

Table S2. Results of SAM analysis between different subtypes of eMPM in TCGA.

Data is representing overexpression of gene in two subtype in positive and minus value.

(1).Gene were ordered according the SAM significance, gene with the positive value were

overexpressed in subtype II of eMPM whereas minus value genes were overexpressed in subtype I.

(2).Significance increased with decreased of absolute values of ranks from 10 to 1 or -10-1.Rank 1 or -1 genes are the most significant of SAM results.

Gene symbol	TCGA sitosII	Gene symbol	TCGA sitosII	Gene symbol	TCGA sitosII	Gene symbol	TCGA sitosII	Gene symbol	TCGA sitosII
TLX3	-1161 SLC2A3	-858 TNNI3	-554 LOC283404	-250 KRT39	55				
GIPR	-1160 RIPPVY2	-857 CHMP4C	-553 HOXA11	-249 CCBP2	56				
DUOX2	-1159 SLC17A8	-856 AMHR2	-552 PCDH10	-248 DMBT1	57				
CABP4	-1158 C2orf27A	-855 RTN4RL2	-551 CORO6	-247 FAM19A4	58				
C17orf64	-1157 ZBED2	-854 CREB3L1	-550 PRSS35	-246 SLC10A1	59				
STK33	-1156 DLX2	-853 ADAMTS4	-549 PTH2R	-245 HS3ST6	60				
CDH7	-1155 LOC344967	-852 PURG	-548 PAQR9	-244 KCNJ13	61				
CDH18	-1154 FAT4	-851 C11orf70	-547 GSG1	-243 SLC30A2	62				
ANKRD34A	-1153 SLC39A14	-850 TNFRSF19	-546 E2F7	-242 CRHR1	63				
SLC4A8	-1152 ITGA7	-849 SPATA8	-545 SP7	-241 C6orf176	64				
TCN1	-1151 IGLON5	-848 DPYSL4	-544 PPP4R1L	-240 BTC	65				
DACT3	-1150 SMC1B	-847 OPN4	-543 LOC100190938	-239 ZNF385B	66				
TMEM139	-1149 HMP19	-846 F12	-542 NDRG4	-238 SHISA3	67				
B3GNT3	-1148 GPR173	-845 DLGAP5	-541 PRKG1	-237 RBP5	68				
SYT14	-1147 REM1	-844 FXYD7	-540 ALDH1A3	-236 FRMPD4	69				
PRSS8	-1146 KLF17	-843 TRPS1	-539 PDLIM3	-235 CYP24A1	70				
PCDH19	-1145 FOXB1	-842 SLFN13	-538 FSD1	-234 AIPL1	71				
ZNF582	-1144 EPOR	-841 LHX2	-537 DPYSL3	-233 HRASLS2	72				
UTF1	-1143 CNTN5	-840 RHOBTB1	-536 SGCG	-232 CYP3A4	73				
NUAK1	-1142 ESPL1	-839 COL7A1	-535 OVCH2	-231 MAB21L2	74				
DUSP7	-1141 ARID5B	-838 IL11	-534 DRP2	-230 NRG4	75				
CIQTNF2	-1140 SPRED3	-837 NAV1	-533 ST6GALNAC5	-229 DKFZp779M06	76				
SERINC2	-1139 DCBLD1	-836 GREB1L	-532 ZSCAN12P1	-228 DHODH	77				
KRT33B	-1138 CFHR3	-835 DAD1L	-531 DNAJC12	-227 SLC24A3	78				
SLC19A2	-1137 HTR1F	-834 CREB5	-530 FAM133A	-226 CNTFR	79				
ZIC4	-1136 HOXA4	-833 ITGB3	-529 ITGA11	-225 LOC400759	80				
COL12A1	-1135 CTH	-832 CNKSR3	-528 KIF14	-224 LPPR1	81				
