## Supplemental Data



Figure S1. ROC curve computed for the same results as shown in Figures 3a and 3d where we generate the marginal statistics directly from the LD structure and we implant one causal variant in the locus. The x-axis is the false positive rate and the $y$-axis is the true positive rate. Panels (a) and (b) indicate the result for the case we have $50 \%$ and $80 \%$ for the causal variant, respectively.


Figure S2. eCAVIAR quantification of CLPP depends on LD. We compute the probability of the same variant is causal in both GWAS and eQTL as we vary the Pearson's correlation between pair of variants. We observe that as we increase the correlation, which increase the LD complexity, the CLPP value decreases and the variance of the computed CLPP increases. We simulate datasets where we range the average Pearson's correlation between pair of variants from 0.1 to 0.9 . In this setting, we implant only one causal variant in the same variant for both eQTL and GWAS. The NCP is set such that we have $50 \%$ power. Then, we simulate the marginal statistics for 1000 times.


Figure S3. eCAVIAR has high true negative (TN) rate and low false negative (FN) rate. We set the noncolocalization cut-off threshold to $0.01 \%$


Figure S4. eCAVIAR has high negative predictive value (NPV). Panels (a), (b), and (c) illustrate the results for cases where we implant one, two, and three causal variants, respectively. We set NCP such that the statistical power at the causal variant is $50 \%$ or $80 \%$.

(a)

Figure S5. eCAVIAR, RTC, and COLOC have similar recall rate in the case where we have one causal variant in a locus. The x -axis is the colocalization cut-off threshold. We set the non-colocalization cut-off threshold to $0.1 \%$.


Figure S6. eCAVIAR is more accurate than existing methods for regions with one causal variant. We compared the accuracy and precision of eCAVIAR with the two existing methods (RTC and COLOC). The x -axis is the colocalization cut-off threshold. We set the non-colocalization cut-off threshold to $0.01 \%$.


Figure S7. eCAVIAR is more accurate than existing methods in presence of allelic heterogeneity. We use similar process to generate the datasets as shown in Figure 4. However, in this case, we implant two causal variants. We set the non-colocalization cut-off threshold to $0.01 \%$. RTC has better recall rare compared to eCAVIAR and COLOC.


Figure S8. eCAVIAR outperforms existing methods when the causal variants are enriched with functional annotations. We implant one causal variant in our experiment.


Figure S9. eCAVIAR outperforms existing methods when the causal variants are enriched with functional annotations. We implant two causal variants in our experiment.


Figure S10. Effect of eQTL sample size on CLPP. The x-axis is the sample size that we vary from 500 to 3500. The y-axis is the distribution of CLPP. The red horizontal line indicates the $0.01(1 \%)$ colocalization cut-off that is used our experiments. We set the sample size for GWAS to 5000 . We simulate the effect size for colocalized variant such that it accounts for $0.01,0.04$, and 0.1 portion of the heritability as shown in panel (a), panel (b), and panel (c), respectively.

| Tissue | Number of Individuals |
| :--- | :---: |
| Uterus | 70 |
| Brain Anterior cingulate cortex BA24 | 72 |
| Small Intestine Terminal Ileum | 77 |
| Vagina | 79 |
| Brain Hippocampus | 81 |
| Brain Hypothalamus | 81 |
| Brain Putamen basal ganglia | 82 |
| Ovary | 85 |
| Pituitary | 87 |
| Prostate | 87 |
| Brain Cerebellar Hemisphere | 89 |
| Spleen | 89 |
| Brain Frontal Cortex BA9 | 92 |
| Brain Nucleus accumbens basal ganglia | 93 |
| Brain Cortex | 96 |
| Liver | 97 |
| Brain Caudate basal ganglia | 100 |
| Brain Cerebellum | 103 |
| Cells EBV-transformed lymphocytes | 114 |
| Artery Coronary | 118 |
| Colon Sigmoid | 124 |
| Adrenal Gland | 126 |
| Esophagus Gastroesophageal Junction | 127 |
| Pancreas | 149 |
| Testis | 157 |
| Heart Atrial Appendage | 159 |
| Colon Transverse | 169 |
| Stomach | 170 |
| Breast Mammary Tissue | 183 |
| Adipose Visceral Omentum | 185 |
| Heart Left Ventricle | 190 |
| Skin Not Sun Exposed Suprapubic | 196 |
| Artery Aorta | 197 |
| Esophagus Muscularis | 218 |
| Esophagus Mucosa | 241 |
| Nerve Tibial | 256 |
| Cells Transformed fibroblasts | 272 |
| Lung | 278 |
| Thyroid | 278 |
| Artery Tibial | 285 |
| Adipose Subcutaneous | 298 |
| Skin Sun Exposed Lower leg | 302 |
| Whole Blood |  |
| Muscle Skeletal |  |

Table S1. List of 44 tissues which are obtained from GTEx dataset. We provide the number of individuals genotyped for each tissue. Different tissues have different number of individuals.

Table S2. Potential colocalization loci for FG phenotype. Colocation loci consists of two summary statistics. One summary statistics obtained FG GWAS and the other summary statistics obtained for one of the genes in GTEx. Thus, we obtained these potential colocalization loci by considering the variants which are reported significant in previous study [1] for FG phenotype in MAGIC dataset. For each significant variant, we consider 50 variants upstream and downstream of the significant variants to define a locus. Next, we consider genes for all the tissues in GTEx data where at least one of the variants in the locus are significantly associated (corrected multiple hypothesis p-value of $10^{-5}$ or more significant) with its gene expression. We consider all the 44 tissues in GTEx to obtain the list of genes for each significant GWAS SNP.

| rsID | Ensembl ID | Gene Name | Tissue | eQTL p-values |
| :---: | :---: | :---: | :---: | :---: |
| rs10830963 | ENSG00000166002 | SMCO4 | Skin-Sun-Exposed-Lower-leg | $2.44786305915 \mathrm{e}-05$ |
| rs10830963 | ENSG00000166012 | TAF1D | Brain-Nucleus-accumbens-basal-ganglia | $1.7539865514 \mathrm{e}-05$ |
| rs10830963 | ENSG00000180773 | SLC36A4 | Esophagus-Mucosa | $5.2352746432 \mathrm{e}-05$ |
| rs10830963 | ENSG00000182919 | C11orf54 | Thyroid | 8.61845523561e-06 |
| rs10830963 | ENSG00000206799 | SNORA32 | Skin-Sun-Exposed-Lower-leg | $5.82640723736 \mathrm{e}-05$ |
| rs10830963 | ENSG00000207145 | SNORA18 | Testis | $4.2352972541 \mathrm{e}-05$ |
| rs10830963 | ENSG00000255445 | RP11-573M3.3 | Heart-Atrial-Appendage | $9.56125858181 \mathrm{e}-05$ |
| rs10885122 | ENSG00000150594 | ADRA2A | Brain-Nucleus-accumbens-basal-ganglia | $2.57239942187 \mathrm{e}-10$ |
| rs10885122 | ENSG00000150594 | ADRA2A | Skin-Sun-Exposed-Lower-leg | $8.13034309554 \mathrm{e}-05$ |
| rs10885122 | ENSG00000203867 | RBM20 | Vagina | 0.000126958323984 |
| rs11071657 | ENSG00000103642 | LACTB | Whole-Blood | $3.89333022107 \mathrm{e}-05$ |
| rs11071657 | ENSG00000166104 | RP11-299H22.3 | Colon-Transverse | 8.83954284179e-05 |
| rs11071657 | ENSG00000259498 | RP11-244F12.3 | Muscle-Skeletal | $3.86262074991 \mathrm{e}-05$ |
| rs11071657 | ENSG00000259627 | RP11-244F12.2 | Small-Intestine-Terminal-Ileum | $2.27885479484 \mathrm{e}-05$ |
| rs11071657 | ENSG00000259675 | RP11-507B12.1 | Vagina | $6.91621612205 \mathrm{e}-05$ |
| rs11558471 | ENSG00000147677 | EIF3H | Spleen | $3.9259893852 \mathrm{e}-05$ |
| rs11558471 | ENSG00000164756 | SLC30A8 | Testis | $2.05616636527 \mathrm{e}-05$ |
| rs11558471 | ENSG00000205002 | AARD | Uterus | $2.36883921342 \mathrm{e}-05$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Cells-EBV-transformed-lymphocytes | $7.4647373768 \mathrm{e}-06$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Lung | $7.67362712574 \mathrm{e}-07$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Skin-Not-Sun-Exposed-Suprapubic | $5.74803471957 \mathrm{e}-22$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Skin-Sun-Exposed-Lower-leg | $4.60639977153 \mathrm{e}-17$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Spleen | $3.55628090171 \mathrm{e}-06$ |
| rs11605924 | ENSG00000121653 | MAPK8IP1 | Whole-Blood | 7.82629295485e-21 |
| rs11605924 | ENSG00000121671 | CRY2 | Testis | $6.38769471885 \mathrm{e}-06$ |
| rs11605924 | ENSG00000121671 | CRY2 | Whole-Blood | $1.03433652463 \mathrm{e}-05$ |
| rs11605924 | ENSG00000157613 | CREB3L1 | Adipose-Subcutaneous | 0.000119111609495 |
| rs11605924 | ENSG00000165905 | GYLTL1B | Heart-Atrial-Appendage | $2.25819961703 \mathrm{e}-05$ |
| rs11605924 | ENSG00000165905 | GYLTL1B | Liver | $1.24164721955 \mathrm{e}-05$ |


| rs11605924 | ENSG00000175220 | ARHGAP1 | Uterus | $1.90164370129 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs11605924 | ENSG00000175264 | CHST1 | Artery-Aorta | $8.34252658299 \mathrm{e}-08$ |
| rs11605924 | ENSG00000175264 | CHST1 | Thyroid | $1.73199564995 \mathrm{e}-06$ |
| rs11605924 | ENSG00000175274 | TP53I11 | Skin-Sun-Exposed-Lower-leg | 0.000122950946627 |
| rs11605924 | ENSG00000180210 | F2 | Vagina | $2.48171640639 \mathrm{e}-05$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Artery-Tibial | $2.34352827038 \mathrm{e}-06$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Cells-Transformed-fibroblasts | $6.250451226 \mathrm{e}-05$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Esophagus-Mucosa | $6.20248570017 \mathrm{e}-14$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Heart-Left-Ventricle | $7.89769212566 \mathrm{e}-05$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Liver | $2.18114395042 \mathrm{e}-06$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Lung | $3.26105205064 \mathrm{e}-05$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Nerve-Tibial | $2.348334931 \mathrm{e}-05$ |
| rs11605924 | ENSG00000181830 | SLC35C1 | Whole-Blood | $1.21176230508 \mathrm{e}-05$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Adipose-Subcutaneous | $1.62392005396 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Artery-Aorta | $1.73680733946 \mathrm{e}-05$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Artery-Tibial | $4.09586542776 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Brain-Hippocampus | $9.98988593786 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Brain-Hypothalamus | $2.50756209116 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Brain-Nucleus-accumbens-basal-ganglia | $4.27086076108 \mathrm{e}-07$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Brain-Putamen-basal-ganglia | $4.81194257971 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Colon-Transverse | $3.77728053812 \mathrm{e}-05$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Esophagus-Mucosa | $9.50866511829 \mathrm{e}-09$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Esophagus-Muscularis | $1.02011808847 \mathrm{e}-08$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Heart-Atrial-Appendage | $1.03742684719 \mathrm{e}-05$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Heart-Left-Ventricle | $1.3250774481 \mathrm{e}-08$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Liver | $5.52158343567 \mathrm{e}-10$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Lung | $1.30661604158 \mathrm{e}-08$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Nerve-Tibial | $2.5524407916 \mathrm{e}-06$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M0652 | Testis | $1.65428551625 \mathrm{e}-10$ |
| rs11605924 | ENSG00000205106 | DKFZp 779 M 0652 | Thyroid | $6.71470968327 \mathrm{e}-09$ |
| rs11605924 | ENSG00000254427 | RP11-430H10.1 | Adipose-Visceral-Omentum | $8.54818728207 \mathrm{e}-05$ |
| rs11605924 | ENSG00000255091 | RP11-495011.1 | Artery-Aorta | $1.87736272121 \mathrm{e}-06$ |
| rs11605924 | ENSG00000255091 | RP11-495011.1 | Thyroid | $3.08189576647 \mathrm{e}-05$ |
| rs11605924 | ENSG00000255447 | CTD-2210P24.6 | Testis | $3.8986007455 \mathrm{e}-07$ |
| rs11605924 | ENSG00000255498 | RP11-618K13.2 | Skin-Not-Sun-Exposed-Suprapubic | $4.70164342541 \mathrm{e}-07$ |
| rs11605924 | ENSG00000255498 | RP11-618K13.2 | Skin-Sun-Exposed-Lower-leg | $3.42801905208 \mathrm{e}-06$ |


