR | opensea | IGR-opense | | rs7520451 | 0 |
| cg0613619 | 0.213869 | 0.585988 | 6.144876 | 0.000336 | 0.004559 | 0.440841 | 0.479054 | 0.692923 | -0.21387 | 11 | 9597577 | R | II | WEE1 | Body | shore | Body-shore | chr11:959 | rs5701328 | 46 |
| cg1871114 | 0.216155 | 0.615823 | 6.144023 | 0.000337 | 0.004562 | 0.439882 | 0.507746 | 0.723901 | -0.21615 | 12 | 90354632 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0372542 | 0.202239 | 0.692736 | 6.142882 | 0.000337 | 0.004565 | 0.438602 | 0.591616 | 0.793855 | -0.20224 | 8 | 6274713 | R | II | MCPH1 | Body | opensea | Body-opens | | rs1391897 | 50;40;35 |
| cg2159548 | 0.218151 | 0.419063 | 6.142738 | 0.000337 | 0.004565 | 0.43844 | 0.309988 | 0.528139 | -0.21815 | 5 | 86275685 | R | II | | IGR | opensea | IGR-opense | | rs5634198 | 1 |
| cg1228056 | 0.23467 | 0.615696 | 6.139969 | 0.000338 | 0.004573 | 0.43533 | 0.498361 | 0.733031 | -0.23467 | 13 | 74023278 | R | II | | IGR | opensea | IGR-opense | | rs7327719 | 49;41;29;9 |
| cg2519311 | 0.219426 | 0.54113 | 6.13802 | 0.000339 | 0.004579 | 0.433141 | 0.431417 | 0.650843 | -0.21943 | 8 | 1.19E+08 | F | II | EXT1 | Body | opensea | Body-opens | | | |
| cg2219891 | 0.204725 | 0.643837 | 6.137271 | 0.000339 | 0.004581 | 0.4323 | 0.541474 | 0.7462 | -0.20473 | 2 | 2.11E+08 | F | II | MAP2 | 5'UTR | opensea | 5'UTR-open | | rs5652839 | 39 |
| cg0695472 | 0.206246 | 0.746177 | 6.137215 | 0.000339 | 0.004581 | 0.432237 | 0.643054 | 0.8493 | -0.20625 | 3 | 1.49E+08 | R | II | COMMD2 | 3'UTR | opensea | 3'UTR-open | | rs5748644 | 5 |
| cg2211841 | 0.242563 | 0.673233 | 6.135548 | 0.00034 | 0.004587 | 0.430363 | 0.551951 | 0.794514 | -0.24256 | 4 | 1.41E+08 | R | II | MGST2 | Body | shelf | Body-shelf | chr4:1406 | rs1916369 | 47;42;40;30 |
| cg0046772 | 0.201938 | 0.677086 | 6.135303 | 0.00034 | 0.004588 | 0.430089 | 0.576117 | 0.778055 | -0.20194 | 1 | 60323018 | F | II | HOOK1 | Body | opensea | Body-opens | | rs1385929 | 1;26;29;30 |
| cg2732142 | 0.200967 | 0.715369 | 6.134937 | 0.00034 | 0.004588 | 0.429677 | 0.614885 | 0.815852 | -0.20097 | 17 | 17930884 | F | II | ATPAF2 | Body | opensea | Body-opens | | rs5501540 | 0 |
| cg1679132 | 0.233849 | 0.444868 | 6.133788 | 0.00034 | 0.004592 | 0.428385 | 0.327944 | 0.561793 | -0.23385 | 7 | 1.33E+08 | R | II | EXOC4 | Body | opensea | Body-opens | | rs5347521 | 6 |
| cg0945184 | 0.226449 | 0.625914 | 6.129718 | 0.000342 | 0.004601 | 0.423809 | 0.51269 | 0.739139 | -0.22645 | 11 | 10613643 | F | II | MRVI1-AS1 | Body | opensea | Body-opens | | rs1483056 | 8;15 |
| cg0964643 | 0.209733 | 0.625973 | 6.12957 | 0.000342 | 0.004601 | 0.423643 | 0.521106 | 0.730839 | -0.20973 | 11 | 27543361 | R | II | BDNF-AS | Body | opensea | Body-opens | | | |
| cg0721643 | 0.219476 | 0.601833 | 6.129432 | 0.000342 | 0.004602 | 0.423488 | 0.492095 | 0.711571 | -0.21948 | 3 | 1.55E+08 | R | II | | IGR | opensea | IGR-opense | | rs6227733 | 16;1 |
| cg0616053 | 0.246408 | 0.710359 | 6.128287 | 0.000342 | 0.004605 | 0.4222 | 0.587155 | 0.833563 | -0.24641 | 1 | 2.45E+08 | R | II | ADSS | Body | opensea | Body-opens | | | |
| cg0572875 | 0.283295 | 0.442323 | 6.127884 | 0.000342 | 0.004606 | 0.421747 | 0.300675 | 0.583971 | -0.2833 | 14 | 1.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs5773501 | 45 |
| cg1076658 | 0.204025 | 0.644417 | 6.125242 | 0.000343 | 0.004613 | 0.418775 | 0.542404 | 0.74643 | -0.20403 | 3 | 1.33E+08 | F | II | | IGR | opensea | IGR-opense | | rs5313414 | 0;1;35;43 |
| cg0243298 | 0.223554 | 0.418008 | 6.123858 | 0.000344 | 0.004617 | 0.417217 | 0.306231 | 0.529785 | -0.22355 | 6 | 51166932 | R | II | | IGR | opensea | IGR-opense | | rs5726426 | 34 |
| cg2237449 | 0.212782 | 0.426118 | 6.122354 | 0.000344 | 0.004622 | 0.415525 | 0.319727 | 0.532509 | -0.21278 | 7 | 87757366 | R | II | ADAM22 | Body | opensea | Body-opens | | rs1429471 | 26;2;1 |
| cg0292767 | 0.221208 | 0.646957 | 6.1189 | 0.000346 | 0.004632 | 0.411636 | 0.536353 | 0.757561 | -0.22121 | 10 | 1.12E+08 | R | II | DUSP5 | Body | shore | Body-shore | chr10:112 | rs1136711 | 46;40;29 |
| cg1059491 | 0.22012 | 0.657292 | 6.118793 | 0.000346 | 0.004632 | 0.411515 | 0.547232 | 0.767352 | -0.22012 | 21 | 16123879 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0345619 | 0.234192 | 0.63998 | 6.118022 | 0.000346 | 0.004634 | 0.410648 | 0.522885 | 0.757076 | -0.23419 | 13 | 60057351 | R | II | | IGR | opensea | IGR-opense | | rs5486042 | 33;2 |
| cg0487384 | 0.222145 | 0.48957 | 6.117801 | 0.000346 | 0.004635 | 0.410398 | 0.378497 | 0.600643 | -0.22215 | 8 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs5628726 | 0 |
| cg0140364 | 0.222699 | 0.69146 | 6.114922 | 0.000347 | 0.004642 | 0.407156 | 0.580111 | 0.80281 | -0.2227 | 15 | 60818455 | R | II | RORA-AS1 | Body | opensea | Body-opens | | rs5645905 | 46;31;2;1 |
| cg2174096 | 0.206588 | 0.75354 | 6.113384 | 0.000348 | 0.004646 | 0.405423 | 0.650246 | 0.856834 | -0.20659 | 6 | 1.39E+08 | R | II | REPS1 | Body | opensea | Body-opens | | rs5669392 | 46;10;2 |
| cg1329800 | 0.21455 | 0.68905 | 6.112824 | 0.000348 | 0.004647 | 0.404792 | 0.581775 | 0.796325 | -0.21455 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | | rs5494821 | 2 |
| cg1238888 | 0.206089 | 0.651014 | 6.111613 | 0.000348 | 0.004651 | 0.403427 | 0.54797 | 0.754059 | -0.20609 | 19 | 55128473 | R | II | LILRB1 | 1stExon | opensea | 1stExon-op | | rs5352474 | 9;3;1 |
| cg0257808 | 0.217015 | 0.509637 | 6.108613 | 0.000349 | 0.004659 | 0.400046 | 0.401129 | 0.618144 | -0.21702 | 3 | 8671361 | F | I | C3orf32 | Body | opensea | Body-opens | | rs1449886 | 0;9;15;23;25;29;30 |
| cg1820339 | 0.20329 | 0.448811 | 6.107161 | 0.00035 | 0.004662 | 0.398409 | 0.347166 | 0.550456 | -0.20329 | 18 | 46338784 | R | II | CTIF | Body | opensea | Body-opens | | rs1894272 | 12 |
| cg2546468 | 0.221039 | 0.427372 | 6.106981 | 0.00035 | 0.004663 | 0.398206 | 0.316852 | 0.537891 | -0.22104 | 15 | 71228228 | F | II | LRRC49 | Body | opensea | Body-opens | | | |
| cg0828227 | 0.200126 | 0.659416 | 6.105062 | 0.000351 | 0.004668 | 0.396042 | 0.559353 | 0.759479 | -0.20013 | 20 | 11904522 | F | II | BTBD3 | 3'UTR | opensea | 3'UTR-open | | rs1125681 | 0;1;26 |
| cg1555748 | 0.231652 | 0.588289 | 6.103869 | 0.000351 | 0.004671 | 0.394696 | 0.472463 | 0.704115 | -0.23165 | 17 | 59228220 | R | II | BCAS3 | Body | opensea | Body-opens | | rs1694489 | 47;38;20;7;1 |
| cg0066486 | 0.206249 | 0.556635 | 6.103273 | 0.000351 | 0.004673 | 0.394024 | 0.453511 | 0.659759 | -0.20625 | 11 | 16191645 | R | II | SOX6 | Body | opensea | Body-opens | | | |
| cg2073466 | 0.214186 | 0.430883 | 6.096137 | 0.000354 | 0.004694 | 0.385971 | 0.32379 | 0.537976 | -0.21419 | 2 | 47979699 | R | II | | IGR | opensea | IGR-opense | | rs406334 | 14 |
| cg1452657 | 0.237684 | 0.650157 | 6.093859 | 0.000355 | 0.0047 | 0.383398 | 0.531315 | 0.769 | -0.23768 | 7 | 1.39E+08 | F | II | HIPK2 | Body | opensea | Body-opens | | rs5480981 | 27 |
| cg2460532 | 0.236761 | 0.410701 | 6.09212 | 0.000356 | 0.004705 | 0.381434 | 0.29232 | 0.529081 | -0.23676 | 2 | 1.28E+08 | R | II | | IGR | shelf | IGR-shelf | chr2:1281 | rs5560920 | 16 |
| cg0422468 | 0.213918 | 0.636294 | 6.091678 | 0.000356 | 0.004706 | 0.380934 | 0.529335 | 0.743253 | -0.21392 | 18 | 36998320 | F | II | LINC00669 | Body | opensea | Body-opens | | rs5341935 | 15 |
| cg1174930 | 0.228158 | 0.641626 | 6.090669 | 0.000356 | 0.00471 | 0.379795 | 0.527547 | 0.755705 | -0.22816 | 2 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | rs1467888 | 1 |
| cg1358898 | 0.213544 | 0.455842 | 6.09027 | 0.000356 | 0.00471 | 0.379344 | 0.34907 | 0.562613 | -0.21354 | 13 | 73112437 | F | II | | IGR | opensea | IGR-opense | | rs1840069 | 3;6;34 |
| cg2442724 | 0.208957 | 0.400934 | 6.084308 | 0.000359 | 0.004728 | 0.372605 | 0.296455 | 0.505412 | -0.20896 | 1 | 12128100 | R | II | TNFRSF8 | Body | shelf | Body-shelf | chr1:1212 | | |
| cg0003844 | 0.201735 | 0.602958 | 6.082586 | 0.000359 | 0.004733 | 0.370658 | 0.502091 | 0.703826 | -0.20173 | 1 | 1.73E+08 | F | II | FASLG | 3'UTR | opensea | 3'UTR-open | | | |
| cg0130951 | 0.221156 | 0.598642 | 6.08196 | 0.000359 | 0.004735 | 0.36995 | 0.488064 | 0.70922 | -0.22116 | 10 | 1.26E+08 | F | II | CHST15 | Body | opensea | Body-opens | | | |
| cg1881075 | 0.214723 | 0.588254 | 6.080701 | 0.00036 | 0.004738 | 0.368527 | 0.480892 | 0.695615 | -0.21472 | 4 | 11604908 | R | II | | IGR | opensea | IGR-opense | | rs1250423 | 14 |
| cg0568941 | 0.207103 | 0.396704 | 6.07937 | 0.00036 | 0.004741 | 0.367021 | 0.293153 | 0.500256 | -0.2071 | 6 | 41885417 | R | II | MED20 | Body | shelf | Body-shelf | chr6:4188 | | |
| cg0632297 | 0.268283 | 0.514547 | 6.076109 | 0.000362 | 0.004751 | 0.363331 | 0.380405 | 0.648689 | -0.26828 | 16 | 81751391 | R | II | | IGR | opensea | IGR-opense | | rs5733245 | 7 |
| cg0787185 | 0.21634 | 0.600979 | 6.075758 | 0.000362 | 0.004752 | 0.362934 | 0.492809 | 0.709149 | -0.21634 | 7 | 1.21E+08 | F | II | | IGR | opensea | IGR-opense | | rs7842502 | 0;8;15;26;43 |
| cg2355991 | 0.207807 | 0.657786 | 6.07163 | 0.000363 | 0.004766 | 0.358261 | 0.553882 | 0.761689 | -0.20781 | 21 | 19859472 | R | II | | IGR | opensea | IGR-opense | | rs8004633 | 49 |
| cg1121398 | 0.231008 | 0.355817 | 6.071219 | 0.000364 | 0.004767 | 0.357795 | 0.240313 | 0.471321 | -0.23101 | 17 | 63652954 | F | II | CCDC46 | Body | opensea | Body-opens | | rs5521492 | 13 |
| cg1524025 | 0.205186 | 0.660523 | 6.070525 | 0.000364 | 0.004769 | 0.35701 | 0.557929 | 0.763116 | -0.20519 | 14 | 93192682 | F | II | LGMN | Body | opensea | Body-opens | | rs1145945 | 7;18 |
| cg1689078 | 0.209862 | 0.566207 | 6.069944 | 0.000364 | 0.004771 | 0.356352 | 0.461276 | 0.671138 | -0.20986 | 18 | 10015219 | R | II | | IGR | opensea | IGR-opense | | rs1859893 | 27;10;2 |
| cg1518416 | 0.236079 | 0.542217 | 6.063803 | 0.000366 | 0.004788 | 0.349393 | 0.424178 | 0.660257 | -0.23608 | 18 | 13019478 | R | II | CEP192 | Body | opensea | Body-opens | | rs1865096 | 47 |
| cg2303954 | 0.204207 | 0.5576 | 6.062713 | 0.000367 | 0.004791 | 0.348158 | 0.455497 | 0.659703 | -0.20421 | 19 | 36406598 | F | II | | IGR | opensea | IGR-opense | | rs5475719 | 0;3 |
| cg2442625 | 0.279232 | 0.599696 | 6.057009 | 0.000369 | 0.004807 | 0.34169 | 0.46008 | 0.739312 | -0.27923 | 12 | 94703450 | R | II | CEP83 | Body | opensea | Body-opens | | rs7336859 | 42 |
| cg2592218 | 0.217904 | 0.353629 | 6.055439 | 0.00037 | 0.004811 | 0.339909 | 0.244677 | 0.462581 | -0.2179 | 4 | 693321 | R | II | | IGR | opensea | IGR-opense | | rs5384365 | 11;10 |
| cg1216625 | 0.204704 | 0.675768 | 6.055075 | 0.00037 | 0.004812 | 0.339496 | 0.573416 | 0.77812 | -0.2047 | 2 | 2.18E+08 | R | II | DIRC3 | Body | opensea | Body-opens | | rs5636514 | 40;2 |
| cg1903537 | 0.20802 | 0.754537 | 6.049889 | 0.000372 | 0.004829 | 0.333611 | 0.650527 | 0.858547 | -0.20802 | 15 | 57091151 | R | II | | IGR | opensea | IGR-opense | | rs5514763 | 19;1 |
| cg0018495 | 0.247293 | 0.543468 | 6.045116 | 0.000374 | 0.004845 | 0.328191 | 0.419821 | 0.667115 | -0.24729 | 6 | 31146222 | R | II | PSORS1C3 | TSS1500 | shelf | TSS1500-sh | chr6:3114 | rs5477293 | 48;16 |
| cg2290308 | 0.206427 | 0.648673 | 6.044619 | 0.000374 | 0.004846 | 0.327626 | 0.545459 | 0.751886 | -0.20643 | 22 | 30774829 | R | II | KIAA1656 | TSS1500 | opensea | TSS1500-op | | rs5447642 | 49 |
| cg1731783 | 0.218543 | 0.584744 | 6.043015 | 0.000375 | 0.00485 | 0.325804 | 0.475472 | 0.694015 | -0.21854 | 4 | 86647985 | F | II | ARHGAP24 | Body | opensea | Body-opens | | rs1312727 | 23;24 |
| cg0340275 | 0.201124 | 0.643381 | 6.040439 | 0.000376 | 0.004858 | 0.322877 | 0.542819 | 0.743943 | -0.20112 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs5768704 | 34;20;8;3;1 |
| cg0208585 | 0.211322 | 0.536532 | 6.040073 | 0.000376 | 0.004859 | 0.322461 | 0.430871 | 0.642193 | -0.21132 | 8 | 1.26E+08 | F | II | | IGR | opensea | IGR-opense | | rs1146238 | 0;28;37;42 |
| cg2203248 | 0.211468 | 0.471133 | 6.038941 | 0.000376 | 0.004863 | 0.321174 | 0.365398 | 0.576867 | -0.21147 | 19 | 18531769 | R | II | SSBP4 | Body | shore | Body-shore | chr19:185 | | |
| cg2380178 | 0.223977 | 0.606012 | 6.035701 | 0.000378 | 0.004873 | 0.317491 | 0.494023 | 0.718 | -0.22398 | 18 | 66471057 | R | II | CCDC102B | 5'UTR | opensea | 5'UTR-open | | rs5460965 | 1 |
| cg0736319 | 0.226563 | 0.474116 | 6.035481 | 0.000378 | 0.004873 | 0.317241 | 0.360835 | 0.587398 | -0.22656 | 19 | 7764549 | F | II | FCER2 | Body | opensea | Body-opens | | rs5312756 | 14;40 |
| cg2084461 | 0.208666 | 0.702314 | 6.034585 | 0.000378 | 0.004876 | 0.316221 | 0.597981 | 0.806647 | -0.20867 | 4 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | rs5273881 | 2 |
| cg1843678 | 0.306141 | 0.521274 | 6.033917 | 0.000378 | 0.004878 | 0.315462 | 0.368204 | 0.674345 | -0.30614 | 1 | 3704244 | F | II | LRRC47 | Body | shore | Body-shore | chr1:3703 | rs5391909 | 0;14;26 |
| cg1983575 | 0.200564 | 0.605739 | 6.032504 | 0.000379 | 0.004883 | 0.313855 | 0.505458 | 0.706021 | -0.20056 | 1 | 1.58E+08 | F | II | KIRREL | Body | opensea | Body-opens | | | |
| cg1881748 | 0.202244 | 0.447872 | 6.032473 | 0.000379 | 0.004883 | 0.31382 | 0.34675 | 0.548994 | -0.20224 | 12 | 96390143 | R | II | HAL | TSS200 | shore | TSS200-shc | chr12:963 | rs7786900 | 49;2 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1529342 | 0.201946 | 0.561844 | 6.029129 | 0.00038 | 0.004894 | 0.310014 | 0.460871 | 0.662817 | -0.20195 | 2 | 37897716 | F | II | CDC42EP3 | 5'UTR | shore | 5'UTR-shor | chr2:3789 | rs1133621 | 0;34 | | | |
| cg0914526 | 0.20183 | 0.419855 | 6.028499 | 0.00038 | 0.004896 | 0.309297 | 0.31894 | 0.52077 | -0.20183 | 7 | 82439869 | F | II | PCLO | Body | opensea | Body-opens | | | | | | |
| cg0532065 | 0.20269 | 0.517149 | 6.025089 | 0.000382 | 0.004907 | 0.305416 | 0.415804 | 0.618494 | -0.20269 | 12 | 1.01E+08 | R | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0075942 | 0.291262 | 0.798235 | 6.023007 | 0.000383 | 0.004913 | 0.303044 | 0.652604 | 0.943866 | -0.29126 | 11 | 1.18E+08 | F | II | MPZL3 | Body | opensea | Body-opens | | rs5690549 | 0;1;8;8 | | | |
| cg0561531 | 0.225287 | 0.572373 | 6.022959 | 0.000383 | 0.004913 | 0.30299 | 0.45973 | 0.685016 | -0.22529 | 21 | 47355791 | F | II | PCBP3 | Body | opensea | Body-opens | | rs1878753 | 1;7;13;34;48 | | | |
| cg0874342 | 0.205001 | 0.650925 | 6.022401 | 0.000383 | 0.004915 | 0.302355 | 0.548424 | 0.753425 | -0.205 | 10 | 49709571 | F | II | ARHGAP22 | Body | opensea | Body-opens | | rs1829528 | 0;21 | | | |
| cg2606486 | 0.216941 | 0.734848 | 6.022025 | 0.000383 | 0.004916 | 0.301927 | 0.626377 | 0.843319 | -0.21694 | 20 | 36485420 | R | II | CTNNBL1 | Body | opensea | Body-opens | | rs7571718 | 2;1 | | | |
| cg0656792 | 0.227852 | 0.598291 | 6.019326 | 0.000384 | 0.004924 | 0.298852 | 0.484365 | 0.712216 | -0.22785 | 4 | 1.3E+08 | R | II | | IGR | opensea | IGR-opense | | rs5715472 | 42;20 | | | |
| cg0947243 | 0.207595 | 0.746018 | 6.019318 | 0.000384 | 0.004924 | 0.298843 | 0.642221 | 0.849815 | -0.20759 | 2 | 1.8E+08 | R | II | CCDC141 | Body | opensea | Body-opens | | | | | | |
| cg0481984 | 0.218255 | 0.564926 | 6.016964 | 0.000385 | 0.004932 | 0.296159 | 0.455798 | 0.674053 | -0.21826 | 5 | 78389591 | F | II | | IGR | opensea | IGR-opense | | rs5566906 | 12;24 | | | |
| cg1413400 | 0.21065 | 0.564068 | 6.016182 | 0.000386 | 0.004934 | 0.295269 | 0.458743 | 0.669393 | -0.21065 | 9 | 88952877 | R | II | ZCCHC6 | Body | opensea | Body-opens | | rs1120622 | 6;2;1 | | | |
| cg1840983 | 0.208223 | 0.623832 | 6.016114 | 0.000386 | 0.004934 | 0.295192 | 0.51972 | 0.727943 | -0.20822 | 3 | 45164698 | F | II | CDCP1 | Body | opensea | Body-opens | | | | | | |
| cg0955604 | 0.201406 | 0.65861 | 6.014147 | 0.000386 | 0.004942 | 0.292949 | 0.557906 | 0.759313 | -0.20141 | 5 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs1163343 | 39;19;8 | | | |
| cg1006939 | 0.202179 | 0.546424 | 6.013736 | 0.000387 | 0.004944 | 0.292481 | 0.445335 | 0.647514 | -0.20218 | 11 | 1.19E+08 | F | II | | IGR | shelf | IGR-shelf | chr11:119 | | | | | |
| cg1908439 | 0.229117 | 0.705567 | 6.010963 | 0.000388 | 0.004952 | 0.289318 | 0.591009 | 0.820125 | -0.22912 | 6 | 41237112 | F | II | | IGR | opensea | IGR-opense | | rs5299064 | 0 | | | |
| cg1026186 | 0.229547 | 0.463459 | 6.004239 | 0.00039 | 0.004975 | 0.281647 | 0.348686 | 0.578233 | -0.22955 | 1 | 2.24E+08 | F | II | CAPN2 | Body | shore | Body-shore | chr1:2238 | rs5426255 | 2 | | | |
| cg1929371 | 0.256207 | 0.568785 | 6.004111 | 0.000391 | 0.004975 | 0.281501 | 0.440682 | 0.696889 | -0.25621 | 1 | 58343972 | F | II | DAB1 | 5'UTR | opensea | 5'UTR-open | | rs1844400 | 0;2;11;12;18;23 | | | |
| cg1913837 | 0.256567 | 0.441149 | 6.003624 | 0.000391 | 0.004977 | 0.280945 | 0.312865 | 0.569432 | -0.25657 | 2 | 1.49E+08 | R | II | | IGR | opensea | IGR-opense | | rs5435285 | 7 | | | |
| cg1294630 | 0.207281 | 0.681334 | 5.998397 | 0.000393 | 0.004993 | 0.274976 | 0.577693 | 0.784974 | -0.20728 | 1 | 2.28E+08 | R | II | | IGR | opensea | IGR-opense | | rs1840363 | 34;8 | | | |
| cg0268434 | 0.204296 | 0.676595 | 5.997602 | 0.000393 | 0.004995 | 0.274068 | 0.574447 | 0.778743 | -0.2043 | 13 | 21644106 | R | II | | IGR | opensea | IGR-opense | | rs5669690 | 29;17;6 | | | |
| cg0512580 | 0.212267 | 0.593381 | 5.992613 | 0.000395 | 0.005009 | 0.268367 | 0.487248 | 0.699515 | -0.21227 | 6 | 30687159 | F | II | TUBB | TSS1500 | shore | TSS1500-sh | chr6:3068 | rs5500037 | 29 | | | |
| cg1195308 | 0.202615 | 0.523593 | 5.991989 | 0.000396 | 0.005011 | 0.267654 | 0.422286 | 0.6249 | -0.20261 | 2 | 2.17E+08 | F | II | | IGR | shelf | IGR-shelf | chr2:2172 | rs5326480 | 1 | | | |
| cg0052437 | 0.209111 | 0.317098 | 5.991297 | 0.000396 | 0.005013 | 0.266864 | 0.212543 | 0.421654 | -0.20911 | 10 | 3894968 | F | II | | IGR | opensea | IGR-opense | | rs1456447 | 0;1;24;39 | | | |
| cg1562715 | 0.204453 | 0.67233 | 5.989784 | 0.000397 | 0.005018 | 0.265133 | 0.570103 | 0.774556 | -0.20445 | 8 | 99007860 | R | II | MATN2 | Body | opensea | Body-opens | | rs1465056 | 1 | | | |
| cg0540889 | 0.225795 | 0.353136 | 5.988915 | 0.000397 | 0.005021 | 0.26414 | 0.240238 | 0.466033 | -0.22579 | 3 | 59372081 | F | II | | IGR | opensea | IGR-opense | | rs1446837 | 0;8 | | | |
| cg1967954 | 0.230275 | 0.563009 | 5.987613 | 0.000397 | 0.005025 | 0.262651 | 0.447872 | 0.678147 | -0.23027 | 1 | 56394286 | R | II | | IGR | opensea | IGR-opense | | rs1495852 | 23 | | | |
| cg0939330 | 0.253744 | 0.480152 | 5.985818 | 0.000398 | 0.005031 | 0.260598 | 0.35328 | 0.607024 | -0.25374 | 2 | 2.01E+08 | R | II | TYW5 | Body | opensea | Body-opens | | rs1808259 | 50;2 | | | |
| cg0875074 | 0.226832 | 0.604309 | 5.985346 | 0.000398 | 0.005032 | 0.260058 | 0.490893 | 0.717725 | -0.22683 | 6 | 1.57E+08 | F | II | ARID1B | Body | opensea | Body-opens | | | | | | |
| cg0430209 | 0.200946 | 0.519858 | 5.983964 | 0.000399 | 0.005037 | 0.258477 | 0.419385 | 0.620331 | -0.20095 | 10 | 71574996 | R | II | COL13A1 | Body | opensea | Body-opens | | rs7606557 | 42;32;31 | | | |
| cg1258477 | 0.226528 | 0.482387 | 5.983523 | 0.000399 | 0.005038 | 0.257972 | 0.369123 | 0.595651 | -0.22653 | 16 | 84785063 | R | II | USP10 | Body | opensea | Body-opens | | rs5600168 | 42;38;32;1 | | | |
| cg0803980 | 0.215524 | 0.578302 | 5.982861 | 0.0004 | 0.00504 | 0.257214 | 0.47054 | 0.686064 | -0.21552 | 2 | 1.85E+08 | F | II | ZNF804A | Body | opensea | Body-opens | | rs5772277 | 0;7 | | | |
| cg0477734 | 0.21435 | 0.601608 | 5.979137 | 0.000401 | 0.005053 | 0.252952 | 0.494433 | 0.708783 | -0.21435 | 1 | 92952897 | F | II | GFI1 | TSS1500 | shore | TSS1500-sh | chr1:9294 | rs1921940 | 46 | | | |
| cg0759554 | 0.222617 | 0.524902 | 5.97898 | 0.000401 | 0.005054 | 0.252773 | 0.413594 | 0.636211 | -0.22262 | 13 | 77919764 | F | II | | IGR | opensea | IGR-opense | | rs5666234 | 28 | | | |
| cg0402895 | 0.206011 | 0.600151 | 5.977569 | 0.000402 | 0.005058 | 0.251157 | 0.497145 | 0.703157 | -0.20601 | 11 | 43942451 | R | II | ALKBH3-AS | Body | opensea | Body-opens | | rs1818866 | 42;34;25;6;2 | | | |
| cg0945958 | 0.20193 | 0.650961 | 5.977466 | 0.000402 | 0.005059 | 0.251039 | 0.549996 | 0.751926 | -0.20193 | 2 | 1.74E+08 | F | II | RAPGEF4 | Body | opensea | Body-opens | | rs5576631 | 7;21;24;40 | | | |
| cg1033265 | 0.207319 | 0.68792 | 5.977302 | 0.000402 | 0.005059 | 0.250852 | 0.584261 | 0.79158 | -0.20732 | 6 | 1.49E+08 | F | II | SASH1 | Body | opensea | Body-opens | | | | | | |
| cg2353245 | 0.259977 | 0.592246 | 5.977242 | 0.000402 | 0.00506 | 0.250782 | 0.462257 | 0.722234 | -0.25998 | 14 | 75910026 | F | II | JDP2 | Body | opensea | Body-opens | | rs1394330 | 0 | | | |
| cg0560415 | 0.213545 | 0.393469 | 5.976223 | 0.000402 | 0.005063 | 0.249616 | 0.286697 | 0.500242 | -0.21355 | 2 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs5407355 | 24;2;1 | | | |
| cg0392281 | 0.213448 | 0.399123 | 5.975331 | 0.000403 | 0.005067 | 0.248595 | 0.292399 | 0.505847 | -0.21345 | 15 | 90395025 | R | II | MIR5094 | TSS1500 | opensea | TSS1500-op | | rs5543948 | 24;19;1 | | | |
| cg1785709 | 0.281894 | 0.608811 | 5.974574 | 0.000403 | 0.005069 | 0.247727 | 0.467864 | 0.749758 | -0.28189 | 6 | 30907280 | F | II | DPCR1 | TSS1500 | opensea | TSS1500-op | | | | | | |
| cg1581551 | 0.204616 | 0.356492 | 5.972086 | 0.000404 | 0.005077 | 0.244877 | 0.254183 | 0.4588 | -0.20462 | 9 | 1.35E+08 | F | II | RAPGEF1 | TSS1500 | opensea | TSS1500-op | | rs5657732 | 35 | | | |
| cg0238485 | 0.21117 | 0.657029 | 5.970376 | 0.000405 | 0.005082 | 0.242918 | 0.551444 | 0.762614 | -0.21117 | 15 | 74862662 | R | II | ARID3B | Body | opensea | Body-opens | | rs1445572 | 1 | | | |
| cg1923816 | 0.201527 | 0.35793 | 5.970154 | 0.000405 | 0.005083 | 0.242663 | 0.257166 | 0.458694 | -0.20153 | 18 | 44944311 | R | II | | IGR | opensea | IGR-opense | | rs7524726 | 45;2 | | | |
| cg0032875 | 0.200184 | 0.7347 | 5.967638 | 0.000406 | 0.005091 | 0.23978 | 0.634609 | 0.834792 | -0.20018 | 17 | 71512508 | F | II | SDK2 | Body | opensea | Body-opens | | rs7453959 | 9 | | | |
| cg0055170 | 0.204905 | 0.704751 | 5.964292 | 0.000408 | 0.005103 | 0.235943 | 0.602299 | 0.807203 | -0.2049 | 2 | 68593813 | R | II | PLEK | Body | opensea | Body-opens | | rs5576304 | 51;42 | | | |
| cg1674952 | 0.200285 | 0.656156 | 5.962762 | 0.000408 | 0.005108 | 0.234188 | 0.556014 | 0.756299 | -0.20028 | 4 | 38730215 | F | II | | IGR | opensea | IGR-opense | | rs5665529 | 43 | | | |
| cg0322889 | 0.211717 | 0.665416 | 5.962639 | 0.000408 | 0.005108 | 0.234047 | 0.559558 | 0.771275 | -0.21172 | 5 | 37811554 | R | II | | IGR | opensea | IGR-opense | | rs1869618 | 51;2;1 | | | |
| cg0474466 | 0.208535 | 0.569927 | 5.960159 | 0.000409 | 0.005116 | 0.231202 | 0.465659 | 0.674194 | -0.20854 | 1 | 1.2E+08 | F | II | HSD3B2 | TSS1500 | opensea | TSS1500-op | | rs5876530 | 0;27 | | | |
| cg0837793 | 0.216457 | 0.729152 | 5.958823 | 0.00041 | 0.005121 | 0.229668 | 0.620924 | 0.83738 | -0.21646 | 21 | 32654600 | F | II | TIAM1 | 5'UTR | opensea | 5'UTR-open | | rs1924169 | 0 | | | |
| cg1395184 | 0.216116 | 0.556126 | 5.955747 | 0.000411 | 0.005131 | 0.226138 | 0.448068 | 0.664184 | -0.21612 | 6 | 1.53E+08 | R | II | | IGR | opensea | IGR-opense | | rs1892999 | 2 | | | |
| cg1770343 | 0.226261 | 0.605394 | 5.954637 | 0.000412 | 0.005134 | 0.224864 | 0.492263 | 0.718525 | -0.22626 | 7 | 22186517 | R | II | RAPGEF5 | ExonBnd | opensea | ExonBnd-op | | rs5342141 | 1 | | | |
| cg1887592 | 0.210056 | 0.703241 | 5.951146 | 0.000413 | 0.005145 | 0.220855 | 0.598213 | 0.808269 | -0.21006 | 5 | 1.16E+08 | R | II | SEMA6A | 5'UTR | opensea | 5'UTR-open | | rs5441291 | 5;2 | | | |
| cg1536175 | 0.247425 | 0.532901 | 5.947979 | 0.000415 | 0.005157 | 0.217217 | 0.409188 | 0.656613 | -0.24743 | 19 | 47839132 | F | II | GPR77 | TSS1500 | opensea | TSS1500-op | | rs1907772 | 1;12;13 | | | |
| cg0862682 | 0.217611 | 0.594333 | 5.945729 | 0.000416 | 0.005164 | 0.214632 | 0.485528 | 0.703138 | -0.21761 | 6 | 47246556 | R | II | TNFRSF21 | Body | opensea | Body-opens | | rs5539923 | 47;1 | | | |
| cg2237999 | 0.204238 | 0.614812 | 5.944369 | 0.000416 | 0.005168 | 0.213068 | 0.512693 | 0.716931 | -0.20424 | 13 | 35246973 | F | II | | IGR | opensea | IGR-opense | | rs5463779 | 0;18 | | | |
| cg1339990 | 0.225729 | 0.597895 | 5.943739 | 0.000417 | 0.00517 | 0.212343 | 0.485031 | 0.71076 | -0.22573 | 15 | 50352288 | F | II | ATP8B4 | Body | opensea | Body-opens | | rs5693275 | 28 | | | |
| cg2095918 | 0.219912 | 0.472186 | 5.943676 | 0.000417 | 0.00517 | 0.212271 | 0.36223 | 0.582142 | -0.21991 | 3 | 1.41E+08 | F | II | ZBTB38 | 5'UTR | shore | 5'UTR-shor | chr3:1411 | rs1159408 | 22 | | | |
| cg1750760 | 0.282129 | 0.585835 | 5.9403 | 0.000418 | 0.005181 | 0.208389 | 0.444771 | 0.7269 | -0.28213 | 1 | 68113012 | F | II | | IGR | opensea | IGR-opense | | rs1157257 | 0;5;13;15;38;46 | | | |
| cg0510693 | 0.208109 | 0.610361 | 5.937294 | 0.00042 | 0.005191 | 0.204931 | 0.506306 | 0.714415 | -0.20811 | 12 | 1.05E+08 | F | II | CHST11 | Body | opensea | Body-opens | | rs5443807 | 0;37 | | | |
| cg2540714 | 0.235103 | 0.409933 | 5.936377 | 0.00042 | 0.005194 | 0.203876 | 0.292381 | 0.527484 | -0.2351 | 2 | 2.02E+08 | R | II | CFLAR | 5'UTR | opensea | 5'UTR-open | | rs1906771 | 1 | | | |
| cg1704527 | 0.222224 | 0.53545 | 5.935968 | 0.00042 | 0.005196 | 0.203406 | 0.424338 | 0.646563 | -0.22222 | 15 | 34031677 | R | II | RYR3 | Body | opensea | Body-opens | | rs1438528 | 2 | | | |
| cg1736833 | 0.210845 | 0.5339 | 5.932124 | 0.000422 | 0.005209 | 0.198981 | 0.428478 | 0.639323 | -0.21084 | 14 | 20691244 | F | II | OR11H6 | TSS1500 | opensea | TSS1500-op | | rs1419644 | 0;25 | | | |
| cg2338488 | 0.357675 | 0.50071 | 5.931492 | 0.000422 | 0.005211 | 0.198254 | 0.321873 | 0.679547 | -0.35767 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1887178 | 3;20 | | | |
| cg0956183 | 0.23142 | 0.666469 | 5.931489 | 0.000422 | 0.005211 | 0.198251 | 0.550759 | 0.782178 | -0.23142 | 13 | 1E+08 | R | II | UBAC2 | Body | opensea | Body-opens | | rs5514188 | 32;18 | | | |
| cg1454340 | 0.232308 | 0.601575 | 5.930743 | 0.000423 | 0.005213 | 0.197392 | 0.48542 | 0.717729 | -0.23231 | 15 | 61503408 | F | II | RORA | Body | opensea | Body-opens | | rs5457934 | 24;25 | | | |
| cg0487683 | 0.248774 | 0.560101 | 5.92976 | 0.000423 | 0.005216 | 0.196259 | 0.435714 | 0.684488 | -0.24877 | 5 | 33273644 | F | II | | IGR | opensea | IGR-opense | | rs2331189 | 11;24;33;47 | | | |
| cg2235581 | 0.254592 | 0.490675 | 5.928322 | 0.000424 | 0.005221 | 0.194604 | 0.363379 | 0.617971 | -0.25459 | 15 | 55987115 | F | II | PRTG | Body | opensea | Body-opens | | | | | | |
| cg1665179 | 0.228546 | 0.449915 | 5.926434 | 0.000424 | 0.005227 | 0.19243 | 0.335642 | 0.564188 | -0.22855 | 18 | 715830 | F | II | | IGR | shelf | IGR-shelf | chr18:712 | rs5305979 | 0 | | | |
| cg0111733 | 0.239552 | 0.593333 | 5.924452 | 0.000425 | 0.005233 | 0.190146 | 0.473557 | 0.71311 | -0.23955 | 11 | 73737124 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg0094780 | 0.226048 | 0.560892 | 5.923864 | 0.000426 | 0.005235 | 0.189469 | 0.447868 | 0.673916 | -0.22605 | 10 | 73124633 | F | II | | IGR | opensea | IGR-opense | | | | | | |
| cg2482155 | 0.200546 | 0.680556 | 5.922924 | 0.000426 | 0.005238 | 0.188385 | 0.580283 | 0.780829 | -0.20055 | 13 | 51639953 | F | II | GUCY1B2 | Body | opensea | Body-opens | | rs1418478 | 0;28 | | | |
| cg0045886 | 0.206179 | 0.582963 | 5.922353 | 0.000426 | 0.00524 | 0.187727 | 0.479873 | 0.686052 | -0.20618 | 9 | 17047562 | F | II | | IGR | opensea | IGR-opense | | rs428996;r | 15;22;50 | | | |
| cg1822589 | 0.223283 | 0.436103 | 5.920572 | 0.000427 | 0.005246 | 0.185674 | 0.324461 | 0.547744 | -0.22328 | 6 | 80087320 | F | II | | IGR | opensea | IGR-opense | | rs1410107 | 1;41 | | | |
| cg1960247 | 0.209383 | 0.652515 | 5.918591 | 0.000428 | 0.005252 | 0.18339 | 0.547823 | 0.757206 | -0.20938 | 1 | 1.58E+08 | R | II | FCRL3 | TSS1500 | opensea | TSS1500-op | | rs7710098 | 7 | | | |
| cg2231151 | 0.204014 | 0.697604 | 5.917295 | 0.000429 | 0.005257 | 0.181895 | 0.595596 | 0.799611 | -0.20401 | 11 | 60050143 | F | II | MS4A4A | Body | opensea | Body-opens | | rs5678381 | 1;15;25 | | | |
| cg1918775 | 0.209885 | 0.66869 | 5.917238 | 0.000429 | 0.005257 | 0.18183 | 0.563747 | 0.773632 | -0.20989 | 3 | 23753801 | F | II | | IGR | opensea | IGR-opense | | rs1894914 | 20;46 | | | |
| cg2260951 | 0.238816 | 0.484207 | 5.912981 | 0.000431 | 0.005271 | 0.176919 | 0.364799 | 0.603615 | -0.23882 | 7 | 28891164 | R | II | | IGR | shelf | IGR-shelf | chr7:2889 | rs763811;r | 44;33;19;17;2 | | | |
| cg1613996 | 0.201642 | 0.604273 | 5.912969 | 0.000431 | 0.005271 | 0.176905 | 0.503452 | 0.705094 | -0.20164 | 19 | 33181245 | F | II | | IGR | shore | IGR-shore | chr19:331 | rs5652513 | 1;35 | | | |
| cg2008677 | 0.200062 | 0.672726 | 5.912715 | 0.000431 | 0.005272 | 0.176612 | 0.572695 | 0.772757 | -0.20006 | 13 | 51728871 | F | II | LINC00371 | Body | opensea | Body-opens | | | | | | |
| cg0197081 | 0.210446 | 0.595155 | 5.911793 | 0.000431 | 0.005275 | 0.175548 | 0.489932 | 0.700378 | -0.21045 | 19 | 39175171 | R | II | ACTN4 | Body | opensea | Body-opens | | rs5744856 | 16 | | | |
| cg2637284 | 0.212359 | 0.692126 | 5.911586 | 0.000431 | 0.005276 | 0.175309 | 0.585946 | 0.798305 | -0.21236 | 12 | 48918612 | F | II | OR8S1 | TSS1500 | shelf | TSS1500-sh | chr12:489 | rs1156749 | 0;1;19;34;47 | | | |
| cg0506940 | 0.200394 | 0.643104 | 5.90771 | 0.000433 | 0.005289 | 0.170836 | 0.542907 | 0.743301 | -0.20039 | 4 | 77815494 | R | II | | IGR | shelf | IGR-shelf | chr4:7781 | | | | | |
| cg1110802 | 0.208247 | 0.413417 | 5.907692 | 0.000433 | 0.005289 | 0.170815 | 0.309293 | 0.51754 | -0.20825 | 11 | 86004529 | R | II | | IGR | opensea | IGR-opense | | rs5492834 | 30;16;10 | | | |
| cg0545402 | 0.255067 | 0.553312 | 5.907511 | 0.000433 | 0.00529 | 0.170606 | 0.425778 | 0.680846 | -0.25507 | 1 | 1.53E+08 | F | II | S100A12 | TSS1500 | opensea | TSS1500-op | | rs5333639 | 0;45;48 | | | |
| cg2374903 | 0.202172 | 0.491969 | 5.904999 | 0.000434 | 0.005299 | 0.167705 | 0.390883 | 0.593055 | -0.20217 | 6 | 35165242 | R | II | | IGR | opensea | IGR-opense | | rs5510723 | 41;38;27 | | | |
| cg1617477 | 0.214978 | 0.629988 | 5.903143 | 0.000435 | 0.005305 | 0.165561 | 0.522499 | 0.737477 | -0.21498 | 18 | 59993903 | R | II | TNFRSF11A | Body | shore | Body-shore | chr18:599 | | | | | |
| cg2038624 | 0.245336 | 0.669549 | 5.902321 | 0.000436 | 0.005308 | 0.164612 | 0.546881 | 0.792217 | -0.24534 | 17 | 53239706 | F | II | STXBP4 | 3'UTR | opensea | 3'UTR-open | | rs5501491 | 1 | | | |
| cg2174204 | 0.202631 | 0.572337 | 5.900994 | 0.000436 | 0.005313 | 0.163079 | 0.471021 | 0.673652 | -0.20263 | 5 | 1.72E+08 | R | II | NEURL1B | Body | shelf | Body-shelf | chr5:1720 | rs6556039 | 50 | | | |
| cg1631744 | 0.22 | 0.708334 | 5.900803 | 0.000436 | 0.005313 | 0.162858 | 0.598334 | 0.818334 | -0.22 | 5 | 82979404 | R | II | HAPLN1 | 5'UTR | opensea | 5'UTR-open | | rs5318622 | 46;38;14 | | | |
| cg0103378 | 0.21145 | 0.42407 | 5.896867 | 0.000438 | 0.005327 | 0.158309 | 0.318345 | 0.529795 | -0.21145 | 1 | 1.93E+08 | F | II | | IGR | opensea | IGR-opense | | rs5340669 | 0;30 | | | |
| cg1502960 | 0.207588 | 0.686468 | 5.896233 | 0.000439 | 0.005329 | 0.157575 | 0.582674 | 0.790262 | -0.20759 | 7 | 47377238 | F | II | TNS3 | Body | opensea | Body-opens | | rs5558151 | 0;23;44 | | | |
| cg1419584 | 0.205226 | 0.607277 | 5.896106 | 0.000439 | 0.00533 | 0.157429 | 0.504664 | 0.70989 | -0.20523 | 1 | 2.37E+08 | R | II | ACTN2 | Body | opensea | Body-opens | | rs7834033 | 16;10;6;2 | | | |
| cg0899305 | 0.203775 | 0.425837 | 5.894878 | 0.000439 | 0.005334 | 0.15601 | 0.323949 | 0.527724 | -0.20378 | 12 | 43547905 | R | II | | IGR | opensea | IGR-opense | | rs1505199 | 47;29;2 | | | |
| cg2636158 | 0.200459 | 0.666132 | 5.890293 | 0.000441 | 0.005348 | 0.150706 | 0.565902 | 0.766361 | -0.20046 | 12 | 90353578 | F | II | | IGR | opensea | IGR-opense | | rs5704002 | 19;35;43;44;45 | | | |
| cg1731650 | 0.200405 | 0.422634 | 5.889825 | 0.000442 | 0.00535 | 0.150165 | 0.322431 | 0.522837 | -0.20041 | 7 | 25770971 | R | II | | IGR | opensea | IGR-opense | | rs1177211 | 49;7 | | | |
| cg1778323 | 0.216959 | 0.67453 | 5.888532 | 0.000442 | 0.005354 | 0.148669 | 0.566051 | 0.78301 | -0.21696 | 20 | 12828430 | F | II | | IGR | opensea | IGR-opense | | rs5288801 | 0;12 | | | |
| cg2409396 | 0.201882 | 0.664605 | 5.887447 | 0.000443 | 0.005357 | 0.147414 | 0.563664 | 0.765546 | -0.20188 | 10 | 19923599 | F | II | MALRD1 | Body | opensea | Body-opens | | rs1806839 | 26 | | | |
| cg1925773 | 0.200241 | 0.39187 | 5.884305 | 0.000444 | 0.005369 | 0.143776 | 0.29175 | 0.491991 | -0.20024 | 6 | 3274230 | F | II | SLC22A23 | Body | opensea | Body-opens | | | | | | |
| cg2157263 | 0.218528 | 0.457428 | 5.881424 | 0.000446 | 0.00538 | 0.14044 | 0.348164 | 0.566691 | -0.21853 | 1 | 2.39E+08 | F | II | | IGR | opensea | IGR-opense | | rs1683810 | 0 | | | |
| cg1726319 | 0.210966 | 0.65761 | 5.88135 | 0.000446 | 0.00538 | 0.140355 | 0.552127 | 0.763093 | -0.21097 | 22 | 32454525 | R | II | SLC5A1 | TSS1500 | opensea | TSS1500-op | | rs1431180 | 17 | | | |
| cg0813644 | 0.215921 | 0.662372 | 5.881195 | 0.000446 | 0.005381 | 0.140175 | 0.554411 | 0.770332 | -0.21592 | 17 | 14591840 | F | II | | IGR | opensea | IGR-opense | | rs5606065 | 29 | | | |
| cg2679911 | 0.203112 | 0.659989 | 5.878499 | 0.000447 | 0.00539 | 0.137052 | 0.558433 | 0.761545 | -0.20311 | 8 | 1.12E+08 | F | II | | IGR | opensea | IGR-opense | | rs5707769 | 1;28;38 | | | |
| cg0336157 | 0.218884 | 0.71441 | 5.873754 | 0.000449 | 0.005405 | 0.131553 | 0.604968 | 0.823852 | -0.21888 | 11 | 13113949 | R | II | | IGR | opensea | IGR-opense | | rs5735494 | 50;37;3 | | | |
| cg2151562 | 0.233868 | 0.527345 | 5.871961 | 0.00045 | 0.005412 | 0.129475 | 0.410411 | 0.644279 | -0.23387 | 3 | 1.52E+08 | F | II | | IGR | opensea | IGR-opense | | rs7665697 | 34;42 | | | |
| cg2683216 | 0.223997 | 0.532982 | 5.871114 | 0.000451 | 0.005415 | 0.128492 | 0.420984 | 0.644981 | -0.224 | 8 | 1.08E+08 | R | II | OXR1 | Body | opensea | Body-opens | | rs1435600 | 42 | | | |
| cg2682347 | 0.244587 | 0.505076 | 5.869371 | 0.000452 | 0.005422 | 0.126471 | 0.382783 | 0.62737 | -0.24459 | 1 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | | rs1185015 | 13;48 | | | |
| cg0604384 | 0.251714 | 0.466967 | 5.86903 | 0.000452 | 0.005423 | 0.126076 | 0.34111 | 0.592824 | -0.25171 | 1 | 94305094 | R | II | BCAR3 | 5'UTR | opensea | 5'UTR-open | | | | | | |
| cg0721548 | 0.273142 | 0.526442 | 5.868419 | 0.000452 | 0.005425 | 0.125367 | 0.389871 | 0.663013 | -0.27314 | 1 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5735933 | 26;14 | | | |
| cg1037380 | 0.234474 | 0.434809 | 5.866984 | 0.000453 | 0.00543 | 0.123703 | 0.317571 | 0.552046 | -0.23447 | 20 | 20469961 | R | II | RALGAPA2 | Body | opensea | Body-opens | | rs1698194 | 27 | | | |
| cg2079991 | 0.226184 | 0.306953 | 5.86675 | 0.000453 | 0.005431 | 0.123431 | 0.193861 | 0.420045 | -0.22618 | 2 | 38894198 | F | II | GALM | Body | opensea | Body-opens | | rs5301819 | 1;8 | | | |
| cg0859514 | 0.21317 | 0.567043 | 5.866361 | 0.000453 | 0.005432 | 0.122979 | 0.460458 | 0.673628 | -0.21317 | 5 | 7928384 | F | II | | IGR | opensea | IGR-opense | | rs5549982 | 0 | | | |
| cg2468834 | 0.208735 | 0.742451 | 5.865904 | 0.000453 | 0.005433 | 0.12245 | 0.638084 | 0.846818 | -0.20873 | 11 | 58277073 | F | II | OR5B21 | TSS1500 | opensea | TSS1500-op | | rs5691811 | 1;10;25 | | | |
| cg0115435 | 0.205105 | 0.659787 | 5.864953 | 0.000454 | 0.005436 | 0.121345 | 0.557235 | 0.76234 | -0.2051 | 5 | 1.24E+08 | R | II | ZNF608 | Body | opensea | Body-opens | | rs5492621 | 1 | | | |
| cg0366859 | 0.203399 | 0.440904 | 5.864221 | 0.000454 | 0.005439 | 0.120496 | 0.339205 | 0.542604 | -0.2034 | 8 | 61816898 | F | II | | IGR | opensea | IGR-opense | | rs5669147 | 1 | | | |
| cg2071294 | 0.239778 | 0.593275 | 5.861155 | 0.000456 | 0.005451 | 0.116938 | 0.473386 | 0.713164 | -0.23978 | 1 | 39888404 | R | II | MACF1 | ExonBnd | opensea | ExonBnd-op | | rs2008493 | 42;39;38 | | | |
| cg1525369 | 0.23046 | 0.4867 | 5.861015 | 0.000456 | 0.005452 | 0.116775 | 0.37147 | 0.60193 | -0.23046 | 7 | 75523398 | R | II | | IGR | opensea | IGR-opense | | rs5411723 | 33;1 | | | |
| cg1194017 | 0.225232 | 0.358038 | 5.854042 | 0.000459 | 0.005476 | 0.108677 | 0.245422 | 0.470654 | -0.22523 | 10 | 99188478 | R | II | PGAM1 | Body | shelf | Body-shelf | chr10:991 | rs5614307 | 27;2 | | | |
| cg0201048 | 0.22206 | 0.471797 | 5.848196 | 0.000462 | 0.005497 | 0.101882 | 0.360766 | 0.582827 | -0.22206 | 7 | 28218524 | R | II | JAZF1 | Body | shore | Body-shore | chr7:2821 | rs1498316 | 11;6;2 | | | |
| cg0501186 | 0.212793 | 0.669378 | 5.847538 | 0.000462 | 0.005499 | 0.101117 | 0.562982 | 0.775775 | -0.21279 | 6 | 52501602 | F | II | | IGR | opensea | IGR-opense | | rs1167047 | 37 | | | |

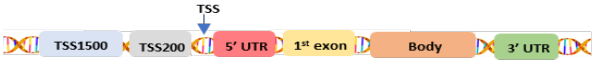
| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg2637624 | 0.227931 | 0.518227 | 5.847007 | 0.000463 | 0.005501 | 0.1005 | 0.404261 | 0.632192 | -0.22793 | 2 | 65594021 | R | II | SPRED2 | TSS200 | opensea | TSS200-ope | | rs3737070 | 33;15;1 |
| cg0948289 | 0.204984 | 0.676725 | 5.846237 | 0.000463 | 0.005503 | 0.099604 | 0.574233 | 0.779216 | -0.20498 | 2 | 1.5E+08 | R | II | LYPD6B | 5'UTR | opensea | 5'UTR-open | | | |
| cg0138037 | 0.245273 | 0.565405 | 5.843273 | 0.000465 | 0.005513 | 0.096156 | 0.442769 | 0.688041 | -0.24527 | 4 | 40765329 | F | II | NSUN7 | Body | opensea | Body-opens | | rs5355926 | 6;7 |
| cg2479654 | 0.216875 | 0.340217 | 5.841922 | 0.000465 | 0.005518 | 0.094584 | 0.23178 | 0.448655 | -0.21688 | 10 | 1.09E+08 | F | II | SORCS1 | Body | opensea | Body-opens | | rs1477672 | 36 |
| cg2151902 | 0.213691 | 0.708451 | 5.841184 | 0.000466 | 0.00552 | 0.093725 | 0.601606 | 0.815297 | -0.21369 | 12 | 50466966 | R | II | ASIC1 | TSS1500 | opensea | TSS1500-op | | rs1880440 | 47;29 |
| cg0960758 | 0.203818 | 0.630144 | 5.839842 | 0.000466 | 0.005526 | 0.092164 | 0.528235 | 0.732053 | -0.20382 | 12 | 1.22E+08 | R | II | KDM2B | Body | opensea | Body-opens | | rs5646025 | 1 |
| cg1970978 | 0.205989 | 0.583481 | 5.83256 | 0.00047 | 0.005553 | 0.083685 | 0.480486 | 0.686475 | -0.20599 | 6 | 1.35E+08 | F | II | | IGR | opensea | IGR-opense | | rs5300197 | 50 |
| cg0478940 | 0.219896 | 0.492546 | 5.832476 | 0.00047 | 0.005553 | 0.083587 | 0.382598 | 0.602494 | -0.2199 | 15 | 80271218 | R | II | | IGR | opensea | IGR-opense | | rs5557923 | 39;38;28;2 |
| cg0023972 | 0.225924 | 0.375607 | 5.831938 | 0.00047 | 0.005555 | 0.082961 | 0.262645 | 0.488569 | -0.22592 | 12 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs1901122 | 1;25;35 |
| cg0812344 | 0.223132 | 0.560455 | 5.830747 | 0.000471 | 0.00556 | 0.081573 | 0.448889 | 0.672021 | -0.22313 | 2 | 9833101 | F | I | | IGR | opensea | IGR-opense | | rs5344419 | 0;11;34;35 |
| cg1140325 | 0.20066 | 0.58569 | 5.830416 | 0.000471 | 0.005561 | 0.081187 | 0.48536 | 0.68602 | -0.20066 | 2 | 2.33E+08 | F | II | | IGR | shore | IGR-shore | chr2:2333 | rs1890395 | 0;1 |
| cg0415564 | 0.227993 | 0.505794 | 5.828626 | 0.000472 | 0.005567 | 0.079101 | 0.391798 | 0.619791 | -0.22799 | 4 | 1.72E+08 | R | II | LOC100506 | TSS1500 | opensea | TSS1500-op | | rs5432955 | 46;45;40 |
| cg1636549 | 0.213214 | 0.739138 | 5.827877 | 0.000472 | 0.00557 | 0.078228 | 0.63253 | 0.845745 | -0.21321 | 1 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0413022 | 0.200221 | 0.420959 | 5.827364 | 0.000473 | 0.005572 | 0.07763 | 0.320848 | 0.521069 | -0.20022 | 5 | 67730595 | F | II | | IGR | opensea | IGR-opense | | rs1831528 | 0 |
| cg1617202 | 0.209288 | 0.638048 | 5.825382 | 0.000474 | 0.005578 | 0.07532 | 0.533404 | 0.742692 | -0.20929 | 5 | 1.15E+08 | R | II | | IGR | opensea | IGR-opense | | rs1145711 | 36;30 |
| cg2078764 | 0.217403 | 0.755927 | 5.824373 | 0.000474 | 0.005583 | 0.074143 | 0.647226 | 0.864628 | -0.2174 | 1 | 17636898 | R | II | PADI4 | Body | opensea | Body-opens | | rs4920591 | 40;39;28;12 |