C9orf84	-1134 RSPH4A	-831 UBE2Q2P1	-527 COMP	-223 KCND3	82				
PTCH2	-1133 USH1C	-830 FAM19A3	-526 ETV4	-222 CLRN3	83				
LOC644538	-1132 NAALADL1	-829 ENAH	-525 PEAR1	-221 SERPINB10	84				
FAM101B	-1131 KIF25	-828 CLDN18	-524 KCNT2	-220 ALDH1L1	85				
ANGPT1	-1130 RHEBL1	-827 MPP2	-523 BICD1	-219 HSD17B6	86				
OSR2	-1129 TDRD9	-826 CLEC5A	-522 LOC283731	-218 RASGEF1C	87				
KIF11	-1128 PKDCC	-825 PODNL1	-521 NXPB2	-217 DPY5	88				
LOC285847	-1127 OLIG3	-824 CPA5	-520 KIF18B	-216 CHAC1	89				
WISP1	-1126 CPEB1	-823 RBMXL2	-519 SLITRK5	-215 NCRNA00113	90				
TP63	-1125 CLEC2A	-822 TROAP	-518 QPRT	-214 CEACAM6	91				
ANKRD33	-1124 ALDH1L2	-821 GFRA3	-517 NPW	-213 TCEAL2	92				
GABRB2	-1123 ITGA2	-820 MMP16	-516 NOX5	-212 HIST1H3H	93				
FAM163B	-1122 CTHRC1	-819 TMEM52	-515 KCTD16	-211 LOC441177	94				
FABP6	-1121 HAPLN1	-818 C1orf135	-514 CLDN3	-210 SLC5A7	95				
LOC100302401	-1120 SLC38A1	-817 TWIST1	-513 BCL2L10	-209 PIP5K1B	96				
WDFY2	-1119 NLGN2	-816 AMZ1	-512 HS3ST5	-208 SULT1A2	97				
FLJ22536	-1118 LGI1	-815 RALGPS2	-511 CDK5R2	-207 RET	98				
MYO16	-1117 ITPRIPL1	-814 KIF5A	-510 C2orf39	-206 ALB	99				
FAM55C	-1116 POSTN	-813 LOC283392	-509 KLRG2	-205 SPACA3	100				
CHST11	-1115 BUB1B	-812 GDF6	-508 CDC22	-204 RNF182	101				
CASC5	-1114 ADAMTS18	-811 C9orf110	-507 SOST	-203 LAMP3	102				
ASTL	-1113 CRP	-810 C1orf110	-506 C12orf53	-202 DRD5	103				
SACS	-1112 TERT	-809 C6orf222	-505 CAMKV	-201 WNT7B	104				
BARD1	-1111 DSC3	-808 SPC24	-504 EPGN	-200 MYH7B	105				
FAM92A1	-1110 RAB9B	-807 POU3F1	-503 CDH17	-199 SSTR5	106				
CETN4P	-1109 KLF14	-806 LYPD6B	-502 FZD9	-198 FAM5B	107				
MGAT3	-1108 WNT16	-805 A4GNT	-501 UGT1A8	-197 IFIT1B	108				
CDC25A	-1107 TMEM40	-804 UBE2C	-500 C9orf70	-196 ADAMTS8	109				
SNHG4	-1106 NTM	-803 ELOVL4	-499 FGFBP1	-195 PTPRT	110				
SGCD	-1105 GLDC	-802 C15orf26	-498 A1BG	-194 HSH2D	111				
JPH2	-1104 MAP1A	-801 SLIT2	-497 GRIA4	-193 SPINK2	112				
ILDR2	-1103 GGT8P	-800 RUNX1T1	-496 CNN1	-192 NPY1R	113				
TAS2R5	-1102 SLC38A3	-799 FTCD	-495 SAMD14	-191 SERPINI1	114				
PI15	-1101 CPLX3	-798 CCDC144C	-494 ACTBL2	-190 TUBA3C	115				
CLCN4	-1100 CLCF1	-797 ARHGAP42	-493 TNFRSF9	-189 SLC7A4	116				
SUCNR1	-1099 CCDC36	-796 MCF2L2	-492 MAP7D2	-188 CFC1B	117				