| rs11605924 | ENSG00000255498 | RP11-618K13.2 | Whole-Blood | $4.42514908343 \mathrm{e}-07$ |
| :---: | :---: | :---: | :---: | :---: |
| rs11717195 | ENSG00000065485 | PDIA5 | Artery-Tibial | $5.02513492893 \mathrm{e}-07$ |
| rs11717195 | ENSG00000065485 | PDIA5 | Thyroid | 0.000126169254671 |
| rs11717195 | ENSG00000121542 | SEC22A | Adipose-Subcutaneous | $4.48128076072 \mathrm{e}-30$ |
| rs11717195 | ENSG00000121542 | SEC22A | Adipose-Visceral-Omentum | $1.2210488429 \mathrm{e}-15$ |
| rs11717195 | ENSG00000121542 | SEC22A | Artery-Aorta | $2.74502248777 \mathrm{e}-22$ |
| rs11717195 | ENSG00000121542 | SEC22A | Artery-Coronary | $1.74364778894 \mathrm{e}-07$ |
| rs11717195 | ENSG00000121542 | SEC22A | Artery-Tibial | $2.92641608999 \mathrm{e}-41$ |
| rs11717195 | ENSG00000121542 | SEC22A | Brain-Hippocampus | $4.24221472915 \mathrm{e}-05$ |
| rs11717195 | ENSG00000121542 | SEC22A | Brain-Putamen-basal-ganglia | $1.58717438504 \mathrm{e}-06$ |
| rs11717195 | ENSG00000121542 | SEC22A | Breast-Mammary-Tissue | 8.14091243757e-26 |
| rs11717195 | ENSG00000121542 | SEC22A | Cells-EBV-transformed-lymphocytes | $3.97453071673 \mathrm{e}-19$ |
| rs11717195 | ENSG00000121542 | SEC22A | Cells-Transformed-fibroblasts | $1.72043210473 \mathrm{e}-21$ |
| rs11717195 | ENSG00000121542 | SEC22A | Colon-Sigmoid | $3.32176009411 \mathrm{e}-05$ |
| rs11717195 | ENSG00000121542 | SEC22A | Colon-Transverse | $1.32320584448 \mathrm{e}-16$ |
| rs11717195 | ENSG00000121542 | SEC22A | Esophagus-Gastroesophageal-Junction | $6.23486130719 \mathrm{e}-08$ |
| rs11717195 | ENSG00000121542 | SEC22A | Esophagus-Mucosa | $1.57111454052 \mathrm{e}-32$ |
| rs11717195 | ENSG00000121542 | SEC22A | Esophagus-Muscularis | $3.02922278608 \mathrm{e}-18$ |
| rs11717195 | ENSG00000121542 | SEC22A | Heart-Atrial-Appendage | $1.75855920111 \mathrm{e}-10$ |
| rs11717195 | ENSG00000121542 | SEC22A | Heart-Left-Ventricle | 8.28685652528e-16 |
| rs11717195 | ENSG00000121542 | SEC22A | Liver | $4.55618336936 \mathrm{e}-05$ |
| rs11717195 | ENSG00000121542 | SEC22A | Lung | $1.93513734862 \mathrm{e}-32$ |
| rs11717195 | ENSG00000121542 | SEC22A | Muscle-Skeletal | $5.74835973093 \mathrm{e}-12$ |
| rs11717195 | ENSG00000121542 | SEC22A | Nerve-Tibial | $8.64817990778 \mathrm{e}-31$ |
| rs11717195 | ENSG00000121542 | SEC22A | Ovary | $7.13294372886 \mathrm{e}-08$ |
| rs11717195 | ENSG00000121542 | SEC22A | Pancreas | $4.95208254925 \mathrm{e}-17$ |
| rs11717195 | ENSG00000121542 | SEC22A | Pituitary | $2.83455224563 \mathrm{e}-06$ |
| rs11717195 | ENSG00000121542 | SEC22A | Prostate | $3.8871388354 \mathrm{e}-10$ |
| rs11717195 | ENSG00000121542 | SEC22A | Skin-Not-Sun-Exposed-Suprapubic | $2.78022705583 \mathrm{e}-24$ |
| rs11717195 | ENSG00000121542 | SEC22A | Skin-Sun-Exposed-Lower-leg | $7.15947070871 \mathrm{e}-30$ |
| rs11717195 | ENSG00000121542 | SEC22A | Small-Intestine-Terminal-Ileum | $9.43650095252 \mathrm{e}-05$ |
| rs11717195 | ENSG00000121542 | SEC22A | Spleen | $3.35596740581 \mathrm{e}-12$ |
| rs11717195 | ENSG00000121542 | SEC22A | Stomach | $4.71966998706 \mathrm{e}-09$ |
| rs11717195 | ENSG00000121542 | SEC22A | Testis | $1.50510717516 \mathrm{e}-29$ |
| rs11717195 | ENSG00000121542 | SEC22A | Thyroid | $2.90016216577 \mathrm{e}-26$ |
| rs11717195 | ENSG00000121542 | SEC22A | Uterus | $2.5995012953 \mathrm{e}-05$ |


| rs11717195 | ENSG00000121542 | SEC22A | Vagina | $4.99348818084 \mathrm{e}-07$ |
| :---: | :---: | :---: | :---: | :---: |
| rs11717195 | ENSG00000121542 | SEC22A | Whole-Blood | $1.01152955781 \mathrm{e}-08$ |
| rs11717195 | ENSG00000138463 | DIRC2 | Vagina | $4.522896308 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Artery-Tibial | $5.28198909019 \mathrm{e}-08$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Colon-Sigmoid | $2.41887725148 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Colon-Transverse | $9.36426114519 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Esophagus-Mucosa | $2.73445293874 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Esophagus-Muscularis | $5.1190584425 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Heart-Atrial-Appendage | $5.26218774438 \mathrm{e}-08$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Heart-Left-Ventricle | $1.9434499794 \mathrm{e}-06$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Lung | $2.25598951136 \mathrm{e}-07$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Muscle-Skeletal | $3.33007896392 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | ADCY5 | Thyroid | $2.52528123532 \mathrm{e}-05$ |
| rs11717195 | ENSG00000173175 | $A D C Y 5$ | Uterus | $9.56899015449 \mathrm{e}-06$ |
| rs11717195 | ENSG00000272678 | RP11-797D24.4 | Artery-Tibial | $2.88661745263 \mathrm{e}-07$ |
| rs11717195 | ENSG00000272678 | RP11-797D24.4 | Esophagus-Mucosa | $3.53458374031 \mathrm{e}-06$ |
| rs11717195 | ENSG00000272678 | RP11-797D24.4 | Heart-Atrial-Appendage | $1.03080946347 \mathrm{e}-05$ |
| rs11717195 | ENSG00000272678 | RP11-797D24.4 | Heart-Left-Ventricle | $4.61842170723 \mathrm{e}-08$ |
| rs11717195 | ENSG00000272678 | RP11-797D24.4 | Lung | $2.87399425739 \mathrm{e}-06$ |
| rs11920090 | ENSG00000136603 | SKIL | Ovary | $2.52936436418 \mathrm{e}-05$ |
| rs11920090 | ENSG00000154310 | TNIK | Pituitary | $6.90410977459 \mathrm{e}-05$ |
| rs11920090 | ENSG00000163558 | PRKCI | Skin-Sun-Exposed-Lower-leg | $7.85139178977 \mathrm{e}-05$ |
| rs11920090 | ENSG00000163577 | EIF5A2 | Cells-Transformed-fibroblasts | $3.45312321942 \mathrm{e}-05$ |
| rs11920090 | ENSG00000163584 | RPL22L1 | Whole-Blood | $5.01595457402 \mathrm{e}-12$ |
| rs11920090 | ENSG00000173890 | GPR160 | Esophagus-Gastroesophageal-Junction | $5.08237136088 \mathrm{e}-05$ |
| rs11920090 | ENSG00000242583 | RP11-379K17.9 | Testis | $5.91788385319 \mathrm{e}-07$ |
| rs174550 | ENSG00000006118 | TMEM132A | Ovary | $5.65591312284 \mathrm{e}-05$ |
| rs174550 | ENSG00000110446 | $S L C 15 A 3$ | Pituitary | $6.79469593425 \mathrm{e}-05$ |
| rs174550 | ENSG00000124915 | DKFZP434K028 | Liver | $1.52224793122 \mathrm{e}-15$ |
| rs174550 | ENSG00000124920 | MYRF | Adipose-Subcutaneous | $1.07163887489 \mathrm{e}-06$ |
| rs174550 | ENSG00000124920 | MYRF | Artery-Tibial | $1.81465783637 \mathrm{e}-06$ |
| rs174550 | ENSG00000124920 | MYRF | Cells-Transformed-fibroblasts | $2.05605381138 \mathrm{e}-10$ |
| rs174550 | ENSG00000124920 | MYRF | Colon-Transverse | $6.27262101649 \mathrm{e}-08$ |
| rs174550 | ENSG00000124920 | MYRF | Liver | $4.50726642799 \mathrm{e}-24$ |
| rs174550 | ENSG00000124920 | MYRF | Pancreas | $1.32784077095 \mathrm{e}-05$ |
| rs174550 | ENSG00000124920 | MYRF | Whole-Blood | $7.66855740345 \mathrm{e}-20$ |


| rs174550 | ENSG00000124942 | AHNAK | Nerve-Tibial | $6.84199477452 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs174550 | ENSG00000134780 | $D A G L A$ | Cells-Transformed-fibroblasts | $4.14413546326 \mathrm{e}-05$ |
| rs174550 | ENSG00000134780 | $D A G L A$ | Nerve-Tibial | $2.13192293716 \mathrm{e}-06$ |
| rs174550 | ENSG00000134780 | $D A G L A$ | Pancreas | $8.3610269796 \mathrm{e}-06$ |
| rs174550 | ENSG00000134824 | FADS2 | Adipose-Subcutaneous | $1.47626352099 \mathrm{e}-06$ |
| rs174550 | ENSG00000134824 | FADS2 | Adipose-Visceral-Omentum | $2.86468845017 \mathrm{e}-06$ |
| rs174550 | ENSG00000134824 | FADS2 | Artery-Aorta | $3.47197673622 \mathrm{e}-11$ |
| rs174550 | ENSG00000134824 | FADS2 | Artery-Tibial | $8.53787978639 \mathrm{e}-08$ |
| rs174550 | ENSG00000134824 | FADS2 | Breast-Mammary-Tissue | $1.18893114978 \mathrm{e}-08$ |
| rs174550 | ENSG00000134824 | FADS2 | Cells-EBV-transformed-lymphocytes | $6.92791393224 \mathrm{e}-05$ |
| rs174550 | ENSG00000134824 | FADS2 | Cells-Transformed-fibroblasts | $4.37278719299 \mathrm{e}-38$ |
| rs174550 | ENSG00000134824 | FADS2 | Colon-Sigmoid | $5.75779994918 \mathrm{e}-09$ |
| rs174550 | ENSG00000134824 | FADS2 | Colon-Transverse | $3.87706737558 \mathrm{e}-23$ |
| rs174550 | ENSG00000134824 | FADS2 | Esophagus-Gastroesophageal-Junction | $1.25995286312 \mathrm{e}-10$ |
| rs174550 | ENSG00000134824 | FADS2 | Esophagus-Muscularis | $7.55772902317 \mathrm{e}-28$ |
| rs174550 | ENSG00000134824 | FADS2 | Heart-Atrial-Appendage | $1.26182123746 \mathrm{e}-08$ |
| rs174550 | ENSG00000134824 | FADS2 | Lung | $1.03018055989 \mathrm{e}-07$ |
| rs174550 | ENSG00000134824 | FADS2 | Muscle-Skeletal | $2.66948968982 \mathrm{e}-09$ |
| rs174550 | ENSG00000134824 | FADS2 | Nerve-Tibial | $4.08649453855 \mathrm{e}-16$ |
| rs174550 | ENSG00000134824 | FADS2 | Pancreas | $5.62568232448 \mathrm{e}-06$ |
| rs174550 | ENSG00000134824 | FADS2 | Skin-Not-Sun-Exposed-Suprapubic | $9.06036111248 \mathrm{e}-05$ |
| rs174550 | ENSG00000134824 | FADS2 | Spleen | $4.47894470381 \mathrm{e}-26$ |
| rs174550 | ENSG00000134824 | FADS2 | Stomach | $4.50207540976 \mathrm{e}-06$ |
| rs174550 | ENSG00000134824 | FADS2 | Thyroid | $2.18577113233 \mathrm{e}-23$ |
| rs174550 | ENSG00000134824 | FADS2 | Whole-Blood | $1.23516042549 \mathrm{e}-124$ |
| rs174550 | ENSG00000134825 | TMEM258 | Adipose-Subcutaneous | $4.06417386895 \mathrm{e}-06$ |
| rs174550 | ENSG00000134825 | TMEM258 | Adipose-Visceral-Omentum | $6.05997896336 \mathrm{e}-05$ |
| rs174550 | ENSG00000134825 | TMEM258 | Artery-Tibial | $4.30808695008 \mathrm{e}-07$ |
| rs174550 | ENSG00000134825 | TMEM258 | Cells-EBV-transformed-lymphocytes | $7.99556999059 \mathrm{e}-06$ |
| rs174550 | ENSG00000134825 | TMEM258 | Cells-Transformed-fibroblasts | $1.69327446094 \mathrm{e}-07$ |
| rs174550 | ENSG00000134825 | TMEM258 | Colon-Transverse | $1.3186362034 \mathrm{e}-05$ |
| rs174550 | ENSG00000134825 | TMEM258 | Muscle-Skeletal | $1.20748545687 \mathrm{e}-05$ |
| rs174550 | ENSG00000134825 | TMEM258 | Nerve-Tibial | $1.36798969082 \mathrm{e}-06$ |
| rs174550 | ENSG00000134825 | TMEM258 | Ovary | $9.92380755701 \mathrm{e}-05$ |
| rs174550 | ENSG00000134825 | TMEM258 | Skin-Sun-Exposed-Lower-leg | $3.3614144123 \mathrm{e}-08$ |
| rs174550 | ENSG00000134825 | TMEM258 | Whole-Blood | $1.31063979536 \mathrm{e}-07$ |