| cg2119234 | 0.204575 | 0.354006 | 5.822665 | 0.000475 | 0.00559 | 0.072152 | 0.251719 | 0.456293 | -0.20457 | 3 | 28941830 | R | II | | IGR | opensea | IGR-opense | | rs7305808 | 48;2 |
| cg2411000 | 0.20637 | 0.573717 | 5.821589 | 0.000476 | 0.005593 | 0.070897 | 0.470532 | 0.676902 | -0.20637 | 2 | 1.07E+08 | F | II | UXS1 | Body | opensea | Body-opens | | rs1511224 | 1 |
| cg0443663 | 0.208867 | 0.600302 | 5.820781 | 0.000476 | 0.005596 | 0.069955 | 0.495869 | 0.704736 | -0.20887 | 1 | 1.59E+08 | F | II | OR10Z1 | TSS1500 | opensea | TSS1500-op | | rs5421125 | 12;15;29 |
| cg1469228 | 0.223556 | 0.565285 | 5.81849 | 0.000477 | 0.005604 | 0.067282 | 0.453507 | 0.677063 | -0.22356 | 5 | 1.19E+08 | R | II | TNFAIP8 | Body | shore | Body-shore | chr5:11866 | rs1896012 | 9;7 |
| cg1406616 | 0.239893 | 0.604908 | 5.817557 | 0.000478 | 0.005608 | 0.066194 | 0.484962 | 0.724855 | -0.23989 | 17 | 17311866 | R | II | | IGR | opensea | IGR-opense | | rs5653151 | 51;25 |
| cg1351293 | 0.202425 | 0.731487 | 5.816112 | 0.000479 | 0.005613 | 0.064507 | 0.630275 | 0.8327 | -0.20243 | 21 | 36972748 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1268609 | 0.225882 | 0.623097 | 5.814629 | 0.000479 | 0.005619 | 0.062776 | 0.510156 | 0.736037 | -0.22588 | 7 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | rs5465687 | 2 |
| cg2111091 | 0.211236 | 0.635078 | 5.814071 | 0.00048 | 0.005621 | 0.062125 | 0.52946 | 0.740696 | -0.21124 | 17 | 8888894 | F | II | | IGR | opensea | IGR-opense | | rs5569584 | 29 |
| cg1535458 | 0.249112 | 0.481394 | 5.813457 | 0.00048 | 0.005623 | 0.061408 | 0.356838 | 0.60595 | -0.24911 | 7 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs1166742 | 0;5;50 |
| cg0544461 | 0.22355 | 0.47995 | 5.812128 | 0.000481 | 0.005628 | 0.059856 | 0.368175 | 0.591725 | -0.22355 | 1 | 6015337 | F | II | NPHP4 | Body | opensea | Body-opens | | | |
| cg2531385 | 0.219326 | 0.49256 | 5.810662 | 0.000481 | 0.005633 | 0.058144 | 0.382897 | 0.602222 | -0.21933 | 5 | 1.07E+08 | F | II | EFNA5 | Body | opensea | Body-opens | | rs7715798 | 1;37;40 |
| cg1427965 | 0.201813 | 0.660927 | 5.809783 | 0.000482 | 0.005637 | 0.057117 | 0.560021 | 0.761834 | -0.20181 | 2 | 85507363 | F | II | TCF7L1 | Body | opensea | Body-opens | | rs1395797 | 1 |
| cg0203358 | 0.242092 | 0.663642 | 5.807231 | 0.000483 | 0.005647 | 0.054135 | 0.542596 | 0.784688 | -0.24209 | 17 | 29394814 | R | II | | IGR | opensea | IGR-opense | | rs5622710 | 43;20;2 |
| cg2101869 | 0.213915 | 0.557 | 5.804954 | 0.000484 | 0.005655 | 0.051475 | 0.450043 | 0.663958 | -0.21392 | 5 | 1.49E+08 | R | II | ARHGEF37 | Body | opensea | Body-opens | | rs1265373 | 38;37;35;1 |
| cg0120014 | 0.212693 | 0.646 | 5.802656 | 0.000486 | 0.005663 | 0.048789 | 0.539653 | 0.752347 | -0.21269 | 1 | 1.52E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2134182 | 0.208053 | 0.566168 | 5.796319 | 0.000489 | 0.005687 | 0.041379 | 0.462142 | 0.670194 | -0.20805 | 10 | 587122 | F | I | DIP2C | Body | opensea | Body-opens | | rs5497050 | 1;17;21;44;45 |
| cg1914931 | 0.231382 | 0.451843 | 5.796144 | 0.000489 | 0.005688 | 0.041174 | 0.336152 | 0.567534 | -0.23138 | 2 | 1.97E+08 | F | II | HECW2 | 3'UTR | opensea | 3'UTR-open | | rs5403269 | 13;22;25;51 |
| cg0049040 | 0.224643 | 0.334519 | 5.792795 | 0.000491 | 0.005701 | 0.037255 | 0.222198 | 0.446841 | -0.22464 | 1 | 1.59E+08 | F | II | AIM2 | TSS200 | opensea | TSS200-ope | | rs5690545 | 1;25;41 |
| cg0672836 | 0.220397 | 0.562295 | 5.791788 | 0.000491 | 0.005705 | 0.036076 | 0.452097 | 0.672493 | -0.2204 | 4 | 1.27E+08 | F | II | | IGR | opensea | IGR-opense | | rs3688301 | 0;1 |
| cg1324151 | 0.204412 | 0.610887 | 5.790151 | 0.000492 | 0.005711 | 0.03416 | 0.508681 | 0.713093 | -0.20441 | 7 | 76982169 | F | II | GSAP | Body | opensea | Body-opens | | | |
| cg1238085 | 0.219408 | 0.688585 | 5.789027 | 0.000493 | 0.005715 | 0.032844 | 0.578881 | 0.798289 | -0.21941 | 17 | 45907760 | F | II | LRRC46 | TSS1500 | shore | TSS1500-sh | chr17:459 | | |
| cg0222504 | 0.23615 | 0.57138 | 5.789017 | 0.000493 | 0.005715 | 0.032833 | 0.453305 | 0.689455 | -0.23615 | 6 | 1.38E+08 | F | II | LOC10013 | Body | opensea | Body-opens | | rs1821372 | 50 |
| cg0655991 | 0.210041 | 0.6507 | 5.786995 | 0.000494 | 0.005722 | 0.030464 | 0.54568 | 0.755721 | -0.21004 | 2 | 1.03E+08 | F | II | IL18RAP | Body | opensea | Body-opens | | rs1299701 | 15 |
| cg2183018 | 0.210446 | 0.312557 | 5.785987 | 0.000495 | 0.005725 | 0.029284 | 0.207334 | 0.417781 | -0.21045 | 17 | 684589 | R | II | RNMTL1 | TSS1500 | shore | TSS1500-sh | chr17:685 | | |
| cg0801726 | 0.246468 | 0.462614 | 5.785794 | 0.000495 | 0.005726 | 0.029057 | 0.33938 | 0.585847 | -0.24647 | 17 | 28500882 | F | II | NSRP1 | Body | opensea | Body-opens | | rs5602489 | 7 |
| cg2296316 | 0.213825 | 0.686244 | 5.784027 | 0.000496 | 0.005732 | 0.026988 | 0.579331 | 0.793156 | -0.21383 | 20 | 24940490 | F | II | CST7 | 3'UTR | opensea | 3'UTR-open | | rs1248158 | 0;1;31;32;40 |
| cg1361814 | 0.205983 | 0.435237 | 5.776272 | 0.0005 | 0.005761 | 0.017898 | 0.332246 | 0.538228 | -0.20598 | 10 | 3917475 | R | II | | IGR | opensea | IGR-opense | | rs5542167 | 51 |
| cg1629237 | 0.213516 | 0.381071 | 5.773787 | 0.000501 | 0.005772 | 0.014984 | 0.274313 | 0.487829 | -0.21352 | 6 | 30317519 | F | II | | IGR | opensea | IGR-opense | | rs1483580 | 25 |
| cg2642686 | 0.235253 | 0.692158 | 5.77304 | 0.000502 | 0.005775 | 0.014108 | 0.574531 | 0.809784 | -0.23525 | 18 | 60121710 | R | II | | IGR | opensea | IGR-opense | | rs5446461 | 20;1 |
| cg1986791 | 0.226461 | 0.688809 | 5.772828 | 0.000502 | 0.005775 | 0.013859 | 0.575579 | 0.80204 | -0.22646 | 2 | 1.44E+08 | F | II | ARHGAP15 | Body | opensea | Body-opens | | rs5356429 | 1;32 |
| cg1983196 | 0.259261 | 0.717931 | 5.769876 | 0.000503 | 0.005786 | 0.010395 | 0.588301 | 0.847561 | -0.25926 | 2 | 317929 | R | II | | IGR | shelf | IGR-shelf | chr2:3148 | rs7792054 | 20 |
| cg2108191 | 0.200007 | 0.607274 | 5.768763 | 0.000504 | 0.00579 | 0.009088 | 0.507271 | 0.707278 | -0.20001 | 1 | 55670687 | F | II | USP24 | Body | opensea | Body-opens | | rs1829332 | 0 |
| cg0398822 | 0.208268 | 0.568234 | 5.766919 | 0.000505 | 0.005797 | 0.006924 | 0.464101 | 0.672368 | -0.20827 | 2 | 60539064 | F | II | | IGR | opensea | IGR-opense | | rs5478835 | 4;24 |
| cg1986542 | 0.214309 | 0.546485 | 5.766646 | 0.000505 | 0.005798 | 0.006604 | 0.439331 | 0.65364 | -0.21431 | 1 | 68569745 | F | II | GPR177 | Body | opensea | Body-opens | | rs5511973 | 25;26 |
| cg1973177 | 0.229036 | 0.504214 | 5.765451 | 0.000506 | 0.005803 | 0.005201 | 0.389696 | 0.618732 | -0.22904 | 11 | 43942574 | R | II | ALKBH3-AS | TSS200 | opensea | TSS200-ope | | rs3497181 | 45 |
| cg1434113 | 0.225287 | 0.615207 | 5.76542 | 0.000506 | 0.005803 | 0.005165 | 0.502564 | 0.72785 | -0.22529 | 5 | 1.8E+08 | F | II | | IGR | opensea | IGR-opense | | rs5453572 | 0;7;26;38;41 |
| cg2729446 | 0.229278 | 0.557733 | 5.765005 | 0.000506 | 0.005804 | 0.004677 | 0.443094 | 0.672372 | -0.22928 | 3 | 29738423 | R | II | RBMS3 | Body | opensea | Body-opens | | | |
| cg0374262 | 0.208928 | 0.764657 | 5.761998 | 0.000508 | 0.005815 | 0.001145 | 0.660193 | 0.869121 | -0.20893 | 1 | 1.61E+08 | F | II | | IGR | opensea | IGR-opense | | rs1140835 | 1;7;15;27;31 |
| cg2277423 | 0.221372 | 0.698205 | 5.76033 | 0.000509 | 0.005822 | -0.00081 | 0.587519 | 0.808891 | -0.22137 | 6 | 46740444 | R | II | | IGR | opensea | IGR-opense | | rs5496431 | 37;31;29;24;20 |
| cg1882725 | 0.205419 | 0.620151 | 5.760125 | 0.000509 | 0.005823 | -0.00105 | 0.517441 | 0.722861 | -0.20542 | 2 | 43768564 | R | II | THADA | Body | opensea | Body-opens | | rs1116909 | 37;34;21;1 |
| cg2378060 | 0.206249 | 0.657603 | 5.75962 | 0.000509 | 0.005825 | -0.00165 | 0.554478 | 0.760727 | -0.20625 | 2 | 1.8E+08 | F | II | | IGR | opensea | IGR-opense | | rs7599274 | 0;18;28;35 |
| cg0634557 | 0.200435 | 0.699911 | 5.757062 | 0.000511 | 0.005834 | -0.00465 | 0.599693 | 0.800128 | -0.20044 | 7 | 1.57E+08 | F | II | PTPRN2 | Body | shore | Body-shore | chr7:1573 | rs5329021 | 0;33 |
| cg0374820 | 0.227596 | 0.541745 | 5.756585 | 0.000511 | 0.005836 | -0.00521 | 0.427947 | 0.655543 | -0.2276 | 1 | 35811540 | R | II | ZMYM4 | Body | opensea | Body-opens | | rs1115049 | 25;17;13 |
| cg1451580 | 0.213909 | 0.590278 | 5.754678 | 0.000512 | 0.005843 | -0.00746 | 0.483324 | 0.697233 | -0.21391 | 6 | 80411369 | F | II | SH3BGRL2 | 3'UTR | opensea | 3'UTR-open | | rs1152811 | 0;14;27 |
| cg2741532 | 0.248755 | 0.744783 | 5.754157 | 0.000512 | 0.005845 | -0.00807 | 0.620405 | 0.86916 | -0.24876 | 22 | 17901078 | R | II | | IGR | shelf | IGR-shelf | chr22:178 | rs1440106 | 18;4;1 |
| cg0953617 | 0.232646 | 0.59879 | 5.752757 | 0.000513 | 0.005849 | -0.00972 | 0.482467 | 0.715113 | -0.23265 | 17 | 34222748 | F | II | | IGR | opensea | IGR-opense | | rs1169383 | 0;13;42 |
| cg0612812 | 0.203558 | 0.667876 | 5.750169 | 0.000514 | 0.005859 | -0.01276 | 0.566097 | 0.769654 | -0.20356 | 6 | 21846231 | F | II | FLJ22536 | Body | opensea | Body-opens | | | |
| cg2323981 | 0.217709 | 0.558107 | 5.749888 | 0.000515 | 0.00586 | -0.01309 | 0.449252 | 0.666961 | -0.21771 | 1 | 2.29E+08 | F | II | RHOU | TSS1500 | shore | TSS1500-sh | chr1:2288 | rs3820265 | 9;42;48 |
| cg0381511 | 0.202013 | 0.724785 | 5.741621 | 0.000519 | 0.005893 | -0.02282 | 0.623779 | 0.825791 | -0.20201 | 4 | 44654206 | R | II | YIPF7 | TSS1500 | opensea | TSS1500-op | | rs5532215 | 9 |
| cg1471422 | 0.237802 | 0.404101 | 5.741407 | 0.000519 | 0.005894 | -0.02307 | 0.2852 | 0.523001 | -0.2378 | 20 | 47440761 | F | II | PREX1 | Body | shelf | Body-shelf | chr20:474 | | |
| cg1900762 | 0.205685 | 0.469489 | 5.740932 | 0.00052 | 0.005895 | -0.02363 | 0.366646 | 0.572331 | -0.20569 | 4 | 1.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs5360519 | 14;2 |
| cg1591393 | 0.214521 | 0.650351 | 5.739616 | 0.00052 | 0.005899 | -0.02518 | 0.54309 | 0.757611 | -0.21452 | 8 | 99614070 | F | II | STK3 | Body | opensea | Body-opens | | rs5404614 | 21 |
| cg0481564 | 0.207816 | 0.713052 | 5.739331 | 0.000521 | 0.0059 | -0.02552 | 0.609144 | 0.81696 | -0.20782 | 1 | 2.42E+08 | F | II | OPN3 | Body | opensea | Body-opens | | rs1924711 | 2;15 |
| cg1159880 | 0.205455 | 0.492334 | 5.734878 | 0.000523 | 0.005916 | -0.03076 | 0.389607 | 0.595061 | -0.20545 | 10 | 23529931 | F | II | LINC01552 | TSS1500 | opensea | TSS1500-op | | rs5477696 | 26;27 |
| cg1255605 | 0.202542 | 0.335916 | 5.734283 | 0.000524 | 0.005918 | -0.03146 | 0.234645 | 0.437187 | -0.20254 | 13 | 23842777 | F | II | SGCG | Body | opensea | Body-opens | | rs9507061 | 21;49 |
| cg2082104 | 0.215356 | 0.547331 | 5.73409 | 0.000524 | 0.005919 | -0.03169 | 0.439653 | 0.655009 | -0.21536 | 6 | 32709158 | F | II | HLA-DQA2 | TSS200 | opensea | TSS200-ope | | rs1996052 | 20;21;46 |
| cg2591796 | 0.227147 | 0.419628 | 5.734016 | 0.000524 | 0.005919 | -0.03178 | 0.306054 | 0.533202 | -0.22715 | 21 | 19157142 | R | II | C21orf91-C | Body | opensea | Body-opens | | rs5703804 | 42;3;2 |
| cg1836997 | 0.204003 | 0.511472 | 5.733758 | 0.000524 | 0.00592 | -0.03208 | 0.409471 | 0.613474 | -0.204 | 17 | 9940121 | F | II | GAS7 | Body | opensea | Body-opens | | | |
| cg1041048 | 0.203497 | 0.448273 | 5.731977 | 0.000525 | 0.005927 | -0.03418 | 0.346525 | 0.550022 | -0.2035 | 20 | 36722930 | R | II | | IGR | opensea | IGR-opense | | rs1922748 | 30;2;1 |
| cg1662148 | 0.217656 | 0.642506 | 5.73025 | 0.000526 | 0.005934 | -0.03622 | 0.533678 | 0.751334 | -0.21766 | 5 | 1.15E+08 | F | II | | IGR | opensea | IGR-opense | | rs1395817 | 1;22;38 |
| cg1942626 | 0.206919 | 0.608188 | 5.727473 | 0.000527 | 0.005946 | -0.03949 | 0.504729 | 0.711648 | -0.20692 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | | rs1932193 | 1 |
| cg2234271 | 0.202667 | 0.385998 | 5.726722 | 0.000528 | 0.005949 | -0.04038 | 0.284665 | 0.487331 | -0.20267 | 15 | 44838476 | F | II | EIF3J | Body | opensea | Body-opens | | | |
| cg2584913 | 0.202574 | 0.704746 | 5.725465 | 0.000529 | 0.005954 | -0.04186 | 0.603459 | 0.806033 | -0.20257 | 5 | 1.09E+08 | R | II | | IGR | opensea | IGR-opense | | rs5501727 | 45;28;27;6;2 |
| cg0204892 | 0.222354 | 0.292598 | 5.724982 | 0.000529 | 0.005956 | -0.04243 | 0.181421 | 0.403775 | -0.22235 | 8 | 1.44E+08 | R | I | BAI1 | Body | shore | Body-shore | chr8:1435 | rs5636441 | 49;41;1 |
| cg0281924 | 0.22052 | 0.595608 | 5.724709 | 0.000529 | 0.005956 | -0.04275 | 0.485348 | 0.705868 | -0.22052 | 3 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs7794876 | 2;1 |
| cg2330589 | 0.225321 | 0.583146 | 5.724274 | 0.000529 | 0.005958 | -0.04327 | 0.470486 | 0.695807 | -0.22532 | 14 | 1.02E+08 | F | I | | IGR | opensea | IGR-opense | | rs5691637 | 26;38 |
| cg1834094 | 0.248009 | 0.381945 | 5.723959 | 0.00053 | 0.005959 | -0.04364 | 0.25794 | 0.505949 | -0.24801 | 20 | 19717881 | R | II | | IGR | opensea | IGR-opense | | rs3731769 | 25 |
| cg1711904 | 0.234605 | 0.597751 | 5.723387 | 0.00053 | 0.005961 | -0.04431 | 0.480448 | 0.715053 | -0.2346 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | rs5748890 | 0;25 |
| cg0001867 | 0.208359 | 0.69765 | 5.721826 | 0.000531 | 0.005967 | -0.04615 | 0.59347 | 0.801829 | -0.20836 | 9 | 87091350 | F | II | | IGR | opensea | IGR-opense | | rs1468283 | 0;44 |
| cg2031100 | 0.223226 | 0.447689 | 5.721535 | 0.000531 | 0.005969 | -0.0465 | 0.336076 | 0.559302 | -0.22323 | 1 | 2.45E+08 | F | II | C1orf101 | Body | opensea | Body-opens | | | |
| cg1123374 | 0.201571 | 0.554661 | 5.721028 | 0.000531 | 0.00597 | -0.0471 | 0.453876 | 0.655447 | -0.20157 | 9 | 1.4E+08 | F | II | | IGR | opensea | IGR-opense | | rs5659401 | 1;33 |
| cg1981640 | 0.251338 | 0.671002 | 5.71931 | 0.000532 | 0.005975 | -0.04912 | 0.545333 | 0.796671 | -0.25134 | 22 | 45993430 | F | II | FBLN1 | Body | opensea | Body-opens | | rs5328689 | 16 |
| cg1446520 | 0.229738 | 0.376885 | 5.712161 | 0.000536 | 0.006005 | -0.05757 | 0.262016 | 0.491754 | -0.22974 | 2 | 10951250 | F | II | PDIA6 | Body | shore | Body-shore | chr2:1095 | | |
| cg0291394 | 0.200985 | 0.610754 | 5.711155 | 0.000537 | 0.006008 | -0.05876 | 0.510262 | 0.711247 | -0.20099 | 11 | 46926130 | F | II | LRP4 | Body | opensea | Body-opens | | rs5614196 | 14;20 |
| cg1536054 | 0.213336 | 0.746049 | 5.709342 | 0.000538 | 0.006016 | -0.0609 | 0.639381 | 0.852717 | -0.21334 | 1 | 61713165 | R | II | NFIA | Body | opensea | Body-opens | | rs6761399 | 36;11 |
| cg0071150 | 0.235993 | 0.598385 | 5.707573 | 0.000539 | 0.006023 | -0.06299 | 0.480389 | 0.716382 | -0.23599 | 3 | 1.25E+08 | F | II | | IGR | opensea | IGR-opense | | rs5692636 | 1;44 |
| cg2591443 | 0.208287 | 0.569149 | 5.707106 | 0.000539 | 0.006025 | -0.06354 | 0.465005 | 0.673292 | -0.20829 | 22 | 37986622 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0908662 | 0.229797 | 0.633308 | 5.704742 | 0.000541 | 0.006035 | -0.06634 | 0.518409 | 0.748207 | -0.2298 | 18 | 29070510 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1142516 | 0.202912 | 0.498577 | 5.703959 | 0.000541 | 0.006038 | -0.06726 | 0.397121 | 0.600033 | -0.20291 | 4 | 84482623 | R | II | AGPAT9 | Body | opensea | Body-opens | | rs5534948 | 37 |
| cg1326640 | 0.200464 | 0.48353 | 5.70372 | 0.000542 | 0.006039 | -0.06755 | 0.383298 | 0.583762 | -0.20046 | 3 | 89627094 | R | II | | IGR | opensea | IGR-opense | | rs5682984 | 51;27;1 |
| cg2446596 | 0.221967 | 0.663597 | 5.703078 | 0.000542 | 0.006042 | -0.06831 | 0.552614 | 0.774581 | -0.22197 | 22 | 40211087 | F | II | ENTHD1 | Body | opensea | Body-opens | | rs5389153 | 0;1;51 |
| cg2289572 | 0.212528 | 0.668884 | 5.699269 | 0.000544 | 0.006057 | -0.07281 | 0.56262 | 0.775148 | -0.21253 | 12 | 93531972 | R | II | LOC643339 | Body | opensea | Body-opens | | | |
| cg1727358 | 0.2045 | 0.628928 | 5.698604 | 0.000545 | 0.00606 | -0.0736 | 0.526678 | 0.731178 | -0.2045 | 2 | 1.01E+08 | R | II | AFF3 | TSS1500 | opensea | TSS1500-op | | rs1125029 | 35 |
| cg0355049 | 0.215341 | 0.62809 | 5.697085 | 0.000545 | 0.006066 | -0.0754 | 0.52042 | 0.735761 | -0.21534 | 3 | 1.88E+08 | F | II | LPP | 5'UTR | opensea | 5'UTR-open | | rs5373684 | 0;48 |
| cg1148515 | 0.212145 | 0.57661 | 5.694936 | 0.000547 | 0.006076 | -0.07794 | 0.470537 | 0.682682 | -0.21215 | 3 | 3171664 | F | II | TRNT1 | Body | shelf | Body-shelf | chr3:3168 | rs5664913 | 22;43;50 |
| cg2030686 | 0.202958 | 0.577355 | 5.691536 | 0.000549 | 0.006091 | -0.08197 | 0.475876 | 0.678834 | -0.20296 | 13 | 70966046 | F | II | | IGR | opensea | IGR-opense | | rs5618747 | 0 |
| cg0001770 | 0.223721 | 0.352127 | 5.691126 | 0.000549 | 0.006092 | -0.08245 | 0.240266 | 0.463988 | -0.22372 | 6 | 99638132 | R | II | | IGR | opensea | IGR-opense | | rs1458514 | 24;2 |
| cg0663597 | 0.233243 | 0.421141 | 5.69017 | 0.00055 | 0.006095 | -0.08359 | 0.304519 | 0.537762 | -0.23324 | 6 | 74232158 | F | II | EEF1A1 | TSS1500 | shore | TSS1500-sh | chr6:7422 | rs5721280 | 28 |
| cg0936552 | 0.211481 | 0.563496 | 5.68398 | 0.000553 | 0.006121 | -0.09092 | 0.457756 | 0.669237 | -0.21148 | 1 | 75140289 | F | II | C1orf173 | TSS1500 | opensea | TSS1500-op | | rs1078940 | 10;27 |
| cg1560145 | 0.207234 | 0.628756 | 5.683546 | 0.000554 | 0.006122 | -0.09144 | 0.525139 | 0.732373 | -0.20723 | 1 | 28906382 | F | II | SNHG12 | Body | shore | Body-shore | chr1:2890 | | |
| cg2193022 | 0.208542 | 0.638516 | 5.682066 | 0.000555 | 0.006128 | -0.09319 | 0.534245 | 0.742787 | -0.20854 | 1 | 1.1E+08 | R | II | CLCC1 | 5'UTR | shore | 5'UTR-shor | chr1:1095 | rs5357652 | 50;39;26 |
| cg1372446 | 0.213511 | 0.648525 | 5.680419 | 0.000556 | 0.006135 | -0.09514 | 0.541769 | 0.75528 | -0.21351 | 1 | 1.79E+08 | F | II | RALGPS2 | Body | opensea | Body-opens | | rs5366783 | 1;28 |
| cg1538716 | 0.203467 | 0.464468 | 5.677523 | 0.000557 | 0.006146 | -0.09858 | 0.362735 | 0.566202 | -0.20347 | 9 | 1.18E+08 | R | II | TNC | Body | opensea | Body-opens | | rs1396369 | 34;32 |
| cg0029318 | 0.205409 | 0.732541 | 5.677364 | 0.000558 | 0.006146 | -0.09877 | 0.629837 | 0.835246 | -0.20541 | 3 | 1.87E+08 | R | II | RPL39L | 5'UTR | shore | 5'UTR-shor | chr3:1868 | | |
| cg2585541 | 0.219338 | 0.722319 | 5.676445 | 0.000558 | 0.00615 | -0.09986 | 0.612649 | 0.831988 | -0.21934 | 3 | 1.28E+08 | F | II | RUVBL1 | Body | opensea | Body-opens | | rs1457566 | 1;23;42 |
| cg1314802 | 0.224289 | 0.724042 | 5.674712 | 0.000559 | 0.006157 | -0.10192 | 0.611897 | 0.836187 | -0.22429 | 9 | 86972182 | F | II | SLC28A3 | 5'UTR | opensea | 5'UTR-open | | rs1478856 | 1;18 |
| cg0718558 | 0.242475 | 0.533027 | 5.671284 | 0.000561 | 0.006171 | -0.10598 | 0.411789 | 0.654264 | -0.24247 | 14 | 32981885 | F | II | AKAP6 | Body | opensea | Body-opens | | rs5760272 | 30 |
| cg2458668 | 0.207289 | 0.516874 | 5.670404 | 0.000562 | 0.006175 | -0.10703 | 0.41323 | 0.620518 | -0.20729 | 3 | 55348402 | F | II | | IGR | opensea | IGR-opense | | rs5396910 | 13;24;27 |
| cg2649834 | 0.243963 | 0.442862 | 5.669711 | 0.000562 | 0.006178 | -0.10785 | 0.32088 | 0.564843 | -0.24396 | 12 | 95034650 | F | II | TMCC3 | Body | opensea | Body-opens | | rs5337747 | 0;16;40 |
| cg0224903 | 0.253668 | 0.526105 | 5.668731 | 0.000563 | 0.006181 | -0.10902 | 0.399271 | 0.652939 | -0.25367 | 7 | 1.17E+08 | R | II | ASZ1 | Body | shelf | Body-shelf | chr7:1170 | | |
| cg0571614 | 0.228623 | 0.353533 | 5.667093 | 0.000564 | 0.006189 | -0.11096 | 0.239222 | 0.467844 | -0.22862 | 3 | 71276553 | R | II | FOXP1 | 5'UTR | opensea | 5'UTR-open | | rs1425387 | 19;3 |
| cg2358697 | 0.234005 | 0.498542 | 5.665162 | 0.000565 | 0.006195 | -0.11326 | 0.38154 | 0.615545 | -0.23401 | 2 | 1.24E+08 | F | II | | IGR | opensea | IGR-opense | | rs1853358 | 1;12 |
| cg1467966 | 0.258493 | 0.672658 | 5.665076 | 0.000565 | 0.006196 | -0.11336 | 0.543412 | 0.801905 | -0.25849 | 8 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs5491057 | 0;1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg1486378 | 0.212218 | 0.719289 | 5.662857 | 0.000567 | 0.006206 | -0.11599 | 0.61318 | 0.825398 | -0.21222 | 3 | 1.13E+08 | F | II | LOC10192 | Body | opensea | Body-opens | rs5392420 | 0 | 1;14;44 |
| cg0875243 | 0.235319 | 0.436282 | 5.662493 | 0.000567 | 0.006207 | -0.11643 | 0.318622 | 0.553941 | -0.23532 | 12 | 1.11E+08 | R | II | PPTC7 | Body | shelf | Body-shelf | chr12:111( | rs1891183 | 11;2 |
| cg1723928 | 0.205562 | 0.69524 | 5.657654 | 0.00057 | 0.006227 | -0.12218 | 0.592459 | 0.798021 | -0.20556 | 17 | 29911092 | R | II | | IGR | opensea | IGR-opense | | rs1882077 | 1 |
| cg1201432 | 0.280049 | 0.473608 | 5.657559 | 0.00057 | 0.006227 | -0.12229 | 0.333583 | 0.613632 | -0.28005 | 11 | 69226530 | F | II | | IGR | opensea | IGR-opense | | rs5276513 | 13;20 |
| cg0612466 | 0.240049 | 0.484115 | 5.657191 | 0.00057 | 0.006229 | -0.12273 | 0.36409 | 0.604139 | -0.24005 | 3 | 1.78E+08 | R | II | | IGR | opensea | IGR-opense | | rs1876472 | 47;33;1 |
| cg1544481 | 0.200651 | 0.714787 | 5.655137 | 0.000572 | 0.006238 | -0.12517 | 0.614462 | 0.815112 | -0.20065 | 17 | 75721911 | R | II | LOC10013 | Body | opensea | Body-opens | rs8080638 | 51 | 21;1 |
| cg2112560 | 0.217992 | 0.427328 | 5.654745 | 0.000572 | 0.006239 | -0.12564 | 0.318333 | 0.536324 | -0.21799 | 6 | 1.11E+08 | F | II | SLC16A10 | Body | opensea | Body-opens | | | |
| cg0711746 | 0.20524 | 0.450567 | 5.652904 | 0.000573 | 0.006246 | -0.12783 | 0.347947 | 0.553187 | -0.20524 | 1 | 75229532 | R | II | TYW3 | Body | opensea | Body-opens | rs5669393 | 46;44;33;26;19;2;1 | |
| cg0014481 | 0.230173 | 0.624475 | 5.652471 | 0.000573 | 0.006248 | -0.12835 | 0.509388 | 0.739561 | -0.23017 | 2 | 28498080 | F | II | BRE | Body | opensea | Body-opens | rs1472340 | 0;8;34 | |
| cg0625051 | 0.204417 | 0.70591 | 5.651323 | 0.000574 | 0.006253 | -0.12971 | 0.603701 | 0.808118 | -0.20442 | 8 | 1.26E+08 | R | II | NSMCE2 | Body | opensea | Body-opens | | | |
| cg2167378 | 0.200125 | 0.562758 | 5.650665 | 0.000574 | 0.006256 | -0.1305 | 0.462695 | 0.66282 | -0.20013 | 2 | 58747501 | R | II | LINC01122 | TSS1500 | opensea | TSS1500-op | rs1818060 | 1 | |
| cg1390195 | 0.202315 | 0.678972 | 5.649552 | 0.000575 | 0.00626 | -0.13182 | 0.577815 | 0.780129 | -0.20231 | 17 | 29907534 | R | II | | IGR | opensea | IGR-opense | rs7466000 | 16 | |
| cg0625562 | 0.201027 | 0.676833 | 5.647146 | 0.000577 | 0.00627 | -0.13469 | 0.576319 | 0.777347 | -0.20103 | 5 | 1.7E+08 | F | II | | IGR | opensea | IGR-opense | rs1465923 | 24;43;48 | |
| cg0982140 | 0.200994 | 0.720213 | 5.646011 | 0.000577 | 0.006274 | -0.13604 | 0.619716 | 0.82071 | -0.20099 | 10 | 33654419 | F | II | | IGR | opensea | IGR-opense | rs1817062 | 0;1 | |
| cg2159509 | 0.206051 | 0.555778 | 5.643764 | 0.000579 | 0.006284 | -0.13871 | 0.452753 | 0.658804 | -0.20605 | 2 | 42950061 | R | II | | IGR | opensea | IGR-opense | rs1491634 | 24 | |
| cg1893405 | 0.24737 | 0.657997 | 5.643067 | 0.000579 | 0.006287 | -0.13954 | 0.534312 | 0.781682 | -0.24737 | 11 | 34645726 | R | II | EHF | 5'UTR | opensea | 5'UTR-open | rs1692591 | 31;20;14 | |
| cg0909077 | 0.218794 | 0.605831 | 5.642645 | 0.00058 | 0.00629 | -0.14005 | 0.496434 | 0.715228 | -0.21879 | 2 | 1.61E+08 | F | II | ITGB6 | Body | opensea | Body-opens | rs5585499 | 0;5;16;50 | |
| cg1804540 | 0.253256 | 0.720747 | 5.639945 | 0.000581 | 0.006301 | -0.14326 | 0.594119 | 0.847374 | -0.25326 | 10 | 11564762 | R | II | USP6NL | Body | opensea | Body-opens | rs2005087 | 32 | |
| cg1928894 | 0.291247 | 0.549676 | 5.63928 | 0.000582 | 0.006304 | -0.14406 | 0.404053 | 0.695299 | -0.29125 | 16 | 1926486 | R | II | | IGR | opensea | IGR-opense | rs5478542 | 1 | |
| cg0590676 | 0.218747 | 0.689724 | 5.639276 | 0.000582 | 0.006304 | -0.14406 | 0.58035 | 0.799097 | -0.21875 | 5 | 129794 | F | II | | IGR | opensea | IGR-opense | rs5492063 | 1 | |
| cg1861468 | 0.224193 | 0.6475 | 5.638266 | 0.000582 | 0.006309 | -0.14526 | 0.535403 | 0.759596 | -0.22419 | 10 | 31118918 | F | II | | IGR | opensea | IGR-opense | rs4749618 | 16;33 | |
| cg0346532 | 0.233893 | 0.34074 | 5.638114 | 0.000582 | 0.00631 | -0.14545 | 0.223794 | 0.457687 | -0.23389 | 6 | 32823078 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282( | | |
| cg0320904 | 0.210399 | 0.664247 | 5.633541 | 0.000585 | 0.006328 | -0.1509 | 0.559048 | 0.769447 | -0.2104 | 2 | 1.45E+08 | R | II | ZEB2 | Body | opensea | Body-opens | rs1383979 | 47;9;2 | |
| cg0707176 | 0.240439 | 0.700645 | 5.63289 | 0.000586 | 0.006332 | -0.15167 | 0.580426 | 0.820865 | -0.24044 | 11 | 92441315 | F | II | FAT3 | Body | opensea | Body-opens | rs5369830 | 1;33 | |
| cg0181110 | 0.2149 | 0.550789 | 5.631659 | 0.000587 | 0.006337 | -0.15314 | 0.443339 | 0.65824 | -0.2149 | 8 | 614479 | R | II | ERICH1 | 3'UTR | shore | 3'UTR-shor | chr8:6151( | | |
| cg2164201 | 0.218461 | 0.544693 | 5.630109 | 0.000588 | 0.006343 | -0.15499 | 0.435463 | 0.653924 | -0.21846 | 16 | 71851996 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1799683 | 0.259488 | 0.510635 | 5.626738 | 0.00059 | 0.006357 | -0.15901 | 0.380891 | 0.640379 | -0.25949 | 11 | 78616440 | R | II | ODZ4 | Body | shore | Body-shore | chr11:786: | rs1909848 | 17;12 |
| cg2448912 | 0.211455 | 0.541405 | 5.625022 | 0.000591 | 0.006365 | -0.16106 | 0.435678 | 0.647133 | -0.21145 | 6 | 11785994 | F | II | | IGR | opensea | IGR-opense | rs5428480 | 7;10;44 | |
| cg1940913 | 0.223605 | 0.418133 | 5.62442 | 0.000591 | 0.006368 | -0.16178 | 0.306331 | 0.529936 | -0.2236 | 1 | 28843744 | F | II | SNHG3-RC | Body | shore | Body-shore | chr1:2884( | rs5684615 | 2;17 |
| cg1755655 | 0.211327 | 0.655736 | 5.623077 | 0.000592 | 0.006374 | -0.16339 | 0.550072 | 0.761399 | -0.21133 | 15 | 71621970 | F | II | THSD4 | Body | opensea | Body-opens | rs5408223 | 0;33 | |
| cg0798042 | 0.202101 | 0.697702 | 5.622389 | 0.000593 | 0.006377 | -0.16421 | 0.596651 | 0.798752 | -0.2021 | 18 | 74214646 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1977636 | 0.209558 | 0.500165 | 5.622299 | 0.000593 | 0.006377 | -0.16431 | 0.395386 | 0.604944 | -0.20956 | 17 | 79032662 | R | II | BAIAP2 | Body | opensea | Body-opens | rs5299237 | 43;41;23;7;4;2 | |
| cg1879552 | 0.208578 | 0.515742 | 5.617253 | 0.000596 | 0.006401 | -0.17034 | 0.411454 | 0.620031 | -0.20858 | 16 | 89431720 | F | II | ANKRD11 | Body | opensea | Body-opens | | | |
| cg2447548 | 0.207204 | 0.565447 | 5.616866 | 0.000596 | 0.006402 | -0.1708 | 0.461845 | 0.669049 | -0.2072 | 8 | 1625395 | R | II | DLGAP2 | Body | opensea | Body-opens | rs7629852 | 47;46;30 | |
| cg1693745 | 0.220699 | 0.51487 | 5.61581 | 0.000597 | 0.006406 | -0.17207 | 0.404521 | 0.62522 | -0.2207 | 10 | 93374202 | R | II | | IGR | opensea | IGR-opense | rs1450269 | 15 | |
| cg0792894 | 0.214341 | 0.520625 | 5.61534 | 0.000597 | 0.006408 | -0.17263 | 0.413455 | 0.627796 | -0.21434 | 2 | 56997880 | R | II | | IGR | opensea | IGR-opense | rs1881086 | 40 | |
| cg2072381 | 0.227784 | 0.471782 | 5.612979 | 0.000599 | 0.00642 | -0.17545 | 0.35789 | 0.585674 | -0.22778 | 8 | 17061850 | F | II | ZDHHC2 | Body | opensea | Body-opens | rs5289723 | 22;28 | |
| cg0613530 | 0.20847 | 0.695355 | 5.609913 | 0.000601 | 0.006433 | -0.17912 | 0.59112 | 0.79959 | -0.20847 | 10 | 6533971 | F | II | PRKCQ | Body | opensea | Body-opens | rs1452047 | 1;21;35 | |
| cg1901108 | 0.222859 | 0.382487 | 5.608979 | 0.000602 | 0.006436 | -0.18023 | 0.271057 | 0.493916 | -0.22286 | 20 | 33307672 | R | II | NCOA6 | Body | opensea | Body-opens | | | |
| cg1153583 | 0.207274 | 0.596021 | 5.606444 | 0.000603 | 0.006449 | -0.18327 | 0.492385 | 0.699658 | -0.20727 | 2 | 28582676 | F | I | | IGR | opensea | IGR-opense | rs1849337 | 0;31 | |
| cg0104913 | 0.208765 | 0.512289 | 5.604604 | 0.000605 | 0.006457 | -0.18547 | 0.407906 | 0.616672 | -0.20877 | 9 | 95528499 | F | II | BICD2 | TSS1500 | shore | TSS1500-sh | chr9:9552( | | |
| cg0104711 | 0.203858 | 0.694135 | 5.604373 | 0.000605 | 0.006458 | -0.18574 | 0.592206 | 0.796064 | -0.20386 | 3 | 23382411 | R | II | UBE2E2 | Body | opensea | Body-opens | rs5462300 | 46;43;20 | |
| cg1961416 | 0.255141 | 0.362493 | 5.601946 | 0.000607 | 0.006469 | -0.18865 | 0.234922 | 0.490063 | -0.25514 | 11 | 1.1E+08 | R | II | | IGR | opensea | IGR-opense | rs5738882 | 40;8;2 | |
| cg0536417 | 0.200959 | 0.386551 | 5.601521 | 0.000607 | 0.006471 | -0.18916 | 0.286071 | 0.48703 | -0.20096 | 7 | 1.4E+08 | F | I | DENND2A | Body | opensea | Body-opens | rs1153904 | 2;24;42 | |
| cg0959008 | 0.206826 | 0.689401 | 5.600934 | 0.000607 | 0.006474 | -0.18986 | 0.585988 | 0.792814 | -0.20683 | 3 | 72219112 | F | II | LINC00870 | Body | opensea | Body-opens | rs1413701 | 0;29 | |
| cg0792964 | 0.238 | 0.453484 | 5.600083 | 0.000608 | 0.006477 | -0.19088 | 0.334484 | 0.572484 | -0.238 | 16 | 89390685 | R | II | ANKRD11 | 5'UTR | opensea | 5'UTR-open | rs5746240 | 34;19;13;2;1 | |
| cg0907602 | 0.217876 | 0.609189 | 5.598824 | 0.000609 | 0.006482 | -0.19239 | 0.50025 | 0.718127 | -0.21788 | 12 | 48598463 | R | II | OR10AD1 | TSS1500 | opensea | TSS1500-op | rs5714504 | 50 | |
| cg0874330 | 0.2201 | 0.627163 | 5.588934 | 0.000615 | 0.006527 | -0.20424 | 0.517113 | 0.737213 | -0.2201 | 4 | 24818471 | R | II | CCDC149 | Body | opensea | Body-opens | | | |
| cg1078660 | 0.223568 | 0.611598 | 5.588135 | 0.000616 | 0.006531 | -0.2052 | 0.499814 | 0.723383 | -0.22357 | 8 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | rs1387928 | 41;15;1 | |
| cg0357082 | 0.206413 | 0.515103 | 5.587462 | 0.000616 | 0.006534 | -0.206 | 0.411896 | 0.618309 | -0.20641 | 7 | 90247016 | F | II | CDK14 | Body | opensea | Body-opens | rs1808515 | 1 | |
| cg1912796 | 0.219997 | 0.554942 | 5.586179 | 0.000617 | 0.006539 | -0.20754 | 0.444944 | 0.664941 | -0.22 | 4 | 40827206 | R | II | APBB2 | Body | opensea | Body-opens | rs5492178 | 30;19;2 | |
| cg1100701 | 0.217117 | 0.688482 | 5.585985 | 0.000617 | 0.00654 | -0.20777 | 0.579923 | 0.79704 | -0.21712 | 5 | 82301989 | F | II | | IGR | opensea | IGR-opense | rs5625787 | 1 | |
| cg2002425 | 0.2061 | 0.74443 | 5.585469 | 0.000618 | 0.006542 | -0.20839 | 0.64138 | 0.84748 | -0.2061 | 1 | 93984783 | R | II | FNBP1L | Body | opensea | Body-opens | rs1928283 | 27;26;2 | |
| cg0871230 | 0.334964 | 0.629932 | 5.583736 | 0.000619 | 0.00655 | -0.21047 | 0.46245 | 0.797414 | -0.33496 | 20 | 42417112 | R | II | | IGR | opensea | IGR-opense | rs5416046 | 44;6 | |
| cg2625074 | 0.243836 | 0.538045 | 5.579616 | 0.000622 | 0.006569 | -0.21542 | 0.416127 | 0.659963 | -0.24384 | 6 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | rs7476909 | 1 | |
| cg2728888 | 0.201264 | 0.702271 | 5.578074 | 0.000623 | 0.006576 | -0.21727 | 0.601639 | 0.802903 | -0.20126 | 18 | 20898196 | R | II | TMEM241 | Body | opensea | Body-opens | | | |
| cg1158898 | 0.212105 | 0.39283 | 5.57553 | 0.000625 | 0.006587 | -0.22032 | 0.286777 | 0.498883 | -0.21211 | 2 | 1.58E+08 | R | II | | IGR | opensea | IGR-opense | rs1470614 | 50;44;38;10 | |
| cg1776703 | 0.220272 | 0.44844 | 5.574938 | 0.000625 | 0.00659 | -0.22103 | 0.338304 | 0.558576 | -0.22027 | 22 | 37669670 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0394283 | 0.220393 | 0.387256 | 5.574192 | 0.000626 | 0.006593 | -0.22193 | 0.277059 | 0.497452 | -0.22039 | 5 | 1.39E+08 | F | II | | IGR | opensea | IGR-opense | rs1424608 | 0 | |
| cg0895463 | 0.204467 | 0.631171 | 5.573788 | 0.000626 | 0.006594 | -0.22241 | 0.528937 | 0.733404 | -0.20447 | 4 | 1.83E+08 | R | II | TENM3 | Body | opensea | Body-opens | | | |
| cg0183497 | 0.203952 | 0.64182 | 5.572742 | 0.000627 | 0.006599 | -0.22367 | 0.539844 | 0.743795 | -0.20395 | 22 | 42818139 | R | II | NFAM1 | Body | opensea | Body-opens | rs1482222 | 1 | |
| cg0604087 | 0.201354 | 0.678539 | 5.572448 | 0.000627 | 0.0066 | -0.22402 | 0.577862 | 0.779216 | -0.20135 | 17 | 34394215 | F | II | CCL18 | Body | opensea | Body-opens | rs5577186 | 0;18;39 | |
| cg1700948 | 0.213734 | 0.637235 | 5.570663 | 0.000628 | 0.006608 | -0.22617 | 0.530368 | 0.744102 | -0.21373 | 5 | 58934145 | F | II | PDE4D | Body | opensea | Body-opens | | | |
| cg0341734 | 0.210816 | 0.450316 | 5.570345 | 0.000628 | 0.006609 | -0.22655 | 0.344908 | 0.555723 | -0.21082 | 1 | 1.17E+08 | F | II | | IGR | opensea | IGR-opense | rs1814446 | 0;8 | |
| cg1036796 | 0.219846 | 0.707139 | 5.569934 | 0.000629 | 0.00661 | -0.22704 | 0.597216 | 0.817062 | -0.21985 | 12 | 1.23E+08 | R | II | VPS37B | Body | opensea | Body-opens | rs5547722 | 31 | |
| cg1489925 | 0.273022 | 0.533592 | 5.568638 | 0.00063 | 0.006617 | -0.2286 | 0.39708 | 0.670103 | -0.27302 | 2 | 1.14E+08 | R | II | | IGR | opensea | IGR-opense | rs5771367 | 31;26;25;1 | |
| cg1510895 | 0.200304 | 0.370498 | 5.566077 | 0.000631 | 0.006628 | -0.23168 | 0.270346 | 0.47065 | -0.2003 | 5 | 7873542 | F | II | MTRR | Body | shelf | Body-shelf | chr5:7868( | rs4128264 | 24;28;44 |
| cg1934463 | 0.204529 | 0.46687 | 5.565624 | 0.000632 | 0.00663 | -0.23222 | 0.364606 | 0.569134 | -0.20453 | 6 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | rs1914003 | 1;15 | |
| cg0257105 | 0.208529 | 0.695606 | 5.565164 | 0.000632 | 0.006632 | -0.23278 | 0.591342 | 0.79987 | -0.20853 | 6 | 1.59E+08 | F | I | TULP4 | Body | opensea | Body-opens | rs1467909 | 11;44 | |
| cg1705001 | 0.233818 | 0.642008 | 5.561708 | 0.000635 | 0.006648 | -0.23693 | 0.525099 | 0.758917 | -0.23382 | 1 | 68699381 | R | II | WLS | TSS1500 | shore | TSS1500-sh | chr1:6869( | rs5275337 | 35 |
| cg1005470 | 0.2285 | 0.698396 | 5.561327 | 0.000635 | 0.006649 | -0.23739 | 0.584146 | 0.812646 | -0.2285 | 20 | 5846031 | F | II | | IGR | opensea | IGR-opense | rs1483355 | 1;2 | |
| cg0249992 | 0.223475 | 0.558807 | 5.558674 | 0.000637 | 0.006661 | -0.24058 | 0.44707 | 0.670544 | -0.22347 | 17 | 3031618 | R | II | OR1G1 | TSS1500 | opensea | TSS1500-op | rs1894457 | 1 | |
| cg1638940 | 0.245317 | 0.648148 | 5.557947 | 0.000637 | 0.006665 | -0.24146 | 0.52549 | 0.770807 | -0.24532 | 1 | 2.44E+08 | R | II | | IGR | opensea | IGR-opense | rs5387943 | 1 | |
| cg1281976 | 0.202256 | 0.679113 | 5.554739 | 0.00064 | 0.00668 | -0.24532 | 0.577985 | 0.78024 | -0.20226 | 16 | 83221020 | R | II | CDH13 | 5'UTR | opensea | 5'UTR-open | rs5439452 | 27;26;23 | |
| cg1820491 | 0.274763 | 0.482924 | 5.552426 | 0.000641 | 0.00669 | -0.2481 | 0.345542 | 0.620306 | -0.27476 | 10 | 1.06E+08 | F | II | CFAP43 | Body | opensea | Body-opens | rs1163266 | 0 | |
| cg0269660 | 0.200163 | 0.531157 | 5.550886 | 0.000642 | 0.006697 | -0.24996 | 0.431076 | 0.631239 | -0.20016 | 7 | 1.51E+08 | R | II | PRKAG2 | 5'UTR | opensea | 5'UTR-open | rs5407426 | 49;33;1 | |
| cg0638180 | 0.241881 | 0.571995 | 5.550708 | 0.000642 | 0.006698 | -0.25017 | 0.451054 | 0.692935 | -0.24188 | 19 | 46119475 | R | I | EML2 | Body | island | Body-islanc | chr19:461( | | |
| cg2204645 | 0.217371 | 0.553298 | 5.549389 | 0.000643 | 0.006705 | -0.25176 | 0.444613 | 0.661984 | -0.21737 | 10 | 99052786 | R | II | ARHGAP19 | TSS1500 | shore | TSS1500-sh | chr10:9901 | rs1401327 | 20;19;18;13 |
| cg0719522 | 0.240614 | 0.321173 | 5.546756 | 0.000645 | 0.006718 | -0.25493 | 0.200866 | 0.44148 | -0.24061 | 1 | 1.59E+08 | F | II | AIM2 | TSS1500 | opensea | TSS1500-op | | | |
| cg2684088 | 0.216616 | 0.533699 | 5.542707 | 0.000648 | 0.006736 | -0.25981 | 0.425391 | 0.642007 | -0.21662 | 18 | 3412693 | R | II | TGIF1 | TSS200 | opensea | TSS200-ope | rs5608698 | 38 | |
| cg1607060 | 0.221716 | 0.659465 | 5.541419 | 0.000649 | 0.006742 | -0.26137 | 0.548607 | 0.770323 | -0.22172 | 8 | 1.31E+08 | F | II | ASAP1 | Body | opensea | Body-opens | rs5491058 | 0 | |
| cg0024547 | 0.209284 | 0.650868 | 5.537545 | 0.000652 | 0.006757 | -0.26604 | 0.546226 | 0.75551 | -0.20928 | 18 | 60057235 | F | II | | IGR | opensea | IGR-opense | rs1506141 | 6;50 | |
| cg1953809 | 0.239088 | 0.465961 | 5.535136 | 0.000654 | 0.006769 | -0.26894 | 0.346418 | 0.585505 | -0.23909 | 6 | 36323716 | F | II | ETV7 | Body | opensea | Body-opens | rs1812383 | 1;9 | |
| cg2130142 | 0.231524 | 0.425933 | 5.53428 | 0.000654 | 0.006773 | -0.26998 | 0.310171 | 0.541696 | -0.23152 | 1 | 1.66E+08 | R | II | | IGR | opensea | IGR-opense | rs5618521 | 1 | |
| cg0755037 | 0.205391 | 0.663621 | 5.533973 | 0.000655 | 0.006774 | -0.27035 | 0.560926 | 0.766316 | -0.20539 | 14 | 65833859 | R | II | | IGR | opensea | IGR-opense | rs5598703 | 43;2 | |
| cg0836334 | 0.207115 | 0.678719 | 5.530982 | 0.000657 | 0.006788 | -0.27396 | 0.575162 | 0.782277 | -0.20711 | 7 | 4752063 | F | II | FOXK1 | Body | opensea | Body-opens | | | |
| cg0155117 | 0.222776 | 0.602142 | 5.530412 | 0.000657 | 0.00679 | -0.27464 | 0.490754 | 0.71353 | -0.22278 | 14 | 1.01E+08 | F | II | SLC25A29 | Body | shelf | Body-shelf | chr14:100: | rs5659210 | 0;1;7;26;31;36;44 |
| cg1158987 | 0.204866 | 0.679398 | 5.530411 | 0.000657 | 0.00679 | -0.27465 | 0.576965 | 0.781831 | -0.20487 | 10 | 11761970 | R | II | | IGR | opensea | IGR-opense | rs5776067 | 21 | |
| cg1557362 | 0.23689 | 0.579165 | 5.529507 | 0.000658 | 0.006794 | -0.27574 | 0.46072 | 0.69761 | -0.23689 | 8 | 57871479 | F | II | IMPAD1 | 3'UTR | opensea | 3'UTR-open | rs1132231 | 1;28 | |
| cg0227921 | 0.212702 | 0.630192 | 5.529206 | 0.000658 | 0.006795 | -0.2761 | 0.523841 | 0.736543 | -0.2127 | 10 | 92682789 | R | II | | IGR | opensea | IGR-opense | rs1385199 | 1 | |
| cg1170136 | 0.235267 | 0.683653 | 5.528643 | 0.000659 | 0.006798 | -0.27678 | 0.566019 | 0.801286 | -0.23527 | 5 | 56644736 | R | II | | IGR | opensea | IGR-opense | rs1159219 | 34;33;28;1 | |
| cg1716924 | 0.200092 | 0.703179 | 5.527108 | 0.00066 | 0.006805 | -0.27864 | 0.603133 | 0.803225 | -0.20009 | 21 | 44140226 | R | II | PDE9A | 5'UTR | opensea | 5'UTR-open | rs5688168 | 2 | |
| cg0908863 | 0.215649 | 0.694357 | 5.526795 | 0.00066 | 0.006806 | -0.27901 | 0.586532 | 0.802181 | -0.21565 | 1 | 57029488 | R | II | PPAP2B | Body | opensea | Body-opens | | | |
| cg2330402 | 0.247549 | 0.338514 | 5.520872 | 0.000664 | 0.006833 | -0.28617 | 0.21474 | 0.462288 | -0.24755 | 10 | 1.24E+08 | F | I | TACC2 | Body | opensea | Body-opens | rs5323435 | 11;12;36;40;41;43;48 | |
| cg0959906 | 0.22226 | 0.66429 | 5.519257 | 0.000666 | 0.006841 | -0.28812 | 0.55316 | 0.77542 | -0.22226 | 3 | 1.42E+08 | F | II | | IGR | opensea | IGR-opense | rs5651799 | 9 | |
| cg0657207 | 0.262132 | 0.683604 | 5.51925 | 0.000666 | 0.006841 | -0.28813 | 0.552538 | 0.81467 | -0.26213 | 12 | 32487307 | R | II | BICD1 | Body | opensea | Body-opens | | | |
| cg0362831 | 0.203149 | 0.61975 | 5.514645 | 0.000669 | 0.006863 | -0.2937 | 0.518175 | 0.721325 | -0.20315 | 12 | 8705934 | R | II | | IGR | opensea | IGR-opense | rs1151443 | 1 | |
| cg0682219 | 0.217291 | 0.550341 | 5.5137 | 0.00067 | 0.006868 | -0.29484 | 0.441696 | 0.658987 | -0.21729 | 15 | 78133639 | F | II | | IGR | opensea | IGR-opense | rs1917622 | 0;28;51 | |
| cg2389546 | 0.20951 | 0.62008 | 5.512953 | 0.00067 | 0.006872 | -0.29574 | 0.515325 | 0.724835 | -0.20951 | 6 | 1.19E+08 | R | II | FAM184A | Body | opensea | Body-opens | | | |
| cg0540883 | 0.212581 | 0.578333 | 5.512357 | 0.000671 | 0.006875 | -0.29647 | 0.472042 | 0.684624 | -0.21258 | 5 | 1.77E+08 | F | II | LMAN2 | Body | shelf | Body-shelf | chr5:1767( | rs7545838 | 47 |
| cg2015533 | 0.204364 | 0.653573 | 5.510352 | 0.000672 | 0.006884 | -0.29889 | 0.551391 | 0.755754 | -0.20436 | 6 | 31160456 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1425803 | 0.287902 | 0.603544 | 5.505911 | 0.000676 | 0.006903 | -0.30427 | 0.459593 | 0.747495 | -0.2879 | 9 | 8711763 | R | II | PTPRD | Body | shore | Body-shore | chr9:8713( | rs1925176 | 49;43;4;1 |
| cg1979770 | 0.210465 | 0.475 | 5.505857 | 0.000676 | 0.006904 | -0.30433 | 0.369767 | 0.580232 | -0.21046 | 10 | 62723590 | F | II | RHOBTB1 | Body | opensea | Body-opens | rs5540340 | 17 | |
| cg0542488 | 0.203954 | 0.408504 | 5.503292 | 0.000678 | 0.006916 | -0.30744 | 0.306527 | 0.510481 | -0.20395 | 2 | 63882416 | R | II | | IGR | opensea | IGR-opense | rs5458106 | 22;1 | |
| cg0206654 | 0.213006 | 0.527008 | 5.501498 | 0.000679 | 0.006926 | -0.30961 | 0.420505 | 0.633511 | -0.21301 | 15 | 60414216 | F | II | | IGR | opensea | IGR-opense | rs5562782 | 19;40 | |
| cg1236606 | 0.209944 | 0.726493 | 5.501396 | 0.000679 | 0.006926 | -0.30973 | 0.621521 | 0.831465 | -0.20994 | 5 | 55891400 | F | II | C5orf67 | 5'UTR | opensea | 5'UTR-open | rs5293240 | 0;4;50 | |