RELL2	-1098 PCNLX2	-795 LOC647859	-491 GCNT3	-187 RAET1E	118				
MRAS	-1097 KLK4	-794 TMEM133	-490 FHAD1	-186 SYT4	119				
SNORA59B	-1096 DENND2C	-793 SRPK3	-489 ACAN	-185 COL9A3	120				
MMRN1	-1095 CHRM4	-792 GTSE1	-488 KCNE1L	-184 ARMS2	121				
GK3P	-1094 CRABP2	-791 NPR3	-487 C11orf88	-183 NTNG1	122				
PRR7	-1093 FOXL1	-790 KIF26B	-486 C12orf70	-182 HIST1H2BD	123				
CPA4	-1092 C12orf77	-789 S100A2	-485 DGKI	-181 LOC285696	124				
CDX1	-1091 IQGAP3	-788 CRTAC1	-484 SLC9A4	-180 POM121L2	125				
GP5	-1090 CDC48	-787 CCDC19	-483 TTK	-179 WSCD1	126				
ZDHC8C1	-1089 C1QL4	-786 SLC6A19	-482 LOC100130933	-178 IRX6	127				
PLAT	-1088 C15orf42	-785 SLC39A4	-481 C20orf195	-177 MARVELD3	128				
LOC728723	-1087 C2CD4D	-784 SLC13A5	-480 BCAN	-176 TGM1	129				
IRF6	-1086 RAB33A	-783 TMEM169	-479 GAS2L3	-175 ITGAD	130				
FAM72D	-1085 PRKCG	-782 FAM189A1	-478 GUCY1A2	-174 HIST1H4H	131				
COX6B2	-1084 AURKB	-781 SYT11	-477 SCG5	-173 SLC39A8	132				
CAMK2N2	-1083 MYL6P	-780 HAPLN4	-476 NPXT2	-172 PHACTR3	133				
NODAL	-1082 PELI1	-779 KBTBD12	-475 ZNF667	-171 LRAT	134				
HOXA3	-1081 OR51E1	-778 FLJ45983	-474 HOXC11	-170 PLAC2	135				
GPR45	-1080 LGALS12	-777 UGT2A1	-473 PRR11	-169 IRF7	136				
MELK	-1079 MCM10	-776 TNK1	-472 RBM20	-168 HERC6	137				

KRTAP5-8	-1078 LOC440356	-775 C9orf140	-471 CALY	-167 DPP6	138
KIF12	-1077 CCNE2	-774 DRD1	-470 PERP	-166 KCNT1	139
ARC	-1076 PDE3A	-773 CLIP3	-469 NPM2	-165 IFI44	140
ALPK3	-1075 LIPH	-772 BLM	-468 ADAMTS6	-164 MX1	141
SLC47A1	-1074 FAM9C	-771 NUF2	-467 ENPP1	-163 IFI6	142
ARAP3	-1073 OXCT2	-770 FSHR	-466 RNFT2	-162 FAM167A	143
KALRN	-1072 NWD1	-769 TEX9	-465 UGT1A6	-161 IFI44L	144
CENPK	-1071 C12orf39	-768 TRHDE	-464 SPATA12	-160 C15orf48	145
TDRD12	-1070 TAS2R46	-767 MIA	-463 HTR2A	-159 IGSF1	146
MMP2	-1069 C7orf57	-766 DMP1	-462 ODZ3	-158 CLGN	147
PRC1	-1068 ABCB5	-765 MMP13	-461 PCDH20	-157 ACSM1	148
KDELC1	-1067 THSD1	-764 ACTG2	-460 MSH4	-156 RSAD2	149
KCNN4	-1066 CTXN2	-763 ZNF699	-459 CPNE7	-155 REG1B	150
GALNTL6	-1065 CENPW	-762 PSD2	-458 SERPINE1	-154 RPRM	151
S100A5	-1064 CDC45	-761 ST6GALNAC3	-457 MMP7	-153 TRIM55	152
C2orf65	-1063 IRS1	-760 RACGAP1P	-456 RASL11B	-152 PEX5L	153
CDC113	-1062 AKAP14	-759 ALX1	-455 DLX1	-151 IL28A	154
PORCN	-1061 PBX4	-758 KHDRBS2	-454 C5orf46	-150 CBLN1	155
NELL2	-1060 NEK2	-757 TBXA2R	-453 SEMA3D	-149 LOC100132354	156