| rs174550 | ENSG00000149480 | MTA2 | Liver | 0.000112499358457 |
| :---: | :---: | :---: | :---: | :---: |
| rs174550 | ENSG00000149485 | FADS1 | Artery-Tibial | $9.4043631547 \mathrm{e}-06$ |
| rs174550 | ENSG00000149485 | FADS1 | Brain-Hippocampus | $4.54093402282 \mathrm{e}-05$ |
| rs174550 | ENSG00000149485 | FADS1 | Brain-Putamen-basal-ganglia | $3.22433297405 \mathrm{e}-06$ |
| rs174550 | ENSG00000149485 | FADS1 | Breast-Mammary-Tissue | $1.74825888583 \mathrm{e}-05$ |
| rs174550 | ENSG00000149485 | FADS1 | Colon-Sigmoid | $1.33527941446 \mathrm{e}-05$ |
| rs174550 | ENSG00000149485 | FADS1 | Liver | $4.2645289605 \mathrm{e}-05$ |
| rs174550 | ENSG00000149485 | FADS1 | Muscle-Skeletal | $4.29712744478 \mathrm{e}-09$ |
| rs174550 | ENSG00000149485 | FADS1 | Nerve-Tibial | $9.86394789532 \mathrm{e}-13$ |
| rs174550 | ENSG00000149485 | FADS1 | Pancreas | $3.71355853188 \mathrm{e}-25$ |
| rs174550 | ENSG00000149485 | FADS1 | Stomach | $1.10846086182 \mathrm{e}-10$ |
| rs174550 | ENSG00000149485 | FADS1 | Thyroid | $1.53366188198 \mathrm{e}-06$ |
| rs174550 | ENSG00000149499 | EML3 | Skin-Not-Sun-Exposed-Suprapubic | $7.6191865783 \mathrm{e}-05$ |
| rs174550 | ENSG00000149506 | ZP1 | Adrenal-Gland | 0.0001224879412 |
| rs174550 | ENSG00000162144 | CYB561A3 | Artery-Aorta | $9.66918982602 \mathrm{e}-05$ |
| rs174550 | ENSG00000162188 | GNG3 | Brain-Hippocampus | $7.14451224699 \mathrm{e}-05$ |
| rs174550 | ENSG00000162191 | UBXN1 | Brain-Putamen-basal-ganglia | $2.14731353455 \mathrm{e}-05$ |
| rs174550 | ENSG00000167987 | VPS37C | Lung | $8.86220323909 \mathrm{e}-06$ |
| rs174550 | ENSG00000167995 | BEST1 | Stomach | $6.31159912283 \mathrm{e}-05$ |
| rs174550 | ENSG00000168000 | BSCL2 | Brain-Hypothalamus | $1.93266607273 \mathrm{e}-05$ |
| rs174550 | ENSG00000168002 | POLR2G | Artery-Aorta | $9.51846650203 \mathrm{e}-06$ |
| rs174550 | ENSG00000207601 | MIR611 | Muscle-Skeletal | $9.25132337759 \mathrm{e}-06$ |
| rs174550 | ENSG00000207601 | MIR611 | Thyroid | $9.42688703228 \mathrm{e}-05$ |
| rs174550 | ENSG00000214753 | HNRNPUL2 | Colon-Transverse | $7.55875326174 \mathrm{e}-05$ |
| rs174550 | ENSG00000221968 | FADS3 | Liver | $4.59871741566 \mathrm{e}-06$ |
| rs174550 | ENSG00000255118 | RP11-703H8.7 | Cells-Transformed-fibroblasts | $5.40761628183 \mathrm{e}-05$ |
| rs174550 | ENSG00000257052 | RP11-881M11.2 | Skin-Sun-Exposed-Lower-leg | $9.65492056964 \mathrm{e}-05$ |
| rs2191349 | ENSG00000237070 | LOC105375166 | Colon-Transverse | $8.91670843795 \mathrm{e}-05$ |
| rs4607517 | ENSG00000015676 | NUDCD3 | Colon-Sigmoid | $6.81574992936 \mathrm{e}-05$ |
| rs4607517 | ENSG00000015676 | NUDCD3 | Colon-Transverse | 0.000132421812821 |
| rs4607517 | ENSG00000058404 | CAMK2B | Nerve-Tibial | $1.02571474118 \mathrm{e}-06$ |
| rs4607517 | ENSG00000106603 | COA1 | Muscle-Skeletal | $9.88236081708 \mathrm{e}-05$ |
| rs4607517 | ENSG00000106603 | COA1 | Small-Intestine-Terminal-Ileum | $7.43495145463 \mathrm{e}-05$ |
| rs4607517 | ENSG00000106608 | URGCP | Brain-Hippocampus | 0.000118741863422 |
| rs4607517 | ENSG00000106631 | MYL7 | Brain-Hypothalamus | $2.03579173114 \mathrm{e}-07$ |
| rs4607517 | ENSG00000106631 | MYL' | Brain-Nucleus-accumbens-basal-ganglia | $1.57407391493 \mathrm{e}-05$ |


| rs4607517 | ENSG00000106633 | GCK | Artery-Aorta | $3.64341185775 \mathrm{e}-08$ |
| :---: | :---: | :---: | :---: | :---: |
| rs4607517 | ENSG00000106633 | GCK | Artery-Tibial | $2.50853052784 \mathrm{e}-06$ |
| rs4607517 | ENSG00000106633 | GCK | Cells-Transformed-fibroblasts | $2.59513829691 \mathrm{e}-06$ |
| rs4607517 | ENSG00000106633 | GCK | Colon-Sigmoid | $7.91281792765 \mathrm{e}-05$ |
| rs4607517 | ENSG00000106633 | GCK | Ovary | $2.74478432922 \mathrm{e}-05$ |
| rs4607517 | ENSG00000106633 | GCK | Thyroid | 1.40524002295e-06 |
| rs4607517 | ENSG00000106636 | YKT6 | Artery-Aorta | $4.64383379797 \mathrm{e}-05$ |
| rs4607517 | ENSG00000106636 | YKT6 | Artery-Tibial | 1.35586346349e-05 |
| rs4607517 | ENSG00000106636 | YKT6 | Muscle-Skeletal | $1.3504504511 \mathrm{e}-06$ |
| rs4607517 | ENSG00000106636 | YKT6 | Nerve-Tibial | $3.77204249383 \mathrm{e}-08$ |
| rs4607517 | ENSG00000106636 | YKT6 | Spleen | 0.000110161962343 |
| rs4607517 | ENSG00000106636 | YKT6 | Testis | $2.80798077625 \mathrm{e}-08$ |
| rs4607517 | ENSG00000122678 | POLM | Pituitary | 0.000127963289669 |
| rs4607517 | ENSG00000214783 | POLR2J4 | Stomach | 5.57197202642e-05 |
| rs4607517 | ENSG00000232956 | SNHG15 | Spleen | $1.86473081598 \mathrm{e}-05$ |
| rs4607517 | ENSG00000239775 | AC017116.11 | Artery-Tibial | 1.11222953027e-05 |
| rs4607517 | ENSG00000239775 | AC017116.11 | Pituitary | $8.06875463105 \mathrm{e}-05$ |
| rs4607517 | ENSG00000239775 | AC017116.11 | Skin-Sun-Exposed-Lower-leg | $2.66772000874 \mathrm{e}-05$ |
| rs4607517 | ENSG00000272768 | RP4-673M15.1 | Whole-Blood | $3.67370732112 \mathrm{e}-05$ |
| rs560887 | ENSG00000144357 | UBR3 | Adipose-Subcutaneous | $4.2131571751 \mathrm{e}-05$ |
| rs560887 | ENSG00000152253 | SPC25 | Adipose-Subcutaneous | $3.86223993369 \mathrm{e}-12$ |
| rs560887 | ENSG00000152253 | SPC25 | Adipose-Visceral-Omentum | $3.34610610317 \mathrm{e}-08$ |
| rs560887 | ENSG00000152253 | SPC25 | Breast-Mammary-Tissue | $1.94333203135 \mathrm{e}-09$ |
| rs560887 | ENSG00000152253 | SPC25 | Esophagus-Gastroesophageal-Junction | $6.57684285001 \mathrm{e}-05$ |
| rs560887 | ENSG00000152253 | SPC25 | Esophagus-Muscularis | $2.72793402053 \mathrm{e}-05$ |
| rs560887 | ENSG00000152253 | SPC25 | Heart-Left-Ventricle | $2.45718348331 \mathrm{e}-07$ |
| rs560887 | ENSG00000152253 | SPC25 | Lung | 1.32477367276e-10 |
| rs560887 | ENSG00000152253 | SPC25 | Nerve-Tibial | $1.41909731656 \mathrm{e}-07$ |
| rs560887 | ENSG00000152253 | SPC25 | Pancreas | $6.27712479465 \mathrm{e}-14$ |
| rs560887 | ENSG00000152253 | SPC25 | Stomach | $7.4687660235 \mathrm{e}-08$ |
| rs560887 | ENSG00000152253 | SPC25 | Thyroid | $2.23167085387 \mathrm{e}-06$ |
| rs560887 | ENSG00000152253 | SPC25 | Uterus | $8.63781093856 \mathrm{e}-05$ |
| rs560887 | ENSG00000152254 | G6PC2 | Adipose-Subcutaneous | $2.29365890692 \mathrm{e}-44$ |
| rs560887 | ENSG00000152254 | G6PC2 | Adipose-Visceral-Omentum | $9.90863520284 \mathrm{e}-40$ |
| rs560887 | ENSG00000152254 | G6PC2 | Breast-Mammary-Tissue | $3.98413880387 \mathrm{e}-62$ |
| rs560887 | ENSG00000152254 | G6PC2 | Colon-Transverse | $3.06859548601 \mathrm{e}-09$ |


| rs560887 | ENSG00000152254 | G6PC2 | Lung | $1.77754225575 \mathrm{e}-69$ |
| :---: | :---: | :---: | :---: | :---: |
| rs560887 | ENSG00000152254 | G6PC2 | Nerve-Tibial | $9.62300344586 \mathrm{e}-30$ |
| rs560887 | ENSG00000152254 | G6PC2 | Skin-Not-Sun-Exposed-Suprapubic | $4.11488440163 \mathrm{e}-36$ |
| rs560887 | ENSG00000152254 | G6PC2 | Skin-Sun-Exposed-Lower-leg | $5.04823221975 \mathrm{e}-57$ |
| rs560887 | ENSG00000152254 | G6PC2 | Stomach | $5.70440304756 \mathrm{e}-21$ |
| rs560887 | ENSG00000152254 | G6PC2 | Thyroid | $1.60317874106 \mathrm{e}-34$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Adipose-Subcutaneous | $8.99742781521 \mathrm{e}-08$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Adrenal-Gland | $7.36729049722 \mathrm{e}-07$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Artery-Tibial | $3.92609755042 \mathrm{e}-06$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Cells-EBV-transformed-lymphocytes | $5.43395002041 \mathrm{e}-26$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Colon-Transverse | $3.26106663575 \mathrm{e}-06$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Heart-Left-Ventricle | $1.32053075953 \mathrm{e}-08$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Lung | $5.92637609704 \mathrm{e}-08$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Nerve-Tibial | $2.17221822661 \mathrm{e}-13$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Pancreas | $2.1316196208 \mathrm{e}-10$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Prostate | $1.59244224983 \mathrm{e}-06$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Skin-Sun-Exposed-Lower-leg | $7.2171093318 \mathrm{e}-09$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Stomach | $1.6447331884 \mathrm{e}-17$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Testis | $2.41334475961 \mathrm{e}-16$ |
| rs560887 | ENSG00000163072 | NOSTRIN | Thyroid | $3.03601387041 \mathrm{e}-07$ |
| rs560887 | ENSG00000172292 | CERS6 | Adipose-Visceral-Omentum | $4.67914154219 \mathrm{e}-05$ |
| rs7034200 | ENSG00000106686 | SPATA6L | Heart-Atrial-Appendage | $3.24945597547 \mathrm{e}-05$ |
| rs7034200 | ENSG00000107249 | GLIS3 | Cells-Transformed-fibroblasts | $3.45573413009 \mathrm{e}-11$ |
| rs7034200 | ENSG00000107249 | GLIS3 | Thyroid | 0.000119458479636 |
| rs7034200 | ENSG00000147853 | AK3 | Brain-Putamen-basal-ganglia | $4.56481081455 \mathrm{e}-06$ |
| rs7034200 | ENSG00000182347 | PDSS1P1 | Esophagus-Gastroesophageal-Junction | $3.11010312751 \mathrm{e}-05$ |
| rs7034200 | ENSG00000228322 | RP11-358M14.2 | Thyroid | $4.11620980493 \mathrm{e}-05$ |
| rs7034200 | ENSG00000230225 | MTND5P14 | Nerve-Tibial | 0.000102595276953 |
| rs7034200 | ENSG00000235326 | $X X X$ | Stomach | $7.05416646715 \mathrm{e}-05$ |
| rs7034200 | ENSG00000237009 | GLIS3-AS1 | Cells-Transformed-fibroblasts | $1.5014164511 \mathrm{e}-08$ |
| rs780094 | ENSG00000084734 | $G C K R$ | Spleen | $7.2120706573 \mathrm{e}-16$ |
| rs780094 | ENSG00000084734 | $G C K R$ | Thyroid | $2.79663819232 \mathrm{e}-09$ |
| rs780094 | ENSG00000084774 | $C A D$ | Thyroid | $5.43528025657 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | NRBP1 | Adipose-Subcutaneous | $6.33052712903 \mathrm{e}-10$ |
| rs780094 | ENSG00000115216 | NRBP1 | Adipose-Visceral-Omentum | $9.96713371471 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | NRBP1 | Adrenal-Gland | $3.81105034801 \mathrm{e}-05$ |