| cg0499439 | 0.21685 | 0.674562 | 5.500398 | 0.00068 | 0.00693 | -0.31094 | 0.566137 | 0.782987 | -0.21685 | 15 | 89673485 | F | II | ABHD2 | Body | opensea | Body-opens | rs5667843 | 15 | |
| cg1685118 | 0.222062 | 0.592221 | 5.498521 | 0.000682 | 0.006939 | -0.31322 | 0.48119 | 0.703252 | -0.22206 | 22 | 35415024 | R | II | | IGR | opensea | IGR-opense | rs916243 | 31 | |
| cg2007827 | 0.234083 | 0.484749 | 5.497846 | 0.000682 | 0.006943 | -0.31404 | 0.367707 | 0.60179 | -0.23408 | 3 | 30290161 | R | II | | IGR | opensea | IGR-opense | rs1496451 | 3;1 | |
| cg2618190 | 0.219425 | 0.684148 | 5.493043 | 0.000686 | 0.006968 | -0.31986 | 0.574436 | 0.793861 | -0.21942 | 6 | 22366531 | F | II | | IGR | opensea | IGR-opense | rs5735032 | 1;8;42;49 | |
| cg2262972 | 0.209481 | 0.681559 | 5.489107 | 0.000689 | 0.006987 | -0.32463 | 0.576818 | 0.786299 | -0.20948 | 4 | 1.47E+08 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0937349 | 0.214173 | 0.612307 | 5.488075 | 0.00069 | 0.006991 | -0.32588 | 0.50522 | 0.719393 | -0.21417 | 10 | 54201835 | R | II | | IGR | opensea | IGR-opense | rs5754560 | 11 | |
| cg1468455 | 0.202985 | 0.680499 | 5.485202 | 0.000692 | 0.007004 | -0.32937 | 0.579006 | 0.781992 | -0.20299 | 20 | 43490260 | F | II | | IGR | opensea | IGR-opense | rs5679454 | 5;23;27 | |
| cg0885475 | 0.204376 | 0.498008 | 5.480142 | 0.000696 | 0.007028 | -0.33551 | 0.39582 | 0.600196 | -0.20438 | 1 | 2.18E+08 | R | II | SPATA17 | Body | opensea | Body-opens | rs7894839 | 43;33;30 | |
| cg0214532 | 0.212551 | 0.552678 | 5.477985 | 0.000698 | 0.007037 | -0.33813 | 0.446403 | 0.658953 | -0.21255 | 11 | 1.08E+08 | F | II | NPAT | Body | opensea | Body-opens | rs5287197 | 1;4 | |
| cg1652682 | 0.200674 | 0.568703 | 5.467834 | 0.000706 | 0.007087 | -0.35047 | 0.468366 | 0.66904 | -0.20067 | 13 | 1.12E+08 | F | II | LINC00368 | Body | opensea | Body-opens | rs5634807 | 0 | |
| cg1784800 | 0.214966 | 0.603814 | 5.46671 | 0.000707 | 0.007092 | -0.35184 | 0.49633 | 0.711297 | -0.21497 | 1 | 3704513 | F | I | LRRC47 | Body | shore | Body-shore | chr1:3703( | rs3709479 | 29;35;39;46;47 |
| cg1216756 | 0.200591 | 0.64866 | 5.46391 | 0.000709 | 0.007106 | -0.35525 | 0.548365 | 0.748955 | -0.20059 | 1 | 2.36E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0042813 | 0.217913 | 0.402834 | 5.460409 | 0.000712 | 0.007122 | -0.35951 | 0.293877 | 0.51179 | -0.21791 | 5 | 1.68E+08 | R | II | SLIT3 | Body | opensea | Body-opens | rs5416272 | 45;24;9 | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0351587 | 0.210493 | 0.608553 | 5.453616 | 0.000717 | 0.007155 | -0.36778 | 0.503307 | 0.7138 | -0.21049 | 14 | 52656358 | F | II | | IGR | opensea | IGR-opense | | rs5410111 | 1;11;25;40;41 |
| cg1316063 | 0.324882 | 0.558094 | 5.451686 | 0.000719 | 0.007165 | -0.37013 | 0.395653 | 0.720535 | -0.32488 | 1 | 1.61E+08 | F | II | | IGR | opensea | IGR-opense | | rs1883734 | 1;5;5;10 |
| cg2329546 | 0.221164 | 0.522751 | 5.451004 | 0.000719 | 0.007168 | -0.37096 | 0.412169 | 0.633333 | -0.22116 | 7 | 87919037 | F | II | STEAP4 | 5'UTR | opensea | 5'UTR-open | | rs5337284 | 0;30 |
| cg2002639 | 0.200533 | 0.709813 | 5.44995 | 0.00072 | 0.007174 | -0.37224 | 0.609547 | 0.81008 | -0.20053 | 14 | 62070628 | R | II | FLJ22447 | Body | opensea | Body-opens | | rs1866481 | 1 |
| cg1051615 | 0.249757 | 0.554301 | 5.448312 | 0.000722 | 0.007181 | -0.37424 | 0.429423 | 0.67918 | -0.24976 | 4 | 45624041 | F | II | | IGR | opensea | IGR-opense | | rs2865487 | 0;8;35 |
| cg0871668 | 0.212368 | 0.637096 | 5.446691 | 0.000723 | 0.007188 | -0.37622 | 0.530913 | 0.74328 | -0.21237 | 12 | 1.33E+08 | F | II | ANKLE2 | Body | shore | Body-shore | chr12:133 | rs1920768 | 20;32;36;50 |
| cg0853000 | 0.208816 | 0.651901 | 5.444897 | 0.000724 | 0.007197 | -0.37841 | 0.547493 | 0.756309 | -0.20882 | 1 | 2.04E+08 | F | II | KISS1 | Body | shore | Body-shore | chr1:2041 | rs5322996 | 1 |
| cg0763652 | 0.231733 | 0.684295 | 5.442523 | 0.000726 | 0.007209 | -0.3813 | 0.568428 | 0.800161 | -0.23173 | 7 | 41826244 | R | II | | IGR | opensea | IGR-opense | | rs7308574 | 32;27 |
| cg2085125 | 0.203048 | 0.635665 | 5.441797 | 0.000727 | 0.007214 | -0.38219 | 0.534141 | 0.737189 | -0.20305 | 7 | 1.31E+08 | R | II | MKLN1 | Body | opensea | Body-opens | | rs5511449 | 1 |
| cg0337083 | 0.212388 | 0.386129 | 5.441738 | 0.000727 | 0.007214 | -0.38226 | 0.279935 | 0.492323 | -0.21239 | 8 | 99570101 | R | II | STK3 | Body | opensea | Body-opens | | rs5479261 | 26;2 |
| cg0416316 | 0.246692 | 0.429321 | 5.439533 | 0.000729 | 0.007226 | -0.38495 | 0.305975 | 0.552667 | -0.24669 | 21 | 26768888 | F | II | LINC00158 | Body | opensea | Body-opens | | rs5444963 | 1;13 |
| cg1483000 | 0.212488 | 0.562382 | 5.439391 | 0.000729 | 0.007227 | -0.38512 | 0.456138 | 0.668626 | -0.21249 | 1 | 2.48E+08 | R | II | OR2B11 | TSS1500 | shore | TSS1500-sh | chr1:2476 | | |
| cg2050170 | 0.210701 | 0.611249 | 5.437528 | 0.00073 | 0.007235 | -0.3874 | 0.505898 | 0.716599 | -0.2107 | 12 | 95184240 | F | II | | IGR | opensea | IGR-opense | | rs5560995 | 0;1;41;42;46 |
| cg1343199 | 0.221775 | 0.67109 | 5.437285 | 0.000731 | 0.007236 | -0.38769 | 0.560202 | 0.781977 | -0.22178 | 4 | 76419913 | F | II | RCHY1 | 5'UTR | opensea | 5'UTR-open | | | |
| cg1755404 | 0.204887 | 0.660192 | 5.436692 | 0.000731 | 0.007239 | -0.38842 | 0.557748 | 0.762635 | -0.20489 | 12 | 1.09E+08 | F | II | CMKLR1 | 5'UTR | opensea | 5'UTR-open | | rs7340746 | 24;26;42;50 |
| cg2590022 | 0.23168 | 0.708884 | 5.436489 | 0.000731 | 0.00724 | -0.38866 | 0.593044 | 0.824724 | -0.23168 | 4 | 1.23E+08 | F | II | KIAA1109 | Body | opensea | Body-opens | | rs5416179 | 32 |
| cg0477294 | 0.217003 | 0.602055 | 5.434904 | 0.000733 | 0.007249 | -0.3906 | 0.493554 | 0.710557 | -0.217 | 11 | 57363540 | R | II | SERPING1 | TSS1500 | opensea | TSS1500-op | | rs2836293 | 25;19;12;1 |
| cg0465482 | 0.223273 | 0.416312 | 5.43416 | 0.000733 | 0.007252 | -0.39151 | 0.304676 | 0.527949 | -0.22327 | 10 | 1.35E+08 | R | II | LINC01167 | TSS1500 | shore | TSS1500-sh | chr10:1347 | | |
| cg1568602 | 0.213905 | 0.522255 | 5.433581 | 0.000734 | 0.007255 | -0.39221 | 0.415303 | 0.629208 | -0.2139 | 15 | 33186324 | R | II | FMN1 | Body | opensea | Body-opens | | rs5487696 | 46;28;7 |
| cg0645684 | 0.239853 | 0.426822 | 5.431797 | 0.000735 | 0.007264 | -0.39439 | 0.306895 | 0.546749 | -0.23985 | 10 | 63808883 | R | I | ARID5B | TSS200 | opensea | TSS200-ope | | | |
| cg0205252 | 0.204972 | 0.297751 | 5.430693 | 0.000736 | 0.00727 | -0.39574 | 0.195265 | 0.400237 | -0.20497 | 18 | 61662355 | F | II | | IGR | opensea | IGR-opense | | rs5280166 | 0;1;14 |
| cg2623241 | 0.204309 | 0.645941 | 5.42907 | 0.000738 | 0.007279 | -0.39772 | 0.543786 | 0.748095 | -0.20431 | 20 | 43028501 | F | I | HNF4A | TSS1500 | opensea | TSS1500-op | | rs5680016 | 26;27 |
| cg0097130 | 0.217139 | 0.601545 | 5.427199 | 0.000739 | 0.007288 | -0.40001 | 0.492976 | 0.710115 | -0.21714 | 6 | 32809960 | F | II | PSMB8 | Body | shore | Body-shore | chr6:3281 | rs4127049 | 5;41 |
| cg2463666 | 0.218956 | 0.735505 | 5.421326 | 0.000744 | 0.007317 | -0.40719 | 0.626027 | 0.844983 | -0.21896 | 22 | 50218012 | F | II | BRD1 | 5'UTR | shore | 5'UTR-shor | chr22:502 | rs20210501 | 1;18;48 |
| cg2455904 | 0.230003 | 0.545149 | 5.419292 | 0.000746 | 0.007329 | -0.40968 | 0.430148 | 0.660151 | -0.23 | 5 | 1.42E+08 | R | II | ARHGAP26 | Body | opensea | Body-opens | | rs6580266 | 51;20 |
| cg1922722 | 0.210867 | 0.497455 | 5.416104 | 0.000749 | 0.007348 | -0.41358 | 0.392022 | 0.602889 | -0.21087 | 1 | 67660601 | F | II | IL23R | Body | opensea | Body-opens | | rs5383818 | 0 |
| cg1643798 | 0.21578 | 0.625938 | 5.412916 | 0.000751 | 0.007364 | -0.41748 | 0.518048 | 0.733828 | -0.21578 | 7 | 16341410 | F | II | ISPD | Body | opensea | Body-opens | | rs5455439 | 30 |
| cg2706079 | 0.201355 | 0.602063 | 5.412747 | 0.000751 | 0.007365 | -0.41769 | 0.501385 | 0.70274 | -0.20136 | 4 | 88775480 | R | II | | IGR | opensea | IGR-opense | | rs3751808 | 36 |
| cg1503476 | 0.200934 | 0.443844 | 5.412515 | 0.000752 | 0.007366 | -0.41797 | 0.343377 | 0.544311 | -0.20093 | 13 | 38144270 | F | II | POSTN | Body | opensea | Body-opens | | rs1135124 | 0;26;27;39 |
| cg0919933 | 0.243196 | 0.337364 | 5.409197 | 0.000755 | 0.007383 | -0.42203 | 0.215766 | 0.458962 | -0.2432 | 4 | 1.79E+08 | R | II | LINC01098 | Body | opensea | Body-opens | | | |
| cg0263872 | 0.227824 | 0.506977 | 5.408585 | 0.000755 | 0.007386 | -0.42278 | 0.393065 | 0.620889 | -0.22782 | 10 | 52154700 | R | II | SGMS1 | 5'UTR | opensea | 5'UTR-open | | rs715675 | 49 |
| cg0359301 | 0.226059 | 0.470204 | 5.406812 | 0.000757 | 0.007395 | -0.42495 | 0.357174 | 0.583233 | -0.22606 | 10 | 98977821 | F | II | | IGR | opensea | IGR-opense | | rs5574373 | 1 |
| cg2023810 | 0.201696 | 0.60787 | 5.405404 | 0.000758 | 0.007402 | -0.42668 | 0.507022 | 0.708718 | -0.2017 | 7 | 1.42E+08 | F | II | LOC10012 | TSS1500 | opensea | TSS1500-op | | rs5352638 | 29 |
| cg0328926 | 0.307305 | 0.523758 | 5.400683 | 0.000762 | 0.007425 | -0.43246 | 0.370106 | 0.67741 | -0.3073 | 2 | 12424709 | F | II | LOC10050 | Body | opensea | Body-opens | | rs1879768 | 0;37 |
| cg0103441 | 0.210572 | 0.623645 | 5.400419 | 0.000762 | 0.007427 | -0.43279 | 0.518359 | 0.72893 | -0.21057 | 4 | 99876403 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0813978 | 0.204896 | 0.724606 | 5.399542 | 0.000763 | 0.00743 | -0.43386 | 0.622158 | 0.827054 | -0.2049 | 9 | 36152420 | R | II | GLIPR2 | Body | opensea | Body-opens | | rs5656551 | 32;27;24 |
| cg1129272 | 0.200851 | 0.790636 | 5.398748 | 0.000764 | 0.007434 | -0.43484 | 0.690211 | 0.891062 | -0.20085 | 15 | 1.02E+08 | R | II | TARSL2 | Body | opensea | Body-opens | | rs5318288 | 40;32;19;18 |
| cg0621834 | 0.219062 | 0.482474 | 5.398256 | 0.000764 | 0.007437 | -0.43544 | 0.372943 | 0.592005 | -0.21906 | 8 | 1.42E+08 | R | II | | IGR | opensea | IGR-opense | | rs7992560 | 30;29 |
| cg1453016 | 0.229468 | 0.470228 | 5.397526 | 0.000765 | 0.007441 | -0.43633 | 0.355494 | 0.584962 | -0.22947 | 2 | 26771246 | R | II | OTOF | Body | opensea | Body-opens | | rs1926296 | 27;15 |
| cg1600683 | 0.205951 | 0.688111 | 5.396601 | 0.000766 | 0.007446 | -0.43747 | 0.585136 | 0.791087 | -0.20595 | 8 | 1.23E+08 | R | II | | IGR | opensea | IGR-opense | | rs5477539 | 15;13;2 |
| cg0403508 | 0.247701 | 0.407031 | 5.396234 | 0.000766 | 0.007448 | -0.43792 | 0.283181 | 0.530882 | -0.2477 | 3 | 73026486 | F | II | | IGR | opensea | IGR-opense | | rs3738387 | 38 |
| cg1400873 | 0.220776 | 0.360659 | 5.394901 | 0.000767 | 0.007454 | -0.43955 | 0.250271 | 0.471046 | -0.22078 | 4 | 25940297 | F | II | | IGR | opensea | IGR-opense | | rs1893818 | 0 |
| cg0638003 | 0.212159 | 0.581552 | 5.394669 | 0.000767 | 0.007455 | -0.43984 | 0.475473 | 0.687632 | -0.21216 | 14 | 65459268 | R | II | FNTB | Body | opensea | Body-opens | | rs1454133 | 43;24;12 |
| cg2189024 | 0.21308 | 0.639278 | 5.394021 | 0.000768 | 0.007458 | -0.44063 | 0.532738 | 0.745818 | -0.21308 | 4 | 1.13E+08 | F | II | | IGR | opensea | IGR-opense | | rs7665919 | 0;3 |
| cg1522314 | 0.203298 | 0.686007 | 5.392812 | 0.000769 | 0.007464 | -0.44212 | 0.584358 | 0.787656 | -0.2033 | 2 | 2.18E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0875272 | 0.225917 | 0.622223 | 5.390654 | 0.000771 | 0.007475 | -0.44476 | 0.509264 | 0.735182 | -0.22592 | 21 | 36254259 | R | II | RUNX1 | Body | opensea | Body-opens | | rs1848865 | 2;1 |
| cg2638686 | 0.216045 | 0.681645 | 5.387875 | 0.000773 | 0.007492 | -0.44818 | 0.573622 | 0.789667 | -0.21605 | 10 | 11020196 | R | II | | IGR | opensea | IGR-opense | | rs5564159 | 49;2 |
| cg1464239 | 0.215261 | 0.611342 | 5.387822 | 0.000773 | 0.007492 | -0.44824 | 0.503712 | 0.718973 | -0.21526 | 6 | 32026740 | F | II | TNXB | Body | opensea | Body-opens | | rs1482606 | 1 |
| cg2223270 | 0.215065 | 0.443488 | 5.383714 | 0.000777 | 0.007514 | -0.45329 | 0.335956 | 0.551021 | -0.21507 | 10 | 10274047 | F | II | | IGR | opensea | IGR-opense | | rs1841813 | 34 |
| cg2341773 | 0.235802 | 0.619892 | 5.382094 | 0.000778 | 0.007523 | -0.45528 | 0.501991 | 0.737793 | -0.2358 | 2 | 2.21E+08 | R | II | | IGR | opensea | IGR-opense | | rs1808054 | 44;18;9;1 |
| cg2578489 | 0.21863 | 0.613708 | 5.38208 | 0.000778 | 0.007523 | -0.45529 | 0.504393 | 0.723023 | -0.21863 | 2 | 69443984 | R | II | ANTXR1 | Body | opensea | Body-opens | | rs3421285 | 24;15 |
| cg2152446 | 0.218887 | 0.416348 | 5.381185 | 0.000779 | 0.007527 | -0.45639 | 0.306904 | 0.525792 | -0.21889 | 12 | 20525478 | F | II | PDE3A | Body | shelf | Body-shelf | chr12:205 | rs1815133 | 0;22;29 |
| cg2590314 | 0.248878 | 0.566511 | 5.378708 | 0.000781 | 0.007541 | -0.45944 | 0.442072 | 0.69095 | -0.24888 | 7 | 1.32E+08 | F | II | LOC10192 | Body | opensea | Body-opens | | rs5549238 | 21;25 |
| cg0266725 | 0.205147 | 0.572104 | 5.376718 | 0.000783 | 0.007553 | -0.46188 | 0.469531 | 0.674678 | -0.20515 | 1 | 9509481 | R | II | | IGR | opensea | IGR-opense | | rs6056006 | 49;17;12 |
| cg2642015 | 0.213427 | 0.733636 | 5.368473 | 0.000791 | 0.007596 | -0.47202 | 0.626922 | 0.840349 | -0.21343 | 2 | 1.8E+08 | F | II | CCDC141 | TSS1500 | opensea | TSS1500-op | | rs340331 | r 25;31;38 |
| cg2714150 | 0.251814 | 0.40209 | 5.368393 | 0.000791 | 0.007597 | -0.47212 | 0.276183 | 0.527997 | -0.25181 | 10 | 5886111 | R | II | | IGR | shelf | IGR-shelf | chr10:588 | | |
| cg1432543 | 0.214175 | 0.759263 | 5.368046 | 0.000791 | 0.007598 | -0.47255 | 0.652175 | 0.86635 | -0.21417 | 19 | 17404977 | F | I | ABHD8 | Body | island | Body-islanc | chr19:174 | rs7708620 | 12;18;33;46;48 |
| cg1107152 | 0.208736 | 0.532369 | 5.356258 | 0.000802 | 0.007662 | -0.48706 | 0.428001 | 0.636737 | -0.20874 | 17 | 16891339 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1443966 | 0.206336 | 0.616976 | 5.35589 | 0.000802 | 0.007664 | -0.48752 | 0.513808 | 0.720144 | -0.20634 | 11 | 35058327 | R | II | | IGR | opensea | IGR-opense | | rs5775280 | 29;26 |
| cg2687304 | 0.202927 | 0.622226 | 5.355877 | 0.000802 | 0.007664 | -0.48753 | 0.520763 | 0.72369 | -0.20293 | 5 | 67363338 | F | II | | IGR | opensea | IGR-opense | | rs1509277 | 11 |
| cg0213090 | 0.200772 | 0.344415 | 5.354667 | 0.000803 | 0.007671 | -0.48902 | 0.244029 | 0.444801 | -0.20077 | 3 | 1.88E+08 | F | II | | IGR | opensea | IGR-opense | | rs1144064 | 0;29;33 |
| cg0565817 | 0.200344 | 0.588306 | 5.353308 | 0.000805 | 0.007679 | -0.4907 | 0.488133 | 0.688478 | -0.20034 | 20 | 43377579 | F | II | KCNK15 | Body | shore | Body-shore | chr20:433 | rs7596662 | 49 |
| cg2317716 | 0.413316 | 0.634163 | 5.352824 | 0.000805 | 0.007681 | -0.4913 | 0.427505 | 0.840821 | -0.41332 | 1 | 1.16E+08 | F | II | | IGR | opensea | IGR-opense | | rs5695769 | 17;22;49 |
| cg0097895 | 0.216953 | 0.671947 | 5.348228 | 0.000809 | 0.007708 | -0.49696 | 0.56347 | 0.780423 | -0.21695 | 17 | 38085536 | R | II | | IGR | shore | IGR-shore | chr17:380 | | |
| cg1663688 | 0.200848 | 0.6674 | 5.347774 | 0.00081 | 0.00771 | -0.49752 | 0.566976 | 0.767825 | -0.20085 | 1 | 41788223 | R | II | | IGR | opensea | IGR-opense | | rs5680425 | 44;2;1 |
| cg1367977 | 0.212573 | 0.633956 | 5.346819 | 0.000811 | 0.007716 | -0.4987 | 0.52767 | 0.740242 | -0.21257 | 14 | 89933549 | F | II | FOXN3 | 5'UTR | opensea | 5'UTR-open | | rs3693437 | 0;20;26 |
| cg0065027 | 0.205031 | 0.420481 | 5.345841 | 0.000812 | 0.007722 | -0.49991 | 0.317965 | 0.522996 | -0.20503 | 9 | 1879539 | F | II | | IGR | opensea | IGR-opense | | rs5421761 | 1;3;4 |
| cg2579131 | 0.251327 | 0.531051 | 5.344476 | 0.000813 | 0.007727 | -0.50159 | 0.405388 | 0.656715 | -0.25133 | 14 | 1E+08 | R | II | EML1 | Body | opensea | Body-opens | | rs1380450 | 2;1 |
| cg1325506 | 0.212417 | 0.503462 | 5.341523 | 0.000816 | 0.007742 | -0.50524 | 0.397254 | 0.609671 | -0.21242 | 17 | 17616093 | F | II | RAI1 | 5'UTR | opensea | 5'UTR-open | | rs1114863 | 1;2;50 |
| cg1567951 | 0.212259 | 0.560444 | 5.340025 | 0.000817 | 0.007749 | -0.50709 | 0.454315 | 0.666574 | -0.21226 | 9 | 35570941 | F | II | | IGR | opensea | IGR-opense | | rs5361233 | 0 |
| cg2587269 | 0.23199 | 0.452232 | 5.335578 | 0.000821 | 0.007775 | -0.51258 | 0.336237 | 0.568227 | -0.23199 | 4 | 1.22E+08 | F | II | | IGR | opensea | IGR-opense | | rs5515345 | 20;49 |
| cg0135503 | 0.220107 | 0.455614 | 5.335171 | 0.000822 | 0.007778 | -0.51308 | 0.34556 | 0.565667 | -0.22011 | 5 | 32531689 | F | II | | IGR | opensea | IGR-opense | | | |
| cg1369780 | 0.214768 | 0.387757 | 5.331134 | 0.000826 | 0.0078 | -0.51807 | 0.280374 | 0.495141 | -0.21477 | 1 | 1.71E+08 | R | I | FMO2 | TSS1500 | opensea | TSS1500-op | | rs5713832 | 51;9;2;1 |
| cg2242101 | 0.23926 | 0.709508 | 5.325257 | 0.000831 | 0.007834 | -0.52534 | 0.589878 | 0.829138 | -0.23926 | 1 | 1.51E+08 | R | II | | IGR | opensea | IGR-opense | | rs1379003 | 44 |
| cg0495110 | 0.224356 | 0.449861 | 5.322955 | 0.000833 | 0.007846 | -0.52818 | 0.337683 | 0.562039 | -0.22436 | 17 | 41739195 | R | II | MEOX1 | TSS1500 | opensea | TSS1500-op | | rs5466323 | 24;2;1 |
| cg0123424 | 0.213841 | 0.596334 | 5.315778 | 0.00084 | 0.007884 | -0.53706 | 0.489413 | 0.703255 | -0.21384 | 12 | 26150045 | F | II | RASSF8 | 5'UTR | opensea | 5'UTR-open | | rs5583810 | 27;44 |
| cg1102654 | 0.205963 | 0.65058 | 5.315296 | 0.000841 | 0.007887 | -0.53766 | 0.547598 | 0.753561 | -0.20596 | 8 | 48486387 | F | II | SPIDR | Body | opensea | Body-opens | | rs5424733 | 9;34;37 |
| cg1554623 | 0.210806 | 0.6105 | 5.315035 | 0.000841 | 0.007888 | -0.53798 | 0.505097 | 0.715902 | -0.21081 | 13 | 25205286 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0361036 | 0.22213 | 0.716353 | 5.31502 | 0.000841 | 0.007888 | -0.538 | 0.605288 | 0.827418 | -0.22213 | 10 | 33405007 | F | II | | IGR | opensea | IGR-opense | | rs5676874 | 33 |
| cg1134596 | 0.209662 | 0.625368 | 5.311704 | 0.000844 | 0.007908 | -0.54211 | 0.520537 | 0.730199 | -0.20966 | 21 | 15919951 | R | II | SAMSN1 | TSS1500 | opensea | TSS1500-op | | rs1887676 | 47;35 |
| cg0665597 | 0.229156 | 0.622054 | 5.310929 | 0.000845 | 0.007912 | -0.54307 | 0.507476 | 0.736632 | -0.22916 | 1 | 2.35E+08 | R | II | | IGR | opensea | IGR-opense | | rs2674002 | 48;44;42 |
| cg2596341 | 0.221838 | 0.327554 | 5.310114 | 0.000846 | 0.007916 | -0.54408 | 0.216635 | 0.438473 | -0.22184 | 2 | 1.03E+08 | R | II | IL1R2 | 5'UTR | opensea | 5'UTR-open | | rs4851526 | 46;20 |
| cg2230307 | 0.205935 | 0.431966 | 5.305515 | 0.00085 | 0.007941 | -0.54978 | 0.328999 | 0.534934 | -0.20594 | 1 | 2.32E+08 | R | II | EGLN1 | Body | shelf | Body-shelf | chr1:2315 | rs5644674 | 42;31 |
| cg1897681 | 0.205858 | 0.745558 | 5.304707 | 0.000851 | 0.007946 | -0.55078 | 0.642628 | 0.848487 | -0.20586 | 1 | 2.13E+08 | R | II | | IGR | opensea | IGR-opense | | rs5763883 | 45;32;24;7 |
| cg1258676 | 0.228473 | 0.681494 | 5.295266 | 0.000861 | 0.007999 | -0.56249 | 0.567257 | 0.79573 | -0.22847 | 15 | 60868447 | R | II | RORA-AS1 | Body | opensea | Body-opens | | rs1385276 | 36;1 |
| cg0760273 | 0.213863 | 0.621509 | 5.29128 | 0.000865 | 0.008021 | -0.56744 | 0.514578 | 0.72844 | -0.21386 | 4 | 57727739 | F | II | | IGR | opensea | IGR-opense | | rs5662085 | 41 |
| cg0608027 | 0.240478 | 0.654022 | 5.290737 | 0.000865 | 0.008025 | -0.56811 | 0.533783 | 0.774261 | -0.24048 | 19 | 35896238 | F | II | LINC01531 | TSS1500 | opensea | TSS1500-op | | rs5499148 | 1;11;18 |
| cg0875145 | 0.220352 | 0.635069 | 5.287946 | 0.000868 | 0.008039 | -0.57158 | 0.524894 | 0.745245 | -0.22035 | 10 | 53287690 | F | II | PRKG1 | Body | opensea | Body-opens | | rs5642196 | 0 |
| cg0366855 | 0.206102 | 0.761658 | 5.283711 | 0.000872 | 0.008066 | -0.57684 | 0.658606 | 0.864709 | -0.2061 | 6 | 2977293 | R | II | | IGR | opensea | IGR-opense | | rs6932006 | 17 |
| cg1448406 | 0.24272 | 0.562332 | 5.28147 | 0.000874 | 0.00808 | -0.57963 | 0.440972 | 0.683692 | -0.24272 | 13 | 1.07E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0474506 | 0.204527 | 0.527444 | 5.281078 | 0.000875 | 0.008082 | -0.58011 | 0.42518 | 0.629707 | -0.20453 | 6 | 29416095 | F | II | | IGR | opensea | IGR-opense | | rs5389338 | 15;18 |
| cg1214472 | 0.200962 | 0.644765 | 5.279413 | 0.000877 | 0.008091 | -0.58218 | 0.544284 | 0.745246 | -0.20096 | 4 | 1.5E+08 | F | II | | IGR | opensea | IGR-opense | | rs5546762 | 1 |
| cg2452678 | 0.207977 | 0.442799 | 5.274964 | 0.000881 | 0.008117 | -0.58772 | 0.33881 | 0.546788 | -0.20798 | 4 | 88871623 | F | II | | IGR | opensea | IGR-opense | | rs5772708 | 0 |
| cg0345998 | 0.20701 | 0.571714 | 5.263217 | 0.000893 | 0.008185 | -0.60234 | 0.468209 | 0.675219 | -0.20701 | 18 | 25753672 | R | II | CDH2 | Body | shore | Body-shore | chr18:257 | | |
| cg0234164 | 0.216815 | 0.810652 | 5.260213 | 0.000896 | 0.008204 | -0.60608 | 0.702245 | 0.91906 | -0.21681 | 17 | 71756141 | F | II | C17orf54 | Body | opensea | Body-opens | | rs7137349 | 15;17 |
| cg2326131 | 0.230632 | 0.418937 | 5.257914 | 0.000899 | 0.008218 | -0.60895 | 0.303621 | 0.534253 | -0.23063 | 2 | 1.83E+08 | F | II | | IGR | opensea | IGR-opense | | rs5294874 | 0 |
| cg0385095 | 0.232369 | 0.522278 | 5.252022 | 0.000905 | 0.008252 | -0.6163 | 0.406094 | 0.638462 | -0.23237 | 20 | 16713359 | F | II | SNRPB2 | Body | shelf | Body-shelf | chr20:167 | rs5377098 | 29;47 |
| cg0240627 | 0.237954 | 0.60512 | 5.248254 | 0.000909 | 0.008274 | -0.621 | 0.486143 | 0.724097 | -0.23795 | 12 | 52849755 | R | II | | IGR | opensea | IGR-opense | | rs5376864 | 39;1 |
| cg0209436 | 0.207817 | 0.652699 | 5.246159 | 0.000911 | 0.008287 | -0.62361 | 0.54879 | 0.756607 | -0.20782 | 14 | 33955865 | F | II | NPAS3 | Body | opensea | Body-opens | | rs5498818 | 22;32 |
| cg1623847 | 0.209401 | 0.668739 | 5.244708 | 0.000913 | 0.008296 | -0.62542 | 0.564039 | 0.77344 | -0.2094 | 17 | 5087767 | R | II | ZNF594 | 5'UTR | opensea | 5'UTR-open | | rs2641233 | 46;11;2;1 |
| cg2364092 | 0.204124 | 0.683133 | 5.238761 | 0.000919 | 0.008333 | -0.63285 | 0.581071 | 0.785195 | -0.20412 | 1 | 1.11E+08 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0517678 | 0.229668 | 0.410351 | 5.23216 | 0.000926 | 0.008375 | -0.6411 | 0.295516 | 0.525185 | -0.22967 | 8 | 95541247 | R | II | KIAA1429 | Body | opensea | Body-opens | | rs957447 | 26 |
| cg1365705 | 0.218288 | 0.694698 | 5.229419 | 0.000929 | 0.008391 | -0.64453 | 0.585554 | 0.803842 | -0.21829 | 6 | 11805824 | R | II | | IGR | opensea | IGR-opense | | | |
| cg1021786 | 0.236573 | 0.413954 | 5.226885 | 0.000932 | 0.008404 | -0.6477 | 0.295668 | 0.532241 | -0.23657 | 10 | 99188343 | R | II | PGAM1 | Body | shelf | Body-shelf | chr10:991 | rs1475377 | 45;34 |
| cg1945681 | 0.208871 | 0.610273 | 5.222712 | 0.000937 | 0.008427 | -0.65292 | 0.505838 | 0.714709 | -0.20887 | 5 | 1.43E+08 | R | II | ARHGAP26 | Body | opensea | Body-opens | | rs1007744 | 45;14;1 |
| cg0109210 | 0.201603 | 0.560645 | 5.214678 | 0.000945 | 0.008476 | -0.66298 | 0.459844 | 0.661446 | -0.2016 | 5 | 33362853 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0901076 | 0.212072 | 0.711891 | 5.214365 | 0.000946 | 0.008478 | -0.66337 | 0.605856 | 0.817927 | -0.21207 | 8 | 1.26E+08 | R | II | NSMCE2 | Body | opensea | Body-opens | | rs7272056 | 31 |
| cg2087562 | 0.209374 | 0.451902 | 5.211987 | 0.000948 | 0.008493 | -0.66635 | 0.347215 | 0.556589 | -0.20937 | 1 | 1.12E+08 | F | II | | IGR | shelf | IGR-shelf | chr1:1121 | rs5550612 | 0;23 |
| cg1178983 | 0.206654 | 0.689397 | 5.208452 | 0.000952 | 0.008516 | -0.67078 | 0.58607 | 0.792724 | -0.20665 | 1 | 2.28E+08 | R | II | SNAP47 | Body | opensea | Body-opens | | | |
| cg0699941 | 0.225979 | 0.343166 | 5.208168 | 0.000953 | 0.008517 | -0.67114 | 0.230176 | 0.456155 | -0.22598 | 8 | 59053821 | F | II | FAM110B | 5'UTR | opensea | 5'UTR-open | | rs5448757 | 21 |
| cg2356179 | 0.209523 | 0.655787 | 5.208018 | 0.000953 | 0.008518 | -0.67133 | 0.551026 | 0.760549 | -0.20952 | 1 | 27952665 | F | II | FGR | 1stExon | opensea | 1stExon-op | | rs5363218 | 0;14 |
| cg2653322 | 0.266436 | 0.543561 | 5.202785 | 0.000959 | 0.008552 | -0.67789 | 0.410343 | 0.676779 | -0.26644 | 3 | 1.02E+08 | R | II | | IGR | opensea | IGR-opense | | rs4336093 | 17 |
| cg0225875 | 0.207096 | 0.471587 | 5.200952 | 0.000961 | 0.008562 | -0.68019 | 0.368039 | 0.575135 | -0.2071 | 2 | 1.44E+08 | F | II | ARHGAP15 | Body | opensea | Body-opens | | rs1899901 | 0 |
| cg2530859 | 0.215892 | 0.706971 | 5.197159 | 0.000965 | 0.008588 | -0.68495 | 0.599025 | 0.814917 | -0.21589 | 3 | 3151679 | F | II | IL5RA | 5'UTR | opensea | 5'UTR-open | | rs5510056 | 0;1;8;38 |
| cg1071888 | 0.202818 | 0.723149 | 5.193936 | 0.000969 | 0.008607 | -0.689 | 0.62174 | 0.824558 | -0.20282 | 3 | 15671452 | F | II | BTD | 5'UTR | opensea | 5'UTR-open | | | |
| cg0424162 | 0.200094 | 0.551735 | 5.19339 | 0.000969 | 0.00861 | -0.68969 | 0.451688 | 0.651782 | -0.20009 | 17 | 6872910 | R | II | | IGR | opensea | IGR-opense | | rs5689931 | 34;33 |
| cg0731294 | 0.203867 | 0.671512 | 5.191395 | 0.000972 | 0.008622 | -0.69219 | 0.569579 | 0.773445 | -0.20387 | 15 | 40069872 | R | II | FSIP1 | 5'UTR | opensea | 5'UTR-open | | rs5400878 | 41 |
| cg1387538 | 0.207388 | 0.553024 | 5.187433 | 0.000976 | 0.008649 | -0.69717 | 0.44933 | 0.656718 | -0.20739 | 15 | 78621684 | F | II | | IGR | opensea | IGR-opense | | rs5295918 | 0;15;25;33;34;47 |
| cg1340243 | 0.22703 | 0.66402 | 5.186915 | 0.000977 | 0.008652 | -0.69782 | 0.550505 | 0.777535 | -0.22703 | 2 | 37117112 | R | II | STRN | Body | opensea | Body-opens | | rs888083 | r 41;32 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cg0645747 | 0.237287 | 0.418334 | 5.185769 | 0.000978 | 0.008657 | -0.69926 | 0.29969 | 0.536977 | -0.23729 | 4 | 1.52E+08 | F | II | SH3D19 | TSS1500 | opensea | TSS1500-op | | rs1929553 | 37 |
| cg0941582 | 0.212288 | 0.461601 | 5.182237 | 0.000982 | 0.00868 | -0.7037 | 0.355457 | 0.567745 | -0.21229 | 14 | 75981930 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0582359 | 0.224748 | 0.353931 | 5.182051 | 0.000982 | 0.008681 | -0.70393 | 0.241557 | 0.466305 | -0.22475 | 15 | 63779496 | R | II | | IGR | opensea | IGR-opense | | rs5449394 | 28;24;12 |
| cg0687335 | 0.207548 | 0.63906 | 5.181885 | 0.000983 | 0.008682 | -0.70414 | 0.535285 | 0.742834 | -0.20755 | 17 | 60770405 | R | II | MRC2 | 3'UTR | opensea | 3'UTR-open | | rs1466781 | 1 |
| cg0425503 | 0.210983 | 0.318184 | 5.180907 | 0.000984 | 0.008687 | -0.70537 | 0.212692 | 0.423675 | -0.21098 | 12 | 95034515 | R | II | TMCC3 | Body | opensea | Body-opens | | rs1846620 | 51;32;1 |
| cg1471706 | 0.20237 | 0.542339 | 5.179563 | 0.000985 | 0.008696 | -0.70706 | 0.441155 | 0.643524 | -0.20237 | 13 | 1.04E+08 | R | II | | IGR | opensea | IGR-opense | | rs1422550 | 37;9 |
| cg0212142 | 0.218673 | 0.508209 | 5.165795 | 0.001001 | 0.008783 | -0.7244 | 0.398872 | 0.617545 | -0.21867 | 3 | 1.94E+08 | R | II | LRRC15 | TSS1500 | opensea | TSS1500-op | | rs2020627 | 34;26;18;1 |
| cg0572974 | 0.229856 | 0.660567 | 5.165428 | 0.001002 | 0.008785 | -0.72486 | 0.545639 | 0.775495 | -0.22986 | 22 | 49937644 | R | II | | IGR | shelf | IGR-shelf | chr22:4995 | | |
| cg0050131 | 0.209027 | 0.653469 | 5.162889 | 0.001005 | 0.008802 | -0.72806 | 0.548956 | 0.757983 | -0.20903 | 6 | 1.01E+08 | F | II | | IGR | opensea | IGR-opense | | rs3744667 | 14;20 |
| cg0976280 | 0.200891 | 0.579642 | 5.160959 | 0.001007 | 0.008813 | -0.73049 | 0.479197 | 0.680087 | -0.20089 | 4 | 1.44E+08 | R | II | | IGR | opensea | IGR-opense | | rs1701739 | 9 |
| cg1839945 | 0.211598 | 0.348829 | 5.160661 | 0.001007 | 0.008814 | -0.73087 | 0.243031 | 0.454628 | -0.2116 | 6 | 16421273 | F | II | ATXN1 | 5'UTR | opensea | 5'UTR-open | | rs1508293 | 0 |
| cg1742451 | 0.206047 | 0.571276 | 5.156067 | 0.001013 | 0.008846 | -0.73666 | 0.468252 | 0.674299 | -0.20605 | 14 | 64458783 | R | II | SYNE2 | Body | opensea | Body-opens | | rs5296390 | 40;31;10 |
| cg2598271 | 0.200393 | 0.632471 | 5.150898 | 0.001019 | 0.008877 | -0.74318 | 0.532274 | 0.732667 | -0.20039 | 18 | 11027789 | R | II | PIEZO2 | Body | opensea | Body-opens | | rs3735900 | 26 |
| cg1981381 | 0.213742 | 0.511195 | 5.14997 | 0.00102 | 0.008882 | -0.74436 | 0.404324 | 0.618066 | -0.21374 | 4 | 40701775 | F | II | | IGR | opensea | IGR-opense | | rs1838285 | 16;32;47 |
| cg1164228 | 0.212103 | 0.572914 | 5.145851 | 0.001025 | 0.008909 | -0.74956 | 0.466863 | 0.678966 | -0.2121 | 11 | 1.17E+08 | F | II | SIK3 | Body | opensea | Body-opens | | rs1228917 | 0;1 |
| cg0966896 | 0.232261 | 0.630362 | 5.142648 | 0.001029 | 0.00893 | -0.7536 | 0.514231 | 0.746492 | -0.23226 | 3 | 1.29E+08 | F | II | | IGR | opensea | IGR-opense | | rs5377570 | 42 |
| cg1353686 | 0.200831 | 0.381461 | 5.140216 | 0.001032 | 0.008948 | -0.75668 | 0.281046 | 0.481877 | -0.20083 | 10 | 1.16E+08 | R | II | ABLIM1 | Body | opensea | Body-opens | | rs5755672 | 50;16 |
| cg0657871 | 0.204176 | 0.402658 | 5.139531 | 0.001033 | 0.008952 | -0.75754 | 0.30057 | 0.504746 | -0.20418 | 19 | 30343398 | R | II | | IGR | opensea | IGR-opense | | | |
| cg0398964 | 0.205938 | 0.619301 | 5.134473 | 0.001039 | 0.008983 | -0.76394 | 0.516332 | 0.72227 | -0.20594 | 9 | 1.17E+08 | R | II | ZNF618 | Body | shelf | Body-shelf | chr9:11666 | | |
| cg2229688 | 0.219413 | 0.432005 | 5.132504 | 0.001042 | 0.008996 | -0.76643 | 0.322298 | 0.541712 | -0.21941 | 3 | 1.21E+08 | R | II | ARGFX | 5'UTR | opensea | 5'UTR-open | | rs5382121 | 49;47;22;1 |
| cg2559802 | 0.221396 | 0.565613 | 5.129319 | 0.001046 | 0.009016 | -0.77046 | 0.454915 | 0.676311 | -0.2214 | 2 | 877141 | F | II | | IGR | opensea | IGR-opense | | rs7315303 | 0;1 |
| cg1715101 | 0.205582 | 0.659035 | 5.124819 | 0.001051 | 0.009042 | -0.77615 | 0.556244 | 0.761826 | -0.20558 | 4 | 5040021 | F | II | | IGR | opensea | IGR-opense | | | |
| cg0161215 | 0.214339 | 0.611944 | 5.12423 | 0.001052 | 0.009046 | -0.7769 | 0.504774 | 0.719113 | -0.21434 | 1 | 1.58E+08 | F | II | FCRL4 | 1stExon | opensea | 1stExon-op | | rs1440402 | 0;1;31;41 |
| cg0932065 | 0.232617 | 0.555765 | 5.121349 | 0.001055 | 0.009065 | -0.78054 | 0.439456 | 0.672073 | -0.23262 | 1 | 66708864 | R | II | PDE4B | Body | opensea | Body-opens | | rs1881010 | 2;1 |
| cg2188587 | 0.207469 | 0.58176 | 5.121191 | 0.001056 | 0.009066 | -0.78075 | 0.478025 | 0.685494 | -0.20747 | 2 | 2.05E+08 | F | II | | IGR | opensea | IGR-opense | | rs1467784 | 17 |
| cg0343776 | 0.211061 | 0.518104 | 5.11955 | 0.001058 | 0.009075 | -0.78282 | 0.412573 | 0.623634 | -0.21106 | 2 | 28937060 | R | II | | IGR | opensea | IGR-opense | | rs5440168 | 49;42 |
| cg0533142 | 0.201749 | 0.738481 | 5.116531 | 0.001061 | 0.009096 | -0.78665 | 0.637606 | 0.839355 | -0.20175 | 8 | 72743446 | F | II | | IGR | opensea | IGR-opense | | rs5496758 | 1;3 |
| cg1203630 | 0.204924 | 0.690679 | 5.113854 | 0.001065 | 0.009114 | -0.79004 | 0.588216 | 0.793141 | -0.20492 | 14 | 21515584 | R | II | NDRG2 | Body | opensea | Body-opens | | | |
| cg1010329 | 0.20013 | 0.608925 | 5.112897 | 0.001066 | 0.00912 | -0.79125 | 0.50886 | 0.70899 | -0.20013 | 20 | 4110148 | R | II | | IGR | opensea | IGR-opense | | rs6052384 | 32;2 |
| cg0523065 | 0.223219 | 0.626787 | 5.112019 | 0.001067 | 0.009126 | -0.79237 | 0.515178 | 0.738396 | -0.22322 | 3 | 1.88E+08 | R | II | LPP | Body | opensea | Body-opens | | rs1472555 | 24 |
| cg0832848 | 0.227578 | 0.406732 | 5.110562 | 0.001069 | 0.009135 | -0.79421 | 0.292943 | 0.520521 | -0.22758 | 16 | 31119196 | F | II | BCKDK | TSS1500 | shore | TSS1500-sh | chr16:311 | rs1818241 | 19;28;39 |
| cg1179572 | 0.20284 | 0.358712 | 5.110094 | 0.00107 | 0.009138 | -0.79481 | 0.257292 | 0.460132 | -0.20284 | 10 | 89395643 | R | II | | IGR | opensea | IGR-opense | | rs1809423 | 33;19;1 |
| cg0225273 | 0.200099 | 0.669383 | 5.108405 | 0.001072 | 0.00915 | -0.79695 | 0.569333 | 0.769433 | -0.2001 | 18 | 1917623 | F | II | | IGR | opensea | IGR-opense | | rs5692061 | 25;45 |
| cg0428785 | 0.231152 | 0.591833 | 5.108337 | 0.001072 | 0.009151 | -0.79704 | 0.476258 | 0.707409 | -0.23115 | 5 | 40276980 | R | II | | IGR | opensea | IGR-opense | | | |
| cg2699317 | 0.214743 | 0.59504 | 5.107456 | 0.001073 | 0.009157 | -0.79815 | 0.487668 | 0.702412 | -0.21474 | 3 | 1.22E+08 | F | II | CD86 | 5'UTR | opensea | 5'UTR-open | | rs1307470 | 35;48 |
| cg0421496 | 0.210903 | 0.690661 | 5.105523 | 0.001075 | 0.009171 | -0.80061 | 0.585209 | 0.796113 | -0.2109 | 18 | 3875619 | R | II | DLGAP1 | TSS1500 | shelf | TSS1500-sh | chr18:387 | rs7492844 | 22 |
| cg0828346 | 0.203243 | 0.446149 | 5.100753 | 0.001082 | 0.009204 | -0.80666 | 0.344527 | 0.54777 | -0.20324 | 18 | 45547783 | F | II | | IGR | opensea | IGR-opense | | rs7698988 | 0;23;28;43 |
| cg0926114 | 0.243099 | 0.672785 | 5.099541 | 0.001083 | 0.009213 | -0.8082 | 0.551235 | 0.794334 | -0.2431 | 8 | 27976638 | R | II | ELP3 | Body | opensea | Body-opens | | | |
| cg1600281 | 0.202419 | 0.681086 | 5.09909 | 0.001084 | 0.009216 | -0.80877 | 0.579877 | 0.782296 | -0.20242 | 5 | 1.41E+08 | F | II | | IGR | opensea | IGR-opense | | rs1413456 | 0;21;42 |
| cg0232388 | 0.231738 | 0.555464 | 5.098606 | 0.001084 | 0.009219 | -0.80939 | 0.439595 | 0.671333 | -0.23174 | 15 | 38332037 | R | II | LOC10192 | TSS1500 | opensea | TSS1500-op | | rs5457156 | 30 |
| cg0220984 | 0.204094 | 0.730735 | 5.095913 | 0.001088 | 0.009236 | -0.81281 | 0.628688 | 0.832782 | -0.20409 | 2 | 68692448 | R | II | FBXO48 | 5'UTR | shore | 5'UTR-shor | chr2:6869 | rs5738628 | 51;1 |
| cg1410239 | 0.213353 | 0.629991 | 5.095066 | 0.001089 | 0.009243 | -0.81388 | 0.523314 | 0.736667 | -0.21335 | 11 | 1.11E+08 | R | II | C11orf53 | TSS1500 | opensea | TSS1500-op | | rs1510898 | 25 |
| cg1724945 | 0.209943 | 0.704415 | 5.094056 | 0.00109 | 0.009249 | -0.81517 | 0.599443 | 0.809386 | -0.20994 | 2 | 2.41E+08 | R | II | | IGR | opensea | IGR-opense | | rs1466032 | 51;37 |
| cg1836200 | 0.230123 | 0.527265 | 5.088926 | 0.001097 | 0.009285 | -0.82169 | 0.412204 | 0.642327 | -0.23012 | 11 | 1.22E+08 | F | II | LOC39995 | Body | opensea | Body-opens | | rs1842619 | 12;33 |
| cg2021236 | 0.204856 | 0.667817 | 5.083611 | 0.001104 | 0.009323 | -0.82845 | 0.565389 | 0.770245 | -0.20486 | 4 | 1.02E+08 | F | II | | IGR | opensea | IGR-opense | | rs1487457 | 0;1 |
| cg1228213 | 0.201574 | 0.59577 | 5.083607 | 0.001104 | 0.009323 | -0.82845 | 0.494983 | 0.696557 | -0.20157 | 10 | 1.01E+08 | F | II | CNNM1 | Body | opensea | Body-opens | | | |
| cg2323177 | 0.251759 | 0.575985 | 5.081738 | 0.001106 | 0.009335 | -0.83083 | 0.450106 | 0.701864 | -0.25176 | 1 | 1.69E+08 | R | II | | IGR | opensea | IGR-opense | | rs5602669 | 2;1 |
| cg0526570 | 0.20777 | 0.639396 | 5.07606 | 0.001114 | 0.009375 | -0.83805 | 0.535511 | 0.74328 | -0.20777 | 5 | 1.58E+08 | F | II | | IGR | opensea | IGR-opense | | rs5339353 | 22;23;30;40 |
| cg1120202 | 0.244708 | 0.576365 | 5.074752 | 0.001116 | 0.009385 | -0.83972 | 0.45401 | 0.698719 | -0.24471 | 4 | 73437692 | F | II | | IGR | shelf | IGR-shelf | chr4:7343 | rs1491444 | 1 |
| cg0779992 | 0.245163 | 0.604752 | 5.067403 | 0.001125 | 0.009436 | -0.84908 | 0.48217 | 0.727334 | -0.24516 | 14 | 1.07E+08 | R | II | | IGR | opensea | IGR-opense | | rs1013380 | 12;5 |
| cg0569696 | 0.224304 | 0.350666 | 5.041879 | 0.00116 | 0.009615 | -0.88166 | 0.238514 | 0.462818 | -0.2243 | 5 | 1.45E+08 | R | II | SH3RF2 | Body | opensea | Body-opens | | rs5548565 | 48;1 |
| cg1626257 | 0.25448 | 0.574705 | 5.03278 | 0.001173 | 0.009683 | -0.8933 | 0.447465 | 0.701945 | -0.25448 | 2 | 1.22E+08 | F | II | NIFK-AS1 | Body | opensea | Body-opens | | rs5389426 | 27;44 |
| cg1167887 | 0.218381 | 0.617806 | 5.030847 | 0.001176 | 0.009698 | -0.89577 | 0.508616 | 0.726997 | -0.21838 | 12 | 26340149 | F | II | | IGR | opensea | IGR-opense | | rs5736756 | 0;14;19;20 |
| cg1618249 | 0.20218 | 0.511743 | 5.028898 | 0.001178 | 0.009712 | -0.89826 | 0.410653 | 0.612832 | -0.20218 | 1 | 40829600 | F | II | | IGR | opensea | IGR-opense | | rs7686989 | 8 |
| cg1640671 | 0.211244 | 0.618217 | 5.028521 | 0.001179 | 0.009714 | -0.89875 | 0.512595 | 0.723839 | -0.21124 | 16 | 84348548 | R | II | WFDC1 | Body | shore | Body-shore | chr16:843 | rs5676644 | 45;35;2 |
| cg0104563 | 0.208919 | 0.594758 | 5.026862 | 0.001181 | 0.009726 | -0.90087 | 0.490298 | 0.699218 | -0.20892 | 1 | 1.58E+08 | F | II | FCRL3 | 5'UTR | opensea | 5'UTR-open | | rs1466168 | 46 |
| cg0779591 | 0.216884 | 0.669936 | 5.0267 | 0.001182 | 0.009728 | -0.90108 | 0.561494 | 0.778378 | -0.21688 | 2 | 1.09E+08 | F | II | | IGR | opensea | IGR-opense | | rs11595519 | 9;24;27;33 |
| cg2185531 | 0.224104 | 0.537952 | 5.023861 | 0.001186 | 0.009747 | -0.90471 | 0.4259 | 0.650004 | -0.2241 | 22 | 36600979 | F | II | APOL4 | TSS200 | opensea | TSS200-ope | | rs5768025 | 6 |
| cg2419535 | 0.21007 | 0.604188 | 5.023542 | 0.001186 | 0.009749 | -0.90512 | 0.499153 | 0.709222 | -0.21007 | 8 | 6418978 | F | II | ANGPT2 | Body | opensea | Body-opens | | rs5411611 | 13 |
| cg0490866 | 0.210645 | 0.718786 | 5.019126 | 0.001192 | 0.009782 | -0.91078 | 0.613464 | 0.824109 | -0.21065 | 6 | 32823941 | R | II | PSMB9 | Body | shore | Body-shore | chr6:3282 | | |
| cg0319703 | 0.211837 | 0.427355 | 5.017484 | 0.001195 | 0.009794 | -0.91288 | 0.321437 | 0.533274 | -0.21184 | 15 | 36708407 | F | II | | IGR | opensea | IGR-opense | | | |
| cg2066237 | 0.230157 | 0.631589 | 5.009139 | 0.001207 | 0.009858 | -0.92359 | 0.516511 | 0.746668 | -0.23016 | 16 | 81750310 | F | II | | IGR | opensea | IGR-opense | | rs5711558 | 0;2;20;44 |
| cg1051403 | 0.233756 | 0.489321 | 5.007529 | 0.001209 | 0.009869 | -0.92565 | 0.372443 | 0.606199 | -0.23376 | 3 | 1.08E+08 | R | II | HHLA2 | 1stExon | opensea | 1stExon-op | | rs7440963 | 23;6 |
| cg1602067 | 0.222863 | 0.51115 | 4.998469 | 0.001222 | 0.009931 | -0.93729 | 0.399719 | 0.622582 | -0.22286 | 19 | 18586017 | F | II | ELL | Body | opensea | Body-opens | | rs5441485 | 0 |
| cg0898578 | 0.201223 | 0.493938 | 4.994398 | 0.001228 | 0.009962 | -0.94252 | 0.393326 | 0.594549 | -0.20122 | 6 | 39196340 | F | I | KCNK5 | Body | shore | Body-shore | chr6:3919 | rs1118568 | 15;28 |

SUPPLEMENTAL TABLE 4

| CpGs characteristics | Women | | | | | Men | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hypomethylated CpGs sites | | Hypermethylated CpGs sites | | P | Hypomethylated CpGs sites | | Hypermethylated CpGs sites | | P |
| | N | % | N | % | | N | % | N | % | |
| **Methylation status** | 1895 | 75.92 | 601 | 24.08 | | 240 | 57.28 | 179 | 42.72 | |
| **Genomic Distribution** |  | | | | | | | | | |
| TSS1500 | 136 | 7.18 | 59 | 9.82 | **0.044** | 14 | 5.83 | 24 | 13.41 | **0.0095** |
| TSS200 | 33 | 1.74 | 53 | 8.82 | **<0.0001** | 23 | 9.58 | 5 | 2.79 | **0.0055** |
| 5'UTR | 132 | 6.97 | 58 | 9.65 | **0.0341** | 19 | 7.92 | 6 | 3.35 | **0.06** |
| 1st exon | 7 | 0.37 | 25 | 4.16 | **<0.0001** | 6 | 2.50 | 5 | 2.79 | >0.99 |
| Body | 774 | 40.84 | 211 | 35.11 | **0.0128** | 75 | 31.25 | 74 | 41.34 | **0.039** |
| 3'UTR | 21 | 1.11 | 6 | 1.00 | >0.99 | 5 | 2.08 | 3 | 1.68 | >0.99 |
| ExonBnd | 13 | 0.69 | 2 | 0.33 | 0.5442 | 0 | 0.00 | 0 | 0.00 | >0.99 |
| IGR | 779 | 41.11 | 187 | 31.11 | **<0.0001** | 98 | 40.83 | 62 | 34.64 | 0.2228 |
| **Neighborhood context** | | | | | | | | | | |
| Island | 34 | 1.79 | 177 | 29.45 | **<0.0001** | 38 | 15.83 | 53 | 29.61 | **<0.0001** |
| Shelf | 106 | 5.59 | 27 | 4.49 | 0.3481 | 17 | 7.08 | 17 | 9.50 | **0.0009** |
| Shore | 164 | 8.65 | 100 | 16.64 | **<0.0001** | 41 | 17.08 | 36 | 20.11 | **<0.0001** |
| Opensea | 1591 | 83.96 | 297 | 49.42 | **<0.0001** | 144 | 60.00 | 73 | 40.78 | **0.0009** |