ABCC4	-1059 IGF2BP1	-756 CPT1C	-452 KRT80	-148 C1orf173	157
LRRC10B	-1058 KCNMA1	-755 THBS2	-451 TNNC1	-147 SLC4A4	158
KIAA1462	-1057 GPR3	-754 GPR87	-450 IQUB	-146 UPK1B	159
PM20D1	-1056 PROM1	-753 BUB1	-449 TPSG1	-145 PAH	160
LOC653653	-1055 MGAM	-752 AADAC	-448 FAT3	-144 TJP3	161
C10orf55	-1054 AQP5	-751 MURC	-447 DLL3	-143 PPARGC1A	162
PRAME	-1053 TPPP3	-750 DYNC11I	-446 DLX5	-142 SLC26A9	163
MTMR9L	-1052 LGALS7B	-749 GJC1	-445 FBN2	-141 ATP6V1B1	164
GJB3	-1051 HOXA1	-748 CYP27B1	-444 MAST1	-140 LPHN3	165
SLC2A10	-1050 ARHGEF3	-747 PTTG3P	-443 ANKRD30B	-139 ITPKA	166
FOSL1	-1049 ZNF389	-746 IGSF10	-442 SPRR2D	-138 Cxorf49B	167
C6orf227	-1048 LOC285629	-745 C6orf168	-441 DPEP1	-137 KIR2DL3	168
PVRL4	-1047 GEM	-744 KIF23	-440 CACNA2D1	-136 IFIT2	169
HRNBP3	-1046 SLC7A5	-743 DNMI	-439 TTLL7	-135 KCNA1	170
CDK15	-1045 CENPF	-742 DKKL1	-438 TRIM50	-134 FLJ42875	171
C16orf45	-1044 ABI3BP	-741 CNGB1	-437 VSTM2L	-133 SAA1	172
ZNF883	-1043 PRR16	-740 ZIC1	-436 FGF5	-132 ANXA9	173
WNT3A	-1042 REEP6	-739 PODXL	-435 SLC12A8	-131 MT1DP	174
KIAA1211	-1041 CCNE1	-738 KRT17	-434 CENPI	-130 TP53AIP1	175
FRMD7	-1040 KIAA1486	-737 MYEF2	-433 COL11A1	-129 TRIM31	176
CXCL13	-1039 HSD17B2	-736 LOC100216001	-432 CD24	-128 SSTR1	177
SOX5	-1038 SSC5D	-735 GUCY1B2	-431 PCYT1B	-127 LIPF	178
ZNF284	-1037 ADORA2B	-734 ANKRD1	-430 FILIP1L	-126 SERPINB7	179
MAP3K13	-1036 SLC22A1	-733 EXO1	-429 ZBTB8B	-125 KCNB2	180
NRADDP	-1035 DEPD1C	-732 FAM24B	-428 IGF2	-124 SPACA4	181
THY1	-1034 C7orf10	-731 TNFRSF11B	-427 TNC	-123 RTP4	182
MXRA5	-1033 C2orf66	-730 RASD2	-426 ARNTL2	-122 RARRES3	183
LEM1	-1032 SEC14L2	-729 PTPRR	-425 KIAA1199	-121 POU3F3	184
UGCG	-1031 RHOB1B	-728 KIF4A	-424 UTS2	-120 NOX1	185
TMSB15B	-1030 KIF15	-727 SNORD116-4	-423 VIT	-119 ESR2	186
MAPK10	-1029 SPC25	-726 SLC6A4	-422 MLLT11	-118 C12orf26	187
HIST1H4A	-1028 ITH5	-725 C10orf140	-421 HTR6	-117 RICH2	188
LY6D	-1027 C3orf36	-724 PTHLH	-420 FAM163A	-116 PKHD1L1	189
RUNX2	-1026 CEP55	-723 C2orf89	-419 SLC5A12	-115 IFIT1	190
RAD51AP2	-1025 CENPE	-722 ART4	-418 PTPN13	-114 EPHB6	191
KLHDC8A	-1024 NCRNA00175	-721 RBM24	-417 SPRR2E	-113 C6orf208	192
HOXA6	-1023 TMEM92	-720 ST6GALNAC1	-416 LRRC49	-112 CACHD1	193
C5orf23	-1022 SEMA3A	-719 SERPINB13	-415 GPC2	-111 DAAM1	194