| rs780094 | ENSG00000115216 | NRBP1 | Artery-Aorta | $9.15815289491 \mathrm{e}-06$ |
| :---: | :---: | :---: | :---: | :---: |
| rs780094 | ENSG00000115216 | NRBP1 | Artery-Coronary | $5.11596337923 \mathrm{e}-05$ |
| rs780094 | ENSG00000115216 | NRBP1 | Artery-Tibial | $1.83676732572 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | NRBP1 | Cells-EBV-transformed-lymphocytes | $1.46844818731 \mathrm{e}-08$ |
| rs780094 | ENSG00000115216 | NRBP1 | Cells-Transformed-fibroblasts | $4.22153030192 \mathrm{e}-09$ |
| rs780094 | ENSG00000115216 | NRBP1 | Colon-Transverse | $5.96150273596 \mathrm{e}-12$ |
| rs780094 | ENSG00000115216 | NRBP1 | Esophagus-Mucosa | $5.93300774324 \mathrm{e}-07$ |
| rs780094 | ENSG00000115216 | NRBP1 | Esophagus-Muscularis | $4.81306905877 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | NRBP1 | Lung | $9.24479524465 \mathrm{e}-08$ |
| rs780094 | ENSG00000115216 | NRBP1 | Nerve-Tibial | $1.52854205395 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | $N R B P 1$ | Skin-Not-Sun-Exposed-Suprapubic | $8.45643939211 \mathrm{e}-14$ |
| rs780094 | ENSG00000115216 | NRBP1 | Skin-Sun-Exposed-Lower-leg | $5.69488821675 \mathrm{e}-16$ |
| rs780094 | ENSG00000115216 | NRBP1 | Testis | $3.61393652831 \mathrm{e}-07$ |
| rs780094 | ENSG00000115216 | $N R B P 1$ | Thyroid | $4.76671891923 \mathrm{e}-06$ |
| rs780094 | ENSG00000115216 | NRBP1 | Whole-Blood | $1.00741937894 \mathrm{e}-11$ |
| rs780094 | ENSG00000115226 | $F N D C 4$ | Spleen | $7.29173952836 \mathrm{e}-19$ |
| rs780094 | ENSG00000115226 | $F N D C 4$ | Thyroid | $7.85233691869 \mathrm{e}-22$ |
| rs780094 | ENSG00000115234 | SNX17 | Artery-Tibial | $3.05445090118 \mathrm{e}-06$ |
| rs780094 | ENSG00000115234 | SNX17 | Heart-Left-Ventricle | $2.63905873533 \mathrm{e}-05$ |
| rs780094 | ENSG00000115234 | SNX17 | Muscle-Skeletal | $2.31809754253 \mathrm{e}-54$ |
| rs780094 | ENSG00000115234 | SNX17 | Ovary | $6.42403837308 \mathrm{e}-05$ |
| rs780094 | ENSG00000115241 | PPM1G | Adipose-Subcutaneous | $1.64518363222 \mathrm{e}-07$ |
| rs780094 | ENSG00000115241 | PPM1G | Artery-Tibial | 0.000127176868123 |
| rs780094 | ENSG00000115241 | PPM1G | Esophagus-Muscularis | $7.02182582115 \mathrm{e}-06$ |
| rs780094 | ENSG00000115241 | PPM1G | Heart-Atrial-Appendage | $3.34090082833 \mathrm{e}-05$ |
| rs780094 | ENSG00000115241 | PPM1G | Skin-Sun-Exposed-Lower-leg | $6.81873664966 \mathrm{e}-08$ |
| rs780094 | ENSG00000115241 | PPM1G | Thyroid | $5.92296997261 \mathrm{e}-08$ |
| rs780094 | ENSG00000115241 | PPM1G | Uterus | $6.2203422555 \mathrm{e}-05$ |
| rs780094 | ENSG00000115241 | $P P M 1 G$ | Whole-Blood | $5.08418221184 \mathrm{e}-06$ |
| rs780094 | ENSG00000138002 | IFT172 | Cells-Transformed-fibroblasts | $6.43149009709 \mathrm{e}-06$ |
| rs780094 | ENSG00000138002 | IFT172 | Spleen | $3.40766307931 \mathrm{e}-06$ |
| rs780094 | ENSG00000138074 | $S L C 5 A 6$ | Nerve-Tibial | $2.59687895514 \mathrm{e}-07$ |
| rs780094 | ENSG00000138085 | ATRAID | Adipose-Subcutaneous | $3.64204133511 \mathrm{e}-06$ |
| rs780094 | ENSG00000138085 | ATRAID | Cells-Transformed-fibroblasts | $4.22656091471 \mathrm{e}-05$ |
| rs780094 | ENSG00000138085 | ATRAID | Esophagus-Mucosa | $7.033199084 \mathrm{e}-05$ |
| rs780094 | ENSG00000138085 | ATRAID | Stomach | $5.60184149184 \mathrm{e}-06$ |


| rs780094 | ENSG00000157992 | KRTCAP3 | Adipose-Visceral-Omentum | $1.19630711398 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs780094 | ENSG00000157992 | KRTCAP3 | Adrenal-Gland | $1.05797393273 \mathrm{e}-09$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Artery-Tibial | $4.84310273246 \mathrm{e}-05$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Esophagus-Mucosa | $1.70988526206 \mathrm{e}-05$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Muscle-Skeletal | $3.46830497049 \mathrm{e}-09$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Nerve-Tibial | $7.76622325277 \mathrm{e}-05$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Skin-Sun-Exposed-Lower-leg | $2.65054404226 \mathrm{e}-07$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Spleen | $2.47712057827 \mathrm{e}-06$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Testis | $2.64461487969 \mathrm{e}-05$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Thyroid | $2.90732976901 \mathrm{e}-10$ |
| rs780094 | ENSG00000157992 | KRTCAP3 | Whole-Blood | $7.43521124449 \mathrm{e}-10$ |
| rs780094 | ENSG00000163792 | TCF23 | Adipose-Visceral-Omentum | $7.94940472883 \mathrm{e}-05$ |
| rs780094 | ENSG00000163798 | $S L C 4 A 1 A P$ | Artery-Aorta | $8.37212983625 \mathrm{e}-05$ |
| rs780094 | ENSG00000163798 | $S L C 4 A 1 A P$ | Cells-Transformed-fibroblasts | $5.15024966235 \mathrm{e}-05$ |
| rs780094 | ENSG00000163798 | $S L C 4 A 1 A P$ | Esophagus-Mucosa | $4.98374023788 \mathrm{e}-05$ |
| rs780094 | ENSG00000171174 | RBKS | Muscle-Skeletal | 0.000105831011626 |
| rs780094 | ENSG00000176714 | $C C D C 121$ | Spleen | $5.68372729174 \mathrm{e}-05$ |
| rs780094 | ENSG00000198522 | $G P N 1$ | Muscle-Skeletal | $3.37539746694 \mathrm{e}-05$ |
| rs780094 | ENSG00000229122 | AGBL5-IT1 | Artery-Coronary | $7.44343823279 \mathrm{e}-05$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Adipose-Subcutaneous | $3.34633866994 \mathrm{e}-08$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Adipose-Visceral-Omentum | $2.23628163175 \mathrm{e}-08$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Adrenal-Gland | $1.84123088279 \mathrm{e}-06$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Artery-Aorta | $1.73896132245 \mathrm{e}-05$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Artery-Coronary | $2.77309460871 \mathrm{e}-07$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Artery-Tibial | $1.01841800239 \mathrm{e}-08$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Breast-Mammary-Tissue | $1.57199906534 \mathrm{e}-08$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Cells-Transformed-fibroblasts | $1.85587761851 \mathrm{e}-22$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Colon-Sigmoid | $6.10223022616 \mathrm{e}-08$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Colon-Transverse | $4.29107590105 \mathrm{e}-11$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Esophagus-Gastroesophageal-Junction | $3.63708645017 \mathrm{e}-06$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Esophagus-Mucosa | $2.9963483337 \mathrm{e}-13$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Esophagus-Muscularis | $3.66802466316 \mathrm{e}-10$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Heart-Atrial-Appendage | $7.59712639918 \mathrm{e}-05$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Liver | $6.4682462976 \mathrm{e}-05$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Lung | $1.36528695798 \mathrm{e}-10$ |
| rs780094 | ENSG00000234072 | AC074117.10 | Nerve-Tibial | $9.65972368562 \mathrm{e}-06$ |


| rs780094 | ENSG00000234072 | $A C 074117.10$ | Pancreas | $5.12889387587 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Pituitary | $9.13955202923 \mathrm{e}-12$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Prostate | $1.99773648727 \mathrm{e}-06$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Stomach | $3.51967258495 \mathrm{e}-06$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Testis | $4.75994317682 \mathrm{e}-10$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Thyroid | $6.08245717637 \mathrm{e}-20$ |
| rs780094 | ENSG00000234072 | $A C 074117.10$ | Vagina | $3.58166998524 \mathrm{e}-06$ |
| rs780094 | ENSG00000235267 | $A C 074117.13$ | Breast-Mammary-Tissue | $8.89875153068 \mathrm{e}-05$ |
| rs780094 | ENSG00000235267 | $A C 074117.13$ | Skin-Sun-Exposed-Lower-leg | $3.74525571406 \mathrm{e}-05$ |
| rs780094 | ENSG00000270210 | RP11-373D23.3 | Esophagus-Mucosa | $4.63691181885 \mathrm{e}-05$ |
| rs780094 | ENSG00000270210 | RP11-373D23.3 | Stomach | $9.26771051729 \mathrm{e}-05$ |
| rs780094 | ENSG00000270210 | RP11-373D23.3 | Thyroid | $9.64224174215 \mathrm{e}-05$ |
| rs7944584 | ENSG00000025434 | NR1H3 | Artery-Aorta | $2.08009361483 \mathrm{e}-05$ |
| rs7944584 | ENSG00000025434 | NR1H3 | Brain-Hypothalamus | $1.22697126085 \mathrm{e}-07$ |
| rs7944584 | ENSG00000025434 | NR1H3 | Brain-Nucleus-accumbens-basal-ganglia | 0.000131733330946 |
| rs7944584 | ENSG00000025434 | NR1H3 | Cells-EBV-transformed-lymphocytes | $2.29707271199 \mathrm{e}-10$ |
| rs7944584 | ENSG00000025434 | NR1H3 | Cells-Transformed-fibroblasts | $1.15434837914 \mathrm{e}-05$ |
| rs7944584 | ENSG00000025434 | NR1H3 | Nerve-Tibial | $7.20595223102 \mathrm{e}-05$ |
| rs7944584 | ENSG00000030066 | NUP160 | Esophagus-Gastroesophageal-Junction | $5.51250147279 \mathrm{e}-05$ |
| rs7944584 | ENSG00000109919 | MTCH2 | Brain-Nucleus-accumbens-basal-ganglia | $1.20137805688 \mathrm{e}-06$ |
| rs7944584 | ENSG00000109919 | MTCH2 | Muscle-Skeletal | $8.05066517251 \mathrm{e}-07$ |
| rs7944584 | ENSG00000109919 | MTCH2 | Skin-Sun-Exposed-Lower-leg | 8.53451748775e-05 |
| rs7944584 | ENSG00000109920 | FNBP4 | Cells-Transformed-fibroblasts | $1.32732752938 \mathrm{e}-06$ |
| rs7944584 | ENSG00000109920 | FNBP4 | Muscle-Skeletal | $8.89603654962 \mathrm{e}-07$ |
| rs7944584 | ENSG00000110492 | $M D K$ | Artery-Tibial | $9.73202258852 \mathrm{e}-06$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Adipose-Subcutaneous | $7.59998823807 \mathrm{e}-05$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Adipose-Visceral-Omentum | 0.00012158221747 |
| rs7944584 | ENSG00000110514 | $M A D D$ | Adrenal-Gland | $2.2163994994 \mathrm{e}-05$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Artery-Tibial | $8.90121801072 \mathrm{e}-08$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Breast-Mammary-Tissue | $8.77616409944 \mathrm{e}-05$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Cells-Transformed-fibroblasts | $4.94513410518 \mathrm{e}-09$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Colon-Transverse | $6.3042408978 \mathrm{e}-06$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Esophagus-Mucosa | $3.4527574667 \mathrm{e}-09$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Heart-Atrial-Appendage | $3.17991729758 \mathrm{e}-08$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Heart-Left-Ventricle | $2.457378901 \mathrm{e}-05$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Muscle-Skeletal | $7.85528914203 \mathrm{e}-05$ |


