**Supplementary Table S3. Significant Two-SNP LRT Results for SNPs Identified by Random Forest**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SNP 1** | **Gene 1** | **SNP 2** | **Gene 2** | **LRT *p*-value** |
| rs4844550 | MAPKAPK2 | rs11014511 | CACNB2 | 0.019 |
| rs4844550 | MAPKAPK2 | rs1052751 | PLD2 | 0.029 |
| rs3791424 | HDAC4 | rs3798290 | FHL5 | 0.038 |
| rs12469994 | HDAC4 | rs2291862 | ITPR1 | 0.0088 |
| rs12469994 | HDAC4 | rs939626 | IGF1R | 0.032 |
| rs2291862 | ITPR1 | rs1052751 | PLD2 | 0.044 |
| rs13083813 | TGFBR2 | rs11780700 | SGK3 | 0.035 |
| rs13083813 | TGFBR2 | rs11654719 | PRKCA | 0.02 |
| rs4720279 | AMPH | rs2058502 | EGFR | 0.049 |
| rs2058502 | EGFR | rs4387877 | PLCB1 | 0.029 |
| rs11780700 | SGK3 | rs1052751 | PLD2 | 0.011 |
| rs939626 | IGF1R | rs4387877 | PLCB1 | 0.033 |