LOC84740	-1021 TSPAN5	-718 SPSB4	-414 SLC16A10	-110 GPBAR1	195
TNFAIP6	-1020 RNAD	-717 ZFP28	-413 SBSN	-109 HRASLS5	196
LOC144486	-1019 CSDC2	-716 MYO22	-412 SYTL5	-108 C10orf105	197
JAM3	-1018 DAB1	-715 CDH8	-411 UGT1A10	-107 AMN	198
AFP	-1017 TUBA4B	-714 MYLK	-410 SV2A	-106 IFIT3	199
PCDH7	-1016 KIRREL3	-713 SLC5A4	-409 EDIL3	-105 MAT1A	200
HES7	-1015 MYBL2	-712 HGF	-408 SHANK1	-104 LOC286002	201
DCBLD2	-1014 KIAA0895	-711 TMEM200A	-407 SYT10	-103 BBOX1	202
CBLC	-1013 ZYG11A	-710 RNF43	-406 GPR63	-102 CHRDL2	203
C13orf30	-1012 CDC54	-709 LRRC15	-405 ZNF365	-101 CPO	204
PSRC1	-1011 CSPG4	-708 STMN2	-404 ADAMTS14	-100 STAC2	205
MYOD1	-1010 SPRR2G	-707 SPRR2B	-403 KRT7	-99 ISG15	206
ASAM	-1009 CHRNA1	-706 SALL1	-402 SPRR2F	-98 NNAT	207
NRIP3	-1008 AFF2	-705 ICAM5	-401 GLYATL2	-97 KRTDAP	208
TNS4	-1007 SGO1	-704 ACTN3	-400 UCN2	-96 TLR3	209
CHST5	-1006 CPS1	-703 LIX1	-399 SFTA1P	-95 CKB	210
CYBSR2	-1005 SKA3	-702 C3orf32	-398 CHST6	-94 RAB40A	211
TK1	-1004 SPESP1	-701 SULF4A1	-397 STRA6	-93 CCL11	212
CDKN3	-1003 PRND	-700 BPIL2	-396 GPC6	-92 KCNK5	213
TMEM163	-1002 MYLK2	-699 FSIP1	-395 IVL	-91 INMT	214
MGC16121	-1001 RSPH9	-698 C9orf4	-394 OXTR	-90 RAB40AL	215
FGF10	-1000 RASAL2	-697 HAS2A5	-393 ARTN	-89 FCER2	216
IL17D	-999 OIT3	-696 STXBPSL	-392 PRR18	-88 C4BPA	217
XRCC6BP1	-998 CNIH2	-695 TTBK1	-391 GALNT5	-87 GLIPR1L2	218
FAM135B	-997 C6orf132	-694 PAX6	-390 LRRIQ1	-86 UNC93A	219
ADAM19	-996 LOC90246	-693 LAYN	-389 IGFN1	-85 ZFY	220
PCDHA4	-995 NEFM	-692 GUCA1A	-388 PPFA4	-84 PIK3C2B	221
LOC400804	-994 CDC33	-691 C19orf45	-387 MFAP5	-83 CREG2	222
IL1RL2	-993 C21orf62	-690 CCDC151	-386 VNN1	-82 SOX6	223
C9orf47	-992 UPK1A	-689 UNC13A	-385 BRSK1	-81 LINGO4	224
LRP8	-991 ATRNL1	-688 FADS2	-384 CA12	-80 PDZD3	225
CPA1	-990 TMEM132A	-687 DEPD1C	-383 CD109	-79 SLC6A3	226

RND1	-989 GALNT8	-686 DMD	-382 IBSP	-78 ADRA1B	227
ETV1	-988 AQP6	-685 HSF2BP	-381 MYOM3	-77 SLC19A3	228
PSD3	-987 HPCAL4	-684 COL24A1	-380 CDH10	-76 FCN1	229
FAM72A	-986 FAM26E	-683 AQP10	-379 SHC3	-75 HIST1H1C	230
LOC286467	-985 ZNF677	-682 ZNF135	-378 KIAA1751	-74 RAX2	231
TRPA1	-984 TMEM158	-681 TSPAN11	-377 DPF1	-73 TST	232
OBP2A	-983 OCLN	-680 DES	-376 NPY	-72 CSAG3	233
ZNF423	-982 TMEFF2	-679 RNF128	-375 ALPK2	-71 SLC6A14	234
TXNDC2	-981 SERPINB5	-678 MESTIT1	-374 PALM3	-70 SUSDA	235