| source | term_name | term_id | adjusted_p_value | negative_log10_of_adjusted_p_value | term_size | query_size | intersection_size | effective_domain_size | intersections |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 3,CTSB,LYN,MTUS1,SCIN,COL5A1,FARP2,GHITM,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,NMS,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,LRRC47,RFPL2,FMO1,CD86,MUC4,BACH1,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,RANBP6,PPIF,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,TG,L3MBTL4,DUS2,ITGB6,NRCAM,COLEC11,AKAP13,MIA3,PBRM1,CTSC,IL32,UBAC2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,TCEA2,MARCH10,MEGF6,EXOC4,LRCH3,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,EML6,AKAP12,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PARD6G,ABLIM3,PDIA6,FBXW8,BRDT,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,STK39,MGAT2,AIM2,EDDM3B,CCNL1,CTNNA3,MYO1B,AGTR1,USP36,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,BCAR3,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,IRF2,PITX2,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,DOCK10,ZEB2,FAM13C,LRP1,OSBPL6,OSBPL1A,PARVA,CDYL,TRIM2,NFATC2,HMG20A,MYH14,ADAP1,CALD1,C1ORF105,TTC28,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,CRTAC1,SPAG9,ABCG4,PPTC7,BICC1,RHEB,KLHL32,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,CRP,FMN1,AP1S3,MTHFD1L,CDH23,DNAJB6,VMP1,NFIL3,USP53,LGR5,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,APBB2,MTMR7,KCTD3,ANKRD46,PPP3CA,AHSP,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,TCF12,CADM1,WDR25,MYO7B,WWC2,THEMIS,IGF2BP2,TNFRSF19,PDE4B,EML1,TBCA,VSNL1,WEE1,EGFR,CD46,MAST4,BMP7,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,EMID1,RMDN3,MYO1E,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,C4BPB,NAALADL2,NLRP13,ARMC4,SLC8A1,TRAPPC3L,LPP,TAF1B,CD163,RPF2,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,PIP5K1B,FAM81B,UBE2D2,MACF1,PLXNC1,KYNU,ADAMTS12,EDN3,RASGRP3,SCAMP1,PRKCB,SLC14A2,CASQ2,IKZF5,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,VPS45,SBF2,SMO,ZBTB20,SFI1,KRT20,BRIP1,EYA3,NAF1,SPIDR,PSD3,ERN1,CDK14,USP6NL,SRPK2,CAMK1G,CNTNAP2,SCGB2A2,FBXO25,ZC3H14,DLGAP2,TGIF1,PYHIN1,RORA,NAIP,AFAP1L1,ASTN2,FGD5,CCNJL,TAOK3,UHRF2,SOX5,SECISBP2L, |
| GO:MF | protein binding | GO:0005515 | 1.39E-07 | 6.856271 | 12715 | 991 | 781 | 18098 | |
| GO:MF | cytoskeletal protein binding | GO:0008092 | 1.03E-05 | 4.988527 | 984 | 991 | 96 | 18098 | MTSS1,LYN,MTUS1,SCIN,FARP2,NCK2,MYO7A,CDC42EP3,NRCAM,CCDC88A,NCALD,EML6,ABLIM3,CTNNA3,MYO1B,CAP2,FYN,PTPRC,CRK,RPH3AL,PARVA,MYH14,CALD1,ARHGEF10,SPAG9,FMN1,CDH23,EPS8,MAST2,LMO7,MYO7B,PDE4B,EML1,TBCA,EGFR,LIMA1,TUBGCP3,CLMN,MYLK,MYO1E,WASL,KIF16B,HDGFRP3,MICAL3,PPP2R2A,DST,SLC8A1,MACF1,BICD1,FBXO25,SGIP1,DIAPH3,CCR5,GAS7,TNNI3K,KIF13B,SHROOM3,DNM3,RAB3C,DAAM1,MAP6,TAGLN3,SHTN1,FARP1,MYO18B,SYNE2,ANK3,ACTR3,LIMCH1,FHDC1,HIP1,MYH8,TLN2,SYNE1,CACNA1C,PROM1,KIF12,CORO2B,PALLD,JAKMIP1,CDH13,MYO9B,ACTN1,TPM1,EPB41L3,GNB1,CNTRL,MYO10,STARD9,KCNA2,MYO1D,PEX14,PARVB,LASP1,LSP1,FEZ1 |
| GO:MF | actin binding | GO:0003779 | 9.83E-05 | 4.007569 | 432 | 991 | 51 | 18098 | MTSS1,SCIN,MYO7A,CCDC88A,NCALD,ABLIM3,CTNNA3,MYO1B,CAP2,PARVA,MYH14,CALD1,FMN1,EPS8,MYO7B,EGFR,LIMA1,CLMN,MYLK,MYO1E,WASL,MICAL3,DST,MACF1,FBXO25,DIAPH3,CCR5,SHROOM3,DAAM1,TAGLN3,SHTN1,MYO18B,SYNE2,ACTR3,LIMCH1,FHDC1,HIP1,MYH8,TLN2,SYNE1,CORO2B,PALLD,MYO9B,ACTN1,TPM1,EPB41L3,MYO10,MYO1D,PARVB,LASP1,LSP1 |
| GO:MF | enzyme binding | GO:0019899 | 0.000104 | 3.982955 | 2228 | 991 | 176 | 18098 | CDC42BPB,LYN,FARP2,RAPGEF5,GLDC,ATF7,CDC42EP3,ATP1B3,AKAP13,CTSC,FCRL6,CASS4,CCDC88A,EXOC4,TRAF1,AKAP12,RASGRP4,PARD3,CADPS,SOCS5,PARD6G,ARHGEF38,STK39,RAD23A,PKN2,FAF1,CUL3,MBP,CAP2,BCAR3,DENND1A,NOS1AP,FYN,IL31RA,PGAM1,DOCK4,PTPRC,CFLAR,CRK,PPP1CC,RPH3AL,DOCK10,LRP1,NFATC2,TTC28,IL1R1,ARHGEF10,SPAG9,RHEB,SMYD3,RAPGEF1,WDR70,EPS8,MAST2,PPP3CA,NR3C1,SH3RF2,NPLOC4,WWC2,EGFR,AKAP6,PDE4DIP,RAPGEF6,DLG2,KALRN,PITPNM3,KIF16B,MICAL3,PPP2R2A,TRAPPC3L,ANKLE2,MAGI2,PRKCH,UBE2D2,RASGRP3,PRKCB,SH3GL2,XRCC5,BICD1,SBF2,SFI1,PSD3,ERN1,USP6NL,CNTNAP2,PYHIN1,FGD5,CCNJL,DIAPH3,RNF19B,CEP192,GHR,RYR2,N4BP2L2,TNKS2,LIMS1,LDLR,KIF13B,WWOX,ANGPT2,PTGS2,NRP1,NGEF,MCF2L2,DNM3,RNF217,RALGPS2,EXOC2,HSPD1,RABGGTB,BCL2,JAK1,UHRF1BP1,DAAM1,ARHGEF28,FARP1,SH3RF1,ATP2A2,SERPINB13,CBLB,GMNN,LDB2,GRM5,PPP3CB,THRB,BCL11A,EIF2AK3,SYK,RAB3GAP2,RHOJ,TRPC4AP,SYNE1,YWHAE,MTA3,DOCK1,SPRED2,CUL2,SLC22A18,PRKCZ,TMEM127,DGKI,BCL2L14,PDE8A,DCUN1D4,JAKMIP1,IRS2,CDK13,HDAC4,MYO9B,NFATC1,TAB1,SYTL3,HERC1,TBC1D5,SAE1,DUSP22,RAB34,GNB1,CHL1,MOB1B,SGSM3,PTPRJ,USP22,TGFBR2,ETS1,RPTOR,MMS19,CAST,CASP10,ABCA1,AP2A2,PRKCA,ABR,FEZ1,RGL1,IQSEC1 |
| GO:MF | actin filament binding | GO:0051015 | 0.001292 | 2.888607 | 194 | 991 | 28 | 18098 | SCIN,MYO7A,ABLIM3,CTNNA3,MYO1B,MYH14,MYO7B,EGFR,LIMA1,CLMN,MYO1E,WASL,MACF1,SHROOM3,TAGLN3,SHTN1,SYNE2,ACTR3,HIP1,MYH8,TLN2,SYNE1,CORO2B,ACTN1,TPM1,MYO10,MYO1D,LASP1 |
| GO:MF | guanyl-nucleotide exchange factor activity | GO:0005085 | 0.00227 | 2.643884 | 222 | 991 | 30 | 18098 | FARP2,RAPGEF5,AKAP13,RASGRP4,ARHGEF38,BCAR3,DENND1A,DOCK4,DOCK10,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,TRAPPC3L,RASGRP3,SBF2,PSD3,FGD5,NGEF,MCF2L2,RALGPS2,ARHGEF28,FARP1,RAB3GAP2,DOCK1,HERC1,ABR,RGL1,IQSEC1 |
| GO:MF | Ras guanyl-nucleotide exchange factor activity | GO:0005088 | 0.003365 | 2.472996 | 139 | 991 | 22 | 18098 | FARP2,RAPGEF5,AKAP13,RASGRP4,ARHGEF38,DENND1A,ARHGEF10,RAPGEF1,EPS8,KALRN,TRAPPC3L,RASGRP3,SBF2,FGD5,NGEF,MCF2L2,ARHGEF28,FARP1,RAB3GAP2,DOCK1,ABR,RGL1 |
| GO:MF | microfilament motor activity | GO:0000146 | 0.006437 | 2.191297 | 22 | 991 | 8 | 18098 | MYO7A,MYO1B,MYH14,MYO1E,MYH8,MYO9B,MYO10,MYO1D |
| GO:MF | Ras GTPase binding | GO:0017016 | 0.012861 | 1.89071 | 431 | 991 | 45 | 18098 | CDC42BPB,FARP2,RAPGEF5,CDC42EP3,AKAP13,EXOC4,RASGRP4,PARD6G,ARHGEF38,PKN2,DENND1A,DOCK4,RPH3AL,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,KIF16B,MICAL3,TRAPPC3L,RASGRP3,BICD1,SBF2,USP6NL,FGD5,DIAPH3,NGEF,MCF2L2,EXOC2,RABGGTB,DAAM1,ARHGEF28,FARP1,RAB3GAP2,DOCK1,TMEM127,DGKI,MYO9B,SYTL3,TBC1D5,RAB34,SGSM3,ABR,RGL1 |
| GO:MF | small GTPase binding | GO:0031267 | 0.014253 | 1.846097 | 446 | 991 | 46 | 18098 | CDC42BPB,FARP2,RAPGEF5,CDC42EP3,AKAP13,EXOC4,RASGRP4,PARD6G,ARHGEF38,PKN2,DENND1A,DOCK4,RPH3AL,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,KIF16B,MICAL3,TRAPPC3L,RASGRP3,BICD1,SBF2,USP6NL,FGD5,DIAPH3,NGEF,MCF2L2,EXOC2,RABGGTB,DAAM1,ARHGEF28,FARP1,RAB3GAP2,DOCK1,TMEM127,DGKI,MYO9B,SYTL3,TBC1D5,RAB34,SGSM3,ABCA1,ABR,RGL1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:MF | GTPase binding | GO:0051020 | 0.022256 | 1.652543 | 549 | 991 | 53 | 18098 | CDC42BPB,FARP2,RAPGEF5,CDC42EP3,AKAP13,EXOC4,RASGRP4,PARD6G,ARHGEF38,PKN2,BCAR3,DENND1A,DOCK4,RPH3AL,DOCK10,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,KIF16B,MICAL3,TRAPPC3L,RASGRP3,BICD1,SBF2,PSD3,USP6NL,FGD5,DIAPH3,NGEF,MCF2L2,RALGPS2,EXOC2,RABGGTB,DAAM1,ARHGEF28,FARP1,RAB3GAP2,DOCK1,TMEM127,DGKI,MYO9B,SYTL3,HERC1,TBC1D5,RAB34,GNB1,SGSM3,ABCA1,ABR,RGL1,IQSEC1 |
| GO:BP | developmental process | GO:0032502 | 8.16E-09 | 8.088434 | 6449 | 964 | 450 | 17847 | ,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CASS4,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,RUNX1T1,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,CAP2,BCAR3,GPC6,DDAH1,RBM20,CFAP43,FYN,IL31RA,COL12A1,NAMPT,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,FRMD6,SMYD3,TNP1,KL,ATXN1,GRIN2B,CRP,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,KDM5A,EPS8,SETDB2,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,KMO,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MEST,MYLK,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,KYNU,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,BICD1,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,ASTN2,FGD5,EVC,UHRF2,SOX5,UNC13C,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,ARHGEF28,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,LDB2,NSRP1,GRM5,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,KRTAP4-1,RBM47,NSMCE2,DOCK1,PROM1,MACROD2,LGALS8,RAMP1,TACSTD2,SPRED2,PKNOX1,INPP5B,DDX10,MAD1L1,PRKCZ,CRIP2,DNMT3A,HTR2A,DIP2A,GABRA5,TTC9,LEFTY2,PRDM16,RUNX3,TMEM204,ATP11A,BANP,AKIP1,CMTM7,GABRA2,MDGA2,PRMT2,ZNF516,MEIS1,SMYD1,TLE3,CBLN2,HOXB4,FOXA2,PALLD,IMMT,ITPR1,IRS2,CDK13,TRABD2A,HCN1,S100A13,CDH13,CMIP,HDAC4,CTTNBP2,IDE,NFATC1,TAB1,UST, |
| GO:BP | anatomical structure morphogenesis | GO:0009653 | 8.73E-09 | 8.058926 | 2764 | 964 | 229 | 17847 | MTSS1,ZNRF3,COL5A1,SEMA6D,PAX5,MYO7A,CDC42EP3,MKKS,STK3,FBLN1,PSMB9,NRXN3,EMCN,NRCAM,AKAP13,MIA3,CASS4,DLC1,EXOC4,LAMA3,GPNMB,LRIG1,CHST11,ASPH,CPNE6,PARD3,FBXW8,NKD1,AGTR1,MIR21,MMRN2,INSR,CUL3,MBP,CAP2,BCAR3,GPC6,DDAH1,FYN,COL12A1,MMP15,PTPRD,CFLAR,CRK,PITX2,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,MYH14,EPHA5,FRMD6,FMN1,MTHFD1L,CDH23,DNAJB6,LGR5,AFF3,FGF1,EPS8,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,IGF2BP2,WEE1,EGFR,BMP7,FHL2,ADAMTS16,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,ROR1,HECW1,MAGI2,MACF1,PLXNC1,ADAMTS12,PRKCB,CASQ2,SH3GL2,BICD1,ATOH8,SMO,EYA3,SRPK2,CNTNAP2,RORA,ASTN2,FGD5,HOXA3,RARB,MIR196A1,MKLN1,GHR,GAS7,FBN1,RYR2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,JAK1,DAAM1,MAP6,COL18A1,TBX1,SHTN1,NFIB,SH3D19,FARP1,CNOT2,ADA,MYO18B,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,EIF2AK3,PTPRS,SYK,RHOJ,PSMF1,LAMA1,ZNF365,RBFOX2,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,DOCK1,PROM1,LGALS8,RAMP1,TACSTD2,PKNOX1,PRKCZ,AKIP1,MEIS1,TLE3,HOXB4,FOXA2,PALLD,IMMT,IRS2,HCN1,S100A13,CDH13,NFATC1,TAB1,UST,BTBD3,FOXP1,FANCC,IFT140,HERC1,ACTN1,TPM1,MAP2K1,EPB41L3,FAT1,MYO10,HOXD13,CHL1,CDSN,KCNA2,HHEX,TGFBR2,ETS1,ROBO2,WNK4,NRXN1,IRX1,MEGF9,PARVB,RERE,AP2A2,SSBP3,BASP1,PRKCA,ABR,FEZ1,LIPA,SIPA1L3 |
| GO:BP | anatomical structure development | GO:0048856 | 2.12E-08 | 7.672969 | 6028 | 964 | 424 | 17847 | 2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CASS4,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,CAP2,BCAR3,GPC6,DDAH1,RBM20,CFAP43,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,FRMD6,SMYD3,TNP1,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,FGF1,KDM5A,EPS8,SETDB2,SLIT3,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,THEMIS,PALMD,IGF2BP2,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MEST,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,BICD1,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,ASTN2,FGD5,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2,LGALS8,RAMP1,TACSTD2,SPRED2,PKNOX1,INPP5B,DDX10,MAD1L1,PRKCZ,CRIP2,DNMT3A,DIP2A,GABRA5,TTC9,LEFTY2,PRDM16,RUNX3,TMEM204,ATP11A,BANP,AKIP1,CMTM7,GABRA2,MDGA2,PRMT2,ZNF516,MEIS1,SMYD1,TLE3,CBLN2,HOXB4,FOXA2,PALLD,IMMT,ITPR1,IRS2,CDK13,TRABD2A,HCN1,S100A13,CDH13,CMIP,HDAC4,CTTNBP2,IDE,NFATC1,TAB1,UST,BTBD3,KCNK2,FOXP1,FANCC,IFT140,OSGIN1,HERC1,NCAM2,ACTN1,SATB1,LRRN3,TPM1,SLC25A25,MAP2K1,CDH22,EPB |
| GO:BP | cell morphogenesis | GO:0000902 | 2.62E-08 | 7.582265 | 1050 | 964 | 110 | 17847 | SEMA6D,MYO7A,CDC42EP3,STK3,FBLN1,NRXN3,NRCAM,CASS4,DLC1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CAP2,FYN,COL12A1,PTPRD,CRK,DOCK10,ZEB2,LRP1,PARVA,MYH14,EPHA5,FRMD6,CDH23,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,FGD5,MKLN1,GAS7,DOK5,LIMS1,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,SH3D19,FARP1,ANK3,PDZD8,LGR6,PPP3CB,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,DOCK1,TACSTD2,PRKCZ,AKIP1,PALLD,IRS2,S100A13,CDH13,UST,BTBD3,ACTN1,TPM1,MAP2K1,EPB41L3,FAT1,MYO10,CHL1,ROBO2,NRXN1,MEGF9,PARVB,RERE,PRKCA,FEZ1,LIPA,SIPA1L3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cellular component morphogenesis | GO:0032989 | 1.07E-07 | 6.972613 | 1156 | 964 | 116 | 17847 | SEMA6D,MYO7A,CDC42EP3,STK3,FBLN1,NRXN3,NRCAM,AKAP13,CASS4,DLC1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CAP2,FYN,COL12A1,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,PARVA,MYH14,EPHA5,FRMD6,CDH23,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,ZPBP2,HECW1,MACF1,PLXNC1,CASQ2,SH3GL2,SMO,CNTNAP2,FGD5,MKLN1,GAS7,DOK5,LIMS1,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,SH3D19,FARP1,ANK3,PDZD8,LGR6,PPP3CB,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,DOCK1,TACSTD2,PRKCZ,AKIP1,PALLD,IMMT,IRS2,S100A13,CDH13,UST,BTBD3,ACTN1,TPM1,MAP2K1,EPB41L3,FAT1,MYO10,CHL1,ROBO2,NRXN1,MEGF9,PARVB,RERE,PRKCA,FEZ1,LIPA,SIPA1L3 |
| GO:BP | multicellular organism development | GO:0007275 | 4.04E-07 | 6.393102 | 5532 | 964 | 389 | 17847 | 2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,DDAH1,RBM20,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,TNP1,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,FGF1,KDM5A,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,THEMIS,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,SH3GL2,XRCC5,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,DOK5,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2,LGALS8,RAMP1,TACSTD2,SPRED2,PKNOX1,INPP5B,MAD1L1,PRKCZ,CRIP2,DNMT3A,DIP2A,GABRA5,TTC9,LEFTY2,PRDM16,RUNX3,TMEM204,ATP11A,BANP,CMTM7,GABRA2,MDGA2,ZNF516,MEIS1,SMYD1,TLE3,CBLN2,HOXB4,FOXA2,PALLD,ITPR1,IRS2,CDK13,HCN1,CDH13,CMIP,HDAC4,CTTNBP2,IDE,NFATC1,TAB1,UST,BTBD3,KCNK2,FOXP1,FANCC,IFT140,OSGIN1,HERC1,NCAM2,ACTN1,SATB1,LRRN3,TPM1,SLC25A25,MAP2K1,CDH22,EPB41L3,KAZN,FAT1,C15ORF41,GNB1,HOXD13,CHL1,WDR7,CDSN,MYCBPAP,KCNA2,HHEX,PTPRJ,USP22,ZNF609,MYO1D,TGFBR2,ETS1,ROBO2,WNK4,DNAH5,NRXN1,IRX1,MEGF9,FOXK1,GRIK1,RERE,ANKRD17,AP2A2,SSBP3,BASP1,CD79B,PRKCA,ABR,FEZ1,LIPA,SIP |
| GO:BP | cell adhesion | GO:0007155 | 1.56E-06 | 5.805697 | 1421 | 964 | 131 | 17847 | NINJ2,MTSS1,IRF1,LYN,DCHS2,COL5A1,FARP2,NEGR1,TENM2,NCK2,CD86,MUC4,LAMA4,FBLN1,PRKG1,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,MIA3,IL32,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,PARD3,SOCS5,ADAMTS18,CTNNA3,MIR21,PKN2,FAF1,MBP,IBSP,GPC6,APBB1IP,FYN,COL12A1,FAM49B,PTPRD,PTPRC,CRK,ADTRP,LRP1,PARVA,HMCN1,ITGAL,FMN1,CDH23,DNAJB6,VMP1,RAPGEF1,CDK6,PPP3CA,DAB1,LMO7,CADM1,EGFR,CD46,BMP7,DLG2,EFNA5,DST,FAT3,LPP,MACF1,PLXNC1,ADAMTS12,CNTNAP2,PKD1L1,GLDN,MKLN1,IL23R,FBN1,LIMS1,CLDN10,ANGPT2,KIRREL3,NRP1,MEGF11,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,COL18A1,PARD3B,ADAM23,ATP2A2,ADA,ANK3,LIMCH1,KANK1,NPHP1,PTPRS,SYK,TLN2,LAMA1,PGM5,DOCK1,TACSTD2,MAD1L1,PRKCZ,RUNX3,CORO2B,AKIP1,FOXA2,PALLD,CDH13,MPDZ,NCAM2,ACTN1,DUSP22,TPM1,CDH22,FAT1,MYO10,CHL1,PTPRJ,TGFBR2,ETS1,ROBO2,NRXN1,MEGF9,CD200R1,PARVB,PRKCA,FEZ1 |
| GO:BP | cell development | GO:0048468 | 1.61E-06 | 5.793233 | 2196 | 964 | 183 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,MKKS,STK3,FBLN1,PI16,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,CHST11,PYGO1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CFAP43,FYN,COL12A1,PTPRD,PTPRC,CFLAR,CRK,PITX2,PPP1CC,DOCK10,ZEB2,LRP1,PARVA,CDYL,NFATC2,HMG20A,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,FRMD6,SMYD3,TNP1,CDH23,LGR5,RAPGEF1,CDK6,SLIT3,ICA1L,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,WEE1,EGFR,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,CASQ2,SH3GL2,XRCC5,SMO,BRIP1,CNTNAP2,RARB,OGDH,GLDN,GAS7,BMP3,FBN1,DOK5,LIMS1,LDLR,KIF13B,ANGPT2,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,NFIB,FARP1,ATP2A2,MYO18B,ANK3,LGR6,PPP3CB,KANK1,SULF2,THRB,BCL11A,EIF2AK3,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,DOCK1,TACSTD2,PRKCZ,GABRA5,LEFTY2,RUNX3,AKIP1,PRMT2,MEIS1,PALLD,IRS2,HCN1,HDAC4,UST,BTBD3,FOXP1,FANCC,IFT140,HERC1,NCAM2,ACTN1,TPM1,MAP2K1,EPB41L3,FAT1,CHL1,ZNF609,TGFBR2,ROBO2,NRXN1,MEGF9,PARVB,RERE,PRKCA,FEZ1,SIPA1L3 |
| GO:BP | biological adhesion | GO:0022610 | 2.15E-06 | 5.668089 | 1428 | 964 | 131 | 17847 | NINJ2,MTSS1,IRF1,LYN,DCHS2,COL5A1,FARP2,NEGR1,TENM2,NCK2,CD86,MUC4,LAMA4,FBLN1,PRKG1,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,MIA3,IL32,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,PARD3,SOCS5,ADAMTS18,CTNNA3,MIR21,PKN2,FAF1,MBP,IBSP,GPC6,APBB1IP,FYN,COL12A1,FAM49B,PTPRD,PTPRC,CRK,ADTRP,LRP1,PARVA,HMCN1,ITGAL,FMN1,CDH23,DNAJB6,VMP1,RAPGEF1,CDK6,PPP3CA,DAB1,LMO7,CADM1,EGFR,CD46,BMP7,DLG2,EFNA5,DST,FAT3,LPP,MACF1,PLXNC1,ADAMTS12,CNTNAP2,PKD1L1,GLDN,MKLN1,IL23R,FBN1,LIMS1,CLDN10,ANGPT2,KIRREL3,NRP1,MEGF11,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,COL18A1,PARD3B,ADAM23,ATP2A2,ADA,ANK3,LIMCH1,KANK1,NPHP1,PTPRS,SYK,TLN2,LAMA1,PGM5,DOCK1,TACSTD2,MAD1L1,PRKCZ,RUNX3,CORO2B,AKIP1,FOXA2,PALLD,CDH13,MPDZ,NCAM2,ACTN1,DUSP22,TPM1,CDH22,FAT1,MYO10,CHL1,PTPRJ,TGFBR2,ETS1,ROBO2,NRXN1,MEGF9,CD200R1,PARVB,PRKCA,FEZ1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cellular developmental process | GO:0048869 | 2.24E-06 | 5.649676 | 4470 | 964 | 323 | 17847 | ARID1B,LHX6,MTSS1,IRF1,CTSB,LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,DLC1,LAMA3,ITK,GPNMB,MITF,RUNX1T1,CHST11,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,NKD1,AGTR1,MIR21,CIT,CUL3,IBSP,CAP2,CFAP43,FYN,IL31RA,COL12A1,NAMPT,MMP15,PTPRD,PTPRC,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CES1,FRMD6,SMYD3,TNP1,CRP,CDH23,DNAJB6,LGR5,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,EPS8,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,THEMIS,PALMD,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,FGD5,UHRF2,SOX5,RARB,OGDH,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,N4BP2L2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,NRP1,SHROOM3,NGEF,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,ARHGEF28,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,ANK3,PDZD8,SH2D2A,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,SPATA24,RHOJ,PSMF1,LAMA1,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,KRTAP4-1,RBM47,NSMCE2,DOCK1,PROM1,TACSTD2,PKNOX1,PRKCZ,DNMT3A,HTR2A,GABRA5,LEFTY2,PRDM16,RUNX3,TMEM204,AKIP1,CMTM7,MDGA2,PRMT2,ZNF516,MEIS1,SMYD1,HOXB4,FOXA2,PALLD,IMMT,IRS2,CDK13,HCN1,S100A13,CDH13,HDAC4,NFATC1,UST,BTBD3,FOXP1,FANCC,IFT140,OSGIN1,HERC1,NCAM2,ACTN1,SATB1,TPM1,MAP2K1,EPB41L3,KAZN,FAT1,C15ORF41,MYO10,CHL1,WDR7,MYCBPAP,HHEX,PTPRJ,ZNF609,TGFBR2,ETS1,ROBO2,NRXN1,MEGF9,FOXK1,ABCA1,PARVB,RERE,ANKRD17,SSBP3,BASP1,CD79B,PRKCA,FEZ1,LIPA,SIPA1L3,GSX1 |
| GO:BP | system development | GO:0048731 | 3.87E-06 | 5.412523 | 4967 | 964 | 351 | 17847 | NINJ2,ARID1B,LHX6,MTSS1,IRF1,ZNRF3,CTSB,LYN,DCHS2,SCIN,COL5A1,FARP2,SEMA6D,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,AHR,LAMA4,PI16,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,AKAP13,IDH2,MIA3,CTSC,CCDC88A,DLC1,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,DDAH1,RBM20,FYN,IL31RA,COL12A1,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,LGR5,RAPGEF1,CDK6,FGF1,KDM5A,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,THEMIS,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,SH3GL2,XRCC5,ATOH8,SBF2,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,NAIP,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,DOK5,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,ADAM23,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,RHOJ,PSMF1,LAMA1,TRPC4AP,YWHAE,ZNF365,RBFOX2,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2,LGALS8,RAMP1,TACSTD2,PKNOX1,MAD1L1,PRKCZ,CRIP2,DNMT3A,GABRA5,TTC9,PRDM16,RUNX3,TMEM204,CMTM7,GABRA2,MDGA2,ZNF516,MEIS1,SMYD1,TLE3,CBLN2,HOXB4,FOXA2,PALLD,IRS2,CDK13,HCN1,CDH13,HDAC4,CTTNBP2,NFATC1,TAB1,UST,BTBD3,KCNK2,FOXP1,FANCC,IFT140,HERC1,NCAM2,ACTN1,SATB1,LRRN3,TPM1,SLC25A25,MAP2K1,CDH22,EPB41L3,KAZN,FAT1,C15ORF41,GNB1,HOXD13,CHL1,WDR7,CDSN,KCNA2,HHEX,PTPRJ,ZNF609,MYO1D,TGFBR2,ETS1,ROBO2,WNK4,DNAH5,NRXN1,IRX1,MEGF9,FOXK1,GRIK1,RERE,ANKRD17,AP2A2,SSBP3,BASP1,CD79B,PRKCA,ABR,FEZ1,LIPA,SIPA1L3,GSX1 |
| GO:BP | cell projection organization | GO:0030030 | 4.6E-06 | 5.337046 | 1562 | 964 | 139 | 17847 | ARID1B,MTSS1,LYN,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,CDC42EP3,MKKS,STK3,PRKG1,NRXN3,DNAH9,CNTN1,NRCAM,CCDC88A,CEP83,CPNE6,PARD3,ABLIM3,FBXW8,MIR21,PKN2,INSR,CUL3,CFAP43,FYN,PTPRD,CFLAR,CRK,PIBF1,DOCK10,ZEB2,LRP1,PARVA,EPHA5,CRTAC1,GRIN2B,CDH23,RAPGEF1,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,LIMA1,ADAMTS16,CLMN,RAPGEF6,MYLK,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ARMC4,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,SFI1,CNTNAP2,FGD5,PCNT,MIR196A1,GLDN,CEP192,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,ARMC9,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,SYNE2,ANK3,ACTR3,FHDC1,LGR6,PPP3CB,KANK1,NPHP1,BCL11A,PTPRS,RHOJ,LAMA1,YWHAE,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,TACSTD2,PRKCZ,ABCC4,PALLD,IRS2,CDH13,HDAC4,UST,BTBD3,IFT140,HERC1,NCAM2,TPM1,MAP2K1,RAB34,EPB41L3,CNTRL,MYO10,CHL1,ROBO2,DNAH5,NRXN1,CDC14B,PARVB,RERE,PLD1,PRKCA,FEZ1 |
| GO:BP | nervous system development | GO:0007399 | 5.31E-06 | 5.274737 | 2400 | 964 | 194 | 17847 | NINJ2,ARID1B,LHX6,LYN,FARP2,SEMA6D,RAPGEF5,NEGR1,MYT1,PAX5,TENM2,NCK2,MYO7A,ZNF423,MKKS,STK3,PRKG1,NRXN3,CNTN1,TG,NRCAM,IDH2,CTSC,CCDC88A,DLC1,LRIG1,SYNDIG1,FBXL17,CPNE6,PARD3,FBXW8,NKD1,IMMP2L,CIT,MCPH1,MBP,SLC25A12,GPC6,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,ATXN1,GRIN2B,MTHFD1L,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,ATOH8,SBF2,SMO,CNTNAP2,RORA,NAIP,SOX5,HOXA3,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,TBX1,TAGLN3,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,ADAM23,SYNE2,NRG4,ANK3,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,BCL11A,EIF2AK3,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,PRKCG,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1,MACROD2,PRKCZ,DNMT3A,GABRA5,PRDM16,RUNX3,GABRA2,MDGA2,MEIS1,CBLN2,FOXA2,PALLD,IRS2,HCN1,HDAC4,CTTNBP2,UST,BTBD3,FANCC,IFT140,HERC1,NCAM2,LRRN3,MAP2K1,CDH22,EPB41L3,CHL1,KCNA2,ZNF609,MYO1D,TGFBR2,ETS1,ROBO2,DNAH5,NRXN1,GRIK1,RERE,SSBP3,BASP1,PRKCA,ABR,FEZ1,GSX1 |
| GO:BP | generation of neurons | GO:0048699 | 6.62E-06 | 5.178916 | 1556 | 964 | 138 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,IDH2,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,CIT,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,SRRM4,CRTAC1,SPAG9,RHEB,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,SMO,CNTNAP2,RORA,SOX5,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,IGSF10,SHTN1,NFIB,FARP1,SH3RF1,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1,PRKCZ,DNMT3A,GABRA5,RUNX3,MDGA2,MEIS1,FOXA2,PALLD,IRS2,HCN1,UST,BTBD3,IFT140,HERC1,NCAM2,MAP2K1,EPB41L3,CHL1,ZNF609,ROBO2,NRXN1,RERE,PRKCA,FEZ1,GSX1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | intracellular signal transduction | GO:0035556 | 1.73E-05 | 4.761789 | 2880 | 964 | 222 | 17847 | CDC42BPB,LYN,FARP2,RAPGEF5,NCK2,CD86,CDC42EP3,EFCAB11,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,AKAP13,CCDC88A,NCALD,DLC1,ITK,GPNMB,AKAP12,CCL5,RASGRP4,SOCS5,ARHGEF38,MAP4K3,STK39,AGTR1,MIR21,CIT,PKN2,INSR,CUL3,MBP,BCAR3,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,DOCK4,NPFFR2,FAM13A,PTPRC,TNS3,CFLAR,CRK,LHCGR,ADTRP,DOCK10,ZEB2,LRP1,NFATC2,PIP4K2A,SGMS1,EPHA5,ARHGEF10,SPAG9,RHEB,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,FGF1,EPS8,MAST2,APBB2,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,WWC2,TNFRSF19,PLCH1,ARHGAP25,EGFR,MAST4,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,DLG2,KALRN,S100A12,TGFBR3,SLC8A1,RPF2,ROR1,MAGI2,PRKCH,PIP5K1B,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SMO,BRIP1,PSD3,ERN1,SRPK2,PYHIN1,RORA,PPP1R1C,FGD5,TAOK3,UNC13C,ARHGAP32,TAB2,CCR5,GHR,BMP3,RYR2,PTP4A3,DOK5,LIMS1,WWOX,PTGS2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,SEMA6A,RALGPS2,EDNRB,GNAL,BCL2,JAK1,RAB3C,TBX1,SHTN1,ARHGEF28,GNG2,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,MCTP1,NRG4,PDZD8,GRM5,NR5A2,PPP3CB,KANK1,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTGER3,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,PRKCG,C8ORF44,CHRNA7,ARHGAP19,WNT7A,CACNA1C,PDE11A,DOCK1,RAMP1,SPRED2,INPP5B,CUL2,PRKCZ,HTR2A,LEFTY2,TMEM127,BANP,AKIP1,DGKI,TNIP3,PDE8A,NSMCE1,ITPR1,IRS2,S100A13,CDH13,P2RX3,HDAC4,MYO9B,NFATC1,TAB1,GNAI1,DUSP22,DHX58,MAP2K1,RAB34,GNB1,MOB1B,SGSM3,PTPRJ,RPTOR,ADGRG7,TRAF3IP2,WNK4,MMS19,NRXN1,CD200R1,CASP10,CDC14B,ABCA1,ANKRD17,SCAI,TMEM106A,PLD1,PRKCA,ABR,RGL1,IQSEC1,SIPA1L3 |
| GO:BP | neurogenesis | GO:0022008 | 1.89E-05 | 4.724299 | 1656 | 964 | 143 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,IDH2,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,CIT,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,SMO,CNTNAP2,RORA,SOX5,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,SYNE2,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1,PRKCZ,DNMT3A,GABRA5,PRDM16,RUNX3,MDGA2,MEIS1,FOXA2,PALLD,IRS2,HCN1,UST,BTBD3,IFT140,HERC1,NCAM2,MAP2K1,EPB41L3,CHL1,ZNF609,ROBO2,NRXN1,RERE,PRKCA,FEZ1,GSX1 |
| GO:BP | movement of cell or subcellular component | GO:0006928 | 3.32E-05 | 4.478507 | 2221 | 964 | 179 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MYO7A,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,NRXN3,DNAH9,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,CTNNA3,MYO1B,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,NOS1AP,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,SCN1A,NFATC2,MYH14,IL1R1,EPHA5,SPAG9,FRMD6,ITGAL,TNP1,CDK6,FGF1,EPS8,SLIT3,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,DLG2,EFNA5,MYO1E,S100A12,WASL,TGFBR3,KIF16B,SNAPIN,DST,ARMC4,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,BICD1,ATOH8,SMO,MIR196A1,OGDH,CCR5,RYR2,PTP4A3,DOK5,KIF13B,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,NFIB,SH3RF1,ATP2A2,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,MYH8,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,CACNA1C,DOCK1,LGALS8,TACSTD2,INPP5B,PRKCZ,KIF12,PALLD,IRS2,CDH13,HDAC4,MYO9B,FOXP1,IFT140,OSGIN1,ACTN1,DUSP22,TPM1,MAP2K1,FAT1,CHL1,STARD9,PTPRJ,ZNF609,TGFBR2,ETS1,IL16,ROBO2,DNAH5,NRXN1,MEGF9,PEX14,CD200R1,GP6,RERE,SCAI,PLD1,PRKCA,ABR,FEZ1,IQSEC1 |
| GO:BP | neuron development | GO:0048666 | 3.49E-05 | 4.457656 | 1131 | 964 | 106 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,FYN,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,EPHA5,SRRM4,CRTAC1,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,OGDH,GLDN,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,THRB,BCL11A,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,GABRA5,RUNX3,PALLD,IRS2,HCN1,UST,BTBD3,IFT140,HERC1,NCAM2,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | plasma membrane bounded cell projection organization | GO:0120036 | 3.51E-05 | 4.455106 | 1523 | 964 | 133 | 17847 | ARID1B,MTSS1,LYN,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,CDC42EP3,MKKS,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CEP83,CPNE6,PARD3,ABLIM3,FBXW8,INSR,CFAP43,FYN,PTPRD,CFLAR,CRK,PIBF1,DOCK10,ZEB2,LRP1,PARVA,EPHA5,CRTAC1,GRIN2B,CDH23,RAPGEF1,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,LIMA1,ADAMTS16,CLMN,RAPGEF6,MYLK,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ARMC4,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,SFI1,CNTNAP2,FGD5,PCNT,MIR196A1,GLDN,CEP192,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,ARMC9,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,SYNE2,ANK3,ACTR3,FHDC1,LGR6,PPP3CB,KANK1,NPHP1,BCL11A,PTPRS,LAMA1,YWHAE,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,TACSTD2,PRKCZ,ABCC4,PALLD,IRS2,CDH13,HDAC4,UST,BTBD3,IFT140,HERC1,NCAM2,TPM1,MAP2K1,EPB41L3,CNTRL,MYO10,CHL1,ROBO2,DNAH5,NRXN1,CDC14B,PARVB,RERE,PLD1,PRKCA,FEZ1 |
| GO:BP | neuron differentiation | GO:0030182 | 3.72E-05 | 4.428933 | 1392 | 964 | 124 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,SRRM4,CRTAC1,SPAG9,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,EDN3,SH3GL2,SMO,CNTNAP2,RORA,RARB,OGDH,GLDN,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1,PRKCZ,DNMT3A,GABRA5,RUNX3,MDGA2,MEIS1,FOXA2,PALLD,IRS2,HCN1,UST,BTBD3,IFT140,HERC1,NCAM2,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1,GSX1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cell differentiation | GO:0030154 | 9.17E-05 | 4.037819 | 4279 | 964 | 303 | 17847 | ARID1B,LHX6,MTSS1,IRF1,CTSB,LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,LAMA3,ITK,GPNMB,MITF,RUNX1T1,CHST11,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,NKD1,AGTR1,MIR21,CIT,CUL3,IBSP,CFAP43,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CES1,FRMD6,SMYD3,TNP1,CRP,CDH23,DNAJB6,LGR5,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,THEMIS,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,UHRF2,SOX5,RARB,OGDH,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,N4BP2L2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,NRP1,SHROOM3,NGEF,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,ARHGEF28,NFIB,FARP1,NAV2,SH3RF1,CNOT2,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,ANK3,SH2D2A,NR5A2,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,SPATA24,PSMF1,LAMA1,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,KRTAP4-1,RBM47,DOCK1,PROM1,TACSTD2,PKNOX1,PRKCZ,DNMT3A,HTR2A,GABRA5,LEFTY2,PRDM16,RUNX3,TMEM204,AKIP1,CMTM7,MDGA2,PRMT2,ZNF516,MEIS1,SMYD1,HOXB4,FOXA2,PALLD,IRS2,CDK13,HCN1,HDAC4,NFATC1,UST,BTBD3,FOXP1,FANCC,IFT140,OSGIN1,HERC1,NCAM2,ACTN1,SATB1,TPM1,MAP2K1,EPB41L3,KAZN,FAT1,C15ORF41,CHL1,WDR7,MYCBPAP,HHEX,PTPRJ,ZNF609,TGFBR2,ETS1,ROBO2,NRXN1,MEGF9,FOXK1,ABCA1,PARVB,RERE,ANKRD17,SSBP3,BASP1,CD79B,PRKCA,FEZ1,SIPA1L3,GSX1 |
| GO:BP | multicellular organismal process | GO:0032501 | 0.000107 | 3.970221 | 7775 | 964 | 501 | 17847 | 06,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,MYO7A,SCNN1D,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TG,ITGB6,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,KCNMB2,CCDC88A,NCALD,DLC1,SCUBE2,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,AKAP12,CELF2,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,ADAMTS18,OR2F1,NKD1,STK39,IMMP2L,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,MCPH1,PKN2,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,SMR3A,IL31RA,COL12A1,NAMPT,FAM49B,DOCK4,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,ADTRP,PIEZO2,DOCK10,ZEB2,LRP1,PARVA,CDYL,SCN1A,CSMD1,NFATC2,HMG20A,MYH14,PIP4K2A,CALD1,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,HMCN1,TNP1,KL,ATXN1,GRIN2B,CRP,FMN1,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,USP53,LGR5,AFF3,RAPGEF1,IL5RA,KIAA1109,CDK6,ALDH7A1,FGF1,KDM5A,EPS8,SETDB2,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,NPLOC4,DAB1,CACNB4,TCF12,CADM1,WWC2,THEMIS,IGF2BP2,TNFRSF19,PDE4B,EML1,TOX,WEE1,PDC,EGFR,CD46,BMP7,ZNF488,LIMA1,FHL2,AKAP6,ADAMTS16,CLMN,FCN1,MYLK,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,C4BPB,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,VPS45,SBF2,SMO,ZBTB20,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,PYHIN1,RORA,NAIP,EVC,SOX5,SGIP1,HOXA3,OR51B5,ATAD1,TAB2,RARB,NCOA2,MIR196A1,OGDH,PKD1L1,GLDN,IL23R,HIVEP3,GHR,OR6C70,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,PTP4A3,DOK5,KLK5,SH3PXD2B,TNNI3K,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,RUNX1,JMJD1C,HSPD1,EDNRB,RABGGTB,BCL2,WDFY3,JAK1,ABCC9,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,GNG2,OR52E8,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,OR13G1,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,PTGER3,NFAM1,LCE2A,TMC1,MYH8,SYK,TRERF1,SPATA24,SNRPE,RHOJ,PSMF1,LAMA1,TRPC4AP,SYNE1,OR10G4,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2,LGALS8,RAMP1,TACSTD2,SPRED2,PKNOX1,INPP5B,SLC22A18,MAD1 |
| GO:BP | regulation of cell morphogenesis | GO:0022604 | 0.000118 | 3.928743 | 493 | 964 | 57 | 17847 | SEMA6D,CDC42EP3,FBLN1,NRCAM,CASS4,DLC1,CPNE6,FBXW8,MIR21,FYN,PTPRD,CRK,ZEB2,LRP1,PARVA,MYH14,EPS8,PPP3CA,DAB1,PALMD,KALRN,EFNA5,HECW1,MACF1,PLXNC1,FGD5,MKLN1,LIMS1,KIF13B,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,MAP6,SHTN1,SH3D19,PDZD8,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,WNT7A,SDC2,DOCK1,TACSTD2,S100A13,UST,TPM1,MAP2K1,EPB41L3,MYO10,ROBO2,PARVB |
| GO:BP | cell morphogenesis involved in differentiation | GO:0000904 | 0.000152 | 3.817279 | 758 | 964 | 77 | 17847 | SEMA6D,MYO7A,FBLN1,NRXN3,NRCAM,CASS4,PARD3,FBXW8,CUL3,FYN,COL12A1,PTPRD,CRK,DOCK10,ZEB2,LRP1,PARVA,EPHA5,FRMD6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SMO,DOK5,LIMS1,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,SDC2,DOCK1,TACSTD2,AKIP1,PALLD,IRS2,UST,BTBD3,ACTN1,MAP2K1,FAT1,CHL1,ROBO2,NRXN1,MEGF9,PARVB,RERE,PRKCA,FEZ1,SIPA1L3 |
| GO:BP | cell part morphogenesis | GO:0032990 | 0.000159 | 3.799777 | 705 | 964 | 73 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,MYH14,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,PALLD,IMMT,IRS2,UST,BTBD3,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | neuron projection morphogenesis | GO:0048812 | 0.000177 | 3.751955 | 667 | 964 | 70 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,PALLD,IRS2,UST,BTBD3,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | plasma membrane bounded cell projection morphogenesis | GO:0120039 | 0.000185 | 3.733479 | 681 | 964 | 71 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,PALLD,IRS2,UST,BTBD3,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cell motility | GO:0048870 | 0.000216 | 3.664632 | 1752 | 964 | 145 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1,LGALS8,TACSTD2,INPP5B,PRKCZ,PALLD,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,DUSP22,TPM1,MAP2K1,FAT1,CHL1,PTPRJ,ZNF609,TGFBR2,ETS1,IL16,DNAH5,MEGF9,CD200R1,GP6,RERE,SCAI,PLD1,PRKCA,ABR,IQSEC1 |
| GO:BP | localization of cell | GO:0051674 | 0.000216 | 3.664632 | 1752 | 964 | 145 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1,LGALS8,TACSTD2,INPP5B,PRKCZ,PALLD,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,DUSP22,TPM1,MAP2K1,FAT1,CHL1,PTPRJ,ZNF609,TGFBR2,ETS1,IL16,DNAH5,MEGF9,CD200R1,GP6,RERE,SCAI,PLD1,PRKCA,ABR,IQSEC1 |
| GO:BP | cell projection morphogenesis | GO:0048858 | 0.000233 | 3.633308 | 685 | 964 | 71 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,PALLD,IRS2,UST,BTBD3,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | regulation of anatomical structure morphogenesis | GO:0022603 | 0.000374 | 3.427374 | 1170 | 964 | 105 | 17847 | ZNRF3,COL5A1,SEMA6D,CDC42EP3,FBLN1,PSMB9,NRCAM,AKAP13,CASS4,DLC1,GPNMB,CPNE6,FBXW8,NKD1,AGTR1,MIR21,MMRN2,MBP,GPC6,DDAH1,FYN,PTPRD,CFLAR,CRK,ZEB2,LRP1,PARVA,NFATC2,MYH14,FGF1,EPS8,PPP3CA,DAB1,PALMD,BMP7,KALRN,EFNA5,ROR1,HECW1,MAGI2,MACF1,PLXNC1,ADAMTS12,PRKCB,SMO,FGD5,MIR196A1,MKLN1,LIMS1,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,JAK1,DAAM1,MAP6,TBX1,SHTN1,NFIB,SH3D19,ADA,MLLT3,PDZD8,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,PTPRS,RHOJ,PSMF1,TCF4,CHRNA7,WNT7A,SDC2,DOCK1,TACSTD2,FOXA2,S100A13,UST,FOXP1,TPM1,MAP2K1,EPB41L3,MYO10,HOXD13,HHEX,TGFBR2,ETS1,ROBO2,PARVB,AP2A2,BASP1,PRKCA,ABR |
| GO:BP | locomotion | GO:0040011 | 0.0006 | 3.221743 | 1983 | 964 | 158 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,NRXN3,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,EPHA5,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,SLIT3,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,EFNA5,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,DOK5,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,NFIB,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,PPP3CB,KANK1,PLGRKT,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1,LGALS8,TACSTD2,INPP5B,PRKCZ,CMTM7,PALLD,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,DUSP22,TPM1,MAP2K1,FAT1,CHL1,PTPRJ,ZNF609,TGFBR2,ETS1,IL16,ROBO2,DNAH5,NRXN1,MEGF9,VPS37B,CD200R1,GP6,RERE,SCAI,PLD1,PRKCA,ABR,FEZ1,IQSEC1 |
| GO:BP | neuron projection development | GO:0031175 | 0.000943 | 3.025425 | 1004 | 964 | 92 | 17847 | ARID1B,LYN,SEMA6D,NEGR1,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,FYN,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,EPHA5,CRTAC1,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PRKCZ,PALLD,IRS2,UST,BTBD3,HERC1,NCAM2,MAP2K1,EPB41L3,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | localization | GO:0051179 | 0.001073 | 2.969487 | 6824 | 964 | 442 | 17847 | 2,RYR3,MYO7A,ADRBK2,SCNN1D,SLC15A4,MKKS,SEC24D,LAMA4,ABCA13,FBLN1,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,DECR2,TG,TMEM63C,ITGB6,SLC36A1,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,UBAC2,KCNMB2,CASS4,CCDC88A,NCALD,DLC1,EXOC4,LAMA3,SLC12A8,GPNMB,MITF,BTNL2,CHST11,SYNDIG1,PYGO1,ANTXR2,CEP83,AKAP12,SVOP,ASPH,CCL5,CPNE6,PARD3,CADPS,PARD6G,ABLIM3,NKD1,GRIK4,STK39,IMMP2L,AIM2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,MMRN2,MCPH1,PKN2,FAF1,INSR,CUL3,MBP,SLC25A12,GPC6,DENND1A,WDR33,CFAP43,NOS1AP,FYN,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,PTPRC,FRMPD1,TNS3,ATP9B,CRK,PITX2,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,LRP1,OSBPL6,OSBPL1A,PARVA,SCN1A,NFATC2,CACHD1,IL1R1,EPHA5,SPAG9,ABCG4,CES1,FRMD6,ITGAL,SMYD3,TNP1,ATXN1,GRIN2B,CRP,AP1S3,KCNK5,CDH23,DNAJB6,RAPGEF1,KIAA1109,NXF1,CDK6,TAP1,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,NPLOC4,DAB1,CACNB4,CADM1,STEAP4,IGF2BP2,PLCH1,PDE4B,VSNL1,ARHGAP25,EGFR,GRIK3,KMO,BMP7,LIMA1,AKAP6,PKD1L2,CLMN,MEST,RAPGEF6,MICU3,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,MYO1E,S100A12,PEX2,PITPNM3,WASL,TGFBR3,KIF16B,SNAPIN,MICAL3,SNX31,SORCS1,DST,C4BPB,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,UNC80,CD163,RPF2,HECW1,MAGI2,PRKCH,MGAM,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,SCAMP1,PRKCB,SLC14A2,CASQ2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,VPS45,SMO,SFI1,KRT20,NAF1,SPIDR,CEP112,USP6NL,CNTNAP2,PYHIN1,ASTN2,SGIP1,UNC13C,SLC16A10,ATAD1,ITIH4,PCNT,NCOA2,MIR196A1,OGDH,PKD1L1,MKLN1,CCR5,LSG1,CEP192,ANO2,SLC5A9,GHR,FBN1,RYR2,TNKS2,PTP4A3,EXOC6B,LIMS1,CLDN10,SH3PXD2B,LDLR,KIF13B,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,NKAIN2,C2,EXOC2,HSPD1,EDNRB,BCL2,SESTD1,RAB3C,ABCC9,DNAJC15,SLC35A5,MAP6,OSBPL10,COL18A1,HEATR3,TBX1,IGSF10,SHTN1,PARD3B,PTPRN2,SLC9A9,KCNJ13,SH3RF1,LMAN2,ATP2A2,ADA,MCTP1,CBLB,SYNE2,NRG4,ANK3,PDZD8,AHNAK,ACTR3,AFTPH,ARRDC4,LDB2,ABCB11,GRM5,LIMCH1,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,NPHP1,HIP1,GNPTAB,EIF2AK3,FCAMR,PTGER3,NFAM1,TMC1,SYK,PKIG,SNRPE,RAB3GAP2,RHOJ,TLN2,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,RBFOX2,PRKCG,SLC2A13,C8ORF44,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,DOCK1,RPL13A,LGALS8,RAMP1,TACSTD2,GAD1,KCNN3,INPP5B,ORMDL3,SLC22A18,MAD1L1,PRKCZ,DPP6,PPFIA3,SCAMP4,HTR2A,GABRA5,LEFTY2,ASIP,ATP11A,BANP,CORO2B,SLC35C2,GABRA2,GRM7,SLC37A3,SLC25A44,DGKI,SHQ1,PRG2,ABCC4,CA6,FOXA2,NKAIN3,PALLD,ITPR1,JAKMIP1,IRS2,CDK13,SLC7A2,HCN1,S100A13,CDH13,P2RX3,HDAC4,IDE,G6PC3,GNAI1,KCNK2,FOXP1,SYTL3 |
| GO:BP | actin filament-based process | GO:0030029 | 0.001272 | 2.895434 | 771 | 964 | 75 | 17847 | CDC42BPB,MTSS1,SCIN,FARP2,NCK2,MYO7A,CDC42EP3,MKKS,PRKG1,AKAP13,CASS4,CCDC88A,DLC1,ABLIM3,CTNNA3,MYO1B,MIR21,CIT,CUL3,CAP2,NOS1AP,CFLAR,CRK,LRP1,PARVA,SCN1A,MYH14,EPHA5,ARHGEF10,FRMD6,FMN1,DNAJB6,EPS8,PDE4B,ARHGAP25,LIMA1,EFNA5,MYO1E,WASL,MICAL3,CASQ2,FGD5,DIAPH3,MKLN1,RYR2,SH3PXD2B,NRP1,SHROOM3,BCL2,DAAM1,SHTN1,FARP1,ATP2A2,SYNE2,ACTR3,LIMCH1,FHDC1,KANK1,NPHP1,HIP1,MYH8,RHOJ,PGM5,CACNA1C,TACSTD2,CORO2B,PALLD,MYO9B,ACTN1,TPM1,EPB41L3,FAT1,PARVB,ABR,IQSEC1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cell migration | GO:0016477 | 0.001643 | 2.78431 | 1597 | 964 | 131 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,LAMA4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1,LGALS8,TACSTD2,PRKCZ,PALLD,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,DUSP22,TPM1,FAT1,CHL1,PTPRJ,ZNF609,TGFBR2,ETS1,IL16,MEGF9,CD200R1,GP6,RERE,SCAI,PRKCA,ABR,IQSEC1 |
| GO:BP | second-messenger-mediated signaling | GO:0019932 | 0.001757 | 2.755246 | 444 | 964 | 50 | 17847 | EFCAB11,AHR,PRKG1,AKAP13,NCALD,AGTR1,DDAH1,NOS1AP,PTPRC,LHCGR,NFATC2,EPHA5,GRIN2B,LGR5,PPP3CA,EGFR,FHL2,AKAP6,SLC8A1,EDN3,CASQ2,ADGRD1,CCR5,RYR2,EDNRB,GNAL,GNG2,ATP2A2,ADA,MCTP1,GRM5,NR5A2,PPP3CB,EIF2AK3,PTGER3,SYK,CACNA1C,PDE11A,RAMP1,ITPR1,CDH13,P2RX3,HDAC4,NFATC1,GNAI1,GNB1,PTPRJ,ADGRG7,ABCA1,PRKCA |
| GO:BP | regulation of signaling | GO:0023051 | 0.002092 | 2.679494 | 3637 | 964 | 257 | 17847 | IRF1,ZNRF3,LYN,FARP2,PAX5,NCK2,CD86,MUC4,RYR3,ZNF423,STK3,FBLN1,PPIF,PSMB9,ATP1B3,NRXN3,AKAP13,CTSC,UBAC2,DLC1,GPNMB,BTNL2,CHST11,TRAF1,FBXL17,AKAP12,ASPH,CCL5,RASGRP4,SOCS5,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,STK39,AGTR1,MIR21,MMRN2,WDFY1,FAF1,INSR,CUL3,GPC6,DENND1A,NOS1AP,FYN,IL31RA,NPFFR2,FAM13A,PTPRC,FRMPD1,CFLAR,CRK,PIBF1,RPH3AL,ZEB2,MAML3,LRP1,CCDC3,PIP4K2A,SGMS1,IL1R1,EPHA5,ARHGEF10,SPAG9,BICC1,RHEB,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,FGF1,EPS8,SLIT3,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,LMO7,WWC2,TNFRSF19,VSNL1,ARHGAP25,EGFR,GRIK3,CD46,KMO,BMP7,FHL2,AKAP6,DLG2,KALRN,EFNA5,S100A12,TGFBR3,KIF16B,SNAPIN,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,MACF1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,BICD1,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,PYHIN1,RORA,FGD5,EVC,TAOK3,UNC13C,CAMKMT,ATAD1,ARHGAP32,TAB2,IL23R,GHR,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,WWOX,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,BCL2,JAK1,ABCC9,LY86,TBX1,ARHGEF28,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,MCTP1,CBLB,NRG4,MLLT3,SH2D2A,GRM5,LGR6,PPP3CB,KANK1,ILDR1,SULF2,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTPRS,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,CACNA1C,PDE11A,RAMP1,SPRED2,INPP5B,PRKCZ,PPFIA3,HTR2A,LEFTY2,PRDM16,TMEM204,TMEM127,BANP,AKIP1,SLC35C2,GRM7,PRMT2,DGKI,TNIP3,TLE3,FOXA2,PDE8A,ITPR1,IRS2,TRABD2A,S100A13,G0S2,CDH13,P2RX3,MYO9B,NFATC1,TAB1,GNAI1,FOXP1,IFT140,DUSP22,DHX58,MAP2K1,RAB34,SGSM3,HHEX,PTPRJ,C2CD2L,TGFBR2,RPTOR,TRAF3IP2,ROBO2,MMS19,NRXN1,CASP10,ABCA1,GRIK1,ANKRD17,LASP1,SCAI,TMEM106A,PRKCA,SYNGR1,ABR,IQSEC1,SIPA1L3 |