| rs7944584 | ENSG00000110514 | $M A D D$ | Nerve-Tibial | $3.26145755213 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs7944584 | ENSG00000110514 | $M A D D$ | Pancreas | $4.17482675702 \mathrm{e}-07$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Pituitary | $1.72076652188 \mathrm{e}-11$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Thyroid | $4.79922519912 \mathrm{e}-06$ |
| rs7944584 | ENSG00000110514 | $M A D D$ | Vagina | 0.000122105725593 |
| rs7944584 | ENSG00000110514 | $M A D D$ | Whole-Blood | $2.16060782194 \mathrm{e}-05$ |
| rs7944584 | ENSG00000123444 | KBTBD4 | Esophagus-Gastroesophageal-Junction | $4.87252662217 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134569 | LRP4 | Nerve-Tibial | $2.27800965124 \mathrm{e}-10$ |
| rs7944584 | ENSG00000134569 | LRP4 | Pancreas | $9.48225523427 \mathrm{e}-07$ |
| rs7944584 | ENSG00000134571 | MYBPC3 | Heart-Atrial-Appendage | $7.05925424226 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134571 | MYBPC3 | Lung | $3.15496228313 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134571 | MYBPC3 | Nerve-Tibial | $4.79897016865 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134571 | MYBPC3 | Whole-Blood | $3.72029557362 \mathrm{e}-10$ |
| rs7944584 | ENSG00000134574 | DDB2 | Esophagus-Mucosa | 0.000125985422351 |
| rs7944584 | ENSG00000134575 | ACP2 | Adipose-Subcutaneous | $7.68755973373 \mathrm{e}-06$ |
| rs7944584 | ENSG00000134575 | ACP2 | Adipose-Visceral-Omentum | $1.27104258893 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134575 | ACP2 | Cells-EBV-transformed-lymphocytes | $1.07620921425 \mathrm{e}-08$ |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Cells-Transformed-fibroblasts | 0.000121806366566 |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Esophagus-Mucosa | $2.73364543661 \mathrm{e}-14$ |
| rs7944584 | ENSG00000134575 | ACP2 | Heart-Atrial-Appendage | $1.20233194782 \mathrm{e}-06$ |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Heart-Left-Ventricle | $1.56687990124 \mathrm{e}-09$ |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Lung | $5.19595924101 \mathrm{e}-08$ |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Muscle-Skeletal | 0.00013144342915 |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Nerve-Tibial | $2.61766719937 \mathrm{e}-06$ |
| rs7944584 | ENSG00000134575 | ACP2 | Skin-Sun-Exposed-Lower-leg | $1.07143020893 \mathrm{e}-17$ |
| rs7944584 | ENSG00000134575 | ACP2 | Spleen | $1.33254214111 \mathrm{e}-05$ |
| rs7944584 | ENSG00000134575 | $A C P 2$ | Thyroid | $3.40882048091 \mathrm{e}-15$ |
| rs7944584 | ENSG00000134575 | ACP2 | Whole-Blood | $1.43425178272 \mathrm{e}-20$ |
| rs7944584 | ENSG00000149179 | C11orf49 | Artery-Coronary | $5.67565971147 \mathrm{e}-05$ |
| rs7944584 | ENSG00000149179 | C11orf49 | Nerve-Tibial | 0.00012048675964 |
| rs7944584 | ENSG00000149182 | ARFGAP2 | Artery-Tibial | $6.29133475824 \mathrm{e}-05$ |
| rs7944584 | ENSG00000149187 | CELF1 | Nerve-Tibial | $2.50584748447 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165912 | PACSIN3 | Artery-Aorta | $1.1604680458 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165912 | PACSIN3 | Esophagus-Mucosa | $1.28324437184 \mathrm{e}-11$ |
| rs7944584 | ENSG00000165912 | PACSIN3 | Skin-Sun-Exposed-Lower-leg | $3.63199545474 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165912 | PACSIN3 | Spleen | $6.6725849258 \mathrm{e}-07$ |


| rs7944584 | ENSG00000165912 | PACSIN3 | Thyroid | $7.9096234924 \mathrm{e}-07$ |
| :---: | :---: | :---: | :---: | :---: |
| rs7944584 | ENSG00000165916 | PSMC3 | Adipose-Subcutaneous | $2.34072925216 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165916 | PSMC3 | Cells-Transformed-fibroblasts | $2.04305253074 \mathrm{e}-06$ |
| rs7944584 | ENSG00000165916 | PSMC3 | Prostate | $5.33810723515 \mathrm{e}-06$ |
| rs7944584 | ENSG00000165916 | PSMC3 | Skin-Sun-Exposed-Lower-leg | $3.11248061392 \mathrm{e}-06$ |
| rs7944584 | ENSG00000165916 | PSMC3 | Thyroid | $4.08398212744 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165916 | PSMC3 | Uterus | $7.16490580163 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165917 | RAPSN | Nerve-Tibial | $8.62453385564 \mathrm{e}-05$ |
| rs7944584 | ENSG00000165917 | RAPSN | Skin-Sun-Exposed-Lower-leg | $1.80631527423 \mathrm{e}-06$ |
| rs7944584 | ENSG00000165917 | RAPSN | Thyroid | $1.20524036929 \mathrm{e}-07$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Adipose-Subcutaneous | $3.56810013653 \mathrm{e}-34$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Artery-Aorta | $1.24998255811 \mathrm{e}-09$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Artery-Coronary | $1.33459962796 \mathrm{e}-05$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Artery-Tibial | $4.45064032939 \mathrm{e}-11$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Breast-Mammary-Tissue | $5.84525478966 \mathrm{e}-10$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Cells-EBV-transformed-lymphocytes | $1.28865421506 \mathrm{e}-08$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Cells-Transformed-fibroblasts | $5.38201805563 \mathrm{e}-10$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Colon-Transverse | $2.04967618837 \mathrm{e}-10$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Esophagus-Mucosa | $2.78374518782 \mathrm{e}-08$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Heart-Atrial-Appendage | $1.13484278922 \mathrm{e}-08$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Liver | $3.31423676529 \mathrm{e}-09$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Lung | $3.85455422061 \mathrm{e}-22$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Muscle-Skeletal | $1.42762821593 \mathrm{e}-17$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Nerve-Tibial | $8.61270858773 \mathrm{e}-20$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Skin-Sun-Exposed-Lower-leg | $1.04949880433 \mathrm{e}-28$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Spleen | $4.24043916056 \mathrm{e}-15$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Thyroid | $9.53527705852 \mathrm{e}-05$ |
| rs7944584 | ENSG00000172247 | C1QTNF4 | Whole-Blood | $5.13079512637 \mathrm{e}-10$ |
| rs7944584 | ENSG00000247675 | LRP4-AS1 | Nerve-Tibial | $9.25170624531 \mathrm{e}-09$ |
| rs7944584 | ENSG00000247675 | $L R P 4-A S 1$ | Pancreas | $5.93014122957 \mathrm{e}-05$ |
| rs7944584 | ENSG00000271350 | CTD-2384B9.1 | Nerve-Tibial | $2.14845905703 \mathrm{e}-05$ |
| rs7944584 | ENSG00000271557 | YPEL5P2 | Nerve-Tibial | $7.51699584443 \mathrm{e}-05$ |

Table S3. Potential colocalization loci for FP phenotype. Colocation loci consists of two summary statistics. One summary statistics obtained FP GWAS and the other summary statistics obtained for one of the genes in GTEx. Thus, we obtained these potential colocalization loci by considering the variants which are reported significant in previous study [2] for FP phenotype in MAGIC dataset. For each significant variant, we consider 50 variants upstream and downstream of the significant variants to define a locus. Next, we consider genes for all the tissues in GTEx data where at least one of the variants in the locus are significantly associated (corrected multiple hypothesis p-value of $10^{-5}$ or more significant) with its gene expression. We consider all the 44 tissues in GTEx to obtain the list of genes for each significant GWAS SNP.

| rsID | Ensembl ID | Gene Name | Tissue | eQTL p-values |
| :---: | :---: | :---: | :---: | :---: |
| rs10501320 | ENSG00000025434 | NR1H3 | Artery-Aorta | $2.08009361483 \mathrm{e}-05$ |
| rs10501320 | ENSG00000025434 | NR1H3 | Brain-Hypothalamus | $1.22697126085 \mathrm{e}-07$ |
| rs10501320 | ENSG00000025434 | NR1H3 | Brain-Nucleus-accumbens-basal-ganglia | 0.000131733330946 |
| rs10501320 | ENSG00000025434 | NR1H3 | Cells-Transformed-fibroblasts | $1.85933794358 \mathrm{e}-05$ |
| rs10501320 | ENSG00000025434 | NR1H3 | Nerve-Tibial | $7.20595223102 \mathrm{e}-05$ |
| rs10501320 | ENSG00000025434 | NR1H3 | Testis | $2.37790021124 \mathrm{e}-07$ |
| rs10501320 | ENSG00000030066 | NUP160 | Spleen | 0.000116421914784 |
| rs10501320 | ENSG00000109919 | MTCH2 | Skin-Sun-Exposed-Lower-leg | $8.53451748775 \mathrm{e}-05$ |
| rs10501320 | ENSG00000109919 | MTCH2 | Testis | $3.37267588819 \mathrm{e}-05$ |
| rs10501320 | ENSG00000109920 | FNBP4 | Muscle-Skeletal | $8.89603654962 \mathrm{e}-07$ |
| rs10501320 | ENSG00000110492 | MDK | Artery-Tibial | $9.73202258852 \mathrm{e}-06$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Adipose-Subcutaneous | 0.000112857498127 |
| rs10501320 | ENSG00000110514 | $M A D D$ | Adrenal-Gland | $2.2163994994 \mathrm{e}-05$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Artery-Aorta | 0.000122351334124 |
| rs10501320 | ENSG00000110514 | $M A D D$ | Artery-Tibial | $8.90121801072 \mathrm{e}-08$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Cells-Transformed-fibroblasts | $4.94513410518 \mathrm{e}-09$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Esophagus-Mucosa | $3.4527574667 \mathrm{e}-09$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Heart-Atrial-Appendage | $3.17991729758 \mathrm{e}-08$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Heart-Left-Ventricle | $2.457378901 \mathrm{e}-05$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Muscle-Skeletal | $7.85528914203 \mathrm{e}-05$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Nerve-Tibial | $3.26145755213 \mathrm{e}-05$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Pancreas | $4.17482675702 \mathrm{e}-07$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Pituitary | $1.72076652188 \mathrm{e}-11$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Testis | $2.16618984585 \mathrm{e}-07$ |
| rs10501320 | ENSG00000110514 | $M A D D$ | Vagina | 0.000122105725593 |
| rs10501320 | ENSG00000134569 | LRP4 | Nerve-Tibial | $6.19405876199 \mathrm{e}-31$ |
| rs10501320 | ENSG00000134569 | LRP4 | Pancreas | $4.0536511969 \mathrm{e}-16$ |
| rs10501320 | ENSG00000134569 | LRP4 | Spleen | $4.61451279373 \mathrm{e}-05$ |
| rs10501320 | ENSG00000134571 | MYBPC3 | Heart-Atrial-Appendage | 7.05925424226e-05 |


| rs10501320 | ENSG00000134571 | MYBPC3 | Nerve-Tibial | $4.79897016865 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs10501320 | ENSG00000134574 | DDB2 | Esophagus-Mucosa | 0.000125985422351 |
| rs10501320 | ENSG00000134574 | DDB2 | Heart-Atrial-Appendage | $2.44184886821 \mathrm{e}-05$ |
| rs10501320 | ENSG00000134574 | DDB2 | Muscle-Skeletal | $6.10776590083 \mathrm{e}-05$ |
| rs10501320 | ENSG00000134574 | DDB2 | Skin-Sun-Exposed-Lower-leg | $2.43673646413 \mathrm{e}-10$ |
| rs10501320 | ENSG00000134575 | ACP2 | Adipose-Subcutaneous | $7.68755973373 \mathrm{e}-06$ |
| rs10501320 | ENSG00000134575 | ACP2 | Esophagus-Mucosa | $2.73364543661 \mathrm{e}-14$ |
| rs10501320 | ENSG00000134575 | ACP2 | Heart-Atrial-Appendage | $8.70907835138 \mathrm{e}-07$ |
| rs10501320 | ENSG00000134575 | ACP2 | Heart-Left-Ventricle | $1.56687990124 \mathrm{e}-09$ |
| rs10501320 | ENSG00000134575 | ACP2 | Lung | $6.76675705027 \mathrm{e}-08$ |
| rs10501320 | ENSG00000134575 | ACP2 | Muscle-Skeletal | 0.00013144342915 |
| rs10501320 | ENSG00000134575 | ACP2 | Nerve-Tibial | $2.61766719937 \mathrm{e}-06$ |
| rs10501320 | ENSG00000134575 | ACP2 | Skin-Not-Sun-Exposed-Suprapubic | $2.55612655967 \mathrm{e}-06$ |
| rs10501320 | ENSG00000134575 | ACP2 | Skin-Sun-Exposed-Lower-leg | $1.07143020893 \mathrm{e}-17$ |
| rs10501320 | ENSG00000134575 | ACP2 | Spleen | $1.88165296359 \mathrm{e}-05$ |
| rs10501320 | ENSG00000134575 | ACP2 | Vagina | $4.65323577258 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Adipose-Subcutaneous | $5.67865942461 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Adrenal-Gland | $1.24023663745 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Esophagus-Mucosa | 8.92232838988e-05 |
| rs10501320 | ENSG00000149179 | C11orf49 | Pancreas | $3.3055837935 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Skin-Not-Sun-Exposed-Suprapubic | $7.37619039844 \mathrm{e}-06$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Skin-Sun-Exposed-Lower-leg | $5.48944677851 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149179 | C11orf49 | Testis | $4.29749081422 \mathrm{e}-40$ |
| rs10501320 | ENSG00000149182 | ARFGAP2 | Artery-Tibial | $6.29133475824 \mathrm{e}-05$ |
| rs10501320 | ENSG00000149187 | CELF1 | Prostate | $1.61381245588 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Adipose-Subcutaneous | $2.28866958376 \mathrm{e}-08$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Artery-Aorta | $1.1604680458 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Artery-Tibial | $7.62404655532 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Cells-Transformed-fibroblasts | $4.88531471913 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Esophagus-Mucosa | $1.41971075144 \mathrm{e}-16$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Lung | $2.60370308594 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Nerve-Tibial | $9.24482319333 \mathrm{e}-06$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Ovary | $2.39257187744 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Skin-Not-Sun-Exposed-Suprapubic | $3.11218769563 \mathrm{e}-07$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Skin-Sun-Exposed-Lower-leg | $8.66082412293 \mathrm{e}-14$ |
| rs10501320 | ENSG00000165912 | PACSIN3 | Spleen | $4.42663115843 \mathrm{e}-24$ |