PNPLA3	-980 FANCB	-677 KIF3C	-373 RGS4	-69 TMEM114	236
KIAA1549	-979 COL10A1	-676 C10orf107	-372 TDRD6	-68 C14orf176	237
CCR8	-978 SNAI1	-675 CCDC150	-371 LRCH2	-67 KLHL31	238
SLC27A5	-977 ENTHD1	-674 ACHE	-370 SPOCD1	-66 CYP4F11	239
MAGEC3	-976 ZNF221	-673 EYA4	-369 ITGB6	-65 HS6ST3	240
FAM157A	-975 LPO	-672 PDZD7	-368 GAL3ST3	-64 OAS1	241
RUND2C2	-974 TBX20	-671 KIF4B	-367 E2F8	-63 STAP1	242
KRT16	-973 USP54	-670 HOTAIR	-366 NPPB	-62 PKD1L2	243
EXTL1	-972 TMEM200C	-669 HDGFRP3	-365 INHBA	-61 FAM134B	244
COL2A1	-971 TM4SF20	-668 DAZL	-364 C6orf141	-60 CYP11A1	245
PLK1	-970 INPP4B	-667 SRRM4	-363 MGC45800	-59 FBXO39	246
PDLIM7	-969 HAND2	-666 GCKR	-362 IL13RA2	-58 TNFSF13B	247
MOSP01	-968 GATSL2	-665 SCN2B	-361 XIRP1	-57 DGC5	248
HTATIP2	-967 COL3A1	-664 OR51E2	-360 SUGT1P1	-56 SAA2	249
GPR152	-966 SCUBE1	-663 SLC16A11	-359 BEST3	-55 IL18BP	250
ADD2	-965 KCTD14	-662 ADAMTSL5	-358 RSPO2	-54 KCNA6	251
MFHAS1	-964 CRYM	-661 TFF3	-357 SLC38A4	-53 LAMB3	252
SYNGR3	-963 GRID2	-660 ANKRD43	-356 TRIM46	-52 SAA4	253
DTL	-962 CRABP1	-659 CDCA2	-355 EPYC	-51 ANKK1	254
CNN2	-961 TRDN	-658 VSX1	-354 F5	-50 MUC16	255
CDK1	-960 C12orf63	-657 SLC25A27	-353 LOC222699	-49 RGS22	256
NOX4	-959 OLFML2B	-656 PIF1	-352 DACT2	-48 USP18	257
DCHS2	-958 C11orf82	-655 C21orf125	-351 MOV10L1	-47 GRAMD1C	258
C21orf84	-957 AQP2	-654 TYRP1	-350 UGT1A1	-46 LOC400696	259
AK5	-956 LOC151174	-653 SLC45A1	-349 SYT5	-45 ZBTB16	260
SNTG1	-955 CXCC4	-652 ABCG4	-348 TSPAN2	-44 C13orf36	261
SLC17A9	-954 ORC1L	-651 TEX15	-347 ODZ2	-43 BCO2	262
PNPLA1	-953 DEPD1	-650 ENC1	-346 NCRNA00189	-42 IL29	263
GBA3	-952 PAD13	-649 DSG3	-345 ADAMTS5	-41 C14orf68	264
TRH	-951 CYP2B7P1	-648 TMEM90B	-344 PHEX	-40 PDZK1P1	265
SLC7A5P1	-950 KRTAP5-2	-647 STAC	-343 IGFL3	-39 LOC644165	266
LOC442421	-949 GLB1L3	-646 ROS1	-342 UGT1A9	-38 C17orf102	267
AKR1B15	-948 CCDC148	-645 CILP	-341 LOC554202	-37 LOC146336	268
SMPX	-947 TNIP3	-644 KCNQ5	-340 CLDN1	-36 CSAG1	269
PRAP1	-946 NPY6R	-643 CCL28	-339 SLC35D3	-35 GHRHR	270
CNTNAP1	-945 C11orf20	-642 PKP3	-338 GPR176	-34 LOC257358	271
ADAM22	-944 CDC20	-641 HMSD	-337 CDH2	-33 LMX1B	272
ZNF625	-943 KIAA1614	-640 MGC4473	-336 FAM40B	-32 SCARA3	273
ULBP3	-942 INPP5J	-639 ANXA13	-335 CAMK2A	-31 ADCY3	274
SOX2	-941 AKR1E2	-638 DAND5	-334 MUC12	-30 SELENBP1	275