| GO:BP | animal organ development | GO:0048513 | 0.002932 | 2.532856 | 3635 | 964 | 256 | 17847 | LHX6,MTSS1,IRF1,ZNRF3,CTSB,LYN,DCHS2,SCIN,COL5A1,FARP2,SEMA6D,PRPSAP2,PAX5,CD86,MYO7A,MKKS,STK3,PI16,PSMB9,PRKG1,CNTN1,TG,AKAP13,DLC1,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,KRT6B,PYGO1,FBXL17,RASGRP4,SOCS5,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,CIT,MCPH1,INSR,CUL3,MBP,IBSP,BCAR3,GPC6,RBM20,FYN,IL31RA,COL12A1,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,FRAS1,DOCK10,ZEB2,LRP1,PARVA,NFATC2,MYH14,PIP4K2A,EPHA5,CRTAC1,BICC1,RHEB,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,LGR5,CDK6,FGF1,KDM5A,SETDB2,SLIT3,PPP3CA,AHSP,SLIT1,DAB1,TCF12,THEMIS,TNFRSF19,EML1,TOX,EGFR,CD46,BMP7,FHL2,AKAP6,ADAMTS16,MYLK,KALRN,MYO1E,TGFBR3,SLC8A1,ROR1,MAGI2,PRKCH,ADAMTS12,EDN3,PRKCB,XRCC5,SMO,KRT20,BRIP1,CNTNAP2,RORA,EVC,SOX5,HOXA3,TAB2,RARB,OGDH,IL23R,HIVEP3,GHR,BMP3,FBN1,RYR2,N4BP2L2,KLK5,SH3PXD2B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,MEGF11,ATF3,CLIC4,PLXNA4,SEMA6A,RUNX1,EDNRB,BCL2,DAAM1,COL18A1,TBX1,ODC1,NFIB,SH3RF1,ADA,CR2,MYO18B,SERPINB13,SYNE2,MLLT3,GMNN,LDB2,NR5A2,PPP3CB,SULF2,THRB,HIPK2,NPHP1,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,RHOJ,PSMF1,LAMA1,TRPC4AP,YWHAE,ZNF365,RBFOX2,IMPAD1,WNT7A,GPM6A,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2,TACSTD2,PKNOX1,MAD1L1,PRKCZ,CRIP2,GABRA5,TTC9,PRDM16,RUNX3,CMTM7,MDGA2,ZNF516,MEIS1,SMYD1,TLE3,HOXB4,FOXA2,PALLD,IRS2,CDK13,HCN1,HDAC4,CTTNBP2,NFATC1,TAB1,BTBD3,KCNK2,FOXP1,FANCC,IFT140,HERC1,ACTN1,SATB1,TPM1,SLC25A25,MAP2K1,CDH22,KAZN,FAT1,C15ORF41,GNB1,HOXD13,WDR7,CDSN,HHEX,PTPRJ,ZNF609,MYO1D,TGFBR2,ETS1,ROBO2,WNK4,DNAH5,NRXN1,IRX1,MEGF9,FOXK1,RERE,AP2A2,SSBP3,BASP1,CD79B,PRKCA,ABR,FEZ1,LIPA,SIPA1L3,GSX1 |
| GO:BP | signaling | GO:0023052 | 0.002976 | 2.526311 | 6681 | 964 | 431 | 17847 | DQB2,SEMA6D,RAPGEF5,NMS,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,TG,ITGB6,NRCAM,AKAP13,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,DLC1,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,GPR87,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,SCN1A,NFATC2,MYH14,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,GPR156,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,CACNB4,LMO7,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,FCN1,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,SORCS1,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SH3GL2,BICD1,ATOH8,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,DLGAP2,PYHIN1,RORA,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,UNC13C,SLC16A10,CAMKMT,OR51B5,ATAD1,ARHGAP32,PCNT,TAB2,RARB,RIMBP2,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,ABCC9,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,OR10G4,YWHAE,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,DOCK1,RAMP1,GAD1,SPRED2,INPP5B,CUL2,PRKCZ,PPFIA3,HTR2A,GABRA5,LEFTY2,PRDM16,GABBR2,TMEM204,ASIP,TMEM127,BANP,AKIP1,CMTM7,SLC35C2,GABRA2,GRM7,PRMT2,DGKI,TNIP3,TLE3,FOXA2,PDE8A,NSMCE1,ITPR1,IRS2,TRABD2A,TMEM145,S100A13,G0S2,CDH13,P2RX3,P2RY14,HDAC4,IDE,MYO9B,NFATC1,TAB1,GNAI1,KCNK2,FOXP1,IFT140,OSGIN1,DUSP22,BTBD11,DHX58,MAP2K1,RAB34,FAT1,VAC1 |
| GO:BP | regulation of cellular component movement | GO:0051270 | 0.003386 | 2.47031 | 1107 | 964 | 97 | 17847 | LYN,MTUS1,SEMA6D,MKKS,LAMA4,FBLN1,PRKG1,IDH2,MIA3,CASS4,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,CTNNA3,MIR21,MMRN2,PKN2,INSR,NOS1AP,DOCK4,PTPRC,CRK,ADTRP,DOCK10,LRP1,IL1R1,SPAG9,CDK6,FGF1,PPP3CA,SH3RF2,PDE4B,EGFR,BMP7,MYLK,WASL,TGFBR3,ARMC4,SLC8A1,MAGI2,MACF1,PLXNC1,EDN3,ATOH8,SMO,MIR196A1,RYR2,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,BCL2,COL18A1,IGSF10,SHTN1,ATP2A2,ADA,MCTP1,SYNE2,NRG4,LDB2,LIMCH1,LGR6,KANK1,RHOJ,LAMA1,C8ORF44,WNT7A,CACNA1C,DOCK1,TACSTD2,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,ACTN1,DUSP22,TPM1,PTPRJ,ZNF609,TGFBR2,ETS1,CD200R1,SCAI,PRKCA,ABR,FEZ1,IQSEC1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | regulation of cell adhesion | GO:00301 55 | 0.003776 | 2.422999 | 696 | 964 | 68 | 17847 | IRF1,LYN,NCK2,CD86,LAMA4,FBLN1,PRKG1,EMCN,MIA3,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,SOCS5,ADAMTS18,MIR21,FAF1,MBP,IBSP,APBB1IP,FYN,FAM49B,PTPRC,CRK,ADTRP,LRP1,FMN1,CDK6,PPP3CA,DAB1,LMO7,CD46,BMP7,EFNA5,MACF1,PLXNC1,IL23R,LIMS1,ANGPT2,NRP1,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,ADA,ANK3,LIMCH1,KANK1,SYK,LAMA1,DOCK1,TACSTD2,MAD1L1,PRKCZ,RUNX3,CORO2B,FOXA2,CDH13,DUSP22,TPM1,MYO10,PTPRJ,TGFBR2,ETS1,PRKCA |
| GO:BP | cell communication | GO:00071 54 | 0.004693 | 2.328535 | 6706 | 964 | 431 | 17847 | DQB2,SEMA6D,RAPGEF5,NMS,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,NRCAM,AKAP13,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,DLC1,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,GPR87,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,FRAS1,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,SCN1A,NFATC2,MYH14,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,GPR156,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,CACNB4,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,FCN1,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,SORCS1,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SH3GL2,BICD1,ATOH8,SMO,KRT20,BRIP1,EYA3,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,DLGAP2,PYHIN1,RORA,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,UNC13C,SLC16A10,CAMKMT,OR51B5,ATAD1,ARHGAP32,PCNT,TAB2,RARB,RIMBP2,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,DNAJC15,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,OR10G4,YWHAE,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,DOCK1,RAMP1,GAD1,SPRED2,INPP5B,CUL2,PRKCZ,PPFIA3,HTR2A,GABRA5,LEFTY2,PRDM16,GABBR2,TMEM204,ASIP,TMEM127,BANP,AKIP1,CMTM7,SLC35C2,GABRA2,GRM7,PRMT2,DGKI,TNIP3,TLE3,FOXA2,PDE8A,NSMCE1,ITPR1,IRS2,TRABD2A,TMEM145,S100A13,G0S2,CDH13,P2RX3,P2RY14,HDAC4,IDE,MYO9B,NFATC1,TAB1,GNAI1,KCNK2,FOXP1,IFT140,OSGIN1,DUSP22,BTBD11,DHX58,MAP2K1,RAB34,FAT1,VAC |
| GO:BP | regulation of developmental process | GO:00507 93 | 0.004952 | 2.305211 | 2729 | 964 | 200 | 17847 | IRF1,ZNRF3,LYN,SCIN,COL5A1,SEMA6D,NEGR1,CD86,CDC42EP3,MKKS,STK3,LAMA4,FBLN1,PI16,PSMB9,CNTN1,TG,NRCAM,AKAP13,IDH2,CTSC,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,RUNX1T1,SYNDIG1,CPNE6,PARD3,SOCS5,FBXW8,NKD1,AGTR1,MIR21,MMRN2,INSR,MBP,SLC25A12,GPC6,DDAH1,FYN,NAMPT,PTPRD,PTPRC,CFLAR,CRK,PPP1CC,ZEB2,LRP1,CCDC3,PARVA,NFATC2,HMG20A,MYH14,SPAG9,RHEB,KL,CRP,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,EPS8,B4GALT5,PPP3CA,SLIT1,DAB1,TCF12,WWC2,PALMD,TOX,EGFR,CD46,BMP7,ZNF488,AKAP6,KALRN,EFNA5,TGFBR3,SNAPIN,ASAP1,SLC8A1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,XRCC5,ATOH8,SMO,RORA,FGD5,SOX5,RARB,MIR196A1,MKLN1,IL23R,GHR,FBN1,N4BP2L2,TRIP12,TNKS2,LIMS1,SH3PXD2B,LDLR,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,JAK1,DAAM1,MAP6,TBX1,IGSF10,SHTN1,NFIB,SH3D19,FARP1,SH3RF1,CNOT2,ADA,SERPINB13,MLLT3,PDZD8,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,EIF2AK3,PTPRS,NFAM1,SYK,RHOJ,PSMF1,LAMA1,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,SDC2,DOCK1,PROM1,TACSTD2,PRKCZ,HTR2A,PRDM16,RUNX3,MEIS1,SMYD1,CBLN2,HOXB4,FOXA2,CDK13,S100A13,HDAC4,NFATC1,UST,KCNK2,FOXP1,LRRN3,TPM1,MAP2K1,EPB41L3,MYO10,HOXD13,HHEX,ZNF609,TGFBR2,ETS1,ROBO2,NRXN1,ABCA1,PARVB,ANKRD17,AP2A2,SSBP3,BASP1,PRKCA,ABR,FEZ1 |
| GO:BP | regulation of catalytic activity | GO:00507 90 | 0.007201 | 2.142614 | 2338 | 964 | 175 | 17847 | PPP4R2,CTSB,LYN,PRPSAP2,NCK2,TNFAIP8,MKKS,STK3,FBLN1,PI16,PPIF,PSMB9,ATP1B3,PRKG1,DUS2,AKAP13,CASS4,CCDC88A,DLC1,ITK,ASPH,CCL5,RASGRP4,SOCS5,MAP4K3,GPR87,STK39,AIM2,CCNL1,AGTR1,MIR21,MCPH1,FAF1,INSR,MBP,CAP2,DENND1A,DDAH1,NOS1AP,FYN,SMR3A,DOCK4,NPFFR2,FAM13A,MMP15,PTPRC,CFLAR,CRK,LHCGR,PIBF1,DOCK10,ZEB2,LRP1,ADAP1,EPHA5,ARHGEF10,SPAG9,PPP1R14C,SMYD3,RALGAPA2,GRIN2B,DNAJB6,LGR5,RAPGEF1,FGF1,KDM5A,SH3RF2,RGS6,DAB1,NEK10,PDC,ARHGAP25,EGFR,BMP7,RAPGEF6,RASAL2,DLG2,KALRN,EFNA5,S100A12,EIF4A2,MTRR,WASL,PPP2R2A,ASAP1,ANKLE2,MAGI2,PLXNC1,EDN3,RASGRP3,XRCC5,BICD1,SBF2,SFI1,NAF1,ERN1,USP6NL,NAIP,PPP1R1C,FGD5,CCNJL,TAOK3,ITIH4,ARHGAP32,TAB2,RIMBP2,IL23R,CEP192,GHR,LIMS1,SH3PXD2B,PKIB,PTGS2,NRP1,NGEF,PLXNA4,P2RX1,HSPD1,EDNRB,BCL2,DNAJC15,PTPRN2,FARP1,SH3RF1,SERPINB13,CBLB,ARRDC4,LDB2,GRM5,ARHGAP15,HIP1,EIF2AK3,ARAP2,SYK,PKIG,RAB3GAP2,PPM1H,PSMF1,YWHAE,HSPE1,CHRNA7,ARHGAP19,CACNA1C,DOCK1,SPRED2,PRKCZ,HTR2A,GABBR2,GRM7,DGKI,FOXA2,DCUN1D4,IRS2,MYO9B,TAB1,TBC1D5,SAE1,DUSP22,TPM1,MAP2K1,MOB1B,SGSM3,HHEX,PTPRJ,APH1B,MYO1D,TGFBR2,RPTOR,CAST,NRXN1,CASP10,CDC14B,ABR,IQSEC1,SIPA1L3 |
| GO:BP | regulation of cell communication | GO:00106 46 | 0.007823 | 2.106643 | 3595 | 964 | 251 | 17847 | IRF1,ZNRF3,LYN,FARP2,PAX5,NCK2,CD86,MUC4,ZNF423,STK3,FBLN1,PPIF,PSMB9,NRXN3,AKAP13,CTSC,UBAC2,DLC1,GPNMB,BTNL2,CHST11,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,SOCS5,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,STK39,AGTR1,MIR21,MMRN2,WDFY1,FAF1,INSR,CUL3,GPC6,DENND1A,NOS1AP,FYN,IL31RA,NPFFR2,FAM13A,PTPRC,FRMPD1,CFLAR,CRK,PIBF1,RPH3AL,ZEB2,MAML3,LRP1,CCDC3,PIP4K2A,SGMS1,IL1R1,EPHA5,ARHGEF10,SPAG9,BICC1,RHEB,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,FGF1,EPS8,SLIT3,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,WWC2,TNFRSF19,VSNL1,ARHGAP25,EGFR,GRIK3,CD46,KMO,BMP7,FHL2,AKAP6,DLG2,KALRN,EFNA5,S100A12,TGFBR3,SNAPIN,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,MACF1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,BICD1,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,PYHIN1,RORA,FGD5,EVC,TAOK3,UNC13C,CAMKMT,ATAD1,ARHGAP32,TAB2,IL23R,GHR,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,WWOX,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,BCL2,JAK1,LY86,TBX1,ARHGEF28,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,MCTP1,CBLB,NRG4,ANK3,MLLT3,SH2D2A,GRM5,LGR6,PPP3CB,KANK1,ILDR1,SULF2,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTPRS,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,CACNA1C,PDE11A,RAMP1,SPRED2,INPP5B,PRKCZ,PPFIA3,HTR2A,LEFTY2,PRDM16,TMEM204,TMEM127,BANP,AKIP1,SLC35C2,GRM7,PRMT2,DGKI,TNIP3,TLE3,FOXA2,PDE8A,ITPR1,IRS2,TRABD2A,S100A13,G0S2,CDH13,P2RX3,MYO9B,NFATC1,TAB1,GNAI1,FOXP1,IFT140,DUSP22,DHX58,MAP2K1,RAB34,SGSM3,HHEX,PTPRJ,C2CD2L,TGFBR2,RPTOR,TRAF3IP2,ROBO2,MMS19,NRXN1,CASP10,ABCA1,GRIK1,ANKRD17,LASP1,SCAI,TMEM106A,PRKCA,SYNGR1,ABR,IQSEC1,SIPA1L3 |
| GO:BP | calcium-mediated signaling | GO:00197 22 | 0.009278 | 2.032548 | 223 | 964 | 30 | 17847 | EFCAB11,NCALD,AGTR1,PTPRC,NFATC2,GRIN2B,PPP3CA,EGFR,FHL2,AKAP6,SLC8A1,CASQ2,CCR5,RYR2,EDNRB,ATP2A2,ADA,MCTP1,GRM5,NR5A2,PPP3CB,EIF2AK3,SYK,CACNA1C,ITPR1,CDH13,P2RX3,HDAC4,NFATC1,PTPRJ |

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| GO:BP | regulation of small GTPase mediated signal transduction | GO:0051056 | 0.009657 | 2.015152 | 343 | 964 | 40 | 17847 | LYN,FARP2,AKAP13,DLC1,RASGRP4,ARHGEF38,CUL3,DENND1A,FAM13A,CRK,ARHGEF10,RALGAPA2,RAPGEF1,EPS8,ARHGAP25,KALRN,PSD3,FGD5,ARHGAP32,NRP1,NGEF,MCF2L2,RALGPS2,ARHGEF28,FARP1,KANK1,ARHGAP15,ARAP2,RHOJ,ARHGAP19,INPP5B,DGKI,IRS2,MYO9B,SGSM3,ABCA1,SCAI,ABR,IQSEC1,SIPA1L3 |
| GO:BP | small GTPase mediated signal transduction | GO:0007264 | 0.010487 | 1.979337 | 579 | 964 | 58 | 17847 | LYN,FARP2,RAPGEF5,CDC42EP3,AKAP13,DLC1,RASGRP4,ARHGEF38,AGTR1,CUL3,BCAR3,DENND1A,DOCK4,FAM13A,CRK,DOCK10,ARHGEF10,RHEB,RALGAPA2,RAPGEF1,EPS8,DAB1,ARHGAP25,RAPGEF6,KALRN,RASGRP3,PSD3,FGD5,ARHGAP32,NRP1,NGEF,MCF2L2,RALGPS2,RAB3C,SHTN1,ARHGEF28,FARP1,KANK1,ARHGAP15,ARAP2,RHOJ,ARHGAP19,DOCK1,INPP5B,DGKI,IRS2,CDH13,MYO9B,RAB34,GNB1,SGSM3,ABCA1,SCAI,PLD1,ABR,RGL1,IQSEC1,SIPA1L3 |
| GO:BP | regulation of localization | GO:0032879 | 0.010972 | 1.959728 | 2893 | 964 | 208 | 17847 | LYN,MTUS1,SCIN,SEMA6D,C6ORF106,SEPT8,RYR3,MKKS,LAMA4,FBLN1,PPIF,ATP1B3,PRKG1,NRXN3,CNTN1,IDH2,MIA3,UBAC2,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,BTNL2,AKAP12,CCL5,PARD3,CADPS,PARD6G,ABLIM3,NKD1,STK39,AIM2,CTNNA3,AGTR1,USP36,MIR21,MMRN2,PKN2,INSR,MBP,GPC6,NOS1AP,FYN,DOCK4,FRMD4A,PTPRC,CRK,PPP1CC,RPH3AL,ADTRP,DOCK10,LRP1,SCN1A,IL1R1,EPHA5,SPAG9,GRIN2B,CRP,KCNK5,DNAJB6,RAPGEF1,CDK6,FGF1,PPP3CA,SH3RF2,CACNB4,CADM1,PLCH1,PDE4B,VSNL1,EGFR,KMO,BMP7,AKAP6,MEST,FCN1,MYLK,DLG2,KALRN,EFNA5,WASL,TGFBR3,SNAPIN,C4BPB,ARMC4,SLC8A1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,PRKCB,CASQ2,SH3GL2,BICD1,ATOH8,SMO,KRT20,NAF1,SPIDR,PYHIN1,ASTN2,SGIP1,ATAD1,PCNT,MIR196A1,MKLN1,CCR5,RYR2,PTP4A3,CLDN10,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,NKAIN2,C2,EDNRB,BCL2,SESTD1,RAB3C,COL18A1,IGSF10,SHTN1,KCNJ13,LMAN2,ATP2A2,ADA,MCTP1,SYNE2,NRG4,ANK3,AHNAK,LDB2,GRM5,LIMCH1,LGR6,PPP3CB,KANK1,ILDR1,HIP1,EIF2AK3,PTGER3,TMC1,SYK,PKIG,RHOJ,LAMA1,YWHAE,PRKCG,C8ORF44,WNT7A,CACNA1C,DOCK1,TACSTD2,MAD1L1,PRKCZ,DPP6,HTR2A,CORO2B,GRM7,DGKI,SHQ1,FOXA2,NKAIN3,ITPR1,IRS2,HCN1,CDH13,P2RX3,HDAC4,GNAI1,FOXP1,OSGIN1,TBC1D5,ACTN1,SAE1,DUSP22,TPM1,KCNA4,MAP2K1,KCNA2,PTPRJ,C2CD2L,ZNF609,TGFBR2,ETS1,IL16,WNK4,NRXN1,CD200R1,ABCA1,SCAI,MIR148A,PLD1,DPP10,PRKCA,ABR,FEZ1,IQSEC1 |
| GO:BP | cell-cell adhesion | GO:0098609 | 0.014041 | 1.852613 | 851 | 964 | 77 | 17847 | NINJ2,IRF1,LYN,DCHS2,NEGR1,TENM2,NCK2,CD86,PRKG1,NRXN3,EMCN,NRCAM,MIA3,LAMA3,GPNMB,BTNL2,CCL5,SOCS5,ADAMTS18,CTNNA3,MIR21,MBP,GPC6,FYN,FAM49B,PTPRD,PTPRC,ADTRP,PARVA,HMCN1,ITGAL,CDH23,DNAJB6,VMP1,RAPGEF1,DAB1,LMO7,CADM1,EGFR,CD46,BMP7,DLG2,EFNA5,FAT3,LPP,PKD1L1,GLDN,IL23R,LIMS1,CLDN10,KIRREL3,MEGF11,RUNX1,HSPD1,BCL2,ADA,ANK3,NPHP1,PTPRS,SYK,MAD1L1,PRKCZ,RUNX3,FOXA2,PALLD,CDH13,NCAM2,DUSP22,CDH22,FAT1,MYO10,TGFBR2,ETS1,ROBO2,NRXN1,CD200R1,PRKCA |
| GO:BP | response to stimulus | GO:0050896 | 0.014473 | 1.839427 | 9379 | 964 | 573 | 17847 | MTUS1,COL5A1,FARP2,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,ZFAND2A,NMS,REG4,PAX5,TENM2,NCK2,FMO1,CD86,MUC4,BACH1,RYR3,GLDC,ADRBK2,SCNN1D,CDC42EP3,ZNF423,EFCAB11,SLC15A4,MKKS,STK3,AHR,ABCA13,FBLN1,PI16,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,SLC36A1,NRCAM,COLEC11,AKAP13,MIA3,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,OR10G2,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,AIM2,AGTR1,MIR21,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,WDR33,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,NPFFR2,FAM13A,MMP15,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PPP1CC,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,DTYMK,SCN1A,CSMD1,NFATC2,ADAP1,PIP4K2A,SGMS1,HNRNPF,DEFB132,IL1R1,EPHA5,ARHGEF10,SPAG9,ABCG4,GPR156,BICC1,RHEB,CES1,HMCN1,ITGAL,SMYD3,TNP1,KL,RALGAPA2,GRIN2B,CRP,CDH23,DNAJB6,NFIL3,USP53,LGR5,AFF3,RAPGEF1,WDR70,IL5RA,CDK6,TAP1,FGF1,EPS8,MTAP,TMEM229B,SLIT3,MAST2,ADSS,APBB2,PPP3CA,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,NEK10,TCF12,CADM1,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,ST6GAL1,PKD1L2,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,MYO1E,RCHY1,S100A12,EIF4A2,TAS2R38,WASL,TGFBR3,KIF16B,HDGFRP3,PPP2R2A,SORCS1,PTPN5,DST,C4BPB,NAALADL2,SLC8A1,CD163,RPF2,ROR1,HECW1,MAGI2,PRKCH,MGAM,PIP5K1B,UBE2D2,MACF1,PLXNC1,DPP8,KYNU,ADAMTS12,EDN3,RASGRP3,SCAMP1,GPX5,PRKCB,CASQ2,ADGRD1,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,VPS45,SMO,ZBTB20,KRT20,BRIP1,EYA3,SPIDR,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,TGIF1,PYHIN1,RORA,NAIP,GNLY,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,SOX5,SGIP1,UNC13C,CAMKMT,OR51B5,ITIH4,ARHGAP32,PCNT,TAB2,RARB,FER1L6,NCOA2,CPNE4,MIR196A1,PKD1L1,RNF19B,MKLN1,CCR5,IL23R,CEP192,GHR,OR6C70,BMP3,FBN1,RYR2,TRIP12,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SHMT1,LDLR,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,ZMYND11,NGEF,MCF2L2,ATF3,CLIC4,PLXNA4,FCRL4,ARMC9,SEMA6A,SH2D1B,REV3L,P2RX1,RUNX1,RALGPS2,JMJD1C,MCM3,C2,HSPD1,EDNRB,GNAL,CYP4B1,BCL2,JAK1,RAB3C,ABCC9,DNAJC15,DAAM1,COL18A1,LY86,TBX1,KLRD1,ODC1,SHTN1,PTPRN2,ARHGEF28,NFIB,GNG2,OR52E8,HLA-CIN,COL5A1,FARP2,HLA-DQB2,SEMA6D,RAPGEF5,NEGR1,MYT1,ZFAND2A,NMS,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,CD86,MUC4,BACH1,RYR3,ATF7,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,LAMA4,ZNF292,FBLN1,PI16,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,TG,L3MBTL4,DUS2,ITGB6,NRCAM,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,CASS4,CCDC88A,NCALD,DLC1,OR10G2,TCEA2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,RUNX1T1,BTNL2,CHST11,SYNDIG1,PYGO1,TRAF1,FBXL17,AKAP12,CELF2,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,ABLIM3,PDIA6,FBXW8,BRDT,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,AIM2,CCNL1,CTNNA3,AGTR1,USP36,MIR21,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,RBM20,NOS1AP,FYN,SMR3A,IL31RA,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,CDYL,TRIM2,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,TTC28,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SRRM4,SPAG9,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,ATXN1,GRIN2B,CRP,FMN1,DNAJB6,NFIL3,LGR5,AFF3,RAPGEF1,WDR70,IL5RA,KIAA1109,CDK6,JDP2,FGF1,KDM5A,EPS8,SETDB2,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,NEK10,LMO7,TCF12,CADM1,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,VSNL1,TOX,WEE1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ADAMTS16,PDE4DIP,CLMN,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,MYO1E,RCHY1,S100A12,EIF4A2,PEX2,TAS2R38,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,ZBTB32,PPP2R2A,ASAP1,SORCS1,DST,C4BPB,ARMC4,SLC8A1,RPF2,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,IKZF5,ADGRD1,SH3GL2,XRCC5,BICD1,ATOH8,SMO,ZBTB20,SFI1,KRT20,BRIP1,EYA3,NAF1,SPIDR,PSD3,ERN1,CDK14,USP6NL,SRPK2,SCGB2A2,ZC3H14,TGIF1,PYHIN1,RORA,NAIP,PPP1R1C,RASSF8,FGD5,EVC,CCNJL,TAOK3,UHRF2,SOX5,SECISBP2L,SGIP1,UNC13C,HOXA3,CAMKMT,OR51B5,ATAD1,ITIH4,ARHGAP32,PCNT,TAB2,RARB,ZNF214,RIMBP2,NCOA2,MIR196A1,RNF19B,MKLN1,CCR5,IL23R,CEP192,HIVEP3,CDYL2,GHR,OR6C70,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,ZNF713,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SH3PXD2B,SHMT1,PKIB,LDLR,KIF13B,WWOX,ANGPT2,KCTD1,PTGS2,SMURF2,NRP1,AGXT2,SHROOM3,ZMYND11,NG |
| GO:BP | regulation of cellular process | GO:0050794 | 0.015756 | 1.80255 | 11018 | 964 | 659 | 17847 | |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | actin cytoskeleton organization | GO:0030036 | 0.016143 | 1.79201 | 670 | 964 | 64 | 17847 | CDC42BPB,MTSS1,SCIN,FARP2,NCK2,CDC42EP3,MKKS,PRKG1,AKAP13,CASS4,CCDC88A,DLC1,ABLIM3,MYO1B,MIR21,CIT,CUL3,CAP2,NOS1AP,CFLAR,CRK,LRP1,PARVA,MYH14,EPHA5,ARHGEF10,FRMD6,FMN1,DNAJB6,EPS8,ARHGAP25,LIMA1,EFNA5,WASL,MICAL3,CASQ2,FGD5,DIAPH3,MKLN1,SH3PXD2B,NRP1,SHROOM3,BCL2,DAAM1,SHTN1,FARP1,ACTR3,LIMCH1,FHDC1,KANK1,NPHP1,HIP1,RHOJ,PGM5,TACSTD2,CORO2B,PALLD,ACTN1,TPM1,EPB41L3,FAT1,PARVB,ABR,IQSEC1 |
| GO:BP | biological regulation | GO:0065007 | 0.017745 | 1.750912 | 12469 | 964 | 733 | 17847 | MTUS1,SCIN,COL5A1,FARP2,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,ZFAND2A,NMS,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,CD86,MUC4,ENPP6,BACH1,PPA2,RYR3,GLDC,ATF7,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,LAMA4,ZNF292,FBLN1,PI16,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TG,L3MBTL4,DUS2,ITGB6,NRCAM,COLEC11,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,KCNMB2,CASS4,CCDC88A,NCALD,DLC1,OR10G2,TCEA2,EXOC4,OR4K14,LAMA3,ITK,SLC12A8,GPNMB,MITF,RUNX1T1,BTNL2,CHST11,SYNDIG1,PYGO1,TRAF1,FBXL17,AKAP12,CELF2,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PARD6G,ABLIM3,PDIA6,FBXW8,BRDT,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,AIM2,CCNL1,CTNNA3,AGTR1,USP36,MIR21,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,RBM20,NOS1AP,FYN,SMR3A,IL31RA,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,TNS3,CFLAR,ATP9B,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,CDYL,TRIM2,SCN1A,CSMD1,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,TTC28,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,CES1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,ATXN1,GRIN2B,CRP,FMN1,KCNK5,CDH23,DNAJB6,NFIL3,USP53,LGR5,AFF3,RAPGEF1,WDR70,IL5RA,KIAA1109,CDK6,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,SETDB2,MTAP,SLIT3,MAST2,B4GALT5,APBB2,PPP3CA,AHSP,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,NEK10,CACNB4,LMO7,TCF12,CADM1,STEAP4,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,VSNL1,TOX,WEE1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ADAMTS16,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,RMDN3,MYO1E,RCHY1,S100A12,EIF4A2,MTRR,PEX2,TAS2R38,WASL,TGFBR3,SAMD7,KIF16B,SNAPIN,HDGFRP3,ZBTB32,PPP2R2A,ASAP1,SORCS1,DST,C4BPB,ARMC4,SLC8A1,UNC80,TAF1B,RPF2,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,IKZF5,ADGRD1,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,VPS45,SBF2,SMO,ZBTB20,SFI1,KRT20,BRIP1,EYA3,NAF1,SPIDR,PSD3,ERN1,CDK14,USP6NL,SRPK2,SCGB2A2,ZC3H14,TGIF1,PYHIN1,RORA,NAIP,PPP1R1C,RASSF8,ASTN2,FGD5,EVC,CCNJL,TAOK3,UHRF2,SOX5,SECISBP2L,SGIP1,UNC13C,SLC16A10,HOXA3,CAMKMT,OR51B5,ATAD1,ITIH4,ARHGAP32,PCNT,TAB2,RARB,ZNF214,RIMBP2, |
| GO:BP | cell morphogenesis involved in neuron differentiation | GO:0048667 | 0.017973 | 1.745381 | 603 | 964 | 59 | 17847 | SEMA6D,MYO7A,NRXN3,NRCAM,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SMO,DOK5,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,SDC2,PALLD,IRS2,UST,BTBD3,MAP2K1,CHL1,ROBO2,NRXN1,RERE,PRKCA,FEZ1 |
| GO:BP | regulation of cellular component organization | GO:0051128 | 0.018363 | 1.736051 | 2488 | 964 | 182 | 17847 | LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,SEPT8,PAX5,TENM2,NCK2,CDC42EP3,MKKS,FBLN1,PI16,PPIF,CNTN1,NRCAM,AKAP13,CASS4,CCDC88A,DLC1,SYNDIG1,ASPH,CPNE6,ABLIM3,FBXW8,AIM2,AGTR1,USP36,MIR21,CIT,MCPH1,FAF1,INSR,CUL3,GPC6,FYN,PTPRD,CFLAR,CRK,ADTRP,ZEB2,LRP1,PARVA,NFATC2,MYH14,PIP4K2A,EPHA5,ARHGEF10,GRIN2B,FMN1,DNAJB6,RAPGEF1,WDR70,KIAA1109,JDP2,KDM5A,EPS8,SLIT3,APBB2,PPP3CA,SLIT1,DAB1,PALMD,EGFR,BMP7,LIMA1,AKAP6,ADAMTS16,PDE4DIP,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,PRKCB,SH3GL2,XRCC5,BICD1,NAF1,SPIDR,USP6NL,RASSF8,FGD5,SGIP1,ATAD1,MIR196A1,MKLN1,TRIP12,TNKS2,LIMS1,SH3PXD2B,PKIB,LDLR,KIF13B,NRP1,SHROOM3,NGEF,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,DNAJC15,MAP6,SHTN1,SH3D19,FARP1,CNOT2,MCTP1,SYNE2,PDZD8,ACTR3,LIMCH1,PPP3CB,KANK1,ZMYM4,ARHGAP15,NPHP1,HIP1,BCL11A,PTPRS,SYK,RAB3GAP2,RHOJ,YWHAE,ZNF365,C8ORF44,CHRNA7,WNT7A,GPM6A,SDC2,NSMCE2,DOCK1,RPL13A,TACSTD2,MAD1L1,PRKCZ,CORO2B,CBLN2,CDK13,TRABD2A,S100A13,CDH13,HDAC4,CTTNBP2,IDE,UST,GNAI1,IFT140,OSGIN1,TBC1D5,LRRN3,SAE1,DUSP22,TPM1,MAP2K1,EPB41L3,CNTRL,MYO10,MKI67,PTPRJ,ETS1,RPTOR,ROBO2,NRXN1,PEX14,CDC14B,ABCA1,PARVB,PLD1,FEZ1,IQSEC1 |
| GO:BP | regulation of response to stimulus | GO:0048583 | 0.018748 | 1.727038 | 4370 | 964 | 294 | 17847 | PPP4R2,IRF1,ZNRF3,CTSB,LYN,MTUS1,FARP2,HLA-DQB2,SEMA6D,C6ORF106,PAX5,NCK2,CD86,MUC4,ZNF423,MKKS,STK3,FBLN1,PI16,PPIF,PSMB9,PRKG1,COLEC11,AKAP13,CTSC,UBAC2,DLC1,ITK,GPNMB,BTNL2,CHST11,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,SOCS5,ADAMTS18,ARHGEF38,MAP4K3,NKD1,RBMS3,STK39,AIM2,AGTR1,MIR21,MMRN2,MCPH1,WDFY1,FAF1,INSR,CUL3,GPC6,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,FAM49B,NPFFR2,FAM13A,PTPRC,FRMPD1,CFLAR,CRK,PIBF1,RPH3AL,ADTRP,ZEB2,MAML3,LRP1,CCDC3,NFATC2,PIP4K2A,SGMS1,IL1R1,EPHA5,ARHGEF10,SPAG9,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,CRP,DNAJB6,LGR5,RAPGEF1,WDR70,CDK6,FGF1,EPS8,SLIT3,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,CADM1,WWC2,THEMIS,TNFRSF19,PDE4B,VSNL1,ARHGAP25,EGFR,CD46,BMP7,FHL2,AKAP6,FCN1,MYLK,DLG2,KALRN,EFNA5,S100A12,WASL,TGFBR3,C4BPB,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,BICD1,SMO,BRIP1,EYA3,SPIDR,PSD3,ERN1,CDK14,PYHIN1,RORA,FGD5,EVC,TAOK3,CAMKMT,ARHGAP32,TAB2,IL23R,GHR,BMP3,FBN1,TRIP12,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,LDLR,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,SH2D1B,RUNX1,RALGPS2,C2,HSPD1,EDNRB,BCL2,JAK1,LY86,TBX1,KLRD1,ARHGEF28,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,MCTP1,CBLB,NRG4,MLLT3,SH2D2A,ACTR3,LGR6,PPP3CB,KANK1,SULF2,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,ZNF365,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,PDE11A,DOCK1,RAMP1,SPRED2,INPP5B,PRKCZ,HTR2A,LEFTY2,PRDM16,TMEM204,TMEM127,BANP,CORO2B,AKIP1,SLC35C2,PRMT2,DGKI,TNIP3,TLE3,FOXA2,PDE8A,NSMCE1,ITPR1,IRS2,TRABD2A,SLC7A2,S100A13,G0S2,CDH13,P2RX3,HDAC4,OXR1,MYO9B,NFATC1,TAB1,GNAI1,KCNK2,FOXP1,IFT140,DUSP22,DHX58,MAP2K1,RAB34,MYO10,SGSM3,KCNA2,HHEX,PTPRJ,C2CD2L,TGFBR2,ETS1,RPTOR,IL16,TRAF3IP2,ROBO2,MMS19,NRXN1,CD200R1,CASP10,ABCA1,ANKRD17,LASP1,SCAI,TMEM106A,CD79B,PRKCA,FIGN,ABR,IQSEC1,SIPA1L3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | regulation of multicellular organismal process | GO:0051239 | 0.027397 | 1.562304 | 3300 | 964 | 230 | 17847 | POLR2E,IRF1,ZNRF3,LYN,SCIN,COL5A1,SEMA6D,C6ORF106,NEGR1,CD86,RYR3,ZNF423,MKKS,STK3,LAMA4,PI16,PSMB9,ATP1B3,PRKG1,CNTN1,TG,ITGB6,NRCAM,IDH2,CTSC,KCNMB2,CCDC88A,LAMA3,GPNMB,MITF,BTNL2,SYNDIG1,AKAP12,CELF2,ASPH,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,INSR,MBP,SLC25A12,GPC6,DDAH1,NOS1AP,FYN,SMR3A,FAM49B,DOCK4,PTPRD,PTPRC,CFLAR,CRK,PPP1CC,PIBF1,ADTRP,ZEB2,LRP1,NFATC2,HMG20A,IL1R1,SPAG9,RHEB,KL,CRP,RAPGEF1,IL5RA,KIAA1109,CDK6,FGF1,MAST2,B4GALT5,PPP3CA,SLIT1,NPLOC4,DAB1,CACNB4,TCF12,CADM1,WWC2,IGF2BP2,PDE4B,TOX,EGFR,CD46,BMP7,ZNF488,AKAP6,FCN1,KALRN,EFNA5,TGFBR3,SNAPIN,ASAP1,SLC8A1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,XRCC5,ATOH8,SMO,ZBTB20,PYHIN1,RORA,SOX5,RARB,MIR196A1,IL23R,GHR,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,SH3PXD2B,TNNI3K,LDLR,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,P2RX1,RUNX1,HSPD1,EDNRB,BCL2,JAK1,ABCC9,DAAM1,MAP6,TBX1,IGSF10,SHTN1,NFIB,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,SERPINB13,MLLT3,KANK1,SULF2,THRB,HIPK2,BCL11A,EIF2AK3,PTPRS,PTGER3,NFAM1,SYK,RHOJ,PSMF1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,SDC2,CACNA1C,DOCK1,PROM1,TACSTD2,PRKCZ,HTR2A,PRDM16,RUNX3,CORO2B,ZNF516,MEIS1,TLE3,CBLN2,FOXA2,ITPR1,G0S2,P2RX3,HDAC4,NFATC1,UST,KCNK2,FOXP1,LRRN3,TPM1,DHX58,MAP2K1,HOXD13,KCNA2,HHEX,PTPRJ,ZNF609,TGFBR2,NOVA1,ETS1,ROBO2,WNK4,NRXN1,CD200R1,ABCA1,ANKRD17,AP2A2,BASP1,MIR148A,PRKCA,ABR,FEZ1,LRRFIP1,IQSEC1,PEMT |
| GO:BP | cellular response to stimulus | GO:0051716 | 0.031887 | 1.496381 | 7670 | 964 | 478 | 17847 | HLA-DQB2,SEMA6D,RAPGEF5,ZFAND2A,NMS,PAX5,TENM2,NCK2,FMO1,CD86,MUC4,BACH1,RYR3,GLDC,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,AKAP13,MIA3,CTSC,IL32,UBAC2,CCDC88A,NCALD,PYROXD1,DLC1,OR10G2,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,AIM2,AGTR1,MIR21,MMRN2,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,IBSP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,WDR33,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,DTYMK,NFATC2,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,ABCG4,GPR156,BICC1,RHEB,CES1,ITGAL,SMYD3,TNP1,KL,RALGAPA2,GRIN2B,DNAJB6,NFIL3,LGR5,RAPGEF1,WDR70,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,ADSS,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,NEK10,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,MYO1E,RCHY1,S100A12,EIF4A2,TAS2R38,WASL,TGFBR3,KIF16B,HDGFRP3,SORCS1,PTPN5,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,GPX5,PRKCB,CASQ2,ADGRD1,SH3GL2,XRCC5,BICD1,ATOH8,SMO,ZBTB20,KRT20,BRIP1,EYA3,SPIDR,PSD3,ERN1,CDK14,SRPK2,SCGB2A2,TGIF1,PYHIN1,RORA,GNLY,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,SOX5,UNC13C,CAMKMT,OR51B5,ARHGAP32,PCNT,TAB2,RARB,NCOA2,CPNE4,MIR196A1,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TRIP12,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SHMT1,LDLR,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,ZMYND11,NGEF,MCF2L2,ATF3,CLIC4,PLXNA4,ARMC9,SEMA6A,REV3L,P2RX1,RUNX1,RALGPS2,MCM3,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,DNAJC15,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,GSTO2,FARP1,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,UBE2E2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,PON3,OR10G4,YWHAE,ZNF365,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,NSMCE2,DOCK1,RPL13A,MACROD2,RAMP1,SPRED2,INPP5 |
| GO:BP | regulation of cell motility | GO:2000145 | 0.033477 | 1.475258 | 1019 | 964 | 87 | 17847 | LYN,MTUS1,SEMA6D,MKKS,LAMA4,FBLN1,PRKG1,IDH2,MIA3,CASS4,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,MIR21,MMRN2,PKN2,INSR,DOCK4,PTPRC,CRK,ADTRP,DOCK10,LRP1,IL1R1,SPAG9,CDK6,FGF1,PPP3CA,SH3RF2,EGFR,BMP7,MYLK,WASL,SLC8A1,MAGI2,MACF1,PLXNC1,EDN3,ATOH8,SMO,MIR196A1,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,BCL2,COL18A1,IGSF10,SHTN1,ADA,MCTP1,SYNE2,NRG4,LDB2,LIMCH1,LGR6,KANK1,RHOJ,LAMA1,C8ORF44,WNT7A,DOCK1,TACSTD2,IRS2,CDH13,HDAC4,FOXP1,OSGIN1,DUSP22,TPM1,PTPRJ,ZNF609,TGFBR2,ETS1,CD200R1,SCAI,PRKCA,ABR,IQSEC1 |
| GO:BP | positive regulation of biological process | GO:0048518 | 0.038629 | 1.413091 | 6290 | 964 | 401 | 17847 | DQB2,SEMA6D,NEGR1,MYT1,ZFAND2A,PAX5,TENM2,NCK2,TNFAIP8,CD86,MUC4,BACH1,CDC42EP3,ZNF423,MKKS,STK3,AHR,ZNF292,FBLN1,PPIF,PSMB9,ATP1B3,CNTN1,NRCAM,COLEC11,AKAP13,MIA3,CTSC,CASS4,CCDC88A,DLC1,TCEA2,ITK,GPNMB,MITF,BTNL2,SYNDIG1,PYGO1,TRAF1,AKAP12,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,ABLIM3,FBXW8,BRDT,MAP4K3,NKD1,RBMS3,STK39,AIM2,AGTR1,USP36,MIR21,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,APBB1IP,DDAH1,RBM20,NOS1AP,FYN,IL31RA,NAMPT,FAM49B,DOCK4,FRMD4A,PTPRD,PTPRC,PLB1,TNS3,CFLAR,CRK,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,ADTRP,ZEB2,MAML3,LRP1,CCDC3,NFATC2,PIP4K2A,SGMS1,IL1R1,EPHA5,ARHGEF10,SPAG9,RHEB,SMYD3,TNP1,KL,GRIN2B,CRP,FMN1,NFIL3,LGR5,RAPGEF1,IL5RA,CDK6,JDP2,FGF1,KDM5A,EPS8,B4GALT5,APBB2,PPP3CA,NR3C1,SH3RF2,NPLOC4,DAB1,NEK10,LMO7,TCF12,CADM1,THEMIS,TNFRSF19,PDE4B,VSNL1,TOX,EGFR,CD46,KMO,BMP7,NPAS3,ZNF488,FHL2,AKAP6,CPEB1,FCN1,MYLK,KALRN,EFNA5,RCHY1,S100A12,WASL,TGFBR3,SNAPIN,ASAP1,C4BPB,SLC8A1,TAF1B,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,UBE2D2,MACF1,PLXNC1,EDN3,PRKCB,CASQ2,IKZF5,SH3GL2,XRCC5,BICD1,ATOH8,SMO,ZBTB20,EYA3,NAF1,SPIDR,ERN1,SRPK2,PYHIN1,RORA,EVC,TAOK3,UHRF2,SOX5,SGIP1,HOXA3,ATAD1,PCNT,TAB2,RARB,NCOA2,RNF19B,IL23R,HIVEP3,GHR,BMP3,RYR2,N4BP2L2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SH3PXD2B,PKIB,LDLR,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,AGXT2,NGEF,ATF3,PLXNA4,DNM3,RNF217,ARMC9,SEMA6A,SH2D1B,P2RX1,RUNX1,C2,HSPD1,EDNRB,BCL2,JAK1,MAP6,COL18A1,LY86,TBX1,ODC1,SHTN1,NFIB,SH3D19,SH3RF1,CNOT2,LMAN2,ATP2A2,ADA,CR2,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,ACTR3,ARRDC4,LDB2,GRM5,LIMCH1,NR5A2,UBE2E2,LGR6,PPP3CB,KANK1,ILDR1,SULF2,THRB,HIPK2,NPHP1,HIP1,FUBP1,CREB5,LIPT2,BCL11A,EIF2AK3,PLGRKT,PTPRS,PTGER3,NFAM1,SYK,TRERF1,RAB3GAP2,RHOJ,MED12L,PPM1H,PSMF1,YWHAE,ZNF365,EHF,KLF12,PRKCG,TCF4,HSPE1,CHRNA7,MTA3,WNT7A,GPM6A,NSMCE2,DOCK1,PROM1,RAMP1,TACSTD2,SPRED2,PKNOX1,PRKCZ,CRIP2,DNMT3A,HTR2A,LEFTY2,PRDM16,RUNX3,ASIP,BANP,CORO2B,SLC35C2,PRMT2,DGKI,TNIP3,SHQ1,ABCC4,ZNF516,MEIS1,SMYD1,CBLN2,HOXB4,FOXA2,PDE8A,NSMCE1,DCUN1D4,IRS2,CDK13,TRABD2A,S100A13,G0S2,CDH13,P2RX3,HDAC4,IDE,NFATC1,TAB1,GNAI1,KCNK2,FOXP1,OSGIN1,TBC1D5,ACTN1,LRRN3,SAE1,DUSP22,TPM1,MLXIP,DHX58,MAP2K1,RAB34,MYO10,HOXD13,MOB1B,SGSM3,TFAP2E,HHEX,PTPRJ,C2CD2L,USP22,ZNF609,APH1B,TGFBR2,ETS1,RPTOR,UQCC,IL16,TRAF3IP2,ROBO2,WNK4,MMS19,NRXN1,VPS37B,FOXK1,CASP10,CDC14B,ABCA1,RERE,ANKRD17,LASP1,SSBP3,TMEM106A,BASP1,CD79B,DPP |
| GO:BP | regulation of Ras protein signal transduction | GO:0046578 | 0.04769 | 1.321574 | 242 | 964 | 30 | 17847 | LYN,FARP2,AKAP13,DLC1,RASGRP4,ARHGEF38,CUL3,DENND1A,CRK,ARHGEF10,RAPGEF1,EPS8,KALRN,PSD3,FGD5,NRP1,NGEF,MCF2L2,RALGPS2,ARHGEF28,FARP1,KANK1,DGKI,IRS2,MYO9B,SGSM3,ABCA1,SCAI,ABR,IQSEC1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | cell junction | GO:0030054 | 4.97E-10 | 9.304002 | 1312 | 996 | 130 | 18842 | CDC42BPB,FAAP20,LYN,SCIN,SEPT8,TENM2,ITGB6,CASS4,DLC1,ITK,SYNDIG1,AKAP12,SVOP,PARD3,CADPS,PARD6G,GRIK4,CTNNA3,PKN2,APBB1IP,DENND1A,IL31RA,NAMPT,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,SCN1A,EPHA5,HMCN1,FRMD6,GRIN2B,FMN1,CDH23,USP53,EPS8,PPP3CA,LMO7,CADM1,THEMIS,EGFR,GRIK3,CD46,LIMA1,FHL2,AKAP6,CPEB1,DLG2,EFNA5,MYO1E,SNAPIN,DST,SLC8A1,LPP,MAGI2,MACF1,GPHN,PSD3,CNTNAP2,DLGAP2,AFAP1L1,UNC13C,ATAD1,ARHGAP32,SCHIP1,RIMBP2,MKLN1,LIMS1,CLDN10,SH3PXD2B,NRP1,SHROOM3,CLIC4,JAK1,PARD3B,PTPRN2,ZNRF1,FARP1,ATP2A2,ADA,MCTP1,SYNE2,ANK3,AHNAK,ACTR3,ABCB11,DTNA,ILDR1,FRMD4B,NPHP1,PTPRS,TLN2,LAMA1,YWHAE,PRKCG,CHRNA7,PGM5,CACNA1C,RPL13A,PRKCZ,GABRA5,GABBR2,TMEM204,CORO2B,GABRA2,FOXA2,PALLD,SLC7A2,CDH13,MPDZ,ACTN1,MAP2K1,EPB41L3,KAZN,FAT1,SGSM3,KCNA2,PTPRJ,WNK4,NRXN1,GRIK1,PARVB,LASP1,BASP1,SYNGR1,ABR,SIPA1L3 |
| GO:CC | cell periphery | GO:0071944 | 5.66E-10 | 9.24696 | 5726 | 996 | 404 | 18842 | DQB2,SEMA6D,NEGR1,SEPT8,TENM2,CD86,MUC4,ENPP6,RYR3,MYO7A,GLDC,ADRBK2,SCNN1D,CDC42EP3,SLC15A4,ABCA13,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,KCNMB2,FCRL6,CASS4,CCDC88A,DLC1,OR10G2,EXOC4,OR4K14,GPNMB,BTNL2,LRIG1,SYNDIG1,ANTXR2,TRAF1,AKAP12,SVOP,ASPH,RASGRP4,CPNE6,PARD3,ST3GAL5,PARD6G,PDIA6,OR2F1,NKD1,GRIK4,GPR87,STK39,MYO1B,AGTR1,FAM129A,CIT,PKN2,FAF1,INSR,MBP,DAPP1,CAP2,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,CFLAR,ATP9B,CRK,OR2L5,LHCGR,PPP1CC,FRAS1,ADTRP,PIEZO2,CPD,LRP1,OSBPL6,PARVA,SCN1A,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,CACHD1,IL1R1,EPHA5,ABCG4,GPR156,RHEB,HMCN1,FRMD6,ITGAL,KL,RALGAPA2,GRIN2B,FMN1,KCNK5,CDH23,VMP1,LGR5,IL5RA,FGF1,EPS8,MAST2,ADSS,KCTD3,PPP3CA,RGS6,CACNB4,LMO7,CADM1,STEAP4,TNFRSF19,PLCH1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,S100A12,TAS2R38,WASL,TGFBR3,MICAL3,ASAP1,DST,C4BPB,FAT3,SLC8A1,UNC80,LPP,CD163,ROR1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,RASGRP3,SCAMP1,PRKCB,SLC14A2,ADGRD1,SH3GL2,GPHN,XRCC5,SMO,PSD3,CEP112,CDK14,USP6NL,CAMK1G,CNTNAP2,DLGAP2,NAIP,ASTN2,FGD5,EVC,TAOK3,SGIP1,UNC13C,SLC16A10,OR51B5,ATAD1,ITIH4,ARHGAP32,TAB2,SCHIP1,RIMBP2,CPNE4,PKD1L1,GLDN,MKLN1,CCR5,IL23R,ANO2,SLC5A9,GHR,OR6C70,GAS7,RYR2,PTP4A3,EXOC6B,LIMS1,CLDN10,LDLR,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,MEGF11,CLIC4,PLXNA4,FCRL4,DNM3,CCDC70,SEMA6A,P2RX1,NKAIN2,CPO,RALGPS2,EXOC2,HSPD1,EDNRB,GNAL,RABGGTB,WDFY3,RAB3C,ABCC9,DAAM1,KLRD1,DYTN,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SLC9A9,OR52E8,HLA-DOB,FARP1,CNOT2,LMAN2,ADAM23,ATP2A2,ADA,CR2,OR13G1,CBLB,SYNE2,NRG4,ANK3,AHNAK,ACTR3,ARRDC4,LDB2,ABCB11,GRM5,DTNA,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,HIP1,PLGRKT,FCAMR,PTPRS,PTGER3,NFAM1,TMC1,SYK,RAB3GAP2,RHOJ,TLN2,TRPC4AP,SYNE1,OR10G4,YWHAE,PRKCG,SLC2A13,CHRNA7,ARHGAP19,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,PROM1,RAMP1,TACSTD2,GAD1,KCNN3,SPRED2,INPP5B,ORMDL3,SLC22A18,PRKCZ,DPP6,PPFIA3,CRIP2,HTR2A,GABRA5,CALN1,GABBR2,TMEM204,ATP11A,TMEM127,GABRA2,GRM7,SLC37A3,MDGA2,CERK,DGKI,ABCC4,NKAIN3,PALLD,ITPR1,IRS2,TRABD2A,SLC7A2,HCN1,S100A13,CDH13,P2RX3,P2RY14,CTTNBP2,IDE,MPDZ,MYO9B,GNAI1,KCNK2,SYTL3,NCAM2,TBC1D5,ACTN1,DUSP22,TPM1,KCNA4,MAP2K1,CDH22,EPB41L3,TMEM25,KAZN,FAT1,GNB1,MYO10,CHL1,KCNA2,PTPRJ,C2CD2L,APH1B,MYO1D,TGFBR2,SLC9A3,IL16,ADGRG7,ROBO2,NRXN1,VPS37 |
| GO:CC | plasma membrane | GO:0005886 | 9.42E-09 | 8.026137 | 5603 | 996 | 391 | 18842 | DQB2,SEMA6D,NEGR1,TENM2,CD86,MUC4,ENPP6,RYR3,MYO7A,GLDC,ADRBK2,SCNN1D,CDC42EP3,SLC15A4,ABCA13,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TMEM63C,ITGB6,SLC36A1,NRCAM,KCNMB2,FCRL6,CASS4,CCDC88A,DLC1,OR10G2,EXOC4,OR4K14,GPNMB,BTNL2,LRIG1,SYNDIG1,ANTXR2,TRAF1,AKAP12,SVOP,ASPH,RASGRP4,CPNE6,PARD3,ST3GAL5,PARD6G,PDIA6,OR2F1,NKD1,GRIK4,GPR87,STK39,MYO1B,AGTR1,FAM129A,CIT,PKN2,FAF1,INSR,MBP,DAPP1,CAP2,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,CFLAR,ATP9B,CRK,OR2L5,LHCGR,PPP1CC,FRAS1,ADTRP,PIEZO2,CPD,LRP1,OSBPL6,PARVA,SCN1A,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,CACHD1,IL1R1,EPHA5,ABCG4,GPR156,RHEB,HMCN1,FRMD6,ITGAL,KL,RALGAPA2,GRIN2B,FMN1,KCNK5,CDH23,VMP1,LGR5,IL5RA,EPS8,MAST2,ADSS,KCTD3,PPP3CA,RGS6,CACNB4,LMO7,CADM1,STEAP4,TNFRSF19,PLCH1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,S100A12,TAS2R38,WASL,TGFBR3,MICAL3,ASAP1,DST,C4BPB,FAT3,SLC8A1,UNC80,LPP,CD163,ROR1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,RASGRP3,SCAMP1,PRKCB,SLC14A2,ADGRD1,SH3GL2,GPHN,XRCC5,SMO,PSD3,CEP112,CDK14,USP6NL,CAMK1G,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,TAOK3,SGIP1,UNC13C,SLC16A10,OR51B5,ATAD1,ITIH4,ARHGAP32,TAB2,SCHIP1,RIMBP2,CPNE4,PKD1L1,GLDN,CCR5,IL23R,ANO2,SLC5A9,GHR,OR6C70,GAS7,RYR2,PTP4A3,LIMS1,CLDN10,LDLR,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,MEGF11,CLIC4,PLXNA4,FCRL4,DNM3,CCDC70,SEMA6A,P2RX1,NKAIN2,CPO,RALGPS2,EXOC2,HSPD1,EDNRB,GNAL,RABGGTB,WDFY3,RAB3C,ABCC9,DAAM1,KLRD1,DYTN,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SLC9A9,OR52E8,HLA-DOB,FARP1,CNOT2,LMAN2,ADAM23,ATP2A2,ADA,CR2,OR13G1,CBLB,SYNE2,NRG4,ANK3,AHNAK,ARRDC4,LDB2,ABCB11,GRM5,DTNA,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,HIP1,PLGRKT,FCAMR,PTPRS,PTGER3,NFAM1,TMC1,SYK,RAB3GAP2,RHOJ,TLN2,TRPC4AP,SYNE1,OR10G4,YWHAE,PRKCG,SLC2A13,CHRNA7,ARHGAP19,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,PROM1,RAMP1,TACSTD2,GAD1,KCNN3,SPRED2,INPP5B,ORMDL3,SLC22A18,PRKCZ,DPP6,HTR2A,GABRA5,CALN1,GABBR2,TMEM204,ATP11A,TMEM127,GABRA2,GRM7,SLC37A3,MDGA2,CERK,DGKI,ABCC4,NKAIN3,PALLD,ITPR1,IRS2,TRABD2A,SLC7A2,HCN1,S100A13,CDH13,P2RX3,P2RY14,IDE,MPDZ,GNAI1,KCNK2,SYTL3,NCAM2,TBC1D5,ACTN1,DUSP22,TPM1,KCNA4,MAP2K1,CDH22,EPB41L3,TMEM25,KAZN,FAT1,GNB1,MYO10,CHL1,KCNA2,PTPRJ,C2CD2L,APH1B,MYO1D,TGFBR2,SLC9A3,IL16,ADGRG7,ROBO2,NRXN1,VPS37B,CD200R1,GP6,CASP10,ABCA1,GRIK1,P |
| GO:CC | synapse | GO:0045202 | 4.91E-07 | 6.308544 | 1206 | 996 | 113 | 18842 | LYN,SEPT8,TENM2,NCK2,MYO7A,LAMA4,NRXN3,CNTN1,NRCAM,EXOC4,SYNDIG1,AKAP12,SVOP,CADPS,ABLIM3,GRIK4,CAP2,GPC6,DENND1A,NOS1AP,FYN,IL31RA,PTPRD,PPP1CC,DOCK10,RHEB,GRIN2B,KIAA1109,EPS8,APBB2,PPP3CA,DAB1,CADM1,PALMD,PDE4B,EGFR,GRIK3,CPEB1,DLG2,EFNA5,SNAPIN,PPP2R2A,ASAP1,SLC8A1,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,PSD3,CEP112,DLGAP2,UNC13C,ATAD1,ARHGAP32,RIMBP2,MKLN1,NRP1,DNM3,P2RX1,RAB3C,PTPRN2,ZNRF1,FARP1,ADAM23,ATP2A2,MCTP1,ANK3,GRM5,DTNA,PPP3CB,HIP1,BCL11A,PTPRS,PPM1H,TLN2,SYNE1,YWHAE,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C,GAD1,PRKCZ,PPFIA3,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,CBLN2,ITPR1,CDH13,P2RX3,HDAC4,CTTNBP2,MPDZ,KCNK2,ACTN1,KCNA4,EPB41L3,WDR7,KCNA2,NRXN1,GRIK1,PLD1,SYNGR1,ABR,PPFIA4 |
| GO:CC | plasma membrane region | GO:0098590 | 1.25E-06 | 5.901868 | 1197 | 996 | 111 | 18842 | TENM2,MYO7A,ATP1B3,CNTN1,NRCAM,DLC1,SYNDIG1,PARD3,PARD6G,GRIK4,STK39,CIT,PKN2,INSR,DENND1A,NOS1AP,IL31RA,PLB1,PPP1CC,ADTRP,LRP1,HMCN1,KL,GRIN2B,EPS8,LMO7,CADM1,EGFR,GRIK3,LIMA1,AKAP6,CPEB1,RAPGEF6,MYLK,DLG2,EFNA5,ASAP1,DST,SLC8A1,MGAM,MACF1,SLC14A2,GPHN,SMO,PSD3,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,UNC13C,SLC16A10,ATAD1,ARHGAP32,PKD1L1,LDLR,PTGS2,NRP1,SHROOM3,MEGF11,DNM3,P2RX1,CPO,PARD3B,FARP1,ADAM23,SYNE2,ANK3,GRM5,KANK1,HIP1,PTPRS,SYNE1,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1,TACSTD2,SLC22A18,PRKCZ,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,ABCC4,CDH13,P2RX3,IDE,MPDZ,KCNK2,TPM1,EPB41L3,FAT1,GNB1,MYO10,KCNA2,PTPRJ,C2CD2L,MYO1D,TGFBR2,SLC9A3,ROBO2,NRXN1,GRIK1,PLD1,SLC41A1,SIPA1L3,PEMT |
| GO:CC | actin cytoskeleton | GO:0015629 | 2.99E-06 | 5.524076 | 517 | 996 | 60 | 18842 | CDC42BPB,MTSS1,SCIN,MYO7A,SCNN1D,CDC42EP3,AKAP13,DLC1,ABLIM3,MYO1B,CIT,CAP2,FYN,NPFFR2,CRK,PARVA,MYH14,CALD1,FMN1,MYO7B,LIMA1,MYLK,KALRN,MYO1E,WASL,MICAL3,ASAP1,LPP,ROR1,MACF1,AFAP1L1,ARHGAP32,SH3PXD2B,SHROOM3,CLIC4,DAAM1,MYO18B,AHNAK,ACTR3,LIMCH1,HIP1,MYH8,TLN2,PGM5,PRKCZ,CORO2B,PALLD,MSRA,HDAC4,CTTNBP2,MYO9B,ACTN1,DUSP22,TPM1,MYO10,MYO1D,PARVB,LASP1,LSP1,SIPA1L3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | cell projection | GO:00429 95 | 7.19E-06 | 5.143286 | 2216 | 996 | 175 | 18842 | MRI1,CDC42BPB,MTSS1,SCIN,SEPT8,TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,ABLIM3,FBXL13,CTNNA3,MYO1B,PKN2,INSR,CUL3,MBP,APBB1IP,DENND1A,CFAP43,FYN,IL31RA,FAM49B,DOCK4,PTPRC,PLB1,PPP1CC,DOCK10,LRP1,PARVA,SCN1A,MYH14,EPHA5,CRTAC1,GRIN2B,CDH23,CDK6,EPS8,APBB2,PPP3CA,DAB1,MYO7B,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,MYLK,DLG2,PITPNM3,WASL,SNAPIN,MICAL3,ASAP1,DST,ARMC4,SLC8A1,UNC80,ROR1,MAGI2,PIP5K1B,MACF1,PRKCB,SH3GL2,GPHN,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,AFAP1L1,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,GLDN,MKLN1,ANO2,SH3PXD2B,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,NRP1,NGEF,CLIC4,DNM3,ARMC9,SEMA6A,P2RX1,AHCYL2,WDFY3,DAAM1,MAP6,SHTN1,PTPRN2,NFIB,FARP1,SH3RF1,ATP2A2,ADA,SYNE2,ANK3,ACTR3,GRM5,DTNA,FHDC1,KANK1,FRMD4B,NPHP1,PTPRS,TMC1,RHOJ,TLN2,YWHAE,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1,GAD1,KCNN3,PRKCZ,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,PALLD,HCN1,CDH13,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,NCAM2,ACTN1,DUSP22,TPM1,KCNA4,RAB34,EPB41L3,FAT1,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,PARVB,BASP1,ABR,FEZ1,CD302,PEMT |