| rs10501320 | ENSG00000165916 | PSMC3 | Prostate | $2.03094319084 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs10501320 | ENSG00000165916 | PSMC3 | Skin-Not-Sun-Exposed-Suprapubic | $2.37308417946 \mathrm{e}-06$ |
| rs10501320 | ENSG00000165916 | PSMC3 | Skin-Sun-Exposed-Lower-leg | $7.04354880272 \mathrm{e}-05$ |
| rs10501320 | ENSG00000165917 | RAPSN | Skin-Sun-Exposed-Lower-leg | $1.10308263023 \mathrm{e}-05$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Adipose-Subcutaneous | $4.33882899494 \mathrm{e}-18$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Artery-Aorta | $2.48213996867 \mathrm{e}-06$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Artery-Tibial | $5.87064915435 \mathrm{e}-07$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Breast-Mammary-Tissue | $3.75016221147 \mathrm{e}-06$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Cells-Transformed-fibroblasts | $2.56325964789 \mathrm{e}-09$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Esophagus-Mucosa | $2.49274783481 \mathrm{e}-06$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Liver | $2.1273359988 \mathrm{e}-06$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Lung | $3.49787806374 \mathrm{e}-14$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Muscle-Skeletal | $8.54914979219 \mathrm{e}-10$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Nerve-Tibial | $6.28029313008 \mathrm{e}-15$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Skin-Not-Sun-Exposed-Suprapubic | $4.37740702424 \mathrm{e}-08$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Skin-Sun-Exposed-Lower-leg | $3.28530648014 \mathrm{e}-20$ |
| rs10501320 | ENSG00000172247 | C1QTNF4 | Spleen | $5.88313478203 \mathrm{e}-10$ |
| rs10501320 | ENSG00000175213 | ZNF408 | Prostate | 0.000131597414623 |
| rs10501320 | ENSG00000175216 | CKAP5 | Esophagus-Mucosa | $2.67017759846 \mathrm{e}-05$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Adipose-Subcutaneous | $2.70869806044 \mathrm{e}-05$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Esophagus-Mucosa | $9.82992146555 \mathrm{e}-05$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Muscle-Skeletal | $4.12167429416 \mathrm{e}-06$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Nerve-Tibial | $2.56649373374 \mathrm{e}-07$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Pancreas | $2.00284121539 \mathrm{e}-05$ |
| rs10501320 | ENSG00000175220 | ARHGAP1 | Skin-Sun-Exposed-Lower-leg | $1.21286296661 \mathrm{e}-06$ |
| rs10501320 | ENSG00000180210 | F2 | Esophagus-Gastroesophageal-Junction | $2.61053625474 \mathrm{e}-05$ |
| rs10501320 | ENSG00000247675 | LRP4-AS1 | Nerve-Tibial | $3.43522823913 \mathrm{e}-23$ |
| rs10501320 | ENSG00000247675 | LRP4-AS1 | Pancreas | $1.183642192 \mathrm{e}-09$ |
| rs10501320 | ENSG00000255520 | RP11-390K5.3 | Testis | $1.77294876648 \mathrm{e}-05$ |
| rs10501320 | ENSG00000271350 | CTD-2384B9.1 | Nerve-Tibial | $1.46490579413 \mathrm{e}-16$ |
| rs10501320 | ENSG00000271350 | CTD-2384B9.1 | Testis | $1.85993958717 \mathrm{e}-42$ |
| rs10501320 | ENSG00000271557 | YPEL5P2 | Nerve-Tibial | $7.51699584443 \mathrm{e}-05$ |
| rs10838687 | ENSG00000025434 | NR1H3 | Brain-Hypothalamus | $1.22697126085 \mathrm{e}-07$ |
| rs10838687 | ENSG00000025434 | NR1H3 | Brain-Nucleus-accumbens-basal-ganglia | 0.000131733330946 |
| rs10838687 | ENSG00000025434 | NR1H3 | Nerve-Tibial | $7.20595223102 \mathrm{e}-05$ |
| rs10838687 | ENSG00000025434 | NR1H3 | Testis | $2.37790021124 \mathrm{e}-07$ |


| rs10838687 | ENSG00000030066 | NUP160 | Spleen | 0.000116421914784 |
| :---: | :---: | :---: | :---: | :---: |
| rs10838687 | ENSG00000109919 | MTCH2 | Brain-Nucleus-accumbens-basal-ganglia | 0.000120225415365 |
| rs10838687 | ENSG00000109919 | MTCH2 | Esophagus-Muscularis | $4.1460701516 \mathrm{e}-05$ |
| rs10838687 | ENSG00000109919 | MTCH2 | Testis | $1.99678238221 \mathrm{e}-05$ |
| rs10838687 | ENSG00000109920 | FNBP4 | Muscle-Skeletal | $8.89603654962 \mathrm{e}-07$ |
| rs10838687 | ENSG00000110492 | $M D K$ | Artery-Tibial | $9.73202258852 \mathrm{e}-06$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Adipose-Subcutaneous | $7.59998823807 \mathrm{e}-05$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Artery-Tibial | $8.90121801072 \mathrm{e}-08$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Colon-Transverse | $6.3042408978 \mathrm{e}-06$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Esophagus-Muscularis | $1.15946798711 \mathrm{e}-10$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Heart-Left-Ventricle | $2.457378901 \mathrm{e}-05$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Muscle-Skeletal | $7.85528914203 \mathrm{e}-05$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Nerve-Tibial | $3.26145755213 \mathrm{e}-05$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Pancreas | $4.17482675702 \mathrm{e}-07$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Pituitary | $1.72076652188 \mathrm{e}-11$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Testis | $2.16618984585 \mathrm{e}-07$ |
| rs10838687 | ENSG00000110514 | $M A D D$ | Vagina | 0.000122105725593 |
| rs10838687 | ENSG00000110514 | $M A D D$ | Whole-Blood | $2.16060782194 \mathrm{e}-05$ |
| rs10838687 | ENSG00000123444 | KBTBD4 | Esophagus-Gastroesophageal-Junction | $4.87252662217 \mathrm{e}-05$ |
| rs10838687 | ENSG00000134569 | LRP4 | Nerve-Tibial | $5.19553518572 \mathrm{e}-14$ |
| rs10838687 | ENSG00000134569 | LRP4 | Pancreas | $4.37416789409 \mathrm{e}-09$ |
| rs10838687 | ENSG00000134571 | MYBPC3 | Nerve-Tibial | $4.79897016865 \mathrm{e}-05$ |
| rs10838687 | ENSG00000134571 | MYBPC3 | Whole-Blood | $5.91404606882 \mathrm{e}-08$ |
| rs10838687 | ENSG00000134574 | DDB2 | Muscle-Skeletal | $9.04121978266 \mathrm{e}-05$ |
| rs10838687 | ENSG00000134575 | ACP2 | Adipose-Subcutaneous | $7.68755973373 \mathrm{e}-06$ |
| rs10838687 | ENSG00000134575 | ACP2 | Adipose-Visceral-Omentum | $8.70060974368 \mathrm{e}-06$ |
| rs10838687 | ENSG00000134575 | ACP2 | Heart-Left-Ventricle | $1.56687990124 \mathrm{e}-09$ |
| rs10838687 | ENSG00000134575 | $A C P 2$ | Muscle-Skeletal | 0.00013144342915 |
| rs10838687 | ENSG00000134575 | ACP2 | Nerve-Tibial | $2.61766719937 \mathrm{e}-06$ |
| rs10838687 | ENSG00000134575 | ACP2 | Skin-Not-Sun-Exposed-Suprapubic | $2.55612655967 \mathrm{e}-06$ |
| rs10838687 | ENSG00000134575 | ACP2 | Spleen | $1.33254214111 \mathrm{e}-05$ |
| rs10838687 | ENSG00000134575 | ACP2 | Vagina | $4.65323577258 \mathrm{e}-05$ |
| rs10838687 | ENSG00000134575 | ACP2 | Whole-Blood | $1.43425178272 \mathrm{e}-20$ |
| rs10838687 | ENSG00000149179 | C11orf49 | Artery-Coronary | $5.67565971147 \mathrm{e}-05$ |
| rs10838687 | ENSG00000149179 | C11orf49 | Nerve-Tibial | 0.00012048675964 |
| rs10838687 | ENSG00000149179 | C11orf49 | Testis | 8.65627246025e-08 |


| rs10838687 | ENSG00000149182 | ARFGAP2 | Artery-Tibial | $6.29133475824 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs10838687 | ENSG00000149187 | CELF1 | Prostate | $1.61381245588 \mathrm{e}-05$ |
| rs10838687 | ENSG00000165912 | PACSIN3 | Skin-Not-Sun-Exposed-Suprapubic | $3.11218769563 \mathrm{e}-07$ |
| rs10838687 | ENSG00000165912 | PACSIN3 | Spleen | $6.6725849258 \mathrm{e}-07$ |
| rs10838687 | ENSG00000165915 | SLC39A13 | Esophagus-Muscularis | $1.45413413333 \mathrm{e}-05$ |
| rs10838687 | ENSG00000165916 | PSMC3 | Adipose-Subcutaneous | $2.34072925216 \mathrm{e}-05$ |
| rs10838687 | ENSG00000165916 | PSMC3 | Prostate | $7.24634191817 \mathrm{e}-06$ |
| rs10838687 | ENSG00000165916 | PSMC3 | Skin-Not-Sun-Exposed-Suprapubic | $2.37308417946 \mathrm{e}-06$ |
| rs10838687 | ENSG00000165916 | PSMC3 | Uterus | $7.16490580163 \mathrm{e}-05$ |
| rs10838687 | ENSG00000165917 | RAPSN | Nerve-Tibial | $8.62453385564 \mathrm{e}-05$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Adipose-Subcutaneous | $4.17124363169 \mathrm{e}-18$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Artery-Tibial | $5.87064915435 \mathrm{e}-07$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Breast-Mammary-Tissue | $2.92708043449 \mathrm{e}-06$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Colon-Transverse | $8.43183897696 \mathrm{e}-07$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Esophagus-Muscularis | $8.79210389775 \mathrm{e}-07$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Muscle-Skeletal | 8.54914979219e-10 |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Nerve-Tibial | $6.28029313008 \mathrm{e}-15$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Skin-Not-Sun-Exposed-Suprapubic | $2.70064757209 \mathrm{e}-08$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Spleen | $5.88313478203 \mathrm{e}-10$ |
| rs10838687 | ENSG00000172247 | C1QTNF4 | Whole-Blood | $1.62499001406 \mathrm{e}-07$ |
| rs10838687 | ENSG00000175220 | ARHGAP1 | Esophagus-Muscularis | $4.79345806147 \mathrm{e}-05$ |
| rs10838687 | ENSG00000175220 | ARHGAP1 | Nerve-Tibial | $6.82296083501 \mathrm{e}-06$ |
| rs10838687 | ENSG00000175220 | ARHGAP1 | Pancreas | $3.72698860395 \mathrm{e}-05$ |
| rs10838687 | ENSG00000180210 | F2 | Esophagus-Gastroesophageal-Junction | $2.61053625474 \mathrm{e}-05$ |
| rs10838687 | ENSG00000247675 | LRP4-AS1 | Nerve-Tibial | $6.77398621043 \mathrm{e}-14$ |
| rs10838687 | ENSG00000247675 | LRP4-AS1 | Pancreas | $2.16806739278 \mathrm{e}-06$ |
| rs10838687 | ENSG00000271350 | CTD-2384B9.1 | Nerve-Tibial | $6.34706050202 \mathrm{e}-06$ |
| rs10838687 | ENSG00000271350 | CTD-2384B9.1 | Testis | $1.05240516036 \mathrm{e}-07$ |
| rs10838687 | ENSG00000271557 | YPEL5P2 | Nerve-Tibial | $7.51699584443 \mathrm{e}-05$ |
| rs11558471 | ENSG00000147677 | EIF3H | Spleen | $3.9259893852 \mathrm{e}-05$ |
| rs11558471 | ENSG00000164756 | SLC30A8 | Testis | $2.05616636527 \mathrm{e}-05$ |
| rs11558471 | ENSG00000205002 | AARD | Uterus | $2.36883921342 \mathrm{e}-05$ |
| rs11603334 | ENSG00000110195 | FOLR1 | Testis | $7.40531340652 \mathrm{e}-05$ |
| rs11603334 | ENSG00000137522 | RNF121 | Adipose-Subcutaneous | 0.00012619795151 |
| rs11603334 | ENSG00000168010 | ATG16L2 | Cells-Transformed-fibroblasts | 0.000103804026962 |
| rs11603334 | ENSG00000168010 | ATG16L2 | Pituitary | $9.57220796957 \mathrm{e}-09$ |