GTF2A1L	-940 TNNI1	-637 KRT13	-333 KLHL38	-29 TNNI3K	276
ZNF833	-939 PGBD1	-636 SP9	-332 ISL2	-28 FHDC1	277
RGS17	-938 CUZD1	-635 LOC157381	-331 CCBE1	-27 IFI27	278
FAM179A	-937 TGM4	-634 RANBP3L	-330 HSPB3	-26 TCERG1L	279
SLC7A11	-936 L1CAM	-633 LARP6	-329 IGF2BP2	-25 SMAD5OS	280
S100A3	-935 LOC100133893	-632 FN1	-328 APCDD1L	-24 CRHBP	281
GLI1	-934 FOXC2	-631 TMC3	-327 CLDN16	-23 SGPP2	282
C19orf71	-933 SLC45A2	-630 IL12B	-326 SULT1B1	-22 TGM3	283
HKDC1	-932 KRT75	-629 BCAS1	-325 C12orf68	-21 SLC28A3	284
ZNF222	-931 PAX3	-628 ENOX1	-324 CYP39A1	-20 ZNF676	285
SEC16B	-930 NOS3	-627 RBMS3	-323 FRMD5	-19 CCDC135	286
AMBP	-929 GLDN	-626 CYP2C8	-322 SLC22A3	-18 C11orf67	287
F2R	-928 C1orf92	-625 TIAM2	-321 SBK2	-17 MREG	288
MEST	-927 TREM1	-624 LIN7A	-320 SHOX2	-16 HIST1H2AC	289
FOX51	-926 FAM54A	-623 DIRAS2	-319 LHX9	-15 FAM150A	290
PTPN20B	-925 SLC22A2	-622 GIP	-318 KCNN2	-14 RBM46	291
HUS1B	-924 ME1	-621 WDR66	-317 INA	-13 CYP4B1	292
GRIK1	-923 ZNF439	-620 ARSI	-316 IGFBP1	-12 FAM3B	293
AXL	-922 CKAP2L	-619 UNC5C	-315 ADAMTS16	-11 KIF26A	294
H2BFXP	-921 IRX4	-618 DACT1	-314 SEC14L4	-10 LAG3	295
OTX1	-920 CALB1	-617 CLDN14	-313 SULT1E1	-9 OVOL2	296
DNAH2	-919 ARL10	-616 ISL1	-312 DKFZp434J022	-8 PHLPP2	297
CCDC158	-918 MYO1B	-615 KAAG1	-311 RASSF9	-7 SCEL	298
ADAM12	-917 C6orf124	-614 TLL1	-310 TUBB2B	-6 CYP3A43	299
WDR49	-916 TPRG1	-613 SH3GL3	-309 KRT14	-5 HERC5	300
FBXO32	-915 NCAPH	-612 B4GALNT1	-308 NCRNA00162	-4 KGFLP2	301
BCAT1	-914 TP53TG3B	-611 HOXA11A5	-307 DKK1	-3 RASGRP4	302
IGSF9B	-913 EDNRA	-610 SGF	-306 RAB3B	-2 NFKBIZ	303
C3orf55	-912 SOAT2	-609 SEMA3E	-305 KCNS1	-1 KCNA5	304
ZSWIM4	-911 PPIA2	-608 PRR5L	-304 ADH1A	1 ALOX12B	305
CYP251	-910 NBP16	-607 LTBP1	-303 MRAP	2 FLJ35024	306
ARL3	-909 NGFR	-606 SKA1	-302 CHST4	3 ASPA	307
SCT	-908 ZNF471	-605 GLP2R	-301 FAM83E	4 GDDP5	308
RPA4	-907 TMEM233	-604 TGFBI1	-300 C14orf64	5 SLC14A1	309
RDM1	-906 TFR2	-603 PTPLB	-299 VIPR2	6 CARN51	310
GSDMC	-905 ZNF385D	-602 KLHL4	-298 ACE2	7 HIST1H1T	311
FOXP2	-904 TNFSF11	-601 LCA5	-297 DSCAML1	8 FAM164C	312
SLC30A10	-903 ISLR2	-600 PKD1L1	-296 PRIMA1	9 GRIA1	313
NKAIN2	-902 HHIP	-599 ANLN	-295 UGT3A1	10 ZBP1	314
LCTL	-901 CSRP3	-598 IPMK	-294 GAS2	11 AJAP1	315

DCDC1	-900 PRSS3	-597 MYBPC2	-293 PRR15L	12 HIST1H2BC	316
KCNH4	-899 C3orf67	-596 ZNF608	-292 OLIG1	13 PLB1	317