| GO:CC | cell cortex | GO:00059 38 | 7.45E-06 | 5.127895 | 322 | 996 | 43 | 18842 | SCIN,SEPT8,MYO7A,AKAP13,DLC1,EXOC4,AKAP12,ASPH,PARD3,PARD6G,CAP2,FRMPD1,CALD1,HMCN1,FGF1,EPS8,WASL,MICAL3,DST,ASTN2,UNC13C,ARHGAP32,MKLN1,EXOC6B,SHROOM3,EXOC2,PARD3B,ACTR3,HIP1,RHOJ,GAD1,PRKCZ,PPFIA3,CRIP2,GRM7,CTTNBP2,MYO9B,GNAI1,MYO10,C2CD2L,MYO1D,LASP1,CD302 |
| GO:CC | plasma membrane bounded cell projection | GO:01200 25 | 2.51E-05 | 4.599567 | 2144 | 996 | 168 | 18842 | CDC42BPB,MTSS1,SEPT8,TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,ABLIM3,FBXL13,CTNNA3,MYO1B,PKN2,INSR,CUL3,MBP,APBB1IP,DENND1A,CFAP43,FYN,IL31RA,FAM49B,DOCK4,PTPRC,PLB1,PPP1CC,DOCK10,LRP1,PARVA,SCN1A,MYH14,EPHA5,CRTAC1,GRIN2B,CDH23,CDK6,EPS8,APBB2,PPP3CA,DAB1,MYO7B,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,MYLK,DLG2,WASL,SNAPIN,ASAP1,DST,ARMC4,SLC8A1,UNC80,ROR1,MAGI2,PIP5K1B,MACF1,PRKCB,SH3GL2,GPHN,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,AFAP1L1,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,GLDN,MKLN1,ANO2,KIF13B,WWOX,KIRREL3,PTGS2,NRP1,NGEF,CLIC4,DNM3,ARMC9,SEMA6A,P2RX1,AHCYL2,WDFY3,DAAM1,MAP6,SHTN1,PTPRN2,NFIB,FARP1,SH3RF1,ATP2A2,ADA,SYNE2,ANK3,ACTR3,GRM5,DTNA,FHDC1,KANK1,FRMD4B,NPHP1,PTPRS,TMC1,TLN2,YWHAE,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1,GAD1,KCNN3,PRKCZ,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,PALLD,HCN1,CDH13,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,NCAM2,ACTN1,DUSP22,TPM1,KCNA4,RAB34,EPB41L3,FAT1,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,PARVB,BASP1,ABR,FEZ1,CD302,PEMT |
| GO:CC | neuron part | GO:00974 58 | 2.9E-05 | 4.537634 | 1771 | 996 | 144 | 18842 | ARID1B,LYN,SEPT8,TENM2,NCK2,MYO7A,MKKS,NRXN3,CNTN1,NRCAM,EXOC4,SYNDIG1,AKAP12,SVOP,CPNE6,PARD3,CADPS,GRIK4,CIT,INSR,MBP,CAP2,DENND1A,FYN,IL31RA,DOCK4,PPP1CC,DOCK10,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,RHEB,GRIN2B,CDH23,KIAA1109,EPS8,APBB2,PPP3CA,DAB1,PALMD,PDE4B,PDC,GRIK3,CPEB1,DLG2,SNAPIN,ASAP1,DST,SLC8A1,UNC80,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,DLGAP2,ASTN2,UNC13C,ARHGAP32,GLDN,GHR,LDLR,KIF13B,KIRREL3,PTGS2,NRP1,NGEF,DNM3,SEMA6A,P2RX1,AHCYL2,WDFY3,RAB3C,MAP6,SHTN1,PTPRN2,NFIB,ZNRF1,FARP1,ADAM23,ADA,MCTP1,ANK3,GRM5,DTNA,NPHP1,HIP1,BCL11A,PTPRS,TMC1,YWHAE,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C,PROM1,GAD1,KCNN3,PRKCZ,PPFIA3,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,PALLD,ITPR1,HCN1,CDH13,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,NCAM2,KCNA4,EPB41L3,GNB1,MYO10,CHL1,WDR7,KCNA2,MYO1D,RPTOR,ROBO2,NRXN1,GRIK1,BASP1,SYNGR1,ABR,FEZ1,PPFIA4 |
| GO:CC | cytoplasm | GO:00057 37 | 3.95E-05 | 4.403125 | 11620 | 996 | 691 | 18842 | [illegible]5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,PRPSAP2,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,CDC42EP3,MAP3K7CL,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,DNAH9,DECR2,DUS2,SLC36A1,AKAP13,IDH2,MIA3,CTSC,IL32,UBAC2,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,EXOC4,LRCH3,LAMA3,ITK,GPNMB,CHST11,SYNDIG1,KRT6B,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,COQ2,CTNNA3,MYO1B,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,DENND1A,DDAH1,CFAP43,NOS1AP,FYN,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,FAM13A,PTPRC,FRMPD1,TNS3,CFLAR,ATP9B,CRK,IRF2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,EPHA5,ARHGEF10,SPAG9,PPP1R14C,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,DNAJB6,VMP1,LGR5,AFF3,XXYLT1,RAPGEF1,NXF1,CDK6,TAP1,ALDH7A1,FGF1,EPS8,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,TCF12,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,CD163,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,MGAM,PIP5K1B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,RAVER2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,VPS45,SBF2,SMO,ZBTB20,SFI1,KRT20,BRIP1,EYA3,NAF1,CEP112,ERN1,CDK14,USP6NL,SRPK2,CAMK1G,CNTNAP2,ZC3H14,DLGAP2,NAIP,GNLY,PPP1R1C,AFAP1L1,ASTN2,FGD5,EVC,CCNJL,TAOK3,SGIP1,UNC13C,DIAPH3,CAMKMT,ATAD1,ITIH4,ARHGAP32,KIAA0391,PCNT,TAB2,TPMT,RARB,SCHIP1,NCOA2,ZNF638,OGDH,RNF19B,MKLN1,CCR5,LSG1, |
| GO:CC | axon | GO:00304 24 | 5.49E-05 | 4.260447 | 627 | 996 | 65 | 18842 | SEPT8,TENM2,NRCAM,EXOC4,CPNE6,PARD3,INSR,MBP,IL31RA,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,EPS8,APBB2,GRIK3,DLG2,SNAPIN,DST,UNC80,ROR1,PRKCB,SBF2,CNTNAP2,ZC3H14,UNC13C,GLDN,KIF13B,KIRREL3,NRP1,NGEF,DNM3,SEMA6A,WDFY3,MAP6,SHTN1,PTPRN2,NFIB,ANK3,DTNA,PTPRS,YWHAE,PRKCG,GPM6A,GAD1,PRKCZ,HTR2A,GABRA2,GRM7,DGKI,PALLD,HCN1,P2RX3,KCNK2,NCAM2,KCNA4,EPB41L3,KCNA2,MYO1D,ROBO2,NRXN1,BASP1,ABR,FEZ1 |
| GO:CC | synapse part | GO:00444 56 | 0.000304 | 3.516729 | 971 | 996 | 87 | 18842 | LYN,SEPT8,TENM2,NCK2,LAMA4,NRXN3,CNTN1,NRCAM,SYNDIG1,SVOP,CADPS,GRIK4,CAP2,DENND1A,FYN,IL31RA,PPP1CC,DOCK10,RHEB,GRIN2B,KIAA1109,EPS8,PPP3CA,DAB1,PALMD,PDE4B,GRIK3,CPEB1,DLG2,SNAPIN,ASAP1,SLC8A1,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,PSD3,DLGAP2,UNC13C,ATAD1,ARHGAP32,NRP1,DNM3,P2RX1,RAB3C,PTPRN2,ZNRF1,FARP1,ADAM23,MCTP1,ANK3,GRM5,HIP1,BCL11A,PTPRS,SYNE1,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C,GAD1,PRKCZ,PPFIA3,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,ITPR1,P2RX3,CTTNBP2,MPDZ,KCNK2,KCNA4,EPB41L3,WDR7,KCNA2,NRXN1,GRIK1,SYNGR1,ABR,PPFIA4 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | neuron projection | GO:0043005 | 0.000384 | 3.415618 | 1336 | 996 | 111 | 18842 | SEPT8,TENM2,MYO7A,MKKS,NRCAM,EXOC4,SYNDIG1,CPNE6,PARD3,INSR,MBP,DENND1A,FYN,IL31RA,DOCK4,PPP1CC,DOCK10,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,GRIN2B,CDH23,EPS8,APBB2,PPP3CA,DAB1,PALMD,PDE4B,PDC,GRIK3,CPEB1,DLG2,SNAPIN,ASAP1,DST,SLC8A1,UNC80,ROR1,MAGI2,PRKCB,SH3GL2,GPHN,SBF2,SMO,CAMK1G,CNTNAP2,ZC3H14,UNC13C,ARHGAP32,GLDN,KIF13B,KIRREL3,PTGS2,NRP1,NGEF,DNM3,SEMA6A,P2RX1,AHCYL2,WDFY3,MAP6,SHTN1,PTPRN2,NFIB,FARP1,ADA,ANK3,GRM5,DTNA,NPHP1,PTPRS,TMC1,YWHAE,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1,GAD1,KCNN3,PRKCZ,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,PALLD,HCN1,CDH13,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,NCAM2,KCNA4,EPB41L3,GNB1,MYO10,CHL1,KCNA2,MYO1D,RPTOR,ROBO2,NRXN1,BASP1,ABR,FEZ1 |
| GO:CC | Z disc | GO:0030018 | 0.000421 | 3.375542 | 130 | 996 | 22 | 18842 | RYR3,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,MYO18B,SYNE2,ANK3,PPP3CB,PGM5,CACNA1C,PALLD,HDAC4,ACTN1,PARVB |
| GO:CC | plasma membrane part | GO:0044459 | 0.000499 | 3.302238 | 3022 | 996 | 215 | 18842 | NINJ2,CD320,ZNRF3,LYN,HLA-DQB2,SEMA6D,TENM2,CD86,MUC4,MYO7A,ATP1B3,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,KCNMB2,FCRL6,DLC1,EXOC4,GPNMB,BTNL2,SYNDIG1,ANTXR2,TRAF1,SVOP,PARD3,ST3GAL5,PARD6G,GRIK4,STK39,AGTR1,CIT,PKN2,FAF1,INSR,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,PLB1,CFLAR,LHCGR,PPP1CC,ADTRP,LRP1,SCN1A,SGMS1,CACHD1,IL1R1,EPHA5,GPR156,HMCN1,ITGAL,KL,GRIN2B,KCNK5,CDH23,LGR5,IL5RA,EPS8,PPP3CA,CACNB4,LMO7,CADM1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,TGFBR3,ASAP1,DST,SLC8A1,CD163,ROR1,MGAM,MACF1,PLXNC1,RASGRP3,SLC14A2,ADGRD1,GPHN,SMO,PSD3,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,SGIP1,UNC13C,SLC16A10,ATAD1,ARHGAP32,PKD1L1,CCR5,IL23R,GHR,LDLR,PTGS2,NRP1,SHROOM3,MEGF11,PLXNA4,DNM3,SEMA6A,P2RX1,CPO,EDNRB,GNAL,ABCC9,KLRD1,PARD3B,PTPRN2,GNG2,HLA-DOB,FARP1,LMAN2,ADAM23,ATP2A2,ADA,SYNE2,ANK3,AHNAK,ABCB11,GRM5,DTNA,LGR6,PPP3CB,KANK1,HIP1,PLGRKT,PTPRS,PTGER3,TMC1,SYK,SYNE1,PRKCG,SLC2A13,CHRNA7,GPM6A,PGM5,CACNA1C,PROM1,RAMP1,TACSTD2,SLC22A18,PRKCZ,DPP6,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,SLC37A3,DGKI,ABCC4,TRABD2A,SLC7A2,HCN1,CDH13,P2RX3,IDE,MPDZ,GNAI1,KCNK2,SYTL3,TBC1D5,TPM1,KCNA4,EPB41L3,FAT1,GNB1,MYO10,KCNA2,PTPRJ,C2CD2L,APH1B,MYO1D,TGFBR2,SLC9A3,ADGRG7,ROBO2,NRXN1,CD200R1,GP6,CASP10,ABCA1,GRIK1,SLC38A4,AP2A2,PLD1,CD79B,DPP10,PRKCA,TMPRSS9,SLC41A1,SIPA1L3,PEMT |
| GO:CC | cell-cell junction | GO:0005911 | 0.000561 | 3.250732 | 466 | 996 | 50 | 18842 | CDC42BPB,LYN,ITK,PARD3,PARD6G,CTNNA3,PKN2,FRMD4A,SCN1A,HMCN1,FRMD6,CDH23,USP53,PPP3CA,LMO7,CADM1,THEMIS,AKAP6,MYO1E,SLC8A1,MAGI2,CNTNAP2,LIMS1,CLDN10,SHROOM3,CLIC4,PARD3B,ATP2A2,ANK3,AHNAK,ACTR3,ABCB11,ILDR1,FRMD4B,NPHP1,LAMA1,PRKCG,PGM5,PRKCZ,CDH13,MPDZ,ACTN1,EPB41L3,KAZN,FAT1,SGSM3,KCNA2,PTPRJ,WNK4,SIPA1L3 |
| GO:CC | cytoskeleton | GO:0005856 | 0.000625 | 3.203794 | 2221 | 996 | 166 | 18842 | CDC42BPB,PPP4R2,MTSS1,MTUS1,SCIN,FARP2,SEPT8,MYO7A,SCNN1D,CDC42EP3,MKKS,DNAH9,ITGB6,AKAP13,CTSC,CASS4,CCDC88A,DLC1,KRT6B,CEP83,EML6,AKAP12,PARD3,ABLIM3,AK5,FBXL13,STK39,CTNNA3,MYO1B,CIT,RAD23A,MCPH1,PKN2,CUL3,CAP2,APBB1IP,CFAP43,FYN,FRMD4A,NPFFR2,FRMPD1,CRK,PIBF1,PARVA,MYH14,CALD1,TTC28,ARHGEF10,SPAG9,FRMD6,FMN1,CDK6,TAP1,MAST2,NR3C1,MYO7B,IGF2BP2,PDE4B,EML1,TBCA,LIMA1,TUBGCP3,PDE4DIP,RAPGEF6,MYLK,KALRN,RMDN3,MYO1E,S100A12,WASL,KIF16B,MICAL3,ASAP1,SNX31,DST,ARMC4,SLC8A1,LPP,ROR1,MACF1,GPHN,BICD1,SFI1,KRT20,EYA3,CEP112,DLGAP2,AFAP1L1,FGD5,EVC,SGIP1,ARHGAP32,PCNT,CEP192,GAS7,TNKS2,SH3PXD2B,KIF13B,NRP1,SHROOM3,CLIC4,DNM3,ARMC9,MCM3,SESTD1,JAK1,DAAM1,MAP6,OSBPL10,SHTN1,FARP1,MYO18B,SYNE2,ANK3,AHNAK,ACTR3,STAU2,LIMCH1,FHDC1,FRMD4B,NPHP1,HIP1,IVNS1ABP,MYH8,TLN2,SYNE1,YWHAE,ZNF365,PGM5,KRTAP4-1,MACROD2,MAD1L1,PRKCZ,KIF12,CORO2B,HOXB4,PALLD,JAKMIP1,MSRA,HDAC4,CTTNBP2,MYO9B,GNAI1,IFT140,ACTN1,DUSP22,TPM1,MAP2K1,EPB41L3,KAZN,CNTRL,MYO10,STARD9,NOL9,MYO1D,MMS19,DNAH5,CDC14B,PARVB,LASP1,BASP1,LSP1,FIGN,FEZ1,LRRFIP1,SIPA1L3 |
| GO:CC | cytoplasmic region | GO:0099568 | 0.000911 | 3.040398 | 514 | 996 | 53 | 18842 | SCIN,SEPT8,MYO7A,DNAH9,AKAP13,DLC1,EXOC4,AKAP12,ASPH,PARD3,PARD6G,CAP2,CFAP43,FRMPD1,CALD1,HMCN1,FGF1,EPS8,GRIK3,DLG2,WASL,SNAPIN,MICAL3,DST,ARMC4,ZC3H14,ASTN2,UNC13C,ARHGAP32,MKLN1,EXOC6B,SHROOM3,EXOC2,PARD3B,ADA,ACTR3,HIP1,RHOJ,GAD1,PRKCZ,PPFIA3,CRIP2,GRM7,CTTNBP2,MYO9B,GNAI1,IFT140,MYO10,C2CD2L,MYO1D,DNAH5,LASP1,CD302 |
| GO:CC | cell leading edge | GO:0031252 | 0.000954 | 3.020601 | 409 | 996 | 45 | 18842 | CDC42BPB,MTSS1,CCDC88A,DLC1,ABLIM3,CTNNA3,PKN2,INSR,APBB1IP,PARVA,CDK6,EPS8,APBB2,LIMA1,MYLK,WASL,DST,MACF1,PSD3,CNTNAP2,FGD5,MKLN1,SHTN1,SH3RF1,SYNE2,ACTR3,LDB2,KANK1,FRMD4B,TLN2,PRKCZ,GABRA5,GABRA2,PALLD,ACTN1,DUSP22,TPM1,EPB41L3,FAT1,MYO10,KCNA2,PTPRJ,MYO1D,ROBO2,PARVB |
| GO:CC | myofibril | GO:0030016 | 0.001129 | 2.947179 | 226 | 996 | 30 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,CALD1,DNAJB6,PPP3CA,PDE4B,FHL2,PDE4DIP,DST,SLC8A1,CASQ2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C,PALLD,HDAC4,ACTN1,TPM1,PARVB |
| GO:CC | I band | GO:0031674 | 0.001901 | 2.721126 | 142 | 996 | 22 | 18842 | RYR3,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,MYO18B,SYNE2,ANK3,PPP3CB,PGM5,CACNA1C,PALLD,HDAC4,ACTN1,PARVB |
| GO:CC | membrane | GO:0016020 | 0.002329 | 2.632755 | 9701 | 996 | 580 | 18842 | DQB2,SEMA6D,NEGR1,SEPT8,TMCO3,TENM2,NCK2,FMO1,CD86,MUC4,ENPP6,RYR3,MYO7A,GLDC,ADRBK2,SCNN1D,CDC42EP3,SLC15A4,SEC24D,FAM189A2,ABCA13,PPIF,ATP1B3,PRKG1,NRXN3,CNTN1,DECR2,EMCN,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,MIA3,CTSC,IL32,UBAC2,KCNMB2,FCRL6,CASS4,CCDC88A,NCALD,DLC1,OR10G2,EXOC4,LRCH3,OR4K14,SLC12A8,GPNMB,BTNL2,LRIG1,CHST11,SYNDIG1,ANTXR2,TRAF1,GOLIM4,AKAP12,SVOP,ASPH,RASGRP4,GLT8D1,CPNE6,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,PDIA6,OR2F1,NKD1,GRIK4,GPR87,STK39,IMMP2L,MGAT2,COQ2,MYO1B,AGTR1,FAM129A,CIT,CLRN3,PKN2,FAF1,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NAMPT,PGAM1,FAM49B,DOCK4,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,CFLAR,ATP9B,CRK,OR2L5,LHCGR,TRAPPC9,PPP1CC,FRAS1,RPH3AL,ADTRP,PIEZO2,CPD,DOCK10,MAN1A1,LRP1,OSBPL6,OSBPL1A,PARVA,CDYL,SCN1A,CSMD1,MYH14,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,CACHD1,IL1R1,EPHA5,SPAG9,ABCG4,PPP1R14C,GPR156,RHEB,HMCN1,FRMD6,ITGAL,KL,RALGAPA2,GRIN2B,FMN1,AP1S3,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,LGR5,XXYLT1,RAPGEF1,IL5RA,KIAA1109,TAP1,EPS8,TMEM229B,MAST2,ADSS,B4GALT5,APBB2,NDST3,MTMR7,KCTD3,ANKRD46,PPP3CA,RGS6,NPLOC4,DAB1,CACNB4,LMO7,CADM1,STEAP4,PALMD,TNFRSF19,PLCH1,PDE4B,VSNL1,ARHGAP25,EGFR,GRIK3,CD46,KMO,LIMA1,AKAP6,ST6GAL1,TUBGCP3,PKD1L2,CLMN,CPEB1,MEST,RAPGEF6,MICU3,FCN1,MYLK,DLG2,EFNA5,SLC25A26,RMDN3,S100A12,PEX2,TAS2R38,PITPNM3,WASL,TGFBR3,KIF16B,SNAPIN,MICAL3,ASAP1,SORCS1,PTPN5,DST,C4BPB,NAALADL2,FAT3,SLC8A1,TRAPPC3L,STARD7,UNC80,LPP,CD163,ANKLE2,ROR1,HDAC11,MAGI2,PRKCH,MGAM,PIP5K1B,EOGT,MACF1,PLXNC1,TAMM41,RASGRP3,SCAMP1,SEC11C,PRKCB,SLC14A2,CASQ2,ADGRD1,SH3GL2,GPHN,XRCC5,BICD1,VPS45,SBF2,SMO,BRIP1,PSD3,CEP112,ERN1,CDK14,USP6NL,CAMK1G,CNTNAP2,DLGAP2,NAIP,ASTN2,FGD5,EVC,TAOK3,SGIP1,UNC13C,SLC16A10,OR51B5,ATAD1,ITIH4,ARHGAP32,PCNT,TAB2,SCHIP1,FER1L6,RIMBP2,CPNE4,OGDH,PKD1L1,RNF19B,GLDN,LDLRAD1,CCR5,IL23R,LSG1,ANO2,SLC5A9,MGAT5B,GHR,OR6C70,GAS7,LHFP,RYR2,TNKS2,PTP4A3,LIMS1,CLDN10,LDLR,MTHFD2L,WWOX,ANGPT2,M1AP,RTN1,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,ZMYND11,NGEF,MEGF11,CLIC4,PLXNA4,FCRL4,DNM3,CCDC70,RNF217,SEMA6A,P2RX1,NKAIN2,CPO,RALGPS2,DSE,MCM3,EXOC2,HSPD1,EDNRB,GNAL,CYP4B1,RABGGTB,BCL2,SESTD1,WDFY3,JAK1,RAB3C,ABCC9,DNAJC15,SLC35A5,DAAM1,MAP6,OSBPL10,KLRD1,DYTN,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SLC9A9,OR52E8,ZNRF1,HLA- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | contractile fiber | GO:00432 92 | 0.002504 | 2.601437 | 235 | 996 | 30 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,CALD1,DNAJB6,PPP3CA,PDE4B,FHL2,PDE4DIP,DST,SLC8A1,CASQ 2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C,PALLD,HDAC4,ACTN 1,TPM1,PARVB |
| GO:CC | axon part | GO:00332 67 | 0.003054 | 2.515199 | 388 | 996 | 42 | 18842 | TENM2,NRCAM,EXOC4,PARD3,MBP,LRP1,SCN1A,MYH14,CRTAC1,EPS8,APBB2,GRIK3,DLG2,SNAPIN,DST,R OR1,PRKCB,CNTNAP2,ZC3H14,UNC13C,KIF13B,NRP1,NGEF,SHTN1,PTPRN2,ANK3,YWHAE,PRKCG,GPM6A ,GAD1,PRKCZ,DGKI,PALLD,P2RX3,KCNK2,EPB41L3,KCNA2,MYO1D,ROBO2,NRXN1,BASP1,FEZ1 |
| GO:CC | cytosol | GO:00058 29 | 0.003089 | 2.510249 | 5086 | 996 | 329 | 18842 | MRI1,ARID1B,POLR2E,IRF1,LYN,FARP2,MYT1,PAX5,NCK2,BACH1,MYO7A,ADRBK2,CDC42EP3,MAP3K7CL, MKKS,STK3,SEC24D,AHR,PSMB9,PRKG1,DECR2,DUS2,AKAP13,IDH2,IL32,CCDC88A,NCALD,DLC1,EXOC4, LRCH3,ITK,KRT6B,CEP83,TRAF1,AKAP12,RASGRP4,PARD3,CADPS,SOCS5,PARD6G,PDIA6,FBXW8,AK5,NAA 25,FBXL13,HSBP1L1,STK39,AIM2,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,CUL3,DAPP1,APBB1IP,GGAC T,DENND1A,DDAH1,NOS1AP,FYN,NAMPT,PGAM1,BACH2,DOCK4,FAM13A,FRMPD1,TNS3,CFLAR,CRK,IRF2 ,TRAPPC9,PPP1CC,DOCK10,ZEB2,MAN1A1,CNDP2,OSBPL6,OSBPL1A,PARVA,DTYMK,NFATC2,MYH14,ADA P1,PIP4K2A,CALD1,HNRNPF,ARHGEF10,SPAG9,RHEB,CES1,SMYD3,RALGAPA2,ATXN1,AP1S3,DNAJB6,AFF 3,RAPGEF1,NXF1,CDK6,ALDH7A1,FGF1,SETDB2,MTAP,ADSS,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4 ,DAB1,CACNB4,LMO7,WWC2,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,PDC,ARHGAP25,KMO,NPAS3,LI MA1,TUBGCP3,CPEB1,RAPGEF6,RASAL2,MYLK,DLG2,KALRN,RCHY1,S100A12,EIF4A2,MTRR,PITPNM3,WA SL,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,DST,HEATR5A,TRAPPC3L,LPP,HECW1,PRKCH,PIP5 K1B,UBE2D2,DPP8,KYNU,PRKCB,SH3GL2,GPHN,XRCC5,BICD1,ATPAF2,SBF2,SFI1,KRT20,CDK14,USP6NL, SRPK2,AFAP1L1,SGIP1,DIAPH3,CAMKMT,ARHGAP32,PCNT,TAB2,TPMT,SCHIP1,RNF19B,MKLN1,LSG1,CEP 192,GHR,TRIP12,TNKS2,DOK5,PADI1,LIMS1,KLK5,SHMT1,KIF13B,WWOX,SMURF2,NRP1,NGEF,CLIC4,RN F217,SH2D1B,RUNX1,AHCYL2,DSE,EXOC2,HSPD1,RABGGTB,BCL2,WDFY3,JAK1,DPYS,RAB3C,DAAM1,OSB PL10,ODC1,ARHGEF28,SH3D19,ZNRF1,GSTO2,FARP1,SH3RF1,CNOT2,ADA,SERPINB13,CBLB,ANK3,SH2D2 A,AHNAK,ACTR3,AFTPH,GMNN,ZNF438,PPP3CB,ILDR1,ARHGAP15,NPHP1,HIP1,ARAP2,IVNS1ABP,MYH8, SYK,TRERF1,SPATA24,SNRPE,RAB3GAP2,RHOJ,PCBP3,PSMF1,YWHAE,RBFOX2,KLF12,PRKCG,IMPAD1,C8O RF44,ARHGAP19,PGM5,PDE11A,KRTAP4- 1,DOCK1,RPL13A,LGALS8,COL21A1,TACSTD2,SPRED2,PKNOX1,INPP5B,CUL2,MAD1L1,PRKCZ,PPFIA3,HT R2A,GABRA5,HDC,PRDM16,RUNX3,AKR7L,SLC37A3,PRMT2,DGKI,TNIP3,SHQ1,BCL2L14,FKBP5,PDE8A,PA LLD,RASEF,FBXW10,IRS2,CDK13,UCKL1,MSRA,S100A13,CMIP,HDAC4,IDE,MYO9B,NFATC1,TAB1,BTBD3,F ANCC,HERC1,TBC1D5,ACTN1,DUSP22,TPM1,MAP2K1,EPB41L3,KAZN,GNB1,CNTRL,MYO10,MOB1B,SGSM 3,CARS,MYO1D,TGFBR2,C2CD2,RPTOR,IL16,WNK4,MMS19,CAST,RPL15,CASP10,PARVB,AP2A2,NPL,CD7 9B,PRKCA,ABR,RGL1,PPFIA4,LRRFIP1 |
| GO:CC | sarcomere | GO:00300 17 | 0.003649 | 2.43778 | 204 | 996 | 27 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,ABCC9,M YO18B,SYNE2,ANK3,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C,PALLD,HDAC4,ACTN1,TPM1,PARVB |
| GO:CC | contractile fiber part | GO:00444 49 | 0.005769 | 2.238891 | 221 | 996 | 28 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,ABCC9,M YO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C,PALLD,HDAC4,ACTN1,TPM1,PARVB |
| GO:CC | actomyosin | GO:00426 41 | 0.00584 | 2.233561 | 80 | 996 | 15 | 18842 | CDC42BPB,ABLIM3,MYH14,LIMA1,MYLK,LPP,ROR1,DAAM1,LIMCH1,PGM5,PRKCZ,HDAC4,ACTN1,TPM1,S IPA1L3 |
| GO:CC | cation channel complex | GO:00347 03 | 0.007414 | 2.129929 | 224 | 996 | 28 | 18842 | RYR3,KCNMB2,GRIK4,NOS1AP,SCN1A,CACHD1,GRIN2B,EPS8,CACNB4,PDE4B,GRIK3,AKAP6,DLG2,UNC80 ,CASQ2,CNTNAP2,PKD1L1,RYR2,SESTD1,ABCC9,CACNA1C,DPP6,HCN1,KCNK2,KCNA4,KCNA2,GRIK1,DPP 10 |
| GO:CC | postsynapse | GO:00987 94 | 0.007475 | 2.126363 | 624 | 996 | 58 | 18842 | LYN,TENM2,NCK2,CNTN1,NRCAM,SYNDIG1,GRIK4,CAP2,FYN,PPP1CC,DOCK10,RHEB,GRIN2B,EPS8,PPP3C A,DAB1,PALMD,PDE4B,GRIK3,CPEB1,DLG2,ASAP1,SLC8A1,MAGI2,GPHN,PSD3,DLGAP2,ATAD1,ARHGAP3 2,NRP1,DNM3,P2RX1,FARP1,ANK3,GRM5,HIP1,BCL11A,PTPRS,SYNE1,PRKCG,CHRNA7,GPM6A,CACNA1C, PRKCZ,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,ITPR1,P2RX3,CTTNBP2,MPDZ,KCNA4,EPB41L3,GRI K1,ABR |
| GO:CC | cytoplasmic part | GO:00444 44 | 0.00766 | 2.115771 | 9760 | 996 | 579 | 18842 | HLA- DQB2,SEMA6D,C6ORF106,MYT1,SEPT8,PAX5,TENM2,NCK2,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLD C,ADRBK2,CDC42EP3,MAP3K7CL,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,ABCA13,PPIF,DDX4,PSMB9,A TP1B3,PRKG1,DNAH9,DECR2,DUS2,SLC36A1,AKAP13,IDH2,MIA3,CTSC,IL32,UBAC2,CCDC88A,NCALD,PY ROXD1,DLC1,D2HGDH,EXOC4,LRCH3,LAMA3,ITK,GPNMB,CHST11,SYNDIG1,KRT6B,ANTXR2,CEP83,TRAF1 ,GOLIM4,AKAP12,SVOP,ASPH,RASGRP4,GLT8D1,CPNE6,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,PDIA6,F BXW8,AK5,NAA25,FBXL13,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,COQ2,MYO1B,FAM129A,CIT,RAD23A, WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,DENND1A,D DAH1,CFAP43,NOS1AP,FYN,COL12A1,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FAM13A,PTPRC,FRMPD1,T NS3,CFLAR,ATP9B,CRK,IRF2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,LRP1,CNDP 2,OSBPL6,CCDC3,OSBPL1A,PARVA,DTYMK,SCN1A,METAP1D,NFATC2,MYH14,ADAP1,PIP4K2A,CALD1,SG MS1,HNRNPF,EPHA5,ARHGEF10,SPAG9,PPTC7,RHEB,CES1,HMCN1,ITGAL,SMYD3,RALGAPA2,ATXN1,FMN 1,AP1S3,MTHFD1L,DNAJB6,VMP1,LGR5,AFF3,XXYLT1,RAPGEF1,NXF1,CDK6,TAP1,ALDH7A1,FGF1,EPS8,S ETDB2,MTAP,SLIT3,ICA1L,ADSS,B4GALT5,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4,DAB1,CAC NB4,LMO7,STEAP4,MYO7B,WWC2,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,PDC,PHTF2,ARHGAP25,EG FR,GRIK3,CD46,KMO,NPAS3,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CPEB1,MEST,RAPGEF6,MIC U3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,RCHY1,S100A12,EIF4A2,MTRR,PE X2,PITPNM3,WASL,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST ,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,CD163,ANKLE2,HECW1,MAGI2,PRKCH,MGAM,PIP5K1 B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,SH3GL2,GPHN,X RCC5,BICD1,ATPAF2,VPS45,SBF2,SMO,SFI1,KRT20,ERN1,CDK14,USP6NL,SRPK2,CAMK1G,CNTNAP2,ZC3H 14,DLGAP2,GNLY,AFAP1L1,ASTN2,FGD5,SGIP1,UNC13C,DIAPH3,CAMKMT,ATAD1,ITIH4,ARHGAP32,KIAA 0391,PCNT,TAB2,TPMT,SCHIP1,OGDH,RNF19B,MKLN1,CCR5,LSG1,CEP192,MGAT5B,GHR,FBN1,RYR2,TRI P12,TNKS2,PTP4A3,DOK5,EXOC6B,PADI1,LIMS1,KLK5,SHMT1,LDLR,KIF13B,MTHFD2L,WWOX,RTN1,PTGS 2,SMURF2,NRP1,AGXT2,SHROOM3,NGEF,CLIC4,DNM3,RNF217,ARMC9,SH2D1B,P2RX1,RUNX1,AHCYL2, DSE,MCM3,EXOC2,HSPD1,CYP4B1,RABGGTB,BCL2,WDFY3,JAK1,DPYS,RAB3C,ABCC9,DNAJC15,SLC35A5, DAAM1,MAP6,OSBPL10,COL18A1,COL24A1,ODC1,SHTN1,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SL |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 3,CTSB,ATP8B4,LYN,DCHS2,MTUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,CD86,MUC4,ENPP6,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,DECR2,EMCN,L3MBTL4,DUS2,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,KCNMB2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,SCUBE2,OR10G2,TCEA2,EXOC4,LRCH3,OR4K14,LAMA3,ITK,AMN1,SLC12A8,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,OR2F1,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,TNS3,CFLAR,ATP9B,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,CPD,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,CACHD1,DEFB132,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,ABCG4,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,KCTD3,PPP3CA,AHSP,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,TAS2R38,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SOR |
| GO:CC | cell | GO:0005623 | 0.009506 | 2.021986 | 17069 | 996 | 937 | 18842 | |
| GO:CC | adherens junction | GO:0005912 | 0.010416 | 1.982287 | 546 | 996 | 52 | 18842 | LYN,ITGB6,CASS4,DLC1,AKAP12,PARD3,CTNNA3,APBB1IP,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,EPHA5,HMCN1,FMN1,CDH23,LMO7,EGFR,CD46,LIMA1,FHL2,EFNA5,MYO1E,DST,LPP,LIMS1,NRP1,SHROOM3,JAK1,PARD3B,ATP2A2,SYNE2,AHNAK,ACTR3,FRMD4B,NPHP1,TLN2,YWHAE,PGM5,RPL13A,TMEM204,CORO2B,PALLD,CDH13,ACTN1,MAP2K1,FAT1,PARVB,LASP1 |
| GO:CC | anchoring junction | GO:0070161 | 0.010887 | 1.963073 | 561 | 996 | 53 | 18842 | LYN,ITGB6,CASS4,DLC1,AKAP12,PARD3,CTNNA3,APBB1IP,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,EPHA5,HMCN1,FMN1,CDH23,LMO7,EGFR,CD46,LIMA1,FHL2,EFNA5,MYO1E,DST,LPP,LIMS1,NRP1,SHROOM3,JAK1,PARD3B,ATP2A2,SYNE2,AHNAK,ACTR3,FRMD4B,NPHP1,TLN2,YWHAE,PGM5,RPL13A,TMEM204,CORO2B,PALLD,CDH13,ACTN1,MAP2K1,KAZN,FAT1,PARVB,LASP1 |
| GO:CC | intracellular part | GO:0044424 | 0.015422 | 1.811845 | 14552 | 996 | 819 | 18842 | TUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,DNAH9,DECR2,L3MBTL4,DUS2,ITGB6,SLC36A1,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,TCEA2,EXOC4,LRCH3,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,PTPRC,FRMPD1,TNS3,CFLAR,ATP9B,CRK,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,EPHA5,ARHGEF10,SRRM4,SPAG9,PPP1R14C,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,NAALADL2,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,TAF1B,CD163,RPF2,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MGAM,PIP5K1B,FAM81B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,IKZF5,RAVER2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,VPS45,SBF2,SMO,ZBTB2 |
| GO:CC | stress fiber | GO:0001725 | 0.017083 | 1.767424 | 68 | 996 | 13 | 18842 | ABLIM3,MYH14,LIMA1,MYLK,LPP,ROR1,DAAM1,LIMCH1,PGM5,PRKCZ,ACTN1,TPM1,SIPA1L3 |
| GO:CC | contractile actin filament bundle | GO:0097517 | 0.017083 | 1.767424 | 68 | 996 | 13 | 18842 | ABLIM3,MYH14,LIMA1,MYLK,LPP,ROR1,DAAM1,LIMCH1,PGM5,PRKCZ,ACTN1,TPM1,SIPA1L3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 4,LYN,MTUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,DNAH9,DECR2,L3MBTL4,DUS2,ITGB6,SLC36A1,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,TCEA2,EXOC4,LRCH3,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,PTPRC,FRMPD1,TNS3,CFLAR,ATP9B,CRK,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,EPHA5,ARHGEF10,SRRM4,SPAG9,PPP1R14C,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,NAALADL2,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,TAF1B,CD163,RPF2,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MGAM,PIP5K1B,FAM81B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,IKZF5,RAVER2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,VPS45,SBF2,SMO,ZBTB2 |
| GO:CC | intracellular | GO:0005622 | 0.022621 | 1.645487 | 14596 | 996 | 820 | 18842 | |
| GO:CC | ion channel complex | GO:0034702 | 0.022747 | 1.643071 | 302 | 996 | 33 | 18842 | RYR3,KCNMB2,GRIK4,NOS1AP,SCN1A,CACHD1,GRIN2B,EPS8,CACNB4,PDE4B,GRIK3,AKAP6,DLG2,UNC80,CASQ2,CNTNAP2,PKD1L1,ANO2,RYR2,CLIC4,SESTD1,ABCC9,CHRNA7,CACNA1C,DPP6,GABRA5,GABRA2,HCN1,KCNK2,KCNA4,KCNA2,GRIK1,DPP10 |
| GO:CC | synaptic membrane | GO:0097060 | 0.026508 | 1.576629 | 439 | 996 | 43 | 18842 | TENM2,CNTN1,NRCAM,SYNDIG1,GRIK4,DENND1A,IL31RA,GRIN2B,GRIK3,CPEB1,DLG2,SLC8A1,GPHN,PSD3,DLGAP2,UNC13C,ATAD1,ARHGAP32,NRP1,DNM3,P2RX1,FARP1,ADAM23,ANK3,GRM5,HIP1,PTPRS,SYNE1,PRKCG,CHRNA7,GPM6A,CACNA1C,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,P2RX3,MPDZ,KCNA2,NRXN1,GRIK1 |
| GO:CC | cell part | GO:0044464 | 0.028831 | 1.540143 | 17004 | 996 | 932 | 18842 | 3,CTSB,ATP8B4,LYN,DCHS2,MTUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,CD86,MUC4,ENPP6,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,DECR2,EMCN,L3MBTL4,DUS2,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,KCNMB2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,SCUBE2,OR10G2,TCEA2,EXOC4,LRCH3,OR4K14,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,OR2F1,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,TNS3,CFLAR,ATP9B,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,CPD,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,CACHD1,DEFB132,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,ABCG4,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,KCTD3,PPP3CA,AHSP,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,TAS2R38,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,NAALADL2,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,TAF1B,CD163,RPF2,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MGAM,PIP5K1B,FAM81B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,IKZF5,RAVER2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,VPS45,SBF2,SMO,ZBTB2 |
| GO:CC | transporter complex | GO:1990351 | 0.030544 | 1.515077 | 333 | 996 | 35 | 18842 | RYR3,ATP1B3,KCNMB2,GRIK4,NOS1AP,SCN1A,CACHD1,GRIN2B,EPS8,CACNB4,PDE4B,GRIK3,AKAP6,DLG2,UNC80,CASQ2,CNTNAP2,PKD1L1,ANO2,RYR2,CLIC4,SESTD1,ABCC9,CHRNA7,CACNA1C,DPP6,GABRA5,GABRA2,HCN1,KCNK2,KCNA4,KCNA2,PEX14,GRIK1,DPP10 |
| GO:CC | presynapse | GO:0098793 | 0.037107 | 1.430543 | 516 | 996 | 48 | 18842 | SEPT8,NRXN3,CNTN1,SYNDIG1,SVOP,CADPS,GRIK4,DENND1A,IL31RA,PPP1CC,KIAA1109,PDE4B,GRIK3,SNAPIN,ROR1,SCAMP1,PRKCB,SH3GL2,VPS45,UNC13C,DNM3,P2RX1,RAB3C,PTPRN2,ZNRF1,ADAM23,MCTP1,HIP1,PTPRS,PRKCG,WNT7A,GPM6A,GAD1,PPFIA3,HTR2A,GABRA5,GABRA2,GRM7,DGKI,P2RX3,CTTNBP2,KCNK2,WDR7,KCNA2,NRXN1,GRIK1,SYNGR1,PPFIA4 |
| GO:CC | transmembrane transporter complex | GO:1902495 | 0.041961 | 1.377151 | 325 | 996 | 34 | 18842 | RYR3,ATP1B3,KCNMB2,GRIK4,NOS1AP,SCN1A,CACHD1,GRIN2B,EPS8,CACNB4,PDE4B,GRIK3,AKAP6,DLG2,UNC80,CASQ2,CNTNAP2,PKD1L1,ANO2,RYR2,CLIC4,SESTD1,ABCC9,CHRNA7,CACNA1C,DPP6,GABRA5,GABRA2,HCN1,KCNK2,KCNA4,KCNA2,GRIK1,DPP10 |
| GO:CC | cell projection part | GO:0044463 | 0.043274 | 1.363775 | 1488 | 996 | 111 | 18842 | TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,INSR,MBP,DENND1A,CFAP43,FYN,PLB1,PPP1CC,DOCK10,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,EPS8,APBB2,PPP3CA,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,DLG2,SNAPIN,ASAP1,DST,ARMC4,SLC8A1,ROR1,MAGI2,MACF1,PRKCB,SH3GL2,GPHN,SMO,PSD3,CNTNAP2,ZC3H14,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,KIF13B,KIRREL3,NRP1,NGEF,DNM3,ARMC9,DAAM1,MAP6,SHTN1,PTPRN2,FARP1,ADA,SYNE2,ANK3,KANK1,NPHP1,TMC1,YWHAE,PRKCG,GPM6A,CACNA1C,PROM1,GAD1,PRKCZ,HTR2A,GABRA5,GABRA2,GRM7,DGKI,PALLD,HCN1,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,DUSP22,TPM1,KCNA4,EPB41L3,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,BASP1,ABR,FEZ1,PEMT |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | plasma membrane bounded cell projection part | GO:01200 38 | 0.043274 | 1.363775 | 1488 | 996 | 111 | 18842 | TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,INSR,MBP,DENND1A,CFAP43,FYN,PLB1,PPP1CC,DOCK10,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,EPS8,APBB2,PPP3CA,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,DLG2,SNAPIN,ASAP1,DST,ARMC4,SLC8A1,ROR1,MAGI2,MACF1,PRKCB,SH3GL2,GPHN,SMO,PSD3,CNTNAP2,ZC3H14,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,KIF13B,KIRREL3,NRP1,NGEF,DNM3,ARMC9,DAAM1,MAP6,SHTN1,PTPRN2,FARP1,ADA,SYNE2,ANK3,KANK1,NPHP1,TMC1,YWHAE,PRKCG,GPM6A,CACNA1C,PROM1,GAD1,PRKCZ,HTR2A,GABRA5,GABRA2,GRM7,DGKI,PALLD,HCN1,P2RX3,CTTNBP2,MPDZ,KCNK2,IFT140,DUSP22,TPM1,KCNA4,EPB41L3,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,BASP1,ABR,FEZ1,PEMT |
| GO:CC | actin filament bundle | GO:00324 32 | 0.048958 | 1.310175 | 75 | 996 | 13 | 18842 | ABLIM3,MYH14,LIMA1,MYLK,LPP,ROR1,DAAM1,LIMCH1,PGM5,PRKCZ,ACTN1,TPM1,SIPA1L3 |
| KEGG | Calcium signaling pathway | KEGG:040 20 | 0.00132 | 2.879334 | 192 | 445 | 27 | 7772 | RYR3,PPIF,ASPH,AGTR1,LHCGR,PPP3CA,EGFR,MYLK,SLC8A1,PRKCB,CASQ2,CAMK1G,RYR2,P2RX1,EDNRB,GNAL,ATP2A2,GRM5,PPP3CB,PTGER3,PRKCG,CHRNA7,CACNA1C,HTR2A,ITPR1,P2RX3,PRKCA |
| KEGG | Glutamatergic synapse | KEGG:047 24 | 0.00842 | 2.074663 | 114 | 445 | 18 | 7772 | ADRBK2,GRIK4,GRIN2B,PPP3CA,GRIK3,PRKCB,GNG2,GRM5,PPP3CB,PRKCG,CACNA1C,GRM7,ITPR1,GNAI1,GNB1,GRIK1,PLD1,PRKCA |
| KEGG | Axon guidance | KEGG:043 60 | 0.00966 | 2.015009 | 180 | 445 | 24 | 7772 | SEMA6D,NCK2,PARD3,PARD6G,ABLIM3,FYN,NFATC2,EPHA5,SLIT3,PPP3CA,SLIT1,BMP7,EFNA5,PLXNC1,SMO,NRP1,NGEF,PLXNA4,SEMA6A,PPP3CB,PRKCZ,GNAI1,ROBO2,PRKCA |
| KEGG | Rap1 signaling pathway | KEGG:040 15 | 0.017234 | 1.763606 | 210 | 445 | 26 | 7772 | FARP2,RAPGEF5,PARD3,PARD6G,INSR,APBB1IP,DOCK4,CRK,ITGAL,GRIN2B,RAPGEF1,FGF1,EGFR,RAPGEF6,EFNA5,MAGI2,RASGRP3,PRKCB,ANGPT2,TLN2,PRKCG,PRKCZ,GNAI1,MAP2K1,PRKCA,SIPA1L3 |

| source | term_name | term_id | adjusted_p_value | negative_log10_of_adjusted_p_value | term_size | query_size | intersection_size | effective_domain_size | intersections |
|---|---|---|---|---|---|---|---|---|---|
| GO:MF | protein binding | GO:0005515 | 0.017187 | 1.764801 | 12715 | 276 | 223 | 18098 | LGALS8,FRMD4A,RAMP1,TACSTD2,RPH3AL,GAD1,ABLIM3,CCNDBP1,KCNN3,SPRED2,PKNOX1,FAM13C,INPP5B,CUL2,ORMDL3,SLC22A18,MAD1L1,PRKCZ,MYLK,PPFIA3,LRIG1,CRIP2,DNMT3A,HTR2A,DIP2A,GABRA5,TTC9,LEFTY2,MED12L,AGPAT4,HDC,PRDM16,KIF12,GABBR2,RUNX3,VGLL4,ASIP,PIP5K1B,ATP11A,TMEM127,BANP,CORO2B,NPAS3,AKIP1,CMTM7,DNAH9,MDGA2,PRMT2,CERK,DGKI,NRP1,TNIP3,BICC1,SHQ1,BCL2L14,SLC9A9,ABCC4,IL5RA,ZNF516,FKBP5,C11ORF49,MEIS1,SMYD1,TLE3,CA6,CBLN2,HOXB4,FOXA2,LYN,COL18A1,WDR33,PDE8A,RNF217,NSMCE1,DCUN1D4,PALLD,ZSCAN1,RASEF,THRB,IMMT,ZBED4,FBXW10,ITPR1,JAKMIP1,IRS2,CDK13,TRABD2A,UCKL1,LIMCH1,HCN1,S100A13,G0S2,AHNAK,CDH13,CMIP,HDAC4,CTTNBP2,DLC1,IDE,MPDZ,MYO9B,NFATC1,TAB1,BTBD3,KIRREL3,GNAI1,BACH2,FOXP1,SYTL3,FANCC,IFT140,OSGIN1,FAM102A,HERC1,NCAM2,TBC1D5,ACTN1,SATB1,LRRN3,SAE1,DUSP22,TPM1,CNTNAP2,MLXIP,BTBD11,KCNA4,LIN9,DHX58,MAP2K1,NLRP5,RAB34,EPB41L3,TMEM25,KAZN,FAT1,VAC14,GNB1,CNTRL,MYO10,TRAPPC9,CHL1,MOB1B,WDR7,SGSM3,TFAP2E,STARD9,CARS,MYCBPAP,MKI67,KCNA2,HHEX,PTPRJ,NOL9,ARRDC4,DOCK1,C2CD2L,USP22,PTPRD,APH1B,NOL10,MYO1D,TGFBR2,NOVA1,SLC9A3,BICD1,ETS1,RPTOR,UQCC,IL16,ADGRG7,TRAF3IP2,GNAL,ROBO2,WNK4,MMS19,CAST,ZNF418,DNAH5,NRXN1,EPHA5,SYNE1,ANKRD30B,RPL15,QRFP,VPS37B,PEX14,CD200R1,FOXK1,GAS7,GP6,CASP10,CDC14B,ABCA1,PARVB,RERE,ANKRD17,LASP1,AP2A2,SSBP3,SCAI,BASP1,PLD1,NPL,CD79B,LSP1,MFN1,DPP10,PRKCA,SYNGR1,DENND1A,FIGN,TMPRSS9,ABR,FEZ1,RGL1,PPFIA4,SORCS1,LRRFIP1,PHYHIPL,IQSEC1,ZNF792,MLLT3,SIPA1L3 |
| GO:BP | head development | GO:0060322 | 0.029854 | 1.525002 | 787 | 275 | 29 | 17847 | DDX10,GABRA5,NRP1,IRS2,TRABD2A,CTTNBP2,DLC1,BTBD3,KIRREL3,FANCC,HERC1,CNTNAP2,MAP2K1,CDH22,TRAPPC9,MYO1D,TGFBR2,ETS1,ROBO2,DNAH5,NRXN1,EPHA5,MACROD2,RERE,SSBP3,BASP1,ABR,FEZ1,GSX1 |
| GO:CC | cell leading edge | GO:0031252 | 0.001243 | 2.90566 | 409 | 283 | 20 | 18842 | ABLIM3,FRMD4B,PRKCZ,MYLK,GABRA5,GABRA2,PALLD,DLC1,ACTN1,DUSP22,TPM1,CNTNAP2,EPB41L3,FAT1,MYO10,KCNA2,PTPRJ,MYO1D,ROBO2,PARVB |
| GO:CC | plasma membrane region | GO:0098590 | 0.001258 | 2.900262 | 1197 | 283 | 39 | 18842 | TACSTD2,SLC22A18,PRKCZ,MYLK,HTR2A,GABRA5,GABBR2,GABRA2,GRM7,DGKI,NRP1,ABCC4,CDH13,P2RX3,DLC1,IDE,MPDZ,KCNK2,TPM1,CNTNAP2,EPB41L3,FAT1,GNB1,MYO10,KCNA2,PTPRJ,C2CD2L,MYO1D,TGFBR2,SLC9A3,ROBO2,NRXN1,SYNE1,GRIK1,PLD1,DENND1A,SLC41A1,SIPA1L3,PEMT |
| GO:CC | actomyosin | GO:0042641 | 0.008084 | 2.092393 | 80 | 283 | 8 | 18842 | ABLIM3,PRKCZ,MYLK,LIMCH1,HDAC4,ACTN1,TPM1,SIPA1L3 |
| GO:CC | axon | GO:0030424 | 0.008544 | 2.068352 | 627 | 283 | 24 | 18842 | GAD1,PRKCZ,HTR2A,GABRA2,GRM7,DGKI,NRP1,PALLD,HCN1,P2RX3,KIRREL3,KCNK2,NCAM2,CNTNAP2,KCNA4,EPB41L3,KCNA2,MYO1D,ROBO2,NRXN1,EPHA5,BASP1,ABR,FEZ1 |
| GO:CC | actin cytoskeleton | GO:0015629 | 0.011723 | 1.930979 | 517 | 283 | 21 | 18842 | ABLIM3,PRKCZ,MYLK,CORO2B,PALLD,LIMCH1,MSRA,AHNAK,HDAC4,CTTNBP2,DLC1,MYO9B,ACTN1,DUSP22,TPM1,MYO10,MYO1D,PARVB,LASP1,LSP1,SIPA1L3 |
| GO:CC | axolemma | GO:0030673 | 0.018086 | 1.74266 | 15 | 283 | 4 | 18842 | CNTNAP2,EPB41L3,MYO1D,ROBO2 |
| GO:CC | contractile actin filament bundle | GO:0097517 | 0.021503 | 1.667492 | 68 | 283 | 7 | 18842 | ABLIM3,PRKCZ,MYLK,LIMCH1,ACTN1,TPM1,SIPA1L3 |
| GO:CC | stress fiber | GO:0001725 | 0.021503 | 1.667492 | 68 | 283 | 7 | 18842 | ABLIM3,PRKCZ,MYLK,LIMCH1,ACTN1,TPM1,SIPA1L3 |
| GO:CC | plasma membrane bounded cell projection | GO:0120025 | 0.027948 | 1.553651 | 2144 | 283 | 54 | 18842 | GAD1,ABLIM3,KCNN3,FRMD4B,PRKCZ,MYLK,HTR2A,GABRA5,GABBR2,PIP5K1B,GABRA2,GRM7,DNAH9,DGKI,NRP1,PALLD,HCN1,CDH13,P2RX3,CTTNBP2,DLC1,MPDZ,KIRREL3,KCNK2,IFT140,NCAM2,ACTN1,DUSP22,TPM1,CNTNAP2,KCNA4,RAB34,EPB41L3,FAT1,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,EPHA5,PARVB,BASP1,DENND1A,ABR,FEZ1,CD302,PEMT |
| GO:CC | plasma membrane bounded cell projection part | GO:0120038 | 0.034496 | 1.462229 | 1488 | 283 | 41 | 18842 | GAD1,PRKCZ,HTR2A,GABRA5,GABRA2,GRM7,DNAH9,DGKI,NRP1,PALLD,HCN1,P2RX3,CTTNBP2,DLC1,MPDZ,KIRREL3,KCNK2,IFT140,DUSP22,TPM1,CNTNAP2,KCNA4,EPB41L3,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,EPHA5,BASP1,DENND1A,ABR,FEZ1,PEMT |
| GO:CC | cell projection part | GO:0044463 | 0.034496 | 1.462229 | 1488 | 283 | 41 | 18842 | GAD1,PRKCZ,HTR2A,GABRA5,GABRA2,GRM7,DNAH9,DGKI,NRP1,PALLD,HCN1,P2RX3,CTTNBP2,DLC1,MPDZ,KIRREL3,KCNK2,IFT140,DUSP22,TPM1,CNTNAP2,KCNA4,EPB41L3,GNB1,CNTRL,MYO10,CHL1,KCNA2,PTPRJ,MYO1D,SLC9A3,RPTOR,ROBO2,DNAH5,NRXN1,EPHA5,BASP1,DENND1A,ABR,FEZ1,PEMT |
| GO:CC | potassium channel complex | GO:0034705 | 0.034776 | 1.458716 | 98 | 283 | 8 | 18842 | DPP6,HCN1,KCNK2,CNTNAP2,KCNA4,KCNA2,GRIK1,DPP10 |
| GO:CC | actin filament bundle | GO:0032432 | 0.040264 | 1.395078 | 75 | 283 | 7 | 18842 | ABLIM3,PRKCZ,MYLK,LIMCH1,ACTN1,TPM1,SIPA1L3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | cell junction | GO:00300 54 | 0.04862 | 1.313189 | 1312 | 283 | 37 | 18842 | FRMD4A,FRMD4B,PRKCZ,GABRA5,GABBR2,TMEM204,CORO2B,GABRA2,NRP1,FOXA2, LYN,PALLD,SLC7A2,AHNAK,CDH13,DLC1,MPDZ,ACTN1,CNTNAP2,MAP2K1,EPB41L3,K AZN,FAT1,SGSM3,KCNA2,PTPRJ,WNK4,NRXN1,EPHA5,GRIK1,PARVB,LASP1,BASP1,SY NGR1,DENND1A,ABR,SIPA1L3 |
| KEGG | GnRH secretion | KEGG:049 29 | 0.042931 | 1.367226 | 64 | 124 | 6 | 7772 | KCNN3,GABBR2,ITPR1,HCN1,MAP2K1,PRKCA |
| KEGG | Morphine addiction | KEGG:050 32 | 0.043239 | 1.364126 | 89 | 124 | 7 | 7772 | GABRA5,GABBR2,GABRA2,PDE8A,GNAI1,GNB1,PRKCA |
| KEGG | GABAergic synapse | KEGG:047 27 | 0.043239 | 1.364126 | 89 | 124 | 7 | 7772 | GAD1,GABRA5,GABBR2,GABRA2,GNAI1,GNB1,PRKCA |

| source | term_name | term_id | adjusted_p_value | negative_log10_of_adjusted_p_value | term_size | query_size | intersection_size | effective_domain_size | intersections |
|---|---|---|---|---|---|---|---|---|---|
| GO:MF | protein binding | GO:0005515 | 7.68E-05 | 4.114395 | 12715 | 758 | 595 | 18098 | FAAP20,ZNRF3,CTSB,LYN,MTUS1,SCIN,COL5A1,FARP2,GHITM,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,NMS,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,LRRC47,RFPL2,FMO1,CD86,MUC4,BACH1,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,RANBP6,PPIF,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,TG,L3MBTL4,DUS2,ITGB6,NRCAM,COLEC11,AKAP13,MIA3,PBRM1,CTSC,IL32,UBAC2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,TCEA2,MARCH10,MEGF6,EXOC4,LRCH3,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,EML6,AKAP12,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PARD6G,ABLIM3,PDIA6,FBXW8,BRDT,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,STK39,MGAT2,AIM2,EDDM3B,CCNL1,CTNNA3,MYO1B,AGTR1,USP36,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,BCAR3,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,IRF2,PITX2,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,DOCK10,ZEB2,FAM13C,LRP1,OSBPL6,OSBPL1A,PARVA,CDYL,TRIM2,NFATC2,HMG20A,MYH14,ADAP1,CALD1,C1ORF105,TTC28,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,CRTAC1,SPAG9,ABCG4,PPTC7,BICC1,RHEB,KLHL32,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,CRP,FMN1,AP1S3,MTHFD1L,CDH23,DNAJB6,VMP1,NFIL3,USP53,LGR5,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,APBB2,MTMR7,KCTD3,ANKRD46,PPP3CA,AHSP,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,TCF12,CADM1,WDR25,MYO7B,WWC2,THEMIS,IGF2BP2,TNFRSF19,PDE4B,EML1,TBCA,VSNL1,WEE1,EGFR,CD46,MAST4,BMP7,NPAS3,ZNF488,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,EMID1,RMDN3,MYO1E,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,KIF16B,SNAPIN,HDGFRP3,MICAL3,ZBTB32,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,C4BPB,NAALADL2,NLRP13,ARMC4,SLC8A1,TRAPPC3L,LPP,TAF1B,CD163,RPF2,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,PIP5K1B,FAM81B,UBE2D2,M |
| GO:MF | cytoskeletal protein binding | GO:0008092 | 0.000113 | 3.946428 | 984 | 758 | 76 | 18098 | MTSS1,LYN,MTUS1,SCIN,FARP2,NCK2,MYO7A,CDC42EP3,NRCAM,CCDC88A,NCALD,EML6,ABLIM3,CTNNA3,MYO1B,CAP2,FYN,PTPRC,CRK,RPH3AL,PARVA,MYH14,CALD1,ARHGEF10,SPAG9,FMN1,CDH23,EPS8,MAST2,LMO7,MYO7B,PDE4B,EML1,TBCA,EGFR,LIMA1,TUBGCP3,CLMN,MYLK,MYO1E,WASL,KIF16B,HDGFRP3,MICAL3,PPP2R2A,DST,SLC8A1,MACF1,BICD1,FBXO25,SGIP1,DIAPH3,CCR5,GAS7,TNNI3K,KIF13B,SHROOM3,DNM3,RAB3C,DAAM1,MAP6,TAGLN3,SHTN1,FARP1,MYO18B,SYNE2,ANK3,ACTR3,LIMCH1,FHDC1,HIP1,MYH8,TLN2,SYNE1,CACNA1C,PROM1 |
| GO:MF | Ras guanyl-nucleotide exchange factor activity | GO:0005088 | 0.00094 | 3.026832 | 139 | 758 | 20 | 18098 | FARP2,RAPGEF5,AKAP13,RASGRP4,ARHGEF38,DENND1A,ARHGEF10,RAPGEF1,EPS8,KALRN,TRAPPC3L,RASGRP3,SBF2,FGD5,NGEF,MCF2L2,ARHGEF28,FARP1,RAB3GAP2,DOCK1 |
| GO:MF | guanyl-nucleotide exchange factor activity | GO:0005085 | 0.001509 | 2.821281 | 222 | 758 | 26 | 18098 | FARP2,RAPGEF5,AKAP13,RASGRP4,ARHGEF38,BCAR3,DENND1A,DOCK4,DOCK10,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,TRAPPC3L,RASGRP3,SBF2,PSD3,FGD5,NGEF,MCF2L2,RALGPS2,ARHGEF28,FARP1,RAB3GAP2,DOCK1 |
| GO:MF | actin binding | GO:0003779 | 0.001619 | 2.790667 | 432 | 758 | 40 | 18098 | MTSS1,SCIN,MYO7A,CCDC88A,NCALD,ABLIM3,CTNNA3,MYO1B,CAP2,PARVA,MYH14,CALD1,FMN1,EPS8,MYO7B,EGFR,LIMA1,CLMN,MYLK,MYO1E,WASL,MICAL3,DST,MACF1,FBXO25,DIAPH3,CCR5,SHROOM3,DAAM1,TAGLN3,SHTN1,MYO18B,SYNE2,ACTR3,LIMCH1,FHDC1,HIP1,MYH8,TLN2,SYNE1 |
| GO:MF | enzyme binding | GO:0019899 | 0.003236 | 2.489968 | 2228 | 758 | 135 | 18098 | CDC42BPB,LYN,FARP2,RAPGEF5,GLDC,ATF7,CDC42EP3,ATP1B3,AKAP13,CTSC,FCRL6,CASS4,CCDC88A,EXOC4,TRAF1,AKAP12,RASGRP4,PARD3,CADPS,SOCS5,PARD6G,ARHGEF38,STK39,RAD23A,PKN2,FAF1,CUL3,MBP,CAP2,BCAR3,DENND1A,NOS1AP,FYN,IL31RA,PGAM1,DOCK4,PTPRC,CFLAR,CRK,PPP1CC,RPH3AL,DOCK10,LRP1,NFATC2,TTC28,IL1R1,ARHGEF10,SPAG9,RHEB,SMYD3,RAPGEF1,WDR70,EPS8,MAST2,PPP3CA,NR3C1,SH3RF2,NPLOC4,WWC2,EGFR,AKAP6,PDE4DIP,RAPGEF6,DLG2,KALRN,PITPNM3,KIF16B,MICAL3,PPP2R2A,TRAPPC3L,ANKLE2,MAGI2,PRKCH,UBE2D2,RASGRP3,PRKCB,SH3GL2,XRCC5,BICD1,SBF2,SFI1,PSD3,ERN1,USP6NL,CNTNAP2,PYHIN1,FGD5,CCNJL,DIAPH3,RNF19B,CEP192,GHR,RYR2,N4BP2L2,TNKS2,LIMS1,LDLR,KIF13B,WWOX,ANGPT2,PTGS2,NRP1,NGEF,MCF2L2,DNM3,RNF217,RALGPS2,EXOC2,HSPD1,RABGGTB,BCL2,JAK1,UHRF1BP1,DAAM1,ARHGEF28,FARP1,SH3RF1,ATP2A2,SERPINB13,CBLB,GMNN,LDB2,GRM5,PPP3CB,THRB,BCL11A,EIF2AK3,SYK,RAB3GAP2,RHOJ,TRPC4AP,SYNE1,YWHAE,MTA3,DOCK1 |