| rs11603334 | ENSG00000186635 | ARAP1 | Brain-Hippocampus | $2.1792203294 \mathrm{e}-07$ |
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| rs11603334 | ENSG00000186635 | ARAP1 | Esophagus-Mucosa | $2.05283456439 \mathrm{e}-31$ |
| rs11603334 | ENSG00000186635 | ARAP1 | Heart-Left-Ventricle | $9.45571405972 \mathrm{e}-05$ |
| rs11603334 | ENSG00000186635 | $A R A P 1$ | Pituitary | $3.85918791654 \mathrm{e}-05$ |
| rs11603334 | ENSG00000186635 | ARAP1 | Skin-Not-Sun-Exposed-Suprapubic | $4.26194524109 \mathrm{e}-15$ |
| rs11603334 | ENSG00000186635 | ARAP1 | Skin-Sun-Exposed-Lower-leg | $8.6753935429 \mathrm{e}-13$ |
| rs11603334 | ENSG00000186635 | ARAP1 | Vagina | $2.13540139623 \mathrm{e}-06$ |
| rs11603334 | ENSG00000186642 | PDE2A | Pituitary | $1.53022140653 \mathrm{e}-05$ |
| rs11603334 | ENSG00000214530 | STARD10 | Adipose-Subcutaneous | $1.40157404858 \mathrm{e}-22$ |
| rs11603334 | ENSG00000214530 | STARD10 | Adipose-Visceral-Omentum | $4.20018498505 \mathrm{e}-13$ |
| rs11603334 | ENSG00000214530 | STARD10 | Adrenal-Gland | $1.68839708937 \mathrm{e}-05$ |
| rs11603334 | ENSG00000214530 | STARD10 | Artery-Coronary | $3.46434620703 \mathrm{e}-07$ |
| rs11603334 | ENSG00000214530 | STARD10 | Artery-Tibial | $1.80491817243 \mathrm{e}-19$ |
| rs11603334 | ENSG00000214530 | STARD10 | Brain-Hippocampus | $6.91423944576 \mathrm{e}-13$ |
| rs11603334 | ENSG00000214530 | STARD10 | Brain-Hypothalamus | $2.97445826171 \mathrm{e}-06$ |
| rs11603334 | ENSG00000214530 | STARD10 | Brain-Nucleus-accumbens-basal-ganglia | $9.42264951173 \mathrm{e}-18$ |
| rs11603334 | ENSG00000214530 | STARD10 | Brain-Putamen-basal-ganglia | $2.11944255236 \mathrm{e}-10$ |
| rs11603334 | ENSG00000214530 | STARD10 | Cells-Transformed-fibroblasts | $1.10784037248 \mathrm{e}-22$ |
| rs11603334 | ENSG00000214530 | STARD10 | Colon-Sigmoid | $9.66834209833 \mathrm{e}-05$ |
| rs11603334 | ENSG00000214530 | STARD10 | Esophagus-Gastroesophageal-Junction | $6.01227455154 \mathrm{e}-09$ |
| rs11603334 | ENSG00000214530 | STARD10 | Esophagus-Mucosa | $9.98256950799 \mathrm{e}-08$ |
| rs11603334 | ENSG00000214530 | STARD10 | Esophagus-Muscularis | $3.63061000798 \mathrm{e}-21$ |
| rs11603334 | ENSG00000214530 | STARD10 | Heart-Atrial-Appendage | $3.43706247956 \mathrm{e}-14$ |
| rs11603334 | ENSG00000214530 | STARD10 | Heart-Left-Ventricle | $3.56243223152 \mathrm{e}-14$ |
| rs11603334 | ENSG00000214530 | STARD10 | Muscle-Skeletal | $3.15486063502 \mathrm{e}-11$ |
| rs11603334 | ENSG00000214530 | STARD10 | Nerve-Tibial | $8.025380066 \mathrm{e}-10$ |
| rs11603334 | ENSG00000214530 | STARD10 | Skin-Not-Sun-Exposed-Suprapubic | $1.09794276756 \mathrm{e}-06$ |
| rs11603334 | ENSG00000214530 | STARD10 | Skin-Sun-Exposed-Lower-leg | $1.77982862685 \mathrm{e}-12$ |
| rs11603334 | ENSG00000214530 | STARD10 | Spleen | $6.24534239376 \mathrm{e}-06$ |
| rs11603334 | ENSG00000214530 | STARD10 | Testis | $5.77727923768 \mathrm{e}-53$ |
| rs11603334 | ENSG00000214530 | STARD10 | Thyroid | $1.68190571501 \mathrm{e}-21$ |
| rs11603334 | ENSG00000214530 | STARD10 | Whole-Blood | $5.23070685799 \mathrm{e}-28$ |
| rs11603334 | ENSG00000244134 | RPS12P20 | Testis | $3.07943415048 \mathrm{e}-05$ |
| rs11603334 | ENSG00000245148 | ARAP1-AS2 | Esophagus-Mucosa | $3.35542315417 \mathrm{e}-09$ |
| rs11603334 | ENSG00000245148 | ARAP1-AS2 | Esophagus-Muscularis | 0.000132342130158 |
| rs11603334 | ENSG00000245148 | ARAP1-AS2 | Skin-Not-Sun-Exposed-Suprapubic | $5.27971956062 \mathrm{e}-06$ |


| rs11603334 | ENSG00000245148 | ARAP1-AS2 | Skin-Sun-Exposed-Lower-leg | $9.86566634234 \mathrm{e}-07$ |
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| rs11603334 | ENSG00000256007 | ARAP1-AS1 | Esophagus-Mucosa | $4.24608058891 \mathrm{e}-16$ |
| rs11603334 | ENSG00000256007 | ARAP1-AS1 | Skin-Not-Sun-Exposed-Suprapubic | $2.9663658165 \mathrm{e}-10$ |
| rs11603334 | ENSG00000256007 | ARAP1-AS1 | Skin-Sun-Exposed-Lower-leg | $5.59749377236 \mathrm{e}-09$ |
| rs11603334 | ENSG00000256007 | ARAP1-AS1 | Vagina | $1.58350657457 \mathrm{e}-05$ |
| rs11603334 | ENSG00000256633 | RP11-169D4.2 | Pituitary | $1.23716646726 \mathrm{e}-05$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Adipose-Subcutaneous | $7.62040217578 \mathrm{e}-05$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Colon-Transverse | $1.50865490222 \mathrm{e}-07$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Esophagus-Muscularis | $4.46725785788 \mathrm{e}-07$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Heart-Left-Ventricle | $5.12002585695 \mathrm{e}-06$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Muscle-Skeletal | $1.47756162906 \mathrm{e}-07$ |
| rs1549318 | ENSG00000137831 | $U A C A$ | Nerve-Tibial | $7.28332565726 \mathrm{e}-07$ |
| rs1549318 | ENSG00000166173 | $L A R P 6$ | Adipose-Subcutaneous | $1.49001251151 \mathrm{e}-16$ |
| rs1549318 | ENSG00000166173 | $L A R P 6$ | Adipose-Visceral-Omentum | $3.71861526378 \mathrm{e}-05$ |
| rs1549318 | ENSG00000166173 | $L A R P 6$ | Breast-Mammary-Tissue | $3.01567496809 \mathrm{e}-10$ |
| rs1549318 | ENSG00000166173 | $L A R P 6$ | Cells-Transformed-fibroblasts | $9.21978432466 \mathrm{e}-07$ |
| rs1549318 | ENSG00000235420 | RPL29P30 | Testis | $1.91179363617 \mathrm{e}-17$ |
| rs4502156 | ENSG00000129003 | VPS13C | Adipose-Subcutaneous | $6.1378933828 \mathrm{e}-05$ |
| rs4502156 | ENSG00000129003 | VPS13C | Adipose-Visceral-Omentum | 0.000118069002431 |
| rs4502156 | ENSG00000129003 | VPS13C | Artery-Tibial | $7.16531122802 \mathrm{e}-05$ |
| rs4502156 | ENSG00000129003 | VPS13C | Breast-Mammary-Tissue | $2.35245772991 \mathrm{e}-06$ |
| rs4502156 | ENSG00000129003 | VPS13C | Colon-Transverse | $5.8663572571 \mathrm{e}-05$ |
| rs4502156 | ENSG00000129003 | VPS13C | Esophagus-Muscularis | $9.70368440288 \mathrm{e}-06$ |
| rs4502156 | ENSG00000129003 | VPS13C | Lung | $1.04278737378 \mathrm{e}-05$ |
| rs4502156 | ENSG00000129003 | VPS13C | Nerve-Tibial | $5.62544360144 \mathrm{e}-13$ |
| rs4502156 | ENSG00000129003 | VPS13C | Skin-Not-Sun-Exposed-Suprapubic | $1.49754190539 \mathrm{e}-06$ |
| rs4502156 | ENSG00000129003 | VPS13C | Spleen | $4.11087561761 \mathrm{e}-06$ |
| rs4502156 | ENSG00000129003 | VPS13C | Whole-Blood | $8.48876714464 \mathrm{e}-14$ |
| rs4502156 | ENSG00000166104 | RP11-299H22.3 | Colon-Transverse | $8.83954284179 \mathrm{e}-05$ |
| rs4502156 | ENSG00000198535 | C2CD4A | Brain-Hippocampus | $6.59057183308 \mathrm{e}-05$ |
| rs4502156 | ENSG00000198535 | $C 2 C D 4 A$ | Lung | $9.4578914753 \mathrm{e}-13$ |
| rs4502156 | ENSG00000198535 | $C 2 C D 4 A$ | Nerve-Tibial | 0.000108136855995 |
| rs4502156 | ENSG00000259251 | LOC101928907 | Nerve-Tibial | $9.94052704877 \mathrm{e}-05$ |
| rs4502156 | ENSG00000259498 | RP11-244F12.3 | Muscle-Skeletal | $8.54339417378 \mathrm{e}-05$ |
| rs4502156 | ENSG00000259675 | RP11-507B12.1 | Vagina | $3.22452434691 \mathrm{e}-05$ |
| rs4502156 | ENSG00000260062 | GOLGA2P11 | Pituitary | 0.000125427812608 |


| rs4790333 | ENSG00000070366 | SMG6 | Testis | $2.01796250091 \mathrm{e}-06$ |
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| rs4790333 | ENSG00000070444 | MNT | Adipose-Subcutaneous | $4.53753966934 \mathrm{e}-08$ |
| rs4790333 | ENSG00000070444 | MNT | Adrenal-Gland | $6.77383628198 \mathrm{e}-05$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Lung | $2.08911326634 \mathrm{e}-08$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Nerve-Tibial | 0.000123995238637 |
| rs4790333 | ENSG00000070444 | $M N T$ | Skin-Not-Sun-Exposed-Suprapubic | $6.9348827878 \mathrm{e}-06$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Skin-Sun-Exposed-Lower-leg | $1.41251332152 \mathrm{e}-10$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Testis | $1.82199043457 \mathrm{e}-05$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Thyroid | $2.8092498687 \mathrm{e}-05$ |
| rs4790333 | ENSG00000070444 | $M N T$ | Whole-Blood | $6.69149421706 \mathrm{e}-10$ |
| rs4790333 | ENSG00000074660 | $S C A R F 1$ | Breast-Mammary-Tissue | $5.81999912602 \mathrm{e}-05$ |
| rs4790333 | ENSG00000108958 | AC016292.3 | Artery-Tibial | 0.000120131601801 |
| rs4790333 | ENSG00000127804 | METTL16 | Muscle-Skeletal | $3.64473881672 \mathrm{e}-11$ |
| rs4790333 | ENSG00000132359 | $R A P 1 G A P 2$ | Uterus | $1.74458994676 \mathrm{e}-05$ |
| rs4790333 | ENSG00000132376 | INPP5K | Brain-Hypothalamus | 0.000105311720954 |
| rs4790333 | ENSG00000132376 | INPP5K | Brain-Putamen-basal-ganglia | $9.25511693927 \mathrm{e}-05$ |
| rs4790333 | ENSG00000132386 | SERPINF1 | Brain-Nucleus-accumbens-basal-ganglia | $6.2230988248 \mathrm{e}-05$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Adipose-Subcutaneous | $1.87167531203 \mathrm{e}-10$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Artery-Tibial | $6.76272799246 \mathrm{e}-07$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Breast-Mammary-Tissue | 0.000100471127705 |
| rs4790333 | ENSG00000141258 | SGSM2 | Esophagus-Mucosa | $7.88667220572 \mathrm{e}-47$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Nerve-Tibial | $2.57641700445 \mathrm{e}-11$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Pancreas | $5.51821315507 \mathrm{e}-05$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Skin-Not-Sun-Exposed-Suprapubic | $5.70294488579 \mathrm{e}-47$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Skin-Sun-Exposed-Lower-leg | $5.39552112912 \mathrm{e}-75$ |
| rs4790333 | ENSG00000141258 | SGSM2 | Thyroid | $1.03236535251 \mathrm{e}-12$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Adipose-Subcutaneous | $2.62770624435 \mathrm{e}-24$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Adipose-Visceral-Omentum | $3.66599465005 \mathrm{e}-16$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Adrenal-Gland | $2.18813555214 \mathrm{e}-21$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Artery-Aorta | $1.5666233516 \mathrm{e}-27$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Artery-Tibial | $3.51909532525 \mathrm{e}-27$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Brain-Hippocampus | $1.96767876321 \mathrm{e}-06$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Breast-Mammary-Tissue | $5.98991547683 \mathrm{e}-23$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Cells-Transformed-fibroblasts | $1.96530464307 \mathrm{e}-58$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Colon-Sigmoid | $4.711288685 \mathrm{e}-19$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Colon-Transverse | $8.86943187099 \mathrm{e}-14$ |