LOC55908	-898 ERCC6L	-595 TM6SF2	-291 LIPM	14 CES4	318
TMEM231	-897 DENND2A	-594 LOC730668	-290 DMRTC1B	15 RSP04	319
IFNE	-896 KIF20A	-593 FAM64A	-289 ADH1B	16 C10orf95	320
WDR62	-895 ZIC2	-592 BACH2	-288 ADH6	17 GHR	321
MIR155HG	-894 HES2	-591 FRG2C	-287 RUFY4	18 PLEKHH2	322
AVPR1A	-893 XK	-590 FIBCD1	-286 SLC14A2	19 ACVR1C	323
TSNAX-DISC1	-892 EPHA3	-589 SLITRK6	-285 PKHD1	20 GPM6A	324
NFE2L3	-891 CDH6	-588 INHBE	-284 PKD1L3	21 PCDH11Y	325
TRIP13	-890 CCIN	-587 MEIS3	-283 ISM2	22 PCDHGB2	326
NLRP14	-889 KIAA1324	-586 FZRL3	-282 REG1A	23 CYS1	327
KRT71	-888 LXB1	-585 KLC3	-281 CDKN2A	24 CD209	328
ITGA10	-887 PTPRN	-584 C19orf26	-280 TGM5	25 CXCL6	329
FAM131C	-886 RIBC2	-583 MCHR1	-279 LOC154822	26 B3GNT7	330
LOC121838	-885 PDE4C	-582 C10orf67	-278 TUBAL3	27 POU2F3	331
C17orf100	-884 LYPD1	-581 MGAT4C	-277 RDH16	28 FSTL4	332
SATB2	-883 HERC2P4	-580 NMNAT2	-276 NRG3	29 LOC100128788	333
GRIA2	-882 CHRNA9	-579 LCNL1	-275 LOC100133465	30 RSP01	334
GOLGA8C	-881 TRPM3	-578 C6orf186	-274 CYP8B1	31 ALPI	335
SLC17A7	-880 SNX32	-577 GDNF	-273 CD300LD	32 EPB42	336
NAV2	-879 KCNK12	-576 BEND6	-272 CCL7	33 NT5C3	337
FLJ30679	-878 EMR4P	-575 MMP23A	-271 RBP4	34 HLF	338
ELAVL3	-877 SPRR2A	-574 BTNL8	-270 SORBS2	35 PAK7	339
CCDC68	-876 CDCA7	-573 TRIM54	-269 FGF7	36 OASL	340
ATP6V0A4	-875 FHOD3	-572 LOXL2	-268 KCNH5	37 S100A12	341
SLC12A5	-874 KCNAB3	-571 C8orf84	-267 PLA2G1B	38 IFIH1	342
ARMC3	-873 DNAH3	-570 DLX3	-266 BTBD16	39 C9	343
PMAIP1	-872 ZCCHC18	-569 CCNA1	-265 CXCL1	40 HIST1H2BK	344
MYOZ3	-871 LEPREL2	-568 ILSRA	-264 HP	41 CA4	345
UGT1A7	-870 LDLR	-567 ATG9B	-263 OR4N2	42 CYB5A	346
IL1A	-869 LOC441204	-566 SNAP25	-262 HPR	43 KIR3DL1	347
KRT9	-868 KRT79	-565 SYNPO2L	-261 LCN2	44 GFPT2	348
VCAN	-867 FMN2	-564 GPR156	-260 AGXT2L1	45 KANK4	349
NOS2	-866 ALOX15B	-563 MAP6	-259 CRB1	46 PLLP	350
ARX	-865 XRCC2	-562 GSDMA	-258 PCDH11X	47 SIGLEC16	351
ULBP1	-864 DST	-561 HMGA2	-257 RAET1G	48 CYP4F12	352
FOXO3	-863 NKX2-5	-560 GNB3	-256 BARX2	49 REC8	353
TNFSF4	-862 SLITRK1	-559 COL5A2	-255 NFE2	50 ALG1L	354
TMEM90A	-861 TCEAL7	-558 KERA	-254 C17orf77	51 NXNL2	355
TCAM1P	-860 S1PR3	-557 SLITRK3	-253 TAT	52 PHYHIP	356
SGCE	-859 OXGR1	-556 ARHGAP6	-252 DNAH9	53 RIMKLA	357
	NCRNA00181	-555 NALCN	-251 CXCR2P1	54 PLA2G2A	358
				IL1RN	359