| GO:MF | actin filament binding | GO:0051015 | 0.014906 | 1.826634 | 194 | 758 | 22 | 18098 | SCIN,MYO7A,ABLIM3,CTNNA3,MYO1B,MYH14,MYO7B,EGFR,LIMA1,CLMN,MYO1E,WASL,MACF1,SHROOM3,TAGLN3,SHTN1,SYNE2,ACTR3,HIP1,MYH8,TLN2,SYNE1 |
| GO:MF | phosphatase binding | GO:0019902 | 0.024306 | 1.614285 | 186 | 758 | 21 | 18098 | CTSC,FCRL6,PARD3,PPP1CC,NFATC2,MAST2,SH3RF2,EGFR,PPP2R2A,ANKLE2,MAGI2,SBF2,SFI1,CEP192,GHR,BCL2,JAK1,PPP3CB,EIF2AK3,SYK,TRPC4AP |
| GO:MF | Ras GTPase binding | GO:0017016 | 0.046494 | 1.332605 | 431 | 758 | 36 | 18098 | CDC42BPB,FARP2,RAPGEF5,CDC42EP3,AKAP13,EXOC4,RASGRP4,PARD6G,ARHGEF38,PKN2,DENND1A,DOCK4,RPH3AL,ARHGEF10,RAPGEF1,EPS8,RAPGEF6,KALRN,KIF16B,MICAL3,TRAPPC3L,RASGRP3,BICD1,SBF2,USP6NL,FGD5,DIAPH3,NGEF,MCF2L2,EXOC2,RABGGTB,DAAM1,ARHGEF28,FARP1,RAB3GAP2,DOCK1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | anatomical structure morphogenesis | GO:0009653 | 6.22E-07 | 6.205893 | 2764 | 732 | 177 | 17847 | MTSS1,ZNRF3,COL5A1,SEMA6D,PAX5,MYO7A,CDC42EP3,MKKS,STK3,FBLN1,PSMB9,NRXN3,EMCN,NRCAM,AKAP13,MIA3,CASS4,DLC1,EXOC4,LAMA3,GPNMB,LRIG1,CHST11,ASPH,CPNE6,PARD3,FBXW8,NKD1,AGTR1,MIR21,MMRN2,INSR,CUL3,MBP,CAP2,BCAR3,GPC6,DDAH1,FYN,COL12A1,MMP15,PTPRD,CFLAR,CRK,PITX2,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,MYH14,EPHA5,FRMD6,FMN1,MTHFD1L,CDH23,DNAJB6,LGR5,AFF3,FGF1,EPS8,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,IGF2BP2,WEE1,EGFR,BMP7,FHL2,ADAMTS16,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,ROR1,HECW1,MAGI2,MACF1,PLXNC1,ADAMTS12,PRKCB,CASQ2,SH3GL2,BICD1,ATOH8,SMO,EYA3,SRPK2,CNTNAP2,RORA,ASTN2,FGD5,HOXA3,RARB,MIR196A1,MKLN1,GHR,GAS7,FBN1,RYR2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,JAK1,DAAM1,MAP6,COL18A1,TBX1,SHTN1,NFIB,SH3D19,FARP1,CNOT2,ADA,MYO18B,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,EIF2AK3,PTPRS,SYK,RHOJ,PSMF1,LAMA1,ZNF365,RBFOX2,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,DOCK1,PROM1 |
| GO:BP | cell development | GO:0048468 | 8.92E-07 | 6.049729 | 2196 | 732 | 148 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,MKKS,STK3,FBLN1,PI16,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,CHST11,PYGO1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CFAP43,FYN,COL12A1,PTPRD,PTPRC,CFLAR,CRK,PITX2,PPP1CC,DOCK10,ZEB2,LRP1,PARVA,CDYL,NFATC2,HMG20A,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,FRMD6,SMYD3,TNP1,CDH23,LGR5,RAPGEF1,CDK6,SLIT3,ICA1L,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,WEE1,EGFR,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,CASQ2,SH3GL2,XRCC5,SMO,BRIP1,CNTNAP2,RARB,OGDH,GLDN,GAS7,BMP3,FBN1,DOK5,LIMS1,LDLR,KIF13B,ANGPT2,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,NFIB,FARP1,ATP2A2,MYO18B,ANK3,LGR6,PPP3CB,KANK1,SULF2,THRB,BCL11A,EIF2AK3,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,DOCK1 |
| GO:BP | developmental process | GO:0032502 | 1.19E-06 | 5.924311 | 6449 | 732 | 344 | 17847 | A6D,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CASS4,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,RUNX1T1,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,CAP2,BCAR3,GPC6,DDAH1,RBM20,CFAP43,FYN,IL31RA,COL12A1,NAMPT,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,FRMD6,SMYD3,TNP1,KL,ATXN1,GRIN2B,CRP,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,KDM5A,EPS8,SETDB2,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,KMO,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MEST,MYLK,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,KYNU,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,BICD1,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,ASTN2,FGD5,EVC,UHRF2,SOX5,UNC13C,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,ARHGEF28,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,LDB2,NSRP1,GRM5,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,KRTAP4-1,RBM47,NSMCE2,DOCK1,PROM1,MACROD2 |
| GO:BP | generation of neurons | GO:0048699 | 2.66E-06 | 5.57542 | 1556 | 732 | 113 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,IDH2,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,CIT,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,SRRM4,CRTAC1,SPAG9,RHEB,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,SMO,CNTNAP2,RORA,SOX5,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,IGSF10,SHTN1,NFIB,FARP1,SH3RF1,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1 |
| GO:BP | cell morphogenesis | GO:0000902 | 2.82E-06 | 5.549086 | 1050 | 732 | 85 | 17847 | SEMA6D,MYO7A,CDC42EP3,STK3,FBLN1,NRXN3,NRCAM,CASS4,DLC1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CAP2,FYN,COL12A1,PTPRD,CRK,DOCK10,ZEB2,LRP1,PARVA,MYH14,EPHA5,FRMD6,CDH23,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,FGD5,MKLN1,GAS7,DOK5,LIMS1,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,SH3D19,FARP1,ANK3,PDZD8,LGR6,PPP3CB,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,DOCK1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | cellular developmental process | GO:0048869 | 4.03E-06 | 5.394453 | 4470 | 732 | 254 | 17847 | ARID1B,LHX6,MTSS1,IRF1,CTSB,LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,DLC1,LAMA3,ITK,GPNMB,MITF,RUNX1T1,CHST11,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,NKD1,AGTR1,MIR21,CIT,CUL3,IBSP,CAP2,CFAP43,FYN,IL31RA,COL12A1,NAMPT,MMP15,PTPRD,PTPRC,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CES1,FRMD6,SMYD3,TNP1,CRP,CDH23,DNAJB6,LGR5,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,EPS8,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,THEMIS,PALMD,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,FGD5,UHRF2,SOX5,RARB,OGDH,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,N4BP2L2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,NRP1,SHROOM3,NGEF,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,ARHGEF28,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,ANK3,PDZD8,SH2D2A,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,SPATA24,RHOJ,PSMF1,LAMA1,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,KRTAP4-1,RBM47,NSMCE2,DOCK1,PROM1 |
| GO:BP | cellular component morphogenesis | GO:0032989 | 6.14E-06 | 5.211583 | 1156 | 732 | 90 | 17847 | SEMA6D,MYO7A,CDC42EP3,STK3,FBLN1,NRXN3,NRCAM,AKAP13,CASS4,DLC1,CPNE6,PARD3,FBXW8,MIR21,CUL3,CAP2,FYN,COL12A1,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,PARVA,MYH14,EPHA5,FRMD6,CDH23,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,PALMD,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,ZPBP2,HECW1,MACF1,PLXNC1,CASQ2,SH3GL2,SMO,CNTNAP2,FGD5,MKLN1,GAS7,DOK5,LIMS1,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,SH3D19,FARP1,ANK3,PDZD8,LGR6,PPP3CB,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,DOCK1 |
| GO:BP | neurogenesis | GO:0022008 | 6.5E-06 | 5.187093 | 1656 | 732 | 117 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,IDH2,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,CIT,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,SMO,CNTNAP2,RORA,SOX5,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,SYNE2,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1 |
| GO:BP | cell projection organization | GO:0030030 | 1.3E-05 | 4.885235 | 1562 | 732 | 111 | 17847 | ARID1B,MTSS1,LYN,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,CDC42EP3,MKKS,STK3,PRKG1,NRXN3,DNAH9,CNTN1,NRCAM,CCDC88A,CEP83,CPNE6,PARD3,ABLIM3,FBXW8,MIR21,PKN2,INSR,CUL3,CFAP43,FYN,PTPRD,CFLAR,CRK,PIBF1,DOCK10,ZEB2,LRP1,PARVA,EPHA5,CRTAC1,GRIN2B,CDH23,RAPGEF1,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,LIMA1,ADAMTS16,CLMN,RAPGEF6,MYLK,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ARMC4,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,SFI1,CNTNAP2,FGD5,PCNT,MIR196A1,GLDN,CEP192,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,ARMC9,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,SYNE2,ANK3,ACTR3,FHDC1,LGR6,PPP3CB,KANK1,NPHP1,BCL11A,PTPRS,RHOJ,LAMA1,YWHAE,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | anatomical structure development | GO:0048856 | 1.77E-05 | 4.752476 | 6028 | 732 | 320 | 17847 | NINJ2,ARID1B,LHX6,MTSS1,IRF1,ZNRF3,CTSB,LYN,DCHS2,SCIN,COL5A1,FARP2,SEMA6D,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,CDC42EP3,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CASS4,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,CAP2,BCAR3,GPC6,DDAH1,RBM20,CFAP43,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,CDYL,DTYMK,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,FRMD6,SMYD3,TNP1,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,FGF1,KDM5A,EPS8,SETDB2,SLIT3,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,THEMIS,PALMD,IGF2BP2,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MEST,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,BICD1,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,ASTN2,FGD5,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,MKLN1,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,SH3D19,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2 |

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| GO:BP | cell adhesion | GO:0007155 | 1.82E-05 | 4.740592 | 1421 | 732 | 103 | 17847 | NINJ2,MTSS1,IRF1,LYN,DCHS2,COL5A1,FARP2,NEGR1,TENM2,NCK2,CD86,MUC4,LAMA4,FBLN1,PRKG1,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,MIA3,IL32,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,PARD3,SOCS5,ADAMTS18,CTNNA3,MIR21,PKN2,FAF1,MBP,IBSP,GPC6,APBB1IP,FYN,COL12A1,FAM49B,PTPRD,PTPRC,CRK,ADTRP,LRP1,PARVA,HMCN1,ITGAL,FMN1,CDH23,DNAJB6,VMP1,RAPGEF1,CDK6,PPP3CA,DAB1,LMO7,CADM1,EGFR,CD46,BMP7,DLG2,EFNA5,DST,FAT3,LPP,MACF1,PLXNC1,ADAMTS12,CNTNAP2,PKD1L1,GLDN,MKLN1,IL23R,FBN1,LIMS1,CLDN10,ANGPT2,KIRREL3,NRP1,MEGF11,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,COL18A1,PARD3B,ADAM23,ATP2A2,ADA,ANK3,LIMCH1,KANK1,NPHP1,PTPRS,SYK,TLN2,LAMA1,PGM5,DOCK1 |
| GO:BP | neuron development | GO:0048666 | 2.07E-05 | 4.685006 | 1131 | 732 | 87 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,FYN,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,EPHA5,SRRM4,CRTAC1,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,OGDH,GLDN,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,THRB,BCL11A,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | biological adhesion | GO:0022610 | 2.35E-05 | 4.628787 | 1428 | 732 | 103 | 17847 | NINJ2,MTSS1,IRF1,LYN,DCHS2,COL5A1,FARP2,NEGR1,TENM2,NCK2,CD86,MUC4,LAMA4,FBLN1,PRKG1,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,MIA3,IL32,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,PARD3,SOCS5,ADAMTS18,CTNNA3,MIR21,PKN2,FAF1,MBP,IBSP,GPC6,APBB1IP,FYN,COL12A1,FAM49B,PTPRD,PTPRC,CRK,ADTRP,LRP1,PARVA,HMCN1,ITGAL,FMN1,CDH23,DNAJB6,VMP1,RAPGEF1,CDK6,PPP3CA,DAB1,LMO7,CADM1,EGFR,CD46,BMP7,DLG2,EFNA5,DST,FAT3,LPP,MACF1,PLXNC1,ADAMTS12,CNTNAP2,PKD1L1,GLDN,MKLN1,IL23R,FBN1,LIMS1,CLDN10,ANGPT2,KIRREL3,NRP1,MEGF11,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,COL18A1,PARD3B,ADAM23,ATP2A2,ADA,ANK3,LIMCH1,KANK1,NPHP1,PTPRS,SYK,TLN2,LAMA1,PGM5,DOCK1 |
| GO:BP | nervous system development | GO:0007399 | 3.7E-05 | 4.431349 | 2400 | 732 | 152 | 17847 | NINJ2,ARID1B,LHX6,LYN,FARP2,SEMA6D,RAPGEF5,NEGR1,MYT1,PAX5,TENM2,NCK2,MYO7A,ZNF423,MKKS,STK3,PRKG1,NRXN3,CNTN1,TG,NRCAM,IDH2,CTSC,CCDC88A,DLC1,LRIG1,SYNDIG1,FBXL17,CPNE6,PARD3,FBXW8,NKD1,IMMP2L,CIT,MCPH1,MBP,SLC25A12,GPC6,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,ATXN1,GRIN2B,MTHFD1L,CDH23,RAPGEF1,CDK6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,EML1,WEE1,EGFR,BMP7,ZNF488,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,SH3GL2,XRCC5,ATOH8,SBF2,SMO,CNTNAP2,RORA,NAIP,SOX5,HOXA3,RARB,OGDH,GLDN,GAS7,DOK5,LDLR,KIF13B,KIRREL3,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,TBX1,TAGLN3,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,ADAM23,SYNE2,NRG4,ANK3,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,BCL11A,EIF2AK3,PTPRS,TMC1,LAMA1,YWHAE,ZNF365,RBFOX2,PRKCG,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1,MACROD2 |
| GO:BP | neuron differentiation | GO:0030182 | 4.89E-05 | 4.310666 | 1392 | 732 | 100 | 17847 | ARID1B,LHX6,LYN,FARP2,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,NKD1,FYN,PTPRD,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,HMG20A,EPHA5,SRRM4,CRTAC1,SPAG9,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,TCF12,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,EDN3,SH3GL2,SMO,CNTNAP2,RORA,RARB,OGDH,GLDN,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,THRB,HIPK2,BCL11A,PTPRS,TMC1,LAMA1,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,GPM6A,SDC2,PROM1 |
| GO:BP | regulation of cell morphogenesis | GO:0022604 | 6.38E-05 | 4.195318 | 493 | 732 | 48 | 17847 | SEMA6D,CDC42EP3,FBLN1,NRCAM,CASS4,DLC1,CPNE6,FBXW8,MIR21,FYN,PTPRD,CRK,ZEB2,LRP1,PARVA,MYH14,EPS8,PPP3CA,DAB1,PALMD,KALRN,EFNA5,HECW1,MACF1,PLXNC1,FGD5,MKLN1,LIMS1,KIF13B,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,MAP6,SHTN1,SH3D19,PDZD8,KANK1,ZMYM4,ARHGAP15,BCL11A,PTPRS,RHOJ,WNT7A,SDC2,DOCK1 |
| GO:BP | cell differentiation | GO:0030154 | 8.32E-05 | 4.079805 | 4279 | 732 | 239 | 17847 | ARID1B,LHX6,MTSS1,IRF1,CTSB,LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,NRCAM,AKAP13,IDH2,CASS4,CCDC88A,LAMA3,ITK,GPNMB,MITF,RUNX1T1,CHST11,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,NKD1,AGTR1,MIR21,CIT,CUL3,IBSP,CFAP43,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,CFLAR,CRK,PITX2,TRAPPC9,PPP1CC,DOCK10,ZEB2,LRP1,CCDC3,PARVA,CDYL,DTYMK,NFATC2,HMG20A,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,RHEB,CES1,FRMD6,SMYD3,TNP1,CRP,CDH23,DNAJB6,LGR5,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,STEAP4,MYO7B,THEMIS,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,CLMN,KALRN,EFNA5,RMDN3,MYO1E,WASL,TGFBR3,ZPBP2,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,UHRF2,SOX5,RARB,OGDH,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,N4BP2L2,DOK5,LIMS1,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,NRP1,SHROOM3,NGEF,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,MAP6,COL18A1,TBX1,IGSF10,SHTN1,ARHGEF28,NFIB,FARP1,NAV2,SH3RF1,CNOT2,ATP2A2,ADA,CR2,MYO18B,SERPINB13,SYNE2,ANK3,SH2D2A,NR5A2,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,SPATA24,PSMF1,LAMA1,SYNE1,YWHAE,ZNF365,RBFOX2,EHF,TCF4,HSPE1,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,PGM5,KRTAP4-1,RBM47,DOCK1,PROM1 |
| GO:BP | plasma membrane bounded cell projection organization | GO:0120036 | 9.06E-05 | 4.042877 | 1523 | 732 | 106 | 17847 | ARID1B,MTSS1,LYN,SEMA6D,NEGR1,TENM2,NCK2,MYO7A,CDC42EP3,MKKS,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CEP83,CPNE6,PARD3,ABLIM3,FBXW8,INSR,CFAP43,FYN,PTPRD,CFLAR,CRK,PIBF1,DOCK10,ZEB2,LRP1,PARVA,EPHA5,CRTAC1,GRIN2B,CDH23,RAPGEF1,EPS8,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,LIMA1,ADAMTS16,CLMN,RAPGEF6,MYLK,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ARMC4,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,SFI1,CNTNAP2,FGD5,PCNT,MIR196A1,GLDN,CEP192,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,ARMC9,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,SYNE2,ANK3,ACTR3,FHDC1,LGR6,PPP3CB,KANK1,NPHP1,BCL11A,PTPRS,LAMA1,YWHAE,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:BP | actin filament-based process | GO:0030029 | 0.000148 | 3.829129 | 771 | 732 | 64 | 17847 | CDC42BPB,MTSS1,SCIN,FARP2,NCK2,MYO7A,CDC42EP3,MKKS,PRKG1,AKAP13,CASS4,CCDC88A,DLC1,ABLIM3,CTNNA3,MYO1B,MIR21,CIT,CUL3,CAP2,NOS1AP,CFLAR,CRK,LRP1,PARVA,SCN1A,MYH14,EPHA5,ARHGEF10,FRMD6,FMN1,DNAJB6,EPS8,PDE4B,ARHGAP25,LIMA1,EFNA5,MYO1E,WASL,MICAL3,CASQ2,FGD5,DIAPH3,MKLN1,RYR2,SH3PXD2B,NRP1,SHROOM3,BCL2,DAAM1,SHTN1,FARP1,ATP2A2,SYNE2,ACTR3,LIMCH1,FHDC1,KANK1,NPHP1,HIP1,MYH8,RHOJ,PGM5,CACNA1C |
| GO:BP | neuron projection development | GO:0031175 | 0.000182 | 3.739171 | 1004 | 732 | 77 | 17847 | ARID1B,LYN,SEMA6D,NEGR1,NCK2,MYO7A,STK3,PRKG1,NRXN3,CNTN1,NRCAM,CCDC88A,CPNE6,PARD3,FBXW8,FYN,PTPRD,CFLAR,CRK,DOCK10,ZEB2,LRP1,EPHA5,CRTAC1,CDH23,RAPGEF1,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,CLMN,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | multicellular organism development | GO:0007275 | 0.000187 | 3.728717 | 5532 | 732 | 293 | 17847 | NINJ2,ARID1B,LHX6,MTSS1,IRF1,ZNRF3,CTSB,LYN,DCHS2,SCIN,COL5A1,FARP2,SEMA6D,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,CCDC88A,DLC1,SCUBE2,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,DDAH1,RBM20,FYN,IL31RA,COL12A1,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,TNP1,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,VMP1,LGR5,AFF3,RAPGEF1,KIAA1109,CDK6,FGF1,KDM5A,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,CADM1,THEMIS,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,ASAP1,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,SH3GL2,XRCC5,ATOH8,SBF2,SMO,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,RORA,NAIP,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,PKD1L1,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,DOK5,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,WDFY3,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,TRERF1,SPATA24,RHOJ,PSMF1,LAMA1,TRPC4AP,YWHAE,ZNF365,RBFOX2,EHF,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2 |
| GO:BP | system development | GO:0048731 | 0.000194 | 3.711582 | 4967 | 732 | 268 | 17847 | NINJ2,ARID1B,LHX6,MTSS1,IRF1,ZNRF3,CTSB,LYN,DCHS2,SCIN,COL5A1,FARP2,SEMA6D,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MYO7A,ZNF423,MKKS,STK3,AHR,LAMA4,PI16,PSMB9,PRKG1,NRXN3,CNTN1,EMCN,TG,NRCAM,AKAP13,IDH2,MIA3,CTSC,CCDC88A,DLC1,EXOC4,LAMA3,ITK,GPNMB,MITF,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,IMMP2L,AGTR1,MIR21,MMRN2,CIT,MCPH1,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,DDAH1,RBM20,FYN,IL31RA,COL12A1,PTPRD,PTPRC,TNS3,CFLAR,CRK,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,HMG20A,MYH14,PIP4K2A,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,KL,ATXN1,GRIN2B,FMN1,MTHFD1L,CDH23,DNAJB6,LGR5,RAPGEF1,CDK6,FGF1,KDM5A,SETDB2,SLIT3,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,DAB1,TCF12,THEMIS,TNFRSF19,EML1,TOX,WEE1,EGFR,CD46,BMP7,ZNF488,FHL2,AKAP6,ADAMTS16,CLMN,MYLK,KALRN,EFNA5,MYO1E,WASL,TGFBR3,SNAPIN,HDGFRP3,ASAP1,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,SH3GL2,XRCC5,ATOH8,SBF2,SMO,KRT20,BRIP1,SRPK2,CNTNAP2,RORA,NAIP,EVC,SOX5,HOXA3,TAB2,RARB,MIR196A1,OGDH,GLDN,IL23R,HIVEP3,GHR,GAS7,BMP3,FBN1,RYR2,N4BP2L2,DOK5,KLK5,SH3PXD2B,LDLR,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,HSPD1,EDNRB,BCL2,JAK1,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,FARP1,NAV2,SH3RF1,ADAM23,ADA,CR2,MYO18B,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,NR5A2,LGR6,PPP3CB,KANK1,SULF2,THRB,HIPK2,NPHP1,BCL11A,EIF2AK3,PTPRS,NFAM1,LCE2A,TMC1,SYK,RHOJ,PSMF1,LAMA1,TRPC4AP,YWHAE,ZNF365,RBFOX2,PRKCG,TCF4,IMPAD1,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,KRTAP4-1,RBM47,DOCK1,PROM1,MACROD2 |
| GO:BP | regulation of anatomical structure morphogenesis | GO:0022603 | 0.000199 | 3.700656 | 1170 | 732 | 86 | 17847 | ZNRF3,COL5A1,SEMA6D,CDC42EP3,FBLN1,PSMB9,NRCAM,AKAP13,CASS4,DLC1,GPNMB,CPNE6,FBXW8,NKD1,AGTR1,MIR21,MMRN2,MBP,GPC6,DDAH1,FYN,PTPRD,CFLAR,CRK,ZEB2,LRP1,PARVA,NFATC2,MYH14,FGF1,EPS8,PPP3CA,DAB1,PALMD,BMP7,KALRN,EFNA5,ROR1,HECW1,MAGI2,MACF1,PLXNC1,ADAMTS12,PRKCB,SMO,FGD5,MIR196A1,MKLN1,LIMS1,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,JAK1,DAAM1,MAP6,TBX1,SHTN1,NFIB,SH3D19,ADA,MLLT3,PDZD8,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,PTPRS,RHOJ,PSMF1,TCF4,CHRNA7,WNT7A,SDC2,DOCK1 |
| GO:BP | movement of cell or subcellular component | GO:0006928 | 0.000215 | 3.667019 | 2221 | 732 | 140 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MYO7A,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,NRXN3,DNAH9,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,CTNNA3,MYO1B,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,NOS1AP,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,SCN1A,NFATC2,MYH14,IL1R1,EPHA5,SPAG9,FRMD6,ITGAL,TNP1,CDK6,FGF1,EPS8,SLIT3,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,DLG2,EFNA5,MYO1E,S100A12,WASL,TGFBR3,KIF16B,SNAPIN,DST,ARMC4,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,BICD1,ATOH8,SMO,MIR196A1,OGDH,CCR5,RYR2,PTP4A3,DOK5,KIF13B,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,NFIB,SH3RF1,ATP2A2,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,MYH8,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,CACNA1C,DOCK1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | plasma membrane bounded cell projection morphogenesis | GO:0120039 | 0.000267 | 3.574112 | 681 | 732 | 58 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | neuron projection morphogenesis | GO:0048812 | 0.000308 | 3.512049 | 667 | 732 | 57 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | cell projection morphogenesis | GO:0048858 | 0.000325 | 3.487554 | 685 | 732 | 58 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | intracellular signal transduction | GO:0035556 | 0.000351 | 3.455098 | 2880 | 732 | 171 | 17847 | CDC42BPB,LYN,FARP2,RAPGEF5,NCK2,CD86,CDC42EP3,EFCAB11,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,AKAP13,CCDC88A,NCALD,DLC1,ITK,GPNMB,AKAP12,CCL5,RASGRP4,SOCS5,ARHGEF38,MAP4K3,STK39,AGTR1,MIR21,CIT,PKN2,INSR,CUL3,MBP,BCAR3,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,DOCK4,NPFFR2,FAM13A,PTPRC,TNS3,CFLAR,CRK,LHCGR,ADTRP,DOCK10,ZEB2,LRP1,NFATC2,PIP4K2A,SGMS1,EPHA5,ARHGEF10,SPAG9,RHEB,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,FGF1,EPS8,MAST2,APBB2,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,WWC2,TNFRSF19,PLCH1,ARHGAP25,EGFR,MAST4,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,DLG2,KALRN,S100A12,TGFBR3,SLC8A1,RPF2,ROR1,MAGI2,PRKCH,PIP5K1B,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SMO,BRIP1,PSD3,ERN1,SRPK2,PYHIN1,RORA,PPP1R1C,FGD5,TAOK3,UNC13C,ARHGAP32,TAB2,CCR5,GHR,BMP3,RYR2,PTP4A3,DOK5,LIMS1,WWOX,PTGS2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,SEMA6A,RALGPS2,EDNRB,GNAL,BCL2,JAK1,RAB3C,TBX1,SHTN1,ARHGEF28,GNG2,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,MCTP1,NRG4,PDZD8,GRM5,NR5A2,PPP3CB,KANK1,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTGER3,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,PRKCG,C8ORF44,CHRNA7,ARHGAP19,WNT7A,CACNA1C,PDE11A,DOCK1 |
| GO:BP | cell part morphogenesis | GO:0032990 | 0.000377 | 3.423153 | 705 | 732 | 59 | 17847 | SEMA6D,STK3,NRXN3,NRCAM,CPNE6,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,MYH14,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,WEE1,EGFR,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SH3GL2,SMO,CNTNAP2,GAS7,DOK5,KIF13B,KIRREL3,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,BCL11A,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,GPM6A,SDC2 |
| GO:BP | localization of cell | GO:0051674 | 0.000508 | 3.293731 | 1752 | 732 | 115 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1 |
| GO:BP | cell motility | GO:0048870 | 0.000508 | 3.293731 | 1752 | 732 | 115 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1 |
| GO:BP | regulation of catalytic activity | GO:0050790 | 0.00055 | 3.259432 | 2338 | 732 | 144 | 17847 | PPP4R2,CTSB,LYN,PRPSAP2,NCK2,TNFAIP8,MKKS,STK3,FBLN1,PI16,PPIF,PSMB9,ATP1B3,PRKG1,DUS2,AKAP13,CASS4,CCDC88A,DLC1,ITK,ASPH,CCL5,RASGRP4,SOCS5,MAP4K3,GPR87,STK39,AIM2,CCNL1,AGTR1,MIR21,MCPH1,FAF1,INSR,MBP,CAP2,DENND1A,DDAH1,NOS1AP,FYN,SMR3A,DOCK4,NPFFR2,FAM13A,MMP15,PTPRC,CFLAR,CRK,LHCGR,PIBF1,DOCK10,ZEB2,LRP1,ADAP1,EPHA5,ARHGEF10,SPAG9,PPP1R14C,SMYD3,RALGAPA2,GRIN2B,DNAJB6,LGR5,RAPGEF1,FGF1,KDM5A,SH3RF2,RGS6,DAB1,NEK10,PDC,ARHGAP25,EGFR,BMP7,RAPGEF6,RASAL2,DLG2,KALRN,EFNA5,S100A12,EIF4A2,MTRR,WASL,PPP2R2A,ASAP1,ANKLE2,MAGI2,PLXNC1,EDN3,RASGRP3,XRCC5,BICD1,SBF2,SFI1,NAF1,ERN1,USP6NL,NAIP,PPP1R1C,FGD5,CCNJL,TAOK3,ITIH4,ARHGAP32,TAB2,RIMBP2,IL23R,CEP192,GHR,LIMS1,SH3PXD2B,PKIB,PTGS2,NRP1,NGEF,PLXNA4,P2RX1,HSPD1,EDNRB,BCL2,DNAJC15,PTPRN2,FARP1,SH3RF1,SERPINB13,CBLB,ARRDC4,LDB2,GRM5,ARHGAP15,HIP1,EIF2AK3,ARAP2,SYK,PKIG,RAB3GAP2,PPM1H,PSMF1,YWHAE,HSPE1,CHRNA7,ARHGAP19,CACNA1C,DOCK1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | regulation of developmental process | GO:0050793 | 0.000854 | 3.068474 | 2729 | 732 | 162 | 17847 | IRF1,ZNRF3,LYN,SCIN,COL5A1,SEMA6D,NEGR1,CD86,CDC42EP3,MKKS,STK3,LAMA4,FBLN1,PI16,PSMB9,CNTN1,TG,NRCAM,AKAP13,IDH2,CTSC,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,RUNX1T1,SYNDIG1,CPNE6,PARD3,SOCS5,FBXW8,NKD1,AGTR1,MIR21,MMRN2,INSR,MBP,SLC25A12,GPC6,DDAH1,FYN,NAMPT,PTPRD,PTPRC,CFLAR,CRK,PPP1CC,ZEB2,LRP1,CCDC3,PARVA,NFATC2,HMG20A,MYH14,SPAG9,RHEB,KL,CRP,RAPGEF1,KIAA1109,CDK6,JDP2,FGF1,EPS8,B4GALT5,PPP3CA,SLIT1,DAB1,TCF12,WWC2,PALMD,TOX,EGFR,CD46,BMP7,ZNF488,AKAP6,KALRN,EFNA5,TGFBR3,SNAPIN,ASAP1,SLC8A1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,XRCC5,ATOH8,SMO,RORA,FGD5,SOX5,RARB,MIR196A1,MKLN1,IL23R,GHR,FBN1,N4BP2L2,TRIP12,TNKS2,LIMS1,SH3PXD2B,LDLR,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,JAK1,DAAM1,MAP6,TBX1,IGSF10,SHTN1,NFIB,SH3D19,FARP1,SH3RF1,CNOT2,ADA,SERPINB13,MLLT3,PDZD8,KANK1,ZMYM4,SULF2,THRB,ARHGAP15,HIPK2,BCL11A,EIF2AK3,PTPRS,NFAM1,SYK,RHOJ,PSMF1,LAMA1,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,SDC2,DOCK1,PROM1 |
| GO:BP | cell migration | GO:0016477 | 0.001738 | 2.759897 | 1597 | 732 | 105 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,LAMA4,ATP1B3,PRKG1,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,SPAG9,ITGAL,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,S100A12,WASL,TGFBR3,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,SH3RF1,ADA,MCTP1,SYNE2,LDB2,LIMCH1,LGR6,KANK1,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1 |
| GO:BP | multicellular organismal process | GO:0032501 | 0.002494 | 2.603147 | 7775 | 732 | 382 | 17847 | A6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,MYO7A,SCNN1D,ZNF423,MKKS,STK3,SEC24D,AHR,LAMA4,FBLN1,PI16,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TG,ITGB6,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,KCNMB2,CCDC88A,NCALD,DLC1,SCUBE2,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,FBXL17,AKAP12,CELF2,ASPH,RASGRP4,CPNE6,PARD3,SOCS5,FBXW8,BRDT,ADAMTS18,OR2F1,NKD1,STK39,IMMP2L,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,MCPH1,PKN2,INSR,CUL3,MBP,IBSP,SLC25A12,BCAR3,GPC6,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,SMR3A,IL31RA,COL12A1,NAMPT,FAM49B,DOCK4,MMP15,PTPRD,PTPRC,TNS3,CFLAR,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,ADTRP,PIEZO2,DOCK10,ZEB2,LRP1,PARVA,CDYL,SCN1A,CSMD1,NFATC2,HMG20A,MYH14,PIP4K2A,CALD1,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,BICC1,RHEB,CES1,HMCN1,TNP1,KL,ATXN1,GRIN2B,CRP,FMN1,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,USP53,LGR5,AFF3,RAPGEF1,IL5RA,KIAA1109,CDK6,ALDH7A1,FGF1,KDM5A,EPS8,SETDB2,SLIT3,MAST2,ICA1L,B4GALT5,APBB2,PPP3CA,AHSP,SLIT1,NPLOC4,DAB1,CACNB4,TCF12,CADM1,WWC2,THEMIS,IGF2BP2,TNFRSF19,PDE4B,EML1,TOX,WEE1,PDC,EGFR,CD46,BMP7,ZNF488,LIMA1,FHL2,AKAP6,ADAMTS16,CLMN,FCN1,MYLK,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,ZPBP2,KIF16B,SNAPIN,HDGFRP3,ASAP1,C4BPB,FAT3,ARMC4,SLC8A1,ANKLE2,ROR1,HECW1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,XRCC5,ATOH8,VPS45,SBF2,SMO,ZBTB20,KRT20,BRIP1,EYA3,SRPK2,CNTNAP2,TGIF1,PYHIN1,RORA,NAIP,EVC,SOX5,SGIP1,HOXA3,OR51B5,ATAD1,TAB2,RARB,NCOA2,MIR196A1,OGDH,PKD1L1,GLDN,IL23R,HIVEP3,GHR,OR6C70,GAS7,BMP3,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,PTP4A3,DOK5,KLK5,SH3PXD2B,TNNI3K,LDLR,KIF13B,WWOX,ANGPT2,M1AP,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,NGEF,MEGF11,ATF3,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,RUNX1,JMJD1C,HSPD1,EDNRB,RABGGTB,BCL2,WDFY3,JAK1,ABCC9,DAAM1,MAP6,COL18A1,TBX1,TAGLN3,ODC1,IGSF10,SHTN1,NFIB,GNG2,OR52E8,FARP1,NAV2,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,MYO18B,OR13G1,SERPINB13,SYNE2,NRG4,ANK3,MLLT3,SH2D2A,GMNN,LDB2,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ZMYM4,SULF2,THRB,HIPK2,NPHP1,BCL1 |
| GO:BP | response to stimulus | GO:0050896 | 0.003168 | 2.499164 | 9379 | 732 | 447 | 17847 | ATP8B4,LYN,MTUS1,COL5A1,FARP2,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,ZFAND2A,NMS,REG4,PAX5,TENM2,NCK2,FMO1,CD86,MUC4,BACH1,RYR3,GLDC,ADRBK2,SCNN1D,CDC42EP3,ZNF423,EFCAB11,SLC15A4,MKKS,STK3,AHR,ABCA13,FBLN1,PI16,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,SLC36A1,NRCAM,COLEC11,AKAP13,MIA3,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,OR10G2,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,AIM2,AGTR1,MIR21,MMRN2,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,IBSP,SLC25A12,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,WDR33,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,NPFFR2,FAM13A,MMP15,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PPP1CC,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,DTYMK,SCN1A,CSMD1,NFATC2,ADAP1,PIP4K2A,SGMS1,HNRNPF,DEFB132,IL1R1,EPHA5,ARHGEF10,SPAG9,ABCG4,GPR156,BICC1,RHEB,CES1,HMCN1,ITGAL,SMYD3,TNP1,KL,RALGAPA2,GRIN2B,CRP,CDH23,DNAJB6,NFIL3,USP53,LGR5,AFF3,RAPGEF1,WDR70,IL5RA,CDK6,TAP1,FGF1,EPS8,MTAP,TMEM229B,SLIT3,MAST2,ADSS,APBB2,PPP3CA,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,NEK10,TCF12,CADM1,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,ST6GAL1,PKD1L2,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,MYO1E,RCHY1,S100A12,EIF4A2,TAS2R38,WASL,TGFBR3,KIF16B,HDGFRP3,PPP2R2A,SORCS1,PTPN5,DST,C4BPB,NAALADL2,SLC8A1,CD163,RPF2,ROR1,HECW1,MAGI2,PRKCH,MGAM,PIP5K1B,UBE2D2,MACF1,PLXNC1,DPP8,KYNU,ADAMTS12,EDN3,RASGRP3,SCAMP1,GPX5,PRKCB,CASQ2,ADGRD1,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,VPS45,SMO,ZBTB20,KRT20,BRIP1,EYA3,SPIDR,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,TGIF1,PYHIN1,RORA,NAIP,GNLY,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,SOX5,SGIP1,UNC13C,CAMKMT,OR51B5,ITIH4,ARHGAP32,PCNT,TAB2,RARB,FER1L6,NCOA2,CPNE4,MIR196A1,PKD1L1,RNF19B,MKLN1,CCR5,IL23R,CEP192,GHR,OR6C70,BMP3,FBN1,RYR2,TRIP12,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SHMT1,LDLR,KIF13B |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | locomotion | GO:0040011 | 0.003606 | 2.443018 | 1983 | 732 | 123 | 17847 | CDC42BPB,LHX6,LYN,MTUS1,COL5A1,SEMA6D,NCK2,MKKS,LAMA4,FBLN1,DDX4,ATP1B3,PRKG1,NRXN3,ITGB6,NRCAM,IDH2,MIA3,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,AGTR1,MIR21,MMRN2,PKN2,INSR,CUL3,GPC6,CFAP43,FYN,DOCK4,PTPRC,TNS3,CRK,PITX2,ADTRP,DOCK10,ZEB2,LRP1,PARVA,NFATC2,IL1R1,EPHA5,SPAG9,ITGAL,TNP1,CDK6,FGF1,EPS8,SLIT3,APBB2,PPP3CA,SH3RF2,SLIT1,DAB1,PDE4B,EGFR,BMP7,LIMA1,MYLK,EFNA5,S100A12,WASL,TGFBR3,DST,SLC8A1,MAGI2,MACF1,PLXNC1,ADAMTS12,EDN3,ATOH8,SMO,MIR196A1,OGDH,CCR5,PTP4A3,DOK5,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,EDNRB,BCL2,COL18A1,TBX1,IGSF10,SHTN1,NFIB,SH3RF1,ADA,MCTP1,SYNE2,NRG4,ACTR3,LDB2,LIMCH1,LGR6,PPP3CB,KANK1,PLGRKT,FCAMR,SYK,RHOJ,LAMA1,YWHAE,RBFOX2,C8ORF44,WNT7A,GPM6A,SDC2,DOCK1 |
| GO:BP | actin cytoskeleton organization | GO:0030036 | 0.004097 | 2.387533 | 670 | 732 | 54 | 17847 | CDC42BPB,MTSS1,SCIN,FARP2,NCK2,CDC42EP3,MKKS,PRKG1,AKAP13,CASS4,CCDC88A,DLC1,ABLIM3,MYO1B,MIR21,CIT,CUL3,CAP2,NOS1AP,CFLAR,CRK,LRP1,PARVA,MYH14,EPHA5,ARHGEF10,FRMD6,FMN1,DNAJB6,EPS8,ARHGAP25,LIMA1,EFNA5,WASL,MICAL3,CASQ2,FGD5,DIAPH3,MKLN1,SH3PXD2B,NRP1,SHROOM3,BCL2,DAAM1,SHTN1,FARP1,ACTR3,LIMCH1,FHDC1,KANK1,NPHP1,HIP1,RHOJ,PGM5 |
| GO:BP | cell morphogenesis involved in differentiation | GO:0000904 | 0.004144 | 2.38263 | 758 | 732 | 59 | 17847 | SEMA6D,MYO7A,FBLN1,NRXN3,NRCAM,CASS4,PARD3,FBXW8,CUL3,FYN,COL12A1,PTPRD,CRK,DOCK10,ZEB2,LRP1,PARVA,EPHA5,FRMD6,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SMO,DOK5,LIMS1,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,COL18A1,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,KANK1,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,SDC2,DOCK1 |
| GO:BP | regulation of cellular component movement | GO:0051270 | 0.004383 | 2.35824 | 1107 | 732 | 78 | 17847 | LYN,MTUS1,SEMA6D,MKKS,LAMA4,FBLN1,PRKG1,IDH2,MIA3,CASS4,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,CTNNA3,MIR21,MMRN2,PKN2,INSR,NOS1AP,DOCK4,PTPRC,CRK,ADTRP,DOCK10,LRP1,IL1R1,SPAG9,CDK6,FGF1,PPP3CA,SH3RF2,PDE4B,EGFR,BMP7,MYLK,WASL,TGFBR3,ARMC4,SLC8A1,MAGI2,MACF1,PLXNC1,EDN3,ATOH8,SMO,MIR196A1,RYR2,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,BCL2,COL18A1,IGSF10,SHTN1,ATP2A2,ADA,MCTP1,SYNE2,NRG4,LDB2,LIMCH1,LGR6,KANK1,RHOJ,LAMA1,C8ORF44,WNT7A,CACNA1C,DOCK1 |
| GO:BP | regulation of multicellular organismal development | GO:2000026 | 0.004988 | 2.302089 | 2180 | 732 | 132 | 17847 | IRF1,ZNRF3,LYN,SCIN,COL5A1,SEMA6D,NEGR1,CD86,STK3,LAMA4,PI16,PSMB9,CNTN1,TG,NRCAM,IDH2,CTSC,CCDC88A,LAMA3,GPNMB,MITF,SYNDIG1,CPNE6,PARD3,SOCS5,FBXW8,NKD1,AGTR1,MIR21,MMRN2,INSR,MBP,SLC25A12,GPC6,DDAH1,FYN,PTPRD,PTPRC,CFLAR,CRK,PPP1CC,ZEB2,LRP1,NFATC2,HMG20A,SPAG9,RHEB,KL,RAPGEF1,KIAA1109,CDK6,FGF1,B4GALT5,PPP3CA,SLIT1,DAB1,TCF12,TOX,EGFR,CD46,BMP7,ZNF488,AKAP6,KALRN,EFNA5,TGFBR3,SNAPIN,ASAP1,SLC8A1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,PRKCB,XRCC5,ATOH8,SMO,SOX5,RARB,MIR196A1,IL23R,FBN1,N4BP2L2,TRIP12,SH3PXD2B,LDLR,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,RUNX1,EDNRB,BCL2,JAK1,DAAM1,MAP6,TBX1,IGSF10,SHTN1,NFIB,FARP1,SH3RF1,ADA,SERPINB13,MLLT3,KANK1,SULF2,THRB,HIPK2,BCL11A,EIF2AK3,PTPRS,NFAM1,SYK,RHOJ,PSMF1,LAMA1,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,SDC2,PROM1 |
| GO:BP | signaling | GO:0023052 | 0.005316 | 2.274393 | 6681 | 732 | 334 | 17847 | DQB2,SEMA6D,RAPGEF5,NMS,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,TG,ITGB6,NRCAM,AKAP13,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,DLC1,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,ASPH,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,GPR87,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,SCN1A,NFATC2,MYH14,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,GPR156,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,CACNB4,LMO7,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,FCN1,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,SORCS1,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SH3GL2,BICD1,ATOH8,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,DLGAP2,PYHIN1,RORA,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,UNC13C,SLC16A10,CAMKMT,OR51B5,ATAD1,ARHGAP32,PCNT,TAB2,RARB,RIMBP2,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,ABCC9,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,OR10G4,YWHAE,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,DOCK1 |
| GO:BP | regulation of hydrolase activity | GO:0051336 | 0.006216 | 2.206518 | 1289 | 732 | 87 | 17847 | PPP4R2,LYN,TNFAIP8,MKKS,FBLN1,PI16,PPIF,PSMB9,ATP1B3,PRKG1,DLC1,ITK,ASPH,CCL5,RASGRP4,AIM2,AGTR1,MIR21,MBP,DENND1A,FYN,SMR3A,DOCK4,FAM13A,PTPRC,CFLAR,CRK,DOCK10,LRP1,ADAP1,EPHA5,ARHGEF10,PPP1R14C,RALGAPA2,GRIN2B,DNAJB6,RAPGEF1,KDM5A,SH3RF2,RGS6,ARHGAP25,EGFR,RAPGEF6,RASAL2,DLG2,KALRN,EFNA5,PPP2R2A,ASAP1,ANKLE2,MAGI2,PLXNC1,RASGRP3,BICD1,SBF2,SFI1,USP6NL,NAIP,PPP1R1C,FGD5,ITIH4,ARHGAP32,RIMBP2,CEP192,LIMS1,PTGS2,NRP1,NGEF,PLXNA4,P2RX1,HSPD1,DNAJC15,PTPRN2,FARP1,SH3RF1,SERPINB13,ARHGAP15,HIP1,EIF2AK3,ARAP2,SYK,RAB3GAP2,PSMF1,YWHAE,HSPE1,ARHGAP19,DOCK1 |

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| | | | | | | | | | TUS1,FARP2,HLA-DQB2,SEMA6D,RAPGEF5,ZFAND2A,NMS,PAX5,TENM2,NCK2,FMO1,CD86,MUC4,BACH1,RYR3,GLDC,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,AKAP13,MIA3,CTSC,IL32,UBAC2,CCDC88A,NCALD,PYROXD1,DLC1,OR10G2,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,AIM2,AGTR1,MIR21,MMRN2,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,IBSP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,WDR33,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,MAML3,LRP1,CCDC3,PARVA,DTYMK,NFATC2,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,ABCG4,GPR156,BICC1,RHEB,CES1,ITGAL,SMYD3,TNP1,KL,RALGAPA2,GRIN2B,DNAJB6,NFIL3,LGR5,RAPGEF1,WDR70,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,ADSS,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,NEK10,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,CPEB1,RAPGEF6,RASAL2,FCN1,MYLK,DLG2,KALRN,EFNA5,MYO1E,RCHY1,S100A12,EIF4A2,TAS2R38,WASL,TGFBR3,KIF16B,HDGFRP3,SORCS1,PTPN5,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,GPX5,PRKCB,CASQ2,ADGRD1,SH3GL2,XRCC5,BICD1,ATOH8,SMO,ZBTB20,KRT20,BRIP1,EYA3,SPIDR,PSD3,ERN1,CDK14,SRPK2,SCGB2A2,TGIF1,PYHIN1,RORA,GNLY,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,SOX5,UNC13C,CAMKMT,OR51B5,ARHGAP32,PCNT,TAB2,RARB,NCOA2,CPNE4,MIR196A1,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TRIP12,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,SHMT1,LDLR,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,SHROOM3,ZMYND11,NGEF,MCF2L2,ATF3,CLIC4,PLXNA4,ARMC9,SEMA6A,REV3L,P2RX1,RUNX1,RALGPS2,MCM3,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,DNAJC15,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,GSTO2,FARP1,SH3RF1,CNOT2,ADAM23,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,UBE2E2,LGR |
| GO:BP | cellular response to stimulus | GO:00517 16 | 0.006536 | 2.184658 | 7670 | 732 | 375 | 17847 | |
| GO:BP | regulation of multicellular organismal process | GO:00512 39 | 0.007597 | 2.119354 | 3300 | 732 | 184 | 17847 | POLR2E,IRF1,ZNRF3,LYN,SCIN,COL5A1,SEMA6D,C6ORF106,NEGR1,CD86,RYR3,ZNF423,MKKS,STK3,LAMA4,PI16,PSMB9,ATP1B3,PRKG1,CNTN1,TG,ITGB6,NRCAM,IDH2,CTSC,KCNMB2,CCDC88A,LAMA3,GPNMB,MITF,BTNL2,SYNDIG1,AKAP12,CELF2,ASPH,CPNE6,PARD3,SOCS5,FBXW8,ADAMTS18,NKD1,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,INSR,MBP,SLC25A12,GPC6,DDAH1,NOS1AP,FYN,SMR3A,FAM49B,DOCK4,PTPRD,PTPRC,CFLAR,CRK,PPP1CC,PIBF1,ADTRP,ZEB2,LRP1,NFATC2,HMG20A,IL1R1,SPAG9,RHEB,KL,CRP,RAPGEF1,IL5RA,KIAA1109,CDK6,FGF1,MAST2,B4GALT5,PPP3CA,SLIT1,NPLOC4,DAB1,CACNB4,TCF12,CADM1,WWC2,IGF2BP2,PDE4B,TOX,EGFR,CD46,BMP7,ZNF488,AKAP6,FCN1,KALRN,EFNA5,TGFBR3,SNAPIN,ASAP1,SLC8A1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,ADAMTS12,EDN3,PRKCB,CASQ2,XRCC5,ATOH8,SMO,ZBTB20,PYHIN1,RORA,SOX5,RARB,MIR196A1,IL23R,GHR,FBN1,RYR2,N4BP2L2,TRIP12,TNKS2,SH3PXD2B,TNNI3K,LDLR,KIF13B,ANGPT2,PTGS2,SMURF2,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,P2RX1,RUNX1,HSPD1,EDNRB,BCL2,JAK1,ABCC9,DAAM1,MAP6,TBX1,IGSF10,SHTN1,NFIB,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,SERPINB13,MLLT3,KANK1,SULF2,THRB,HIPK2,BCL11A,EIF2AK3,PTPRS,PTGER3,NFAM1,SYK,RHOJ,PSMF1,LAMA1,YWHAE,ZNF365,RBFOX2,TCF4,CHRNA7,WNT7A,SDC2,CACNA1C,DOCK1,PROM1 |
| GO:BP | cell communication | GO:00071 54 | 0.007812 | 2.107245 | 6706 | 732 | 334 | 17847 | DQB2,SEMA6D,RAPGEF5,NMS,PAX5,TENM2,NCK2,CD86,MUC4,RYR3,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,NRCAM,AKAP13,CTSC,IL32,UBAC2,KCNMB2,CCDC88A,NCALD,DLC1,OR10G2,EXOC4,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,CPNE6,PARD3,CADPS,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,GPR87,STK39,AIM2,CTNNA3,AGTR1,MIR21,MMRN2,CIT,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,FRAS1,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,SCN1A,NFATC2,MYH14,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,GPR156,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,CACNB4,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,VSNL1,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,FCN1,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,KIF16B,SNAPIN,HDGFRP3,SORCS1,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SH3GL2,BICD1,ATOH8,SMO,KRT20,BRIP1,EYA3,PSD3,ERN1,CDK14,SRPK2,CNTNAP2,SCGB2A2,DLGAP2,PYHIN1,RORA,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,UNC13C,SLC16A10,CAMKMT,OR51B5,ATAD1,ARHGAP32,PCNT,TAB2,RARB,RIMBP2,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,DNAJC15,DAAM1,LY86,TBX1,KLRD1,SHTN1,PTPRN2,ARHGEF28,GNG2,OR52E8,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,BCL11A,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,OR10G4,YWHAE,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,DOCK1 |