| rs4790333 | ENSG00000167720 | $S R R$ | Esophagus-Gastroesophageal-Junction | $6.39417074123 \mathrm{e}-20$ |
| :---: | :---: | :---: | :---: | :---: |
| rs4790333 | ENSG00000167720 | $S R R$ | Esophagus-Mucosa | $2.03191201428 \mathrm{e}-26$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Esophagus-Muscularis | $4.63974738477 \mathrm{e}-35$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Heart-Atrial-Appendage | $6.82859211342 \mathrm{e}-22$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Lung | $2.00383443438 \mathrm{e}-27$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Muscle-Skeletal | $1.1655201508 \mathrm{e}-40$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Nerve-Tibial | $2.01827714245 \mathrm{e}-13$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Pancreas | $4.61920620534 \mathrm{e}-11$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Prostate | $1.0414967858 \mathrm{e}-05$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Skin-Not-Sun-Exposed-Suprapubic | $1.55125329116 \mathrm{e}-08$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Skin-Sun-Exposed-Lower-leg | $5.80578214063 \mathrm{e}-15$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Small-Intestine-Terminal-Ileum | $3.88146136704 \mathrm{e}-06$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Spleen | $5.78311512656 \mathrm{e}-06$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Stomach | $9.93468115975 \mathrm{e}-28$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Testis | $5.68574604246 \mathrm{e}-10$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Thyroid | $3.04088943829 \mathrm{e}-29$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Uterus | $2.31653846137 \mathrm{e}-05$ |
| rs4790333 | ENSG00000167720 | $S R R$ | Vagina | 0.000128293539354 |
| rs4790333 | ENSG00000167720 | $S R R$ | Whole-Blood | $2.63403824064 \mathrm{e}-12$ |
| rs4790333 | ENSG00000167721 | TSR1 | Esophagus-Mucosa | $3.19159108277 \mathrm{e}-07$ |
| rs4790333 | ENSG00000167721 | TSR1 | Skin-Not-Sun-Exposed-Suprapubic | $1.78661783865 \mathrm{e}-06$ |
| rs4790333 | ENSG00000167721 | TSR1 | Skin-Sun-Exposed-Lower-leg | $2.90773079263 \mathrm{e}-12$ |
| rs4790333 | ENSG00000185924 | RTN4RL1 | Prostate | $4.33826055896 \mathrm{e}-05$ |
| rs4790333 | ENSG00000197879 | MYO1C | Pituitary | $4.94222032517 \mathrm{e}-05$ |
| rs4790333 | ENSG00000236838 | AC090617.1 | Testis | $4.05530839887 \mathrm{e}-11$ |
| rs4790333 | ENSG00000239884 | RN'SL608P | Adrenal-Gland | $1.25431983335 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262333 | HNRNPA1P16 | Pancreas | $4.41628579011 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262456 | RP1-59D14.1 | Adipose-Subcutaneous | $1.9273076244 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262456 | RP1-59D14.1 | Lung | $1.62943932639 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262456 | RP1-59D14.1 | Skin-Not-Sun-Exposed-Suprapubic | $3.79534080211 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262456 | RP1-59D14.1 | Skin-Sun-Exposed-Lower-leg | $3.03752617814 \mathrm{e}-09$ |
| rs4790333 | ENSG00000262456 | RP1-59D14.1 | Whole-Blood | $5.09383256186 \mathrm{e}-08$ |
| rs4790333 | ENSG00000262533 | RP11-667K14.4 | Esophagus-Muscularis | $3.34437203641 \mathrm{e}-07$ |
| rs4790333 | ENSG00000262533 | RP11-667K14.4 | Thyroid | $6.46727494394 \mathrm{e}-05$ |
| rs4790333 | ENSG00000262884 | LOC101927911 | Adrenal-Gland | $2.38261550886 \mathrm{e}-05$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Adipose-Subcutaneous | $1.5906942067 \mathrm{e}-08$ |


| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Adipose-Visceral-Omentum | $1.20925708546 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Artery-Aorta | $2.64778354704 \mathrm{e}-06$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Artery-Tibial | $8.30712895499 \mathrm{e}-11$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Breast-Mammary-Tissue | $3.8474954638 \mathrm{e}-06$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Cells-Transformed-fibroblasts | 0.000103815497139 |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Colon-Sigmoid | $1.0110430983 \mathrm{e}-07$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Colon-Transverse | $6.59603168599 \mathrm{e}-07$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Esophagus-Gastroesophageal-Junction | $1.17031329814 \mathrm{e}-05$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Esophagus-Mucosa | $4.69921628394 \mathrm{e}-17$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Esophagus-Muscularis | $2.28617562809 \mathrm{e}-08$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Lung | $1.14149548548 \mathrm{e}-08$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Muscle-Skeletal | $8.41241468254 \mathrm{e}-05$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Nerve-Tibial | $2.09575325565 \mathrm{e}-09$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Pancreas | $1.91973455846 \mathrm{e}-07$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Skin-Not-Sun-Exposed-Suprapubic | $6.38363784966 \mathrm{e}-20$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Skin-Sun-Exposed-Lower-leg | $2.24221376177 \mathrm{e}-41$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Small-Intestine-Terminal-Ileum | $4.41741438412 \mathrm{e}-05$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Stomach | $2.88769867873 \mathrm{e}-06$ |
| rs4790333 | ENSG00000263345 | RP1-59D14.5 | Thyroid | $5.00865925951 \mathrm{e}-17$ |
| rs4790333 | ENSG00000272911 | RP11-74E22.6 | Thyroid | $2.08968750769 \mathrm{e}-05$ |
| rs6235 | ENSG00000164292 | RHOBTB3 | Muscle-Skeletal | $7.32402521053 \mathrm{e}-07$ |
| rs6235 | ENSG00000164308 | ERAP2 | Lung | $6.94383289294 \mathrm{e}-06$ |
| rs6235 | ENSG00000164308 | ERAP2 | Muscle-Skeletal | $7.08184188823 \mathrm{e}-06$ |
| rs6235 | ENSG00000175426 | PCSK1 | Adipose-Subcutaneous | $1.86595194529 \mathrm{e}-05$ |
| rs6235 | ENSG00000175426 | PCSK1 | Adipose-Visceral-Omentum | $2.25873475953 \mathrm{e}-05$ |
| rs6235 | ENSG00000175426 | PCSK1 | Artery-Aorta | $7.48841603785 \mathrm{e}-05$ |
| rs6235 | ENSG00000175426 | PCSK1 | Artery-Tibial | $7.7780236049 \mathrm{e}-09$ |
| rs6235 | ENSG00000175426 | PCSK1 | Muscle-Skeletal | $1.99497206617 \mathrm{e}-05$ |
| rs6235 | ENSG00000175426 | PCSK1 | Nerve-Tibial | $2.47059964991 \mathrm{e}-05$ |
| rs6235 | ENSG00000249746 | RP11-254I22.3 | Liver | $1.15708047575 \mathrm{e}-05$ |
| rs6235 | ENSG00000251000 | AC008592.3 | Small-Intestine-Terminal-Ileum | $5.59609886091 \mathrm{e}-05$ |
| rs7903146 | ENSG00000119927 | GPAM | Uterus | 0.000105881315055 |
| rs7903146 | ENSG00000148737 | TCF7L2 | Artery-Aorta | $2.41309804086 \mathrm{e}-08$ |
| rs7903146 | ENSG00000148737 | $T C F^{\prime} 7 L 2$ | Cells-Transformed-fibroblasts | $4.9364884775 \mathrm{e}-05$ |
| rs7903146 | ENSG00000151532 | VTI1A | Nerve-Tibial | 0.000126683454415 |
| rs7903146 | ENSG00000165806 | $C A S P{ }^{7}$ | Pancreas | 0.000106676244722 |


| rs7903146 | ENSG00000165806 | $C A S P 7$ | Uterus | $1.928007398 \mathrm{e}-05$ |
| :---: | :---: | :---: | :---: | :---: |
| rs7903146 | ENSG00000197142 | $A C S L 5$ | Muscle-Skeletal | $8.30564397475 \mathrm{e}-05$ |
| rs7903146 | ENSG00000197893 | $N R A P$ | Pancreas | $5.87163857808 \mathrm{e}-05$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Adipose-Subcutaneous | $8.01903050249 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Adipose-Visceral-Omentum | 0.000116670281781 |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Artery-Coronary | $7.52881713657 \mathrm{e}-05$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Artery-Tibial | $8.49093176404 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Breast-Mammary-Tissue | $1.57494777667 \mathrm{e}-07$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Cells-Transformed-fibroblasts | $2.20760403394 \mathrm{e}-05$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Colon-Sigmoid | $1.70252542602 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Colon-Transverse | $1.4331889962 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Esophagus-Gastroesophageal-Junction | $3.46354862923 \mathrm{e}-08$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Esophagus-Mucosa | $2.87613838631 \mathrm{e}-07$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Esophagus-Muscularis | $1.21308084669 \mathrm{e}-14$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Lung | $4.8139851224 \mathrm{e}-13$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Muscle-Skeletal | $3.3063719769 \mathrm{e}-09$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Nerve-Tibial | $7.92423442978 \mathrm{e}-33$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Ovary | $6.58528159444 \mathrm{e}-07$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Pituitary | $4.84808780686 \mathrm{e}-10$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Prostate | $3.55202963832 \mathrm{e}-10$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Skin-Not-Sun-Exposed-Suprapubic | $3.2118971947 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Skin-Sun-Exposed-Lower-leg | $8.31064590167 \mathrm{e}-07$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Testis | $1.00946591504 \mathrm{e}-05$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Thyroid | $4.80328361344 \mathrm{e}-11$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Uterus | $2.18871343943 \mathrm{e}-05$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Vagina | $7.31216360291 \mathrm{e}-06$ |
| rs7903146 | ENSG00000233547 | RP11-57H14.2 | Whole-Blood | $3.19447612908 \mathrm{e}-10$ |
| rs9727115 | ENSG00000117598 | PLPPR5 | Testis | $1.37817618778 \mathrm{e}-05$ |
| rs9727115 | ENSG00000117600 | PLPPR4 | Cells-Transformed-fibroblasts | $2.47272652341 \mathrm{e}-05$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Adipose-Subcutaneous | $3.10423023004 \mathrm{e}-06$ |
| rs9727115 | ENSG00000162627 | SNX 7 | Adipose-Visceral-Omentum | 0.000119457641076 |
| rs9727115 | ENSG00000162627 | SNX ${ }^{7}$ | Artery-Aorta | $3.27419942829 \mathrm{e}-14$ |
| rs9727115 | ENSG00000162627 | SNX ${ }^{7}$ | Artery-Tibial | $2.8535505536 \mathrm{e}-06$ |
| rs9727115 | ENSG00000162627 | $S N X 7$ | Cells-Transformed-fibroblasts | $5.90947269828 \mathrm{e}-11$ |
| rs9727115 | ENSG00000162627 | SNX ${ }^{7}$ | Esophagus-Muscularis | $9.66559107291 \mathrm{e}-06$ |
| rs9727115 | ENSG00000162627 | $S N X 7$ | Heart-Left-Ventricle | $3.72055920472 \mathrm{e}-05$ |


| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Lung | $3.60279212263 \mathrm{e}-10$ |
| :---: | :---: | :---: | :---: | :---: |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Nerve-Tibial | $7.07821490358 \mathrm{e}-10$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Skin-Not-Sun-Exposed-Suprapubic | $4.63114014753 \mathrm{e}-07$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Skin-Sun-Exposed-Lower-leg | $2.9230712805 \mathrm{e}-07$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Spleen | $7.04657413939 \mathrm{e}-16$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Thyroid | $1.1784762688 \mathrm{e}-08$ |
| rs9727115 | ENSG00000162627 | $S N X^{7}$ | Whole-Blood | $1.35173975707 \mathrm{e}-15$ |

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[2] Strawbridge, R. J., Dupuis, J., Prokopenko, I., et al. (2011). Genome-wide association identifies nine common variants associated with fasting proinsulin levels and provides new insights into the pathophysiology of type 2 diabetes. Diabetes, 60(10), 2624-2634.