| GO:BP | dendrite development | GO:00163 58 | 0.009336 | 2.029853 | 248 | 732 | 27 | 17847 | ARID1B,NCK2,PRKG1,FBXW8,FYN,PTPRD,CRK,DOCK10,PPP3CA,DAB1,BMP7,KALRN,WASL,ASAP1,HECW1,NRP1,NGEF,DNM3,MAP6,FARP1,BCL11A,PTPRS,ZNF365,RBFOX2,CHRNA7,WNT7A,SDC2 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | regulation of molecular function | GO:0065009 | 0.01027 | 1.988417 | 3013 | 732 | 170 | 17847 | PPP4R2,CTSB,LYN,C6ORF106,PRPSAP2,NCK2,TNFAIP8,MUC4,MKKS,STK3,FBLN1,PI16,PPIF,PSMB9,ATP1B3,PRKG1,DUS2,AKAP13,CASS4,CCDC88A,DLC1,ITK,TRAF1,ASPH,CCL5,RASGRP4,SOCS5,MAP4K3,GPR87,STK39,AIM2,CCNL1,AGTR1,MIR21,MCPH1,FAF1,INSR,MBP,CAP2,DENND1A,DDAH1,NOS1AP,FYN,SMR3A,DOCK4,NPFFR2,FAM13A,MMP15,PTPRC,CFLAR,CRK,LHCGR,TRAPPC9,PIBF1,DOCK10,ZEB2,LRP1,ADAP1,EPHA5,ARHGEF10,CRTAC1,SPAG9,PPP1R14C,SMYD3,RALGAPA2,GRIN2B,DNAJB6,LGR5,RAPGEF1,FGF1,KDM5A,PPP3CA,SH3RF2,RGS6,DAB1,NEK10,CACNB4,PDE4B,PDC,ARHGAP25,EGFR,BMP7,AKAP6,RAPGEF6,RASAL2,DLG2,KALRN,EFNA5,S100A12,EIF4A2,MTRR,WASL,TGFBR3,SNAPIN,PPP2R2A,ASAP1,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,PLXNC1,EDN3,RASGRP3,PRKCB,CASQ2,XRCC5,BICD1,SBF2,SMO,SFI1,NAF1,ERN1,USP6NL,PYHIN1,NAIP,PPP1R1C,FGD5,CCNJL,TAOK3,HOXA3,ITIH4,ARHGAP32,TAB2,RIMBP2,IL23R,CEP192,GHR,RYR2,LIMS1,SH3PXD2B,PKIB,PTGS2,NRP1,NGEF,PLXNA4,P2RX1,HSPD1,EDNRB,BCL2,DNAJC15,PTPRN2,FARP1,SH3RF1,SERPINB13,CBLB,ANK3,AHNAK,ARRDC4,GMNN,LDB2,GRM5,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,NFAM1,SYK,PKIG,RAB3GAP2,PPM1H,PSMF1,YWHAE,HSPE1,C8ORF44,CHRNA7,ARHGAP19,CACNA1C,DOCK1 |
| GO:BP | regulation of cell adhesion | GO:0030155 | 0.012659 | 1.897593 | 696 | 732 | 54 | 17847 | IRF1,LYN,NCK2,CD86,LAMA4,FBLN1,PRKG1,EMCN,MIA3,CASS4,DLC1,LAMA3,GPNMB,BTNL2,CCL5,SOCS5,ADAMTS18,MIR21,FAF1,MBP,IBSP,APBB1IP,FYN,FAM49B,PTPRC,CRK,ADTRP,LRP1,FMN1,CDK6,PPP3CA,DAB1,LMO7,CD46,BMP7,EFNA5,MACF1,PLXNC1,IL23R,LIMS1,ANGPT2,NRP1,PLXNA4,SEMA6A,RUNX1,HSPD1,BCL2,ADA,ANK3,LIMCH1,KANK1,SYK,LAMA1,DOCK1 |
| GO:BP | regulation of signaling | GO:0023051 | 0.013792 | 1.86037 | 3637 | 732 | 198 | 17847 | IRF1,ZNRF3,LYN,FARP2,PAX5,NCK2,CD86,MUC4,RYR3,ZNF423,STK3,FBLN1,PPIF,PSMB9,ATP1B3,NRXN3,AKAP13,CTSC,UBAC2,DLC1,GPNMB,BTNL2,CHST11,TRAF1,FBXL17,AKAP12,ASPH,CCL5,RASGRP4,SOCS5,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,STK39,AGTR1,MIR21,MMRN2,WDFY1,FAF1,INSR,CUL3,GPC6,DENND1A,NOS1AP,FYN,IL31RA,NPFFR2,FAM13A,PTPRC,FRMPD1,CFLAR,CRK,PIBF1,RPH3AL,ZEB2,MAML3,LRP1,CCDC3,PIP4K2A,SGMS1,IL1R1,EPHA5,ARHGEF10,SPAG9,BICC1,RHEB,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,FGF1,EPS8,SLIT3,PPP3CA,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,LMO7,WWC2,TNFRSF19,VSNL1,ARHGAP25,EGFR,GRIK3,CD46,KMO,BMP7,FHL2,AKAP6,DLG2,KALRN,EFNA5,S100A12,TGFBR3,KIF16B,SNAPIN,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,MACF1,ADAMTS12,EDN3,PRKCB,CASQ2,SH3GL2,BICD1,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,PYHIN1,RORA,FGD5,EVC,TAOK3,UNC13C,CAMKMT,ATAD1,ARHGAP32,TAB2,IL23R,GHR,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,TNNI3K,WWOX,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,BCL2,JAK1,ABCC9,LY86,TBX1,ARHGEF28,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,MCTP1,CBLB,NRG4,MLLT3,SH2D2A,GRM5,LGR6,PPP3CB,KANK1,ILDR1,SULF2,ARHGAP15,HIPK2,HIP1,EIF2AK3,ARAP2,PTPRS,NFAM1,IVNS1ABP,SYK,RHOJ,PSMF1,YWHAE,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,CACNA1C,PDE11A |
| GO:BP | regulation of cellular component organization | GO:0051128 | 0.018608 | 1.730294 | 2488 | 732 | 144 | 17847 | LYN,SCIN,COL5A1,FARP2,SEMA6D,NEGR1,SEPT8,PAX5,TENM2,NCK2,CDC42EP3,MKKS,FBLN1,PI16,PPIF,CNTN1,NRCAM,AKAP13,CASS4,CCDC88A,DLC1,SYNDIG1,ASPH,CPNE6,ABLIM3,FBXW8,AIM2,AGTR1,USP36,MIR21,CIT,MCPH1,FAF1,INSR,CUL3,GPC6,FYN,PTPRD,CFLAR,CRK,ADTRP,ZEB2,LRP1,PARVA,NFATC2,MYH14,PIP4K2A,EPHA5,ARHGEF10,GRIN2B,FMN1,DNAJB6,RAPGEF1,WDR70,KIAA1109,JDP2,KDM5A,EPS8,SLIT3,APBB2,PPP3CA,SLIT1,DAB1,PALMD,EGFR,BMP7,LIMA1,AKAP6,ADAMTS16,PDE4DIP,KALRN,EFNA5,WASL,SNAPIN,HDGFRP3,ASAP1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,PRKCB,SH3GL2,XRCC5,BICD1,NAF1,SPIDR,USP6NL,RASSF8,FGD5,SGIP1,ATAD1,MIR196A1,MKLN1,TRIP12,TNKS2,LIMS1,SH3PXD2B,PKIB,LDLR,KIF13B,NRP1,SHROOM3,NGEF,CLIC4,PLXNA4,DNM3,SEMA6A,RUNX1,BCL2,DNAJC15,MAP6,SHTN1,SH3D19,FARP1,CNOT2,MCTP1,SYNE2,PDZD8,ACTR3,LIMCH1,PPP3CB,KANK1,ZMYM4,ARHGAP15,NPHP1,HIP1,BCL11A,PTPRS,SYK,RAB3GAP2,RHOJ,YWHAE,ZNF365,C8ORF44,CHRNA7,WNT7A,GPM6A,SDC2,NSMCE2,DOCK1,RPL13A |
| GO:BP | regulation of nervous system development | GO:0051960 | 0.019989 | 1.6992 | 945 | 732 | 67 | 17847 | LYN,SEMA6D,NEGR1,CNTN1,TG,NRCAM,IDH2,CTSC,CCDC88A,SYNDIG1,CPNE6,PARD3,FBXW8,SLC25A12,GPC6,FYN,PTPRD,CFLAR,CRK,PPP1CC,ZEB2,LRP1,HMG20A,SPAG9,RHEB,RAPGEF1,PPP3CA,SLIT1,DAB1,TCF12,BMP7,ZNF488,KALRN,EFNA5,SNAPIN,ASAP1,ROR1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,XRCC5,SMO,RARB,LDLR,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,EDNRB,BCL2,MAP6,IGSF10,SHTN1,FARP1,KANK1,THRB,BCL11A,EIF2AK3,PTPRS,ZNF365,TCF4,WNT7A,SDC2 |
| GO:BP | regulation of cell morphogenesis involved in differentiation | GO:0010769 | 0.021662 | 1.66431 | 305 | 732 | 30 | 17847 | SEMA6D,FBLN1,NRCAM,CASS4,FBXW8,PTPRD,CRK,ZEB2,LRP1,PPP3CA,DAB1,KALRN,EFNA5,HECW1,MACF1,PLXNC1,LIMS1,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,MAP6,SHTN1,KANK1,PTPRS,WNT7A,SDC2,DOCK1 |
| GO:BP | cell morphogenesis involved in neuron differentiation | GO:0048667 | 0.021701 | 1.663526 | 603 | 732 | 48 | 17847 | SEMA6D,MYO7A,NRXN3,NRCAM,PARD3,FBXW8,FYN,PTPRD,DOCK10,ZEB2,LRP1,EPHA5,SLIT3,B4GALT5,APBB2,PPP3CA,SLIT1,DAB1,BMP7,KALRN,EFNA5,WASL,HECW1,MACF1,PLXNC1,SMO,DOK5,KIF13B,NRP1,NGEF,PLXNA4,DNM3,SEMA6A,BCL2,MAP6,SHTN1,NFIB,FARP1,ANK3,LGR6,PPP3CB,PTPRS,LAMA1,ZNF365,RBFOX2,CHRNA7,WNT7A,SDC2 |

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| | | | | | | | | | TMCO3,NCK2,RYR3,MYO7A,ADRBK2,SCNN1D,SLC15A4,MKKS,SEC24D,LAMA4,ABCA13,FBLN1,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,CNTN1,DECR2,TG,TMEM63C,ITGB6,SLC36A1,NRCAM,COLEC11,AKAP13,IDH2,MIA3,CTSC,UBAC2,KCNMB2,CASS4,CCDC88A,NCALD,DLC1,EXOC4,LAMA3,SLC12A8,GPNMB,MITF,BTNL2,CHST11,SYNDIG1,PYGO1,ANTXR2,CEP83,AKAP12,SVOP,ASPH,CCL5,CPNE6,PARD3,CADPS,PARD6G,ABLIM3,NKD1,GRIK4,STK39,IMMP2L,AIM2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,MMRN2,MCPH1,PKN2,FAF1,INSR,CUL3,MBP,SLC25A12,GPC6,DENND1A,WDR33,CFAP43,NOS1AP,FYN,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,PTPRC,FRMPD1,TNS3,ATP9B,CRK,PITX2,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,DOCK10,ZEB2,LRP1,OSBPL6,OSBPL1A,PARVA,SCN1A,NFATC2,CACHD1,IL1R1,EPHA5,SPAG9,ABCG4,CES1,FRMD6,ITGAL,SMYD3,TNP1,ATXN1,GRIN2B,CRP,AP1S3,KCNK5,CDH23,DNAJB6,RAPGEF1,KIAA1109,NXF1,CDK6,TAP1,FGF1,EPS8,APBB2,PPP3CA,SH3RF2,SLIT1,NPLOC4,DAB1,CACNB4,CADM1,STEAP4,IGF2BP2,PLCH1,PDE4B,VSNL1,ARHGAP25,EGFR,GRIK3,KMO,BMP7,LIMA1,AKAP6,PKD1L2,CLMN,MEST,RAPGEF6,MICU3,FCN1,MYLK,DLG2,KALRN,EFNA5,SLC25A26,MYO1E,S100A12,PEX2,PITPNM3,WASL,TGFBR3,KIF16B,SNAPIN,MICAL3,SNX31,SORCS1,DST,C4BPB,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,UNC80,CD163,RPF2,HECW1,MAGI2,PRKCH,MGAM,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,SCAMP1,PRKCB,SLC14A2,CASQ2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,VPS45,SMO,SFI1,KRT20,NAF1,SPIDR,CEP112,USP6NL,CNTNAP2,PYHIN1,ASTN2,SGIP1,UNC13C,SLC16A10,ATAD1,ITIH4,PCNT,NCOA2,MIR196A1,OGDH,PKD1L1,MKLN1,CCR5,LSG1,CEP192,ANO2,SLC5A9,GHR,FBN1,RYR2,TNKS2,PTP4A3,EXOC6B,LIMS1,CLDN10,SH3PXD2B,LDLR,KIF13B,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,NKAIN2,C2,EXOC2,HSPD1,EDNRB,BCL2,SESTD1,RAB3C,ABCC9,DNAJC15,SLC35A5,MAP6,OSBPL10,COL18A1,HEATR3,TBX1,IGSF10,SHTN1,PARD3B,PTPRN2,SLC9A9,KCNJ13,SH3RF1,LMAN2,ATP2A2,ADA,MCTP1,CBLB,SYNE2,NRG4,ANK3,PDZD8,AHNAK,ACTR3,AFTPH,ARRDC4,LDB2,ABCB11,GRM5,LIMCH1,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,NPHP1,HIP1,GNPTAB,EIF2AK3,FCAMR,PTGER3,NFAM1,TMC1,SYK,PKIG,SNRPE,RAB3GAP2,RHOJ,TLN2,PSMF1,LAMA1,TRPC4AP,SYNE1,YWHAE,RBFOX2,PRKCG,SLC2A13,C8ORF44,CHRNA7,WNT7A,GPM6A,SDC2,CACNA1C,DOCK1,RPL13A |
| GO:BP | localization | GO:0051179 | 0.022368 | 1.650367 | 6824 | 732 | 336 | 17847 | |
| GO:BP | cytoskeleton organization | GO:0007010 | 0.023444 | 1.629962 | 1353 | 732 | 88 | 17847 | CDC42BPB,MTSS1,SCIN,FARP2,NCK2,CDC42EP3,MKKS,PRKG1,AKAP13,CASS4,CCDC88A,DLC1,LRCH3,KRT6B,PARD3,PARD6G,ABLIM3,MYO1B,MIR21,CIT,MCPH1,CUL3,CAP2,CFAP43,NOS1AP,CFLAR,CRK,PIBF1,LRP1,PARVA,MYH14,EPHA5,ARHGEF10,FRMD6,FMN1,DNAJB6,EPS8,MAST2,EML1,WEE1,ARHGAP25,MAST4,LIMA1,TUBGCP3,CLMN,EFNA5,WASL,HDGFRP3,MICAL3,DST,ARMC4,MACF1,CASQ2,BICD1,KRT20,RASSF8,FGD5,DIAPH3,PCNT,MKLN1,CEP192,SH3PXD2B,NRP1,SHROOM3,CLIC4,SEMA6A,BCL2,DAAM1,MAP6,SHTN1,PARD3B,SH3D19,FARP1,SYNE2,ANK3,PDZD8,ACTR3,LIMCH1,FHDC1,KANK1,ZMYM4,NPHP1,HIP1,RHOJ,TLN2,SYNE1,PGM5,DOCK1 |
| GO:BP | regulation of localization | GO:0032879 | 0.028847 | 1.539902 | 2893 | 732 | 162 | 17847 | LYN,MTUS1,SCIN,SEMA6D,C6ORF106,SEPT8,RYR3,MKKS,LAMA4,FBLN1,PPIF,ATP1B3,PRKG1,NRXN3,CNTN1,IDH2,MIA3,UBAC2,CASS4,CCDC88A,DLC1,LAMA3,GPNMB,MITF,BTNL2,AKAP12,CCL5,PARD3,CADPS,PARD6G,ABLIM3,NKD1,STK39,AIM2,CTNNA3,AGTR1,USP36,MIR21,MMRN2,PKN2,INSR,MBP,GPC6,NOS1AP,FYN,DOCK4,FRMD4A,PTPRC,CRK,PPP1CC,RPH3AL,ADTRP,DOCK10,LRP1,SCN1A,IL1R1,EPHA5,SPAG9,GRIN2B,CRP,KCNK5,DNAJB6,RAPGEF1,CDK6,FGF1,PPP3CA,SH3RF2,CACNB4,CADM1,PLCH1,PDE4B,VSNL1,EGFR,KMO,BMP7,AKAP6,MEST,FCN1,MYLK,DLG2,KALRN,EFNA5,WASL,TGFBR3,SNAPIN,C4BPB,ARMC4,SLC8A1,HECW1,MAGI2,PRKCH,MACF1,PLXNC1,EDN3,PRKCB,CASQ2,SH3GL2,BICD1,ATOH8,SMO,KRT20,NAF1,SPIDR,PYHIN1,ASTN2,SGIP1,ATAD1,PCNT,MIR196A1,MKLN1,CCR5,RYR2,PTP4A3,CLDN10,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,DNM3,SEMA6A,P2RX1,NKAIN2,C2,EDNRB,BCL2,SESTD1,RAB3C,COL18A1,IGSF10,SHTN1,KCNJ13,LMAN2,ATP2A2,ADA,MCTP1,SYNE2,NRG4,ANK3,AHNAK,LDB2,GRM5,LIMCH1,LGR6,PPP3CB,KANK1,ILDR1,HIP1,EIF2AK3,PTGER3,TMC1,SYK,PKIG,RHOJ,LAMA1,YWHAE,PRKCG,C8ORF44,WNT7A,CACNA1C,DOCK1 |
| GO:BP | regulation of cell motility | GO:2000145 | 0.035841 | 1.445615 | 1019 | 732 | 70 | 17847 | LYN,MTUS1,SEMA6D,MKKS,LAMA4,FBLN1,PRKG1,IDH2,MIA3,CASS4,DLC1,LAMA3,GPNMB,MITF,AKAP12,CCL5,NKD1,STK39,MIR21,MMRN2,PKN2,INSR,DOCK4,PTPRC,CRK,ADTRP,DOCK10,LRP1,IL1R1,SPAG9,CDK6,FGF1,PPP3CA,SH3RF2,EGFR,BMP7,MYLK,WASL,SLC8A1,MAGI2,MACF1,PLXNC1,EDN3,ATOH8,SMO,MIR196A1,ANGPT2,PTGS2,SMURF2,NRP1,CLIC4,PLXNA4,SEMA6A,BCL2,COL18A1,IGSF10,SHTN1,ADA,MCTP1,SYNE2,NRG4,LDB2,LIMCH1,LGR6,KANK1,RHOJ,LAMA1,C8ORF44,WNT7A,DOCK1 |
| GO:BP | postsynapse organization | GO:0099173 | 0.037654 | 1.424188 | 166 | 732 | 20 | 17847 | NRCAM,INSR,NOS1AP,FYN,PTPRD,DOCK10,GRIN2B,DLG2,KALRN,WASL,MAGI2,GPHN,NRP1,NGEF,DNM3,FARP1,PTPRS,ZNF365,CHRNA7,WNT7A |
| GO:BP | second-messenger-mediated signaling | GO:0019932 | 0.038351 | 1.416226 | 444 | 732 | 38 | 17847 | EFCAB11,AHR,PRKG1,AKAP13,NCALD,AGTR1,DDAH1,NOS1AP,PTPRC,LHCGR,NFATC2,EPHA5,GRIN2B,LGR5,PPP3CA,EGFR,FHL2,AKAP6,SLC8A1,EDN3,CASQ2,ADGRD1,CCR5,RYR2,EDNRB,GNAL,GNG2,ATP2A2,ADA,MCTP1,GRM5,NR5A2,PPP3CB,EIF2AK3,PTGER3,SYK,CACNA1C,PDE11A |
| GO:BP | calcium-mediated signaling | GO:0019722 | 0.038563 | 1.413832 | 223 | 732 | 24 | 17847 | EFCAB11,NCALD,AGTR1,PTPRC,NFATC2,GRIN2B,PPP3CA,EGFR,FHL2,AKAP6,SLC8A1,CASQ2,CCR5,RYR2,EDNRB,ATP2A2,ADA,MCTP1,GRM5,NR5A2,PPP3CB,EIF2AK3,SYK,CACNA1C |

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|---|---|---|---|---|---|---|---|---|---|
| GO:BP | signal transduction | GO:0007165 | 0.042885 | 1.367692 | 6210 | 732 | 308 | 17847 | DTHD1,POLR2E,CDC42BPB,MTSS1,IRF1,CD320,ZNRF3,CTSB,LYN,FARP2,HLA-DQB2,SEMA6D,RAPGEF5,NMS,PAX5,TENM2,NCK2,CD86,MUC4,ADRBK2,CDC42EP3,ZNF423,EFCAB11,MKKS,STK3,AHR,FBLN1,PPIF,PSMB9,PRKG1,NRXN3,CNTN1,TG,ITGB6,AKAP13,CTSC,IL32,UBAC2,CCDC88A,NCALD,DLC1,OR10G2,OR4K14,LAMA3,ITK,GPNMB,MITF,BTNL2,CHST11,PYGO1,TRAF1,FBXL17,AKAP12,CCL5,RASGRP4,PARD3,SOCS5,PDIA6,ADAMTS18,OR2F1,ARHGEF38,MAP4K3,NKD1,RBMS3,GRIK4,GPR87,STK39,AIM2,AGTR1,MIR21,MMRN2,CIT,WDFY1,PKN2,FAF1,INSR,CUL3,MBP,DAPP1,CAP2,BCAR3,GPC6,APBB1IP,DENND1A,DDAH1,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,FAM13A,PTPRD,PTPRC,FRMPD1,TNS3,CFLAR,CRK,OR2L5,IRF2,LHCGR,PIBF1,RPH3AL,ADTRP,DOCK10,ZEB2,MAML3,LRP1,CCDC3,NFATC2,ADAP1,PIP4K2A,SGMS1,HNRNPF,IL1R1,EPHA5,ARHGEF10,SPAG9,GPR156,BICC1,RHEB,ITGAL,KL,RALGAPA2,GRIN2B,LGR5,RAPGEF1,IL5RA,CDK6,FGF1,EPS8,MTAP,SLIT3,MAST2,APBB2,PPP3CA,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NEK10,WWC2,THEMIS,TNFRSF19,PLCH1,PDE4B,PDC,ARHGAP25,EGFR,GRIK3,CD46,MAST4,BMP7,FHL2,AKAP6,RAPGEF6,RASAL2,FCN1,DLG2,KALRN,EFNA5,MYO1E,S100A12,TAS2R38,WASL,TGFBR3,KIF16B,HDGFRP3,SORCS1,DST,SLC8A1,RPF2,ROR1,HECW1,MAGI2,PRKCH,PIP5K1B,UBE2D2,MACF1,PLXNC1,ADAMTS12,EDN3,RASGRP3,PRKCB,CASQ2,ADGRD1,SH3GL2,BICD1,ATOH8,SMO,BRIP1,EYA3,PSD3,ERN1,CDK14,SRPK2,SCGB2A2,PYHIN1,RORA,PPP1R1C,RASSF8,FGD5,EVC,TAOK3,UNC13C,CAMKMT,OR51B5,ARHGAP32,PCNT,TAB2,RARB,MKLN1,CCR5,IL23R,GHR,OR6C70,BMP3,FBN1,RYR2,TNKS2,PTP4A3,DOK5,LIMS1,MAML2,KLK5,KIF13B,WWOX,ANGPT2,PTGS2,SMURF2,NRP1,ZMYND11,NGEF,MCF2L2,ATF3,PLXNA4,ARMC9,SEMA6A,P2RX1,RUNX1,RALGPS2,HSPD1,EDNRB,GNAL,BCL2,JAK1,RAB3C,DAAM1,LY86,TBX1,KLRD1,SHTN1,ARHGEF28,GNG2,OR52E8,FARP1,SH3RF1,CNOT2,ATP2A2,ADA,CR2,OR13G1,MCTP1,CBLB,NRG4,ANK3,MLLT3,PDZD8,SH2D2A,ACTR3,GRM5,DTNA,NR5A2,LGR6,PPP3CB,KANK1,GPR141,SULF2,THRB,ARHGAP15,HIPK2,NPHP1,HIP1,EIF2AK3,ARAP2,PTPRS,PTGER3,NFAM1,IVNS1ABP,SYK,PKIG,RHOJ,PSMF1,LAMA1,OR10G4,YWHAE,RBFOX2,PRKCG,TCF4,C8ORF44,CHRNA7,ARHGAP19,WNT7A,SDC2,CACNA1C,PDE11A,DOCK1 |
| GO:CC | cell junction | GO:0030054 | 2.44E-08 | 7.61295 | 1312 | 756 | 102 | 18842 | CDC42BPB,FAAP20,LYN,SCIN,SEPT8,TENM2,ITGB6,CASS4,DLC1,ITK,SYNDIG1,AKAP12,SVOP,PARD3,CADPS,PARD6G,GRIK4,CTNNA3,PKN2,APBB1IP,DENND1A,IL31RA,NAMPT,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,SCN1A,EPHA5,HMCN1,FRMD6,GRIN2B,FMN1,CDH23,USP53,EPS8,PPP3CA,LMO7,CADM1,THEMIS,EGFR,GRIK3,CD46,LIMA1,FHL2,AKAP6,CPEB1,DLG2,EFNA5,MYO1E,SNAPIN,DST,SLC8A1,LPP,MAGI2,MACF1,GPHN,PSD3,CNTNAP2,DLGAP2,AFAP1L1,UNC13C,ATAD1,ARHGAP32,SCHIP1,RIMBP2,MKLN1,LIMS1,CLDN10,SH3PXD2B,NRP1,SHROOM3,CLIC4,JAK1,PARD3B,PTPRN2,ZNRF1,FARP1,ATP2A2,ADA,MCTP1,SYNE2,ANK3,AHNAK,ACTR3,ABCB11,DTNA,ILDR1,FRMD4B,NPHP1,PTPRS,TLN2,LAMA1,YWHAE,PRKCG,CHRNA7,PGM5,CACNA1C,RPL13A |
| GO:CC | cell periphery | GO:0071944 | 1.72E-07 | 6.765032 | 5726 | 756 | 308 | 18842 | NINJ2,ARID1B,CDC42BPB,CD320,ZNRF3,ATP8B4,LYN,DCHS2,MTUS1,SCIN,HLA-DQB2,SEMA6D,NEGR1,SEPT8,TENM2,CD86,MUC4,ENPP6,RYR3,MYO7A,GLDC,ADRBK2,SCNN1D,CDC42EP3,SLC15A4,ABCA13,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,KCNMB2,FCRL6,CASS4,CCDC88A,DLC1,OR10G2,EXOC4,OR4K14,GPNMB,BTNL2,LRIG1,SYNDIG1,ANTXR2,TRAF1,AKAP12,SVOP,ASPH,RASGRP4,CPNE6,PARD3,ST3GAL5,PARD6G,PDIA6,OR2F1,NKD1,GRIK4,GPR87,STK39,MYO1B,AGTR1,FAM129A,CIT,PKN2,FAF1,INSR,MBP,DAPP1,CAP2,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,CFLAR,ATP9B,CRK,OR2L5,LHCGR,PPP1CC,FRAS1,ADTRP,PIEZO2,CPD,LRP1,OSBPL6,PARVA,SCN1A,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,CACHD1,IL1R1,EPHA5,ABCG4,GPR156,RHEB,HMCN1,FRMD6,ITGAL,KL,RALGAPA2,GRIN2B,FMN1,KCNK5,CDH23,VMP1,LGR5,IL5RA,FGF1,EPS8,MAST2,ADSS,KCTD3,PPP3CA,RGS6,CACNB4,LMO7,CADM1,STEAP4,TNFRSF19,PLCH1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,S100A12,TAS2R38,WASL,TGFBR3,MICAL3,ASAP1,DST,C4BPB,FAT3,SLC8A1,UNC80,LPP,CD163,ROR1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,RASGRP3,SCAMP1,PRKCB,SLC14A2,ADGRD1,SH3GL2,GPHN,XRCC5,SMO,PSD3,CEP112,CDK14,USP6NL,CAMK1G,CNTNAP2,DLGAP2,NAIP,ASTN2,FGD5,EVC,TAOK3,SGIP1,UNC13C,SLC16A10,OR51B5,ATAD1,ITIH4,ARHGAP32,TAB2,SCHIP1,RIMBP2,CPNE4,PKD1L1,GLDN,MKLN1,CCR5,IL23R,ANO2,SLC5A9,GHR,OR6C70,GAS7,RYR2,PTP4A3,EXOC6B,LIMS1,CLDN10,LDLR,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,MEGF11,CLIC4,PLXNA4,FCRL4,DNM3,CCDC70,SEMA6A,P2RX1,NKAIN2,CPO,RALGPS2,EXOC2,HSPD1,EDNRB,GNAL,RABGGTB,WDFY3,RAB3C,ABCC9,DAAM1,KLRD1,DYTN,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SLC9A9,OR52E8,HLA-DOB,FARP1,CNOT2,LMAN2,ADAM23,ATP2A2,ADA,CR2,OR13G1,CBLB,SYNE2,NRG4,ANK3,AHNAK,ACTR3,ARRDC4,LDB2,ABCB11,GRM5,DTNA,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,HIP1,PLGRKT,FCAMR,PTPRS,PTGER3,NFAM1,TMC1,SYK,RAB3GAP2,RHOJ,TLN2,TRPC4AP,SYNE1,OR10G4,YWHAE,PRKCG,SLC2A13,CHRNA7,ARHGAP19,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,PROM1 |

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|---|---|---|---|---|---|---|---|---|---|
| GO:CC | plasma membrane | GO:0005886 | 3.84E-07 | 6.416224 | 5603 | 756 | 301 | 18842 | NINJ2,ARID1B,CDC42BPB,CD320,ZNRF3,ATP8B4,LYN,DCHS2,MTUS1,SCIN,HLA-DQB2,SEMA6D,NEGR1,TENM2,CD86,MUC4,ENPP6,RYR3,MYO7A,GLDC,ADRBK2,SCNN1D,CDC42EP3,SLC15A4,ABCA13,ATP1B3,PRKG1,NRXN3,CNTN1,EMCN,TMEM63C,ITGB6,SLC36A1,NRCAM,KCNMB2,FCRL6,CASS4,CCDC88A,DLC1,OR10G2,EXOC4,OR4K14,GPNMB,BTNL2,LRIG1,SYNDIG1,ANTXR2,TRAF1,AKAP12,SVOP,ASPH,RASGRP4,CPNE6,PARD3,ST3GAL5,PARD6G,PDIA6,OR2F1,NKD1,GRIK4,GPR87,STK39,MYO1B,AGTR1,FAM129A,CIT,PKN2,FAF1,INSR,MBP,DAPP1,CAP2,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NAMPT,DOCK4,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,CFLAR,ATP9B,CRK,OR2L5,LHCGR,PPP1CC,FRAS1,ADTRP,PIEZO2,CPD,LRP1,OSBPL6,PARVA,SCN1A,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,CACHD1,IL1R1,EPHA5,ABCG4,GPR156,RHEB,HMCN1,FRMD6,ITGAL,KL,RALGAPA2,GRIN2B,FMN1,KCNK5,CDH23,VMP1,LGR5,IL5RA,EPS8,MAST2,ADSS,KCTD3,PPP3CA,RGS6,CACNB4,LMO7,CADM1,STEAP4,TNFRSF19,PLCH1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,S100A12,TAS2R38,WASL,TGFBR3,MICAL3,ASAP1,DST,C4BPB,FAT3,SLC8A1,UNC80,LPP,CD163,ROR1,HDAC11,MAGI2,PRKCH,MGAM,MACF1,PLXNC1,RASGRP3,SCAMP1,PRKCB,SLC14A2,ADGRD1,SH3GL2,GPHN,XRCC5,SMO,PSD3,CEP112,CDK14,USP6NL,CAMK1G,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,TAOK3,SGIP1,UNC13C,SLC16A10,OR51B5,ATAD1,ITIH4,ARHGAP32,TAB2,SCHIP1,RIMBP2,CPNE4,PKD1L1,GLDN,CCR5,IL23R,ANO2,SLC5A9,GHR,OR6C70,GAS7,RYR2,PTP4A3,LIMS1,CLDN10,LDLR,WWOX,ANGPT2,KIRREL3,PTGS2,SMURF2,NRP1,SHROOM3,MEGF11,CLIC4,PLXNA4,FCRL4,DNM3,CCDC70,SEMA6A,P2RX1,NKAIN2,CPO,RALGPS2,EXOC2,HSPD1,EDNRB,GNAL,RABGGTB,WDFY3,RAB3C,ABCC9,DAAM1,KLRD1,DYTN,PARD3B,PTPRN2,ARHGEF28,GNG2,SH3D19,SLC9A9,OR52E8,HLA-DOB,FARP1,CNOT2,LMAN2,ADAM23,ATP2A2,ADA,CR2,OR13G1,CBLB,SYNE2,NRG4,ANK3,AHNAK,ARRDC4,LDB2,ABCB11,GRM5,DTNA,SLC9A2,LGR6,PPP3CB,KANK1,ILDR1,GPR141,SULF2,HIP1,PLGRKT,FCAMR,PTPRS,PTGER3,NFAM1,TMC1,SYK,RAB3GAP2,RHOJ,TLN2,TRPC4AP,SYNE1,OR10G4,YWHAE,PRKCG,SLC2A13,CHRNA7,ARHGAP19,WNT7A,GPM6A,SDC2,PGM5,CACNA1C,PROM1 |
| GO:CC | synapse | GO:0045202 | 9.4E-05 | 4.026658 | 1206 | 756 | 85 | 18842 | LYN,SEPT8,TENM2,NCK2,MYO7A,LAMA4,NRXN3,CNTN1,NRCAM,EXOC4,SYNDIG1,AKAP12,SVOP,CADPS,ABLIM3,GRIK4,CAP2,GPC6,DENND1A,NOS1AP,FYN,IL31RA,PTPRD,PPP1CC,DOCK10,RHEB,GRIN2B,KIAA1109,EPS8,APBB2,PPP3CA,DAB1,CADM1,PALMD,PDE4B,EGFR,GRIK3,CPEB1,DLG2,EFNA5,SNAPIN,PPP2R2A,ASAP1,SLC8A1,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,PSD3,CEP112,DLGAP2,UNC13C,ATAD1,ARHGAP32,RIMBP2,MKLN1,NRP1,DNM3,P2RX1,RAB3C,PTPRN2,ZNRF1,FARP1,ADAM23,ATP2A2,MCTP1,ANK3,GRM5,DTNA,PPP3CB,HIP1,BCL11A,PTPRS,PPM1H,TLN2,SYNE1,YWHAE,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C |
| GO:CC | cytoplasm | GO:0005737 | 0.00026 | 3.584529 | 11620 | 756 | 529 | 18842 | US1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,PRPSAP2,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,CDC42EP3,MAP3K7CL,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,DNAH9,DECR2,DUS2,SLC36A1,AKAP13,IDH2,MIA3,CTSC,IL32,UBAC2,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,EXOC4,LRCH3,LAMA3,ITK,GPNMB,CHST11,SYNDIG1,KRT6B,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,NAA25,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,COQ2,CTNNA3,MYO1B,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,DENND1A,DDAH1,CFAP43,NOS1AP,FYN,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,FAM13A,PTPRC,FRMPD1,TNS3,CFLAR,ATP9B,CRK,IRF2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,EPHA5,ARHGEF10,SPAG9,PPP1R14C,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,DNAJB6,VMP1,LGR5,AFF3,XXYLT1,RAPGEF1,NXF1,CDK6,TAP1,ALDH7A1,FGF1,EPS8,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,TCF12,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CLMN,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,PBOV1,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,TGFBR3,SAMD7,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,LRRC18,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,CD163,ANKLE2,ROR1,HECW1,MAGI2,PRKCH,MGAM,PIP5K1B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,RAVER2,SH3GL2,GPHN,XRCC5,BICD1,ATOH8,ATPAF2,V |
| GO:CC | cell projection | GO:0042995 | 0.000626 | 3.203151 | 2216 | 756 | 132 | 18842 | MRI1,CDC42BPB,MTSS1,SCIN,SEPT8,TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,ABLIM3,FBXL13,CTNNA3,MYO1B,PKN2,INSR,CUL3,MBP,APBB1IP,DENND1A,CFAP43,FYN,IL31RA,FAM49B,DOCK4,PTPRC,PLB1,PPP1CC,DOCK10,LRP1,PARVA,SCN1A,MYH14,EPHA5,CRTAC1,GRIN2B,CDH23,CDK6,EPS8,APBB2,PPP3CA,DAB1,MYO7B,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,MYLK,DLG2,PITPNM3,WASL,SNAPIN,MICAL3,ASAP1,DST,ARMC4,SLC8A1,UNC80,ROR1,MAGI2,PIP5K1B,MACF1,PRKCB,SH3GL2,GPHN,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,AFAP1L1,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,GLDN,MKLN1,ANO2,SH3PXD2B,KIF13B,WWOX,ANGPT2,KIRREL3,PTGS2,NRP1,NGEF,CLIC4,DNM3,ARMC9,SEMA6A,P2RX1,AHCYL2,WDFY3,DAAM1,MAP6,SHTN1,PTPRN2,NFIB,FARP1,SH3RF1,ATP2A2,ADA,SYNE2,ANK3,ACTR3,GRM5,DTNA,FHDC1,KANK1,FRMD4B,NPHP1,PTPRS,TMC1,RHOJ,TLN2,YWHAE,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1 |
| GO:CC | actin cytoskeleton | GO:0015629 | 0.000877 | 3.057127 | 517 | 756 | 44 | 18842 | CDC42BPB,MTSS1,SCIN,MYO7A,SCNN1D,CDC42EP3,AKAP13,DLC1,ABLIM3,MYO1B,CIT,CAP2,FYN,NPFFR2,CRK,PARVA,MYH14,CALD1,FMN1,MYO7B,LIMA1,MYLK,KALRN,MYO1E,WASL,MICAL3,ASAP1,LPP,ROR1,MACF1,AFAP1L1,ARHGAP32,SH3PXD2B,SHROOM3,CLIC4,DAAM1,MYO18B,AHNAK,ACTR3,LIMCH1,HIP1,MYH8,TLN2,PGM5 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | cytoskeleton | GO:0005856 | 0.001157 | 2.936498 | 2221 | 756 | 131 | 18842 | CDC42BPB,PPP4R2,MTSS1,MTUS1,SCIN,FARP2,SEPT8,MYO7A,SCNN1D,CDC42EP3,MKKS,DNAH9,ITGB6,AKAP13,CTSC,CASS4,CCDC88A,DLC1,KRT6B,CEP83,EML6,AKAP12,PARD3,ABLIM3,AK5,FBXL13,STK39,CTNNA3,MYO1B,CIT,RAD23A,MCPH1,PKN2,CUL3,CAP2,APBB1IP,CFAP43,FYN,FRMD4A,NPFFR2,FRMPD1,CRK,PIBF1,PARVA,MYH14,CALD1,TTC28,ARHGEF10,SPAG9,FRMD6,FMN1,CDK6,TAP1,MAST2,NR3C1,MYO7B,IGF2BP2,PDE4B,EML1,TBCA,LIMA1,TUBGCP3,PDE4DIP,RAPGEF6,MYLK,KALRN,RMDN3,MYO1E,S100A12,WASL,KIF16B,MICAL3,ASAP1,SNX31,DST,ARMC4,SLC8A1,LPP,ROR1,MACF1,GPHN,BICD1,SFI1,KRT20,EYA3,CEP112,DLGAP2,AFAP1L1,FGD5,EVC,SGIP1,ARHGAP32,PCNT,CEP192,GAS7,TNKS2,SH3PXD2B,KIF13B,NRP1,SHROOM3,CLIC4,DNM3,ARMC9,MCM3,SESTD1,JAK1,DAAM1,MAP6,OSBPL10,SHTN1,FARP1,MYO18B,SYNE2,ANK3,AHNAK,ACTR3,STAU2,LIMCH1,FHDC1,FRMD4B,NPHP1,HIP1,IVNS1ABP,MYH8,TLN2,SYNE1,YWHAE,ZNF365,PGM5,KRTAP4-1,MACROD2 |
| GO:CC | Z disc | GO:0030018 | 0.001685 | 2.773295 | 130 | 756 | 18 | 18842 | RYR3,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,MYO18B,SYNE2,ANK3,PPP3CB,PGM5,CACNA1C |
| GO:CC | myofibril | GO:0030016 | 0.001737 | 2.760224 | 226 | 756 | 25 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,CALD1,DNAJB6,PPP3CA,PDE4B,FHL2,PDE4DIP,DST,SLC8A1,CASQ2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C |
| GO:CC | contractile fiber | GO:0043292 | 0.003465 | 2.460354 | 235 | 756 | 25 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,CALD1,DNAJB6,PPP3CA,PDE4B,FHL2,PDE4DIP,DST,SLC8A1,CASQ2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C |
| GO:CC | plasma membrane bounded cell projection | GO:0120025 | 0.003593 | 2.444506 | 2144 | 756 | 125 | 18842 | CDC42BPB,MTSS1,SEPT8,TENM2,MYO7A,MKKS,DNAH9,NRCAM,CCDC88A,DLC1,EXOC4,SYNDIG1,CEP83,CPNE6,PARD3,ABLIM3,FBXL13,CTNNA3,MYO1B,PKN2,INSR,CUL3,MBP,APBB1IP,DENND1A,CFAP43,FYN,IL31RA,FAM49B,DOCK4,PTPRC,PLB1,PPP1CC,DOCK10,LRP1,PARVA,SCN1A,MYH14,EPHA5,CRTAC1,GRIN2B,CDH23,CDK6,EPS8,APBB2,PPP3CA,DAB1,MYO7B,PALMD,PDE4B,PDC,GRIK3,LIMA1,CPEB1,MYLK,DLG2,WASL,SNAPIN,ASAP1,DST,ARMC4,SLC8A1,UNC80,ROR1,MAGI2,PIP5K1B,MACF1,PRKCB,SH3GL2,GPHN,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,AFAP1L1,FGD5,EVC,UNC13C,ARHGAP32,PKD1L1,GLDN,MKLN1,ANO2,KIF13B,WWOX,KIRREL3,PTGS2,NRP1,NGEF,CLIC4,DNM3,ARMC9,SEMA6A,P2RX1,AHCYL2,WDFY3,DAAM1,MAP6,SHTN1,PTPRN2,NFIB,FARP1,SH3RF1,ATP2A2,ADA,SYNE2,ANK3,ACTR3,GRM5,DTNA,FHDC1,KANK1,FRMD4B,NPHP1,PTPRS,TMC1,TLN2,YWHAE,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1 |
| GO:CC | neuron part | GO:0097458 | 0.003908 | 2.408053 | 1771 | 756 | 107 | 18842 | ARID1B,LYN,SEPT8,TENM2,NCK2,MYO7A,MKKS,NRXN3,CNTN1,NRCAM,EXOC4,SYNDIG1,AKAP12,SVOP,CPNE6,PARD3,CADPS,GRIK4,CIT,INSR,MBP,CAP2,DENND1A,FYN,IL31RA,DOCK4,PPP1CC,DOCK10,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,RHEB,GRIN2B,CDH23,KIAA1109,EPS8,APBB2,PPP3CA,DAB1,PALMD,PDE4B,PDC,GRIK3,CPEB1,DLG2,SNAPIN,ASAP1,DST,SLC8A1,UNC80,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,SBF2,SMO,PSD3,CAMK1G,CNTNAP2,ZC3H14,DLGAP2,ASTN2,UNC13C,ARHGAP32,GLDN,GHR,LDLR,KIF13B,KIRREL3,PTGS2,NRP1,NGEF,DNM3,SEMA6A,P2RX1,AHCYL2,WDFY3,RAB3C,MAP6,SHTN1,PTPRN2,NFIB,ZNRF1,FARP1,ADAM23,ADA,MCTP1,ANK3,GRM5,DTNA,NPHP1,HIP1,BCL11A,PTPRS,TMC1,YWHAE,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C,PROM1 |
| GO:CC | cytosol | GO:0005829 | 0.00478 | 2.320543 | 5086 | 756 | 256 | 18842 | MRI1,ARID1B,POLR2E,IRF1,LYN,FARP2,MYT1,PAX5,NCK2,BACH1,MYO7A,ADRBK2,CDC42EP3,MAP3K7CL,MKKS,STK3,SEC24D,AHR,PSMB9,PRKG1,DECR2,DUS2,AKAP13,IDH2,IL32,CCDC88A,NCALD,DLC1,EXOC4,LRCH3,ITK,KRT6B,CEP83,TRAF1,AKAP12,RASGRP4,PARD3,CADPS,SOCS5,PARD6G,PDIA6,FBXW8,AK5,NAA25,FBXL13,HSBP1L1,STK39,AIM2,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,CUL3,DAPP1,APBB1IP,GGACT,DENND1A,DDAH1,NOS1AP,FYN,NAMPT,PGAM1,BACH2,DOCK4,FAM13A,FRMPD1,TNS3,CFLAR,CRK,IRF2,TRAPPC9,PPP1CC,DOCK10,ZEB2,MAN1A1,CNDP2,OSBPL6,OSBPL1A,PARVA,DTYMK,NFATC2,MYH14,ADAP1,PIP4K2A,CALD1,HNRNPF,ARHGEF10,SPAG9,RHEB,CES1,SMYD3,RALGAPA2,ATXN1,AP1S3,DNAJB6,AFF3,RAPGEF1,NXF1,CDK6,ALDH7A1,FGF1,SETDB2,MTAP,ADSS,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,WWC2,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,PDC,ARHGAP25,KMO,NPAS3,LIMA1,TUBGCP3,CPEB1,RAPGEF6,RASAL2,MYLK,DLG2,KALRN,RCHY1,S100A12,EIF4A2,MTRR,PITPNM3,WASL,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,DST,HEATR5A,TRAPPC3L,LPP,HECW1,PRKCH,PIP5K1B,UBE2D2,DPP8,KYNU,PRKCB,SH3GL2,GPHN,XRCC5,BICD1,ATPAF2,SBF2,SFI1,KRT20,CDK14,USP6NL,SRPK2,AFAP1L1,SGIP1,DIAPH3,CAMKMT,ARHGAP32,PCNT,TAB2,TPMT,SCHIP1,RNF19B,MKLN1,LSG1,CEP192,GHR,TRIP12,TNKS2,DOK5,PADI1,LIMS1,KLK5,SHMT1,KIF13B,WWOX,SMURF2,NRP1,NGEF,CLIC4,RNF217,SH2D1B,RUNX1,AHCYL2,DSE,EXOC2,HSPD1,RABGGTB,BCL2,WDFY3,JAK1,DPYS,RAB3C,DAAM1,OSBPL10,ODC1,ARHGEF28,SH3D19,ZNRF1,GSTO2,FARP1,SH3RF1,CNOT2,ADA,SERPINB13,CBLB,ANK3,SH2D2A,AHNAK,ACTR3,AFTPH,GMNN,ZNF438,PPP3CB,ILDR1,ARHGAP15,NPHP1,HIP1,ARAP2,IVNS1ABP,MYH8,SYK,TRERF1,SPATA24,SNRPE,RAB3GAP2,RHOJ,PCBP3,PSMF1,YWHAE,RBFOX2,KLF12,PRKCG,IMPAD1,C8ORF44,ARHGAP19,PGM5,PDE11A,KRTAP4-1,DOCK1,RPL13A |
| GO:CC | plasma membrane region | GO:0098590 | 0.005591 | 2.25251 | 1197 | 756 | 78 | 18842 | TENM2,MYO7A,ATP1B3,CNTN1,NRCAM,DLC1,SYNDIG1,PARD3,PARD6G,GRIK4,STK39,CIT,PKN2,INSR,DENND1A,NOS1AP,IL31RA,PLB1,PPP1CC,ADTRP,LRP1,HMCN1,KL,GRIN2B,EPS8,LMO7,CADM1,EGFR,GRIK3,LIMA1,AKAP6,CPEB1,RAPGEF6,MYLK,DLG2,EFNA5,ASAP1,DST,SLC8A1,MGAM,MACF1,SLC14A2,GPHN,SMO,PSD3,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,UNC13C,SLC16A10,ATAD1,ARHGAP32,PKD1L1,LDLR,PTGS2,NRP1,SHROOM3,MEGF11,DNM3,P2RX1,CPO,PARD3B,FARP1,ADAM23,SYNE2,ANK3,GRM5,KANK1,HIP1,PTPRS,SYNE1,PRKCG,CHRNA7,GPM6A,CACNA1C,PROM1 |
| GO:CC | I band | GO:0031674 | 0.005875 | 2.231021 | 142 | 756 | 18 | 18842 | RYR3,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,MYO18B,SYNE2,ANK3,PPP3CB,PGM5,CACNA1C |
| GO:CC | cell cortex | GO:0005938 | 0.006526 | 2.185337 | 322 | 756 | 30 | 18842 | SCIN,SEPT8,MYO7A,AKAP13,DLC1,EXOC4,AKAP12,ASPH,PARD3,PARD6G,CAP2,FRMPD1,CALD1,HMCN1,FGF1,EPS8,WASL,MICAL3,DST,ASTN2,UNC13C,ARHGAP32,MKLN1,EXOC6B,SHROOM3,EXOC2,PARD3B,ACTR3,HIP1,RHOJ |
| GO:CC | adherens junction | GO:0005912 | 0.007818 | 2.1069 | 546 | 756 | 43 | 18842 | LYN,ITGB6,CASS4,DLC1,AKAP12,PARD3,CTNNA3,APBB1IP,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,EPHA5,HMCN1,FMN1,CDH23,LMO7,EGFR,CD46,LIMA1,FHL2,EFNA5,MYO1E,DST,LPP,LIMS1,NRP1,SHROOM3,JAK1,PARD3B,ATP2A2,SYNE2,AHNAK,ACTR3,FRMD4B,NPHP1,TLN2,YWHAE,PGM5,RPL13A |
| GO:CC | sarcomere | GO:0030017 | 0.00951 | 2.021811 | 204 | 756 | 22 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | AAP20,ZNRF3,CTSB,ATP8B4,LYN,DCHS2,MTUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,CD86,MUC4,ENPP6,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,DECR2,EMCN,L3MBTL4,DUS2,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,KCNMB2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,SCUBE2,OR10G2,TCEA2,EXOC4,LRCH3,OR4K14,LAMA3,ITK,AMN1,SLC12A8,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,OR2F1,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,TNS3,CFLAR,ATP9B,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,CPD,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,CACHD1,DEFB132,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,ABCG4,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,KCTD3,PPP3CA,AHSP,NR3C1,SH3RF2,SLIT1,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4, |
| GO:CC | cell | GO:0005623 | 0.010524 | 1.977839 | 17069 | 756 | 715 | 18842 | |
| GO:CC | cell-cell junction | GO:0005911 | 0.011069 | 1.955875 | 466 | 756 | 38 | 18842 | CDC42BPB,LYN,ITK,PARD3,PARD6G,CTNNA3,PKN2,FRMD4A,SCN1A,HMCN1,FRMD6,CDH23,USP53,PPP3CA,LMO7,CADM1,THEMIS,AKAP6,MYO1E,SLC8A1,MAGI2,CNTNAP2,LIMS1,CLDN10,SHROOM3,CLIC4,PARD3B,ATP2A2,ANK3,AHNAK,ACTR3,ABCB11,ILDR1,FRMD4B,NPHP1,LAMA1,PRKCG,PGM5 |
| GO:CC | contractile fiber part | GO:0044449 | 0.011106 | 1.954436 | 221 | 756 | 23 | 18842 | RYR3,PYROXD1,NOS1AP,PARVA,SCN1A,DNAJB6,PPP3CA,PDE4B,FHL2,DST,SLC8A1,CASQ2,RYR2,ABCC9,MYO18B,SYNE2,ANK3,AHNAK,PPP3CB,MYH8,SYNE1,PGM5,CACNA1C |
| GO:CC | anchoring junction | GO:0070161 | 0.014835 | 1.82872 | 561 | 756 | 43 | 18842 | LYN,ITGB6,CASS4,DLC1,AKAP12,PARD3,CTNNA3,APBB1IP,FRMD4A,PTPRC,TNS3,IRF2,PPP1CC,LRP1,PARVA,EPHA5,HMCN1,FMN1,CDH23,LMO7,EGFR,CD46,LIMA1,FHL2,EFNA5,MYO1E,DST,LPP,LIMS1,NRP1,SHROOM3,JAK1,PARD3B,ATP2A2,SYNE2,AHNAK,ACTR3,FRMD4B,NPHP1,TLN2,YWHAE,PGM5,RPL13A |
| GO:CC | cytoplasmic part | GO:0044444 | 0.020723 | 1.683558 | 9760 | 756 | 444 | 18842 | RP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,MYT1,SEPT8,PAX5,TENM2,NCK2,FMO1,MUC4,BACH1,PPA2,RYR3,MYO7A,GLDC,ADRBK2,CDC42EP3,MAP3K7CL,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,ABCA13,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,DNAH9,DECR2,DUS2,SLC36A1,AKAP13,IDH2,MIA3,CTSC,IL32,UBAC2,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,EXOC4,LRCH3,LAMA3,ITK,GPNMB,CHST11,SYNDIG1,KRT6B,ANTXR2,CEP83,TRAF1,GOLIM4,AKAP12,SVOP,ASPH,RASGRP4,GLT8D1,CPNE6,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,PDIA6,FBXW8,AK5,NAA25,FBXL13,HSBP1L1,STK39,IMMP2L,MGAT2,AIM2,COQ2,MYO1B,FAM129A,CIT,RAD23A,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,DENND1A,DDAH1,CFAP43,NOS1AP,FYN,COL12A1,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FAM13A,PTPRC,FRMPD1,TNS3,CFLAR,ATP9B,CRK,IRF2,LHCGR,TRAPPC9,PPP1CC,PIBF1,RPH3AL,DOCK10,ZEB2,MAN1A1,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,DTYMK,SCN1A,METAP1D,NFATC2,MYH14,ADAP1,PIP4K2A,CALD1,SGMS1,HNRNPF,EPHA5,ARHGEF10,SPAG9,PPTC7,RHEB,CES1,HMCN1,ITGAL,SMYD3,RALGAPA2,ATXN1,FMN1,AP1S3,MTHFD1L,DNAJB6,VMP1,LGR5,AFF3,XXYLT1,RAPGEF1,NXF1,CDK6,TAP1,ALDH7A1,FGF1,EPS8,SETDB2,MTAP,SLIT3,ICA1L,ADSS,B4GALT5,NDST3,MTMR7,PPP3CA,AHSP,NR3C1,RGS6,NPLOC4,DAB1,CACNB4,LMO7,STEAP4,MYO7B,WWC2,IGF2BP2,PLCH1,PDE4B,EML1,TBCA,VSNL1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,KMO,NPAS3,LIMA1,FHL2,AKAP6,ST6GAL1,TUBGCP3,PDE4DIP,CPEB1,MEST,RAPGEF6,MICU3,RASAL2,FCN1,MYLK,DLG2,KALRN,SLC25A26,EMID1,RMDN3,MYO1E,RCHY1,S100A12,EIF4A2,MTRR,PEX2,PITPNM3,WASL,ZPBP2,KIF16B,SNAPIN,HDGFRP3,MICAL3,PPP2R2A,ASAP1,SNX31,SORCS1,PTPN5,DST,ARMC4,HEATR5A,SLC8A1,TRAPPC3L,STARD7,LPP,CD163,ANKLE2,HECW1,MAGI2,PRKCH,MGAM,PIP5K1B,EOGT,UBE2D2,MACF1,TAMM41,DPP8,KYNU,RASGRP3,SCAMP1,SEC11C,PRKCB,CASQ2,SH3GL2,GPHN,XRCC5,BICD1,ATPAF2,VPS45,SBF2,SMO,SFI1,KRT20,ERN1,CDK14,USP6NL,SRPK2,CAMK1G,CNTNAP2,ZC3H14,DLGAP2,GNLY,AFAP1L1,ASTN2,FGD5,SGIP1,UNC13C,DIAPH3,CAMKMT,ATAD1,ITIH4,ARHGAP32,KIAA0391,PCNT,TAB2,TPMT,SCHIP1,OGDH,RNF19B,MKLN1,CCR5,LSG1,CEP192,MGAT5B,GHR,FBN1,RYR2,TRIP12,TNKS2,PTP4A3,DOK5,EXOC6B,PADI1,LIMS1,KLK5,SHMT1,LDLR,KIF13B,MT |
| GO:CC | synapse part | GO:0044456 | 0.024253 | 1.61524 | 971 | 756 | 64 | 18842 | LYN,SEPT8,TENM2,NCK2,LAMA4,NRXN3,CNTN1,NRCAM,SYNDIG1,SVOP,CADPS,GRIK4,CAP2,DENND1A,FYN,IL31RA,PPP1CC,DOCK10,RHEB,GRIN2B,KIAA1109,EPS8,PPP3CA,DAB1,PALMD,PDE4B,GRIK3,CPEB1,DLG2,SNAPIN,ASAP1,SLC8A1,ROR1,MAGI2,SCAMP1,PRKCB,SH3GL2,GPHN,VPS45,PSD3,DLGAP2,UNC13C,ATAD1,ARHGAP32,NRP1,DNM3,P2RX1,RAB3C,PTPRN2,ZNRF1,FARP1,ADAM23,MCTP1,ANK3,GRM5,HIP1,BCL11A,PTPRS,SYNE1,PRKCG,CHRNA7,WNT7A,GPM6A,CACNA1C |
| GO:CC | calcium channel complex | GO:0034704 | 0.028801 | 1.540593 | 68 | 756 | 11 | 18842 | RYR3,NOS1AP,CACHD1,CACNB4,PDE4B,AKAP6,CASQ2,PKD1L1,RYR2,SESTD1,CACNA1C |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | AAP20,ZNRF3,CTSB,ATP8B4,LYN,DCHS2,MTUS1,SCIN,COL5A1,FARP2,GHITM,HLA-DQB2,SEMA6D,C6ORF106,RAPGEF5,PRPSAP2,NEGR1,MYT1,ZFAND2A,REG4,SEPT8,PAX5,TENM2,NCK2,TNFAIP8,FMO1,CD86,MUC4,ENPP6,BACH1,PPA2,RYR3,MYO7A,GLDC,ATF7,ADRBK2,SCNN1D,CDC42EP3,MAP3K7CL,ZNF423,SLC15A4,MKKS,STK3,SEC24D,SUGCT,AHR,C11ORF21,ZNF292,ABCA13,RANBP6,PPIF,DDX4,PSMB9,ATP1B3,PRKG1,NRXN3,DNAH9,CNTN1,DECR2,EMCN,L3MBTL4,DUS2,TMEM63C,ITGB6,SLC36A1,NRCAM,AKAP13,IDH2,MIA3,PBRM1,CTSC,IL32,UBAC2,KCNMB2,FCRL6,CASS4,CCDC88A,NCALD,PYROXD1,DLC1,D2HGDH,SCUBE2,OR10G2,TCEA2,EXOC4,LRCH3,OR4K14,LAMA3,ITK,AMN1,GPNMB,MITF,RUNX1T1,BTNL2,LRIG1,CHST11,SYNDIG1,KRT6B,PYGO1,ANTXR2,CEP83,TRAF1,FBXL17,GOLIM4,EML6,AKAP12,SVOP,CELF2,ASPH,CCL5,RASGRP4,GLT8D1,CPNE6,VWA3B,PARD3,CADPS,SOCS5,ST3GAL5,PARD6G,ABLIM3,PDIA6,FBXW8,AK5,BRDT,NAA25,OR2F1,FBXL13,ARHGEF38,MAP4K3,NKD1,RBMS3,HSBP1L1,GRIK4,GPR87,STK39,IMMP2L,MGAT2,AIM2,CCNL1,COQ2,CTNNA3,MYO1B,AGTR1,USP36,MIR21,FAM129A,CIT,RAD23A,MCPH1,WDFY1,PKN2,FAF1,NSUN4,INSR,CUL3,MBP,SLC25A12,DAPP1,CAP2,PEBP4,GPC6,APBB1IP,GGACT,WDR37,DENND1A,WDR33,DDAH1,RBM20,CFAP43,NOS1AP,FYN,IL31RA,COL12A1,ADARB2,NAMPT,PGAM1,BACH2,FAM49B,DOCK4,FRMD4A,NPFFR2,FAM13A,ENOX1,MMP15,PTPRD,PTPRC,FRMPD1,PLB1,TNS3,CFLAR,ATP9B,CRK,OR2L5,IRF2,PITX2,LHCGR,TRAPPC9,PPP1CC,FRAS1,PIBF1,RPH3AL,ADTRP,PIEZO2,CPD,DOCK10,ZEB2,MAN1A1,MAML3,LRP1,CNDP2,OSBPL6,CCDC3,OSBPL1A,PARVA,CDYL,TRIM2,DTYMK,SCN1A,METAP1D,NFATC2,HMG20A,MYH14,ADAP1,PIP4K2A,CALD1,TTC28,SGMS1,HNRNPF,CACHD1,DEFB132,IL1R1,EPHA5,ARHGEF10,SRRM4,CRTAC1,SPAG9,ABCG4,PPP1R14C,GPR156,PPTC7,BICC1,RHEB,CES1,HMCN1,FRMD6,ITGAL,SMYD3,TNP1,KL,RALGAPA2,TYW5,ATXN1,GRIN2B,FMN1,AP1S3,MTHFD1L,KCNK5,CDH23,DNAJB6,VMP1,NFIL3,LGR5,AFF3,XXYLT1,RAPGEF1,WDR70,IL5RA,KIAA1109,NXF1,CDK6,TAP1,JDP2,ALDH7A1,FGF1,KDM5A,EPS8,PRPF39,SETDB2,MTAP,SLIT3,MAST2,ICA1L,ADSS,B4GALT5,APBB2,NDST3,MTMR7,KCTD3,PPP3CA,AHSP,NR3C1,SH3RF2,RGS6,NPLOC4,DAB1,NUGGC,CACNB4,LMO7,TCF12,CADM1,STEAP4,MYO7B,WWC2,THEMIS,PALMD,IGF2BP2,TNFRSF19,PLCH1,PDE4B,EML1,TBCA,VSNL1,TOX,WEE1,PDC,PHTF2,ARHGAP25,EGFR,GRIK3,CD46,MAST4,KMO,NPAS3, |
| GO:CC | cell part | GO:0044464 | 0.03309 | 1.480304 | 17004 | 756 | 711 | 18842 | |
| GO:CC | plasma membrane part | GO:0044459 | 0.034487 | 1.462342 | 3022 | 756 | 160 | 18842 | NINJ2,CD320,ZNRF3,LYN,HLA-DQB2,SEMA6D,TENM2,CD86,MUC4,MYO7A,ATP1B3,NRXN3,CNTN1,EMCN,ITGB6,NRCAM,KCNMB2,FCRL6,DLC1,EXOC4,GPNMB,BTNL2,SYNDIG1,ANTXR2,TRAF1,SVOP,PARD3,ST3GAL5,PARD6G,GRIK4,STK39,AGTR1,CIT,PKN2,FAF1,INSR,GPC6,APBB1IP,DENND1A,NOS1AP,FYN,IL31RA,NPFFR2,ENOX1,MMP15,PTPRD,PTPRC,PLB1,CFLAR,LHCGR,PPP1CC,ADTRP,LRP1,SCN1A,SGMS1,CACHD1,IL1R1,EPHA5,GPR156,HMCN1,ITGAL,KL,GRIN2B,KCNK5,CDH23,LGR5,IL5RA,EPS8,PPP3CA,CACNB4,LMO7,CADM1,PDE4B,ARHGAP25,EGFR,GRIK3,CD46,LIMA1,AKAP6,CPEB1,RAPGEF6,FCN1,MYLK,DLG2,EFNA5,TGFBR3,ASAP1,DST,SLC8A1,CD163,ROR1,MGAM,MACF1,PLXNC1,RASGRP3,SLC14A2,ADGRD1,GPHN,SMO,PSD3,CNTNAP2,DLGAP2,NAIP,FGD5,EVC,SGIP1,UNC13C,SLC16A10,ATAD1,ARHGAP32,PKD1L1,CCR5,IL23R,GHR,LDLR,PTGS2,NRP1,SHROOM3,MEGF11,PLXNA4,DNM3,SEMA6A,P2RX1,CPO,EDNRB,GNAL,ABCC9,KLRD1,PARD3B,PTPRN2,GNG2,HLA-DOB,FARP1,LMAN2,ADAM23,ATP2A2,ADA,SYNE2,ANK3,AHNAK,ABCB11,GRM5,DTNA,LGR6,PPP3CB,KANK1,HIP1,PLGRKT,PTPRS,PTGER3,TMC1,SYK,SYNE1,PRKCG,SLC2A13,CHRNA7,GPM6A,PGM5,CACNA1C,PROM1 |
| GO:CC | sarcoplasmic reticulum membrane | GO:0033017 | 0.04082 | 1.389123 | 38 | 756 | 8 | 18842 | RYR3,ASPH,NOS1AP,AKAP6,CASQ2,RYR2,ATP2A2,SYNE2 |
| GO:CC | axon | GO:0030424 | 0.046459 | 1.33293 | 627 | 756 | 45 | 18842 | SEPT8,TENM2,NRCAM,EXOC4,CPNE6,PARD3,INSR,MBP,IL31RA,LRP1,SCN1A,MYH14,EPHA5,CRTAC1,EPS8,APBB2,GRIK3,DLG2,SNAPIN,DST,UNC80,ROR1,PRKCB,SBF2,CNTNAP2,ZC3H14,UNC13C,GLDN,KIF13B,KIRREL3,NRP1,NGEF,DNM3,SEMA6A,WDFY3,MAP6,SHTN1,PTPRN2,NFIB,ANK3,DTNA,PTPRS,YWHAE,PRKCG,GPM6A |
| KEGG | Calcium signaling pathway | KEGG:04020 | 0.001006 | 2.997457 | 192 | 339 | 23 | 7772 | RYR3,PPIF,ASPH,AGTR1,LHCGR,PPP3CA,EGFR,MYLK,SLC8A1,PRKCB,CASQ2,CAMK1G,RYR2,P2RX1,EDNRB,GNAL,ATP2A2,GRM5,PPP3CB,PTGER3,PRKCG,CHRNA7,CACNA1C |
| KEGG | Axon guidance | KEGG:04360 | 0.011343 | 1.945264 | 180 | 339 | 20 | 7772 | SEMA6D,NCK2,PARD3,PARD6G,ABLIM3,FYN,NFATC2,EPHA5,SLIT3,PPP3CA,SLIT1,BMP7,EFNA5,PLXNC1,SMO,NRP1,NGEF,PLXNA4,SEMA6A,PPP3CB |
| KEGG | Rap1 signaling pathway | KEGG:04015 | 0.03396 | 1.469029 | 210 | 339 | 21 | 7772 | FARP2,RAPGEF5,PARD3,PARD6G,INSR,APBB1IP,DOCK4,CRK,ITGAL,GRIN2B,RAPGEF1,FGF1,EGFR,RAPGEF6,EFNA5,MAGI2,RASGRP3,PRKCB,ANGPT2,TLN2,PRKCG |

| source | term_name | term_id | adjusted_p_value | negative_log10_of_adjusted_p_value | term_size | query_size | intersection_size | effective_domain_size | intersections |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | MHC class II protein complex | GO:0042613 | 0.001912 | 2.718471 | 16 | 149 | 4 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5,HLA-DQB1 |
| GO:CC | MHC protein complex | GO:0042611 | 0.010628 | 1.97356 | 24 | 149 | 4 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5,HLA-DQB1 |
| GO:CC | trans-Golgi network membrane | GO:0032588 | 0.024005 | 1.619706 | 90 | 149 | 6 | 18842 | HLA-DQB2,HLA-DQA1,SCAMP2,CALN1,HLA-DRB5,NSG1 |
| GO:CC | vesicle | GO:0031982 | 0.047408 | 1.324149 | 3891 | 149 | 50 | 18842 | SLC15A4,XPNPEP1,VAMP5,NCALD,MALRD1,HLA-DQB2,HLA-DQA1,SCAMP2,KRT5,SLC9A3,MUC4,S100A14,SERPINB9,SLC2A1,PACSIN2,TSPAN1,APBA1,MAP6D1,MTSS1,TEX14,TAGLN2,DEFA3,RHOJ,MX2,RYR3,SERHL2,SERPINF2,IRF7,PDXK,RAPGEF6,HLA-DRB5,NRXN1,APBA2,MYO1D,EDIL3,PGAM2,NOTCH1,PLD3,ENPP6,GNG7,C3,SCN10A,RAP1A,GHRL,SYT6,SPIRE2,SELL,NSG1,SPTBN1,NAPRT |
| TF | Factor: FOSB; motif: NRTGACTCAYN | TF:M09614 | 0.044459 | 1.352044 | 20 | 156 | 4 | 19887 | SAMD3,EFHB,TAGLN2,ABCG2 |
| TF | Factor: FOSB; motif: NRTGACTCAYN; match class: 0 | TF:M09614_0 | 0.044459 | 1.352044 | 20 | 156 | 4 | 19887 | SAMD3,EFHB,TAGLN2,ABCG2 |

| source | term_name | term_id | adjusted_p_value | negative_log10_of_adjusted_p_value | term_size | query_size | intersection_size | effective_domain_size | intersections |
|---|---|---|---|---|---|---|---|---|---|
| GO:CC | MHC class II protein complex | GO:0042613 | 0.000166 | 3.781108 | 16 | 82 | 4 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5,HLA-DQB1 |
| GO:CC | MHC protein complex | GO:0042611 | 0.000941 | 3.02632 | 24 | 82 | 4 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5,HLA-DQB1 |
| GO:CC | vesicle | GO:0031982 | 0.011419 | 1.942385 | 3891 | 82 | 33 | 18842 | SLC15A4,XPNPEP1,VAMP5,NCALD,MALRD1,HLA-DQB2,HLA-DQA1,SCAMP2,KRT5,SLC9A3,MUC4,S100A14,SERPINB9,SLC2A1,PACSIN2,TSPAN1,APBA1,MAP6D1,MTSS1,TEX14,TAGLN2,DEFA3,RHOJ,MX2,RYR3,SERHL2,SERPINF2,IRF7,PDXK,RAPGEF6,HLA-DRB5,NRXN1,APBA2 |
| GO:CC | trans-Golgi network membrane | GO:0032588 | 0.012896 | 1.889558 | 90 | 82 | 5 | 18842 | HLA-DQB2,HLA-DQA1,SCAMP2,CALN1,HLA-DRB5 |
| GO:CC | cytoplasmic vesicle | GO:0031410 | 0.033279 | 1.477827 | 2346 | 82 | 23 | 18842 | SLC15A4,VAMP5,NCALD,MALRD1,HLA-DQB2,HLA-DQA1,SCAMP2,SLC2A1,PACSIN2,APBA1,MAP6D1,MTSS1,DEFA3,MX2,RYR3,SERHL2,SERPINF2,IRF7,PDXK,RAPGEF6,HLA-DRB5,NRXN1,APBA2 |
| GO:CC | intracellular vesicle | GO:0097708 | 0.033935 | 1.469355 | 2349 | 82 | 23 | 18842 | SLC15A4,VAMP5,NCALD,MALRD1,HLA-DQB2,HLA-DQA1,SCAMP2,SLC2A1,PACSIN2,APBA1,MAP6D1,MTSS1,DEFA3,MX2,RYR3,SERHL2,SERPINF2,IRF7,PDXK,RAPGEF6,HLA-DRB5,NRXN1,APBA2 |
| GO:CC | integral component of lumenal side of endoplasmic reticulum membrane | GO:0071556 | 0.048442 | 1.314781 | 25 | 82 | 3 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5 |
| GO:CC | lumenal side of endoplasmic reticulum membrane | GO:0098553 | 0.048442 | 1.314781 | 25 | 82 | 3 | 18842 | HLA-DQB2,HLA-DQA1,HLA-DRB5 |
| REAC | Translocation of ZAP-70 to Immunological synapse | REAC:R-HSA-202430 | 0.028411 | 1.546521 | 20 | 47 | 3 | 10565 | HLA-DQB2,HLA-DQA1,HLA-DRB5 |
| REAC | Phosphorylation of CD3 and TCR zeta chains | REAC:R-HSA-202427 | 0.043725 | 1.359274 | 23 | 47 | 3 | 10565 | HLA-DQB2,HLA-DQA1,HLA-DRB5 |
| REAC | PD-1 signaling | REAC:R-HSA-389948 | 0.049815 | 1.302637 | 24 | 47 | 3 | 10565 | HLA-DQB2,HLA-DQA1,HLA-DRB5 |
| TF | Factor: FOSB; motif: NRTGACTCAYN | TF:M09614 | 0.003573 | 2.446989 | 20 | 85 | 4 | 19887 | SAMD3,EFHB,TAGLN2,ABCG2 |
| TF | Factor: FOSB; motif: NRTGACTCAYN; match class: 0 | TF:M09614_0 | 0.003573 | 2.446989 | 20 | 85 | 4 | 19887 | SAMD3,EFHB,TAGLN2,ABCG2 |
| TF | Factor: JunB; motif: NRRTGASTCAK; match class: 1 | TF:M07103_1 | 0.036319 | 1.439871 | 429 | 85 | 10 | 19887 | MALRD1,SCAMP2,SAMD3,KRT5,SLFN12,CTRB1,EFHB,KLHDC7A,TAGLN2,ABCG2 |