**Supplementary Table S7 gene based test results**. The top twenty genes from gene-based analysis, using MAGMA, are provided. The top portion of the table provides results from meta-analysis, for each gene, across the 16 raw datasets. The lower portion provides results using all 19 datasets (16 with raw data and 3 using summary statistics).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NAME** | **P** | **GENE** | **CHR** | **START** | **STOP** | **SHARED** |
| 16 datasets |  |  |  |  |  |  |
| MMP20 | 1.1E-04 | 9313 | 11 | 102447566 | 102496063 | . |
| SLC2A5 | 2.4E-04 | 6518 | 1 | 9097005 | 9131763 | . |
| E2F7 | 2.6E-04 | 144455 | 12 | 77415026 | 77459360 | . |
| IL36G | 3.0E-04 | 56300 | 2 | 113735596 | 113743249 | yes |
| PARP10 | 4.6E-04 | 84875 | 8 | 145051320 | 145060635 | . |
| RPL3 | 4.9E-04 | 6122 | 22 | 39708887 | 39715670 | yes |
| E2F8 | 7.1E-04 | 79733 | 11 | 19245610 | 19263202 | yes |
| HIGD1C | 8.4E-04 | 613227 | 12 | 51346200 | 51364668 | yes |
| SETD5 | 9.3E-04 | 55209 | 3 | 9439384 | 9519838 | yes |
| PTTG1IP | 1.0E-03 | 754 | 21 | 46269500 | 46294487 | yes |
| TTC39B | 1.1E-03 | 158219 | 9 | 15170842 | 15307358 | . |
| GRINA | 1.1E-03 | 2907 | 8 | 145064226 | 145067596 | . |
| DBH | 1.1E-03 | 1621 | 9 | 136501485 | 136524466 | . |
| CCRL2 | 1.1E-03 | 9034 | 3 | 46448721 | 46454488 | . |
| ZNF704 | 1.2E-03 | 619279 | 8 | 81540686 | 81787016 | yes |
| LOC101928621 | 1.2E-03 | 101928621 | 4 | 1317222 | 1319906 | . |
| PITPNM1 | 1.2E-03 | 9600 | 11 | 67259231 | 67272843 | . |
| CUL2 | 1.3E-03 | 8453 | 10 | 35297479 | 35379570 | . |
| PLD3 | 1.4E-03 | 23646 | 19 | 40854302 | 40884392 | yes |
| GNA15 | 1.4E-03 | 2769 | 19 | 3136191 | 3163766 | yes |
| 19 datasets |  |  |  |  |  |  |
| E2F8 | 4.7E-05 | 79733 | 11 | 19245610 | 19263202 | yes |
| STX2 | 1.3E-04 | 2054 | 12 | 131274145 | 131323819 | . |
| PSMA4 | 2.6E-04 | 5685 | 15 | 78832747 | 78841562 | . |
| RPL3 | 3.1E-04 | 6122 | 22 | 39708887 | 39715670 | yes |
| ZNF704 | 4.2E-04 | 619279 | 8 | 81540686 | 81787016 | yes |
| DNTTIP2 | 4.8E-04 | 30836 | 1 | 94335014 | 94345474 | . |
| SETD5 | 6.0E-04 | 55209 | 3 | 9439384 | 9519838 | yes |
| NTF4 | 6.8E-04 | 4909 | 19 | 49564323 | 49568333 | . |
| TMEM156 | 8.0E-04 | 80008 | 4 | 38968052 | 39034041 | . |
| C17orf100 | 8.0E-04 | 388327 | 17 | 6555059 | 6556617 | . |
| GNG8 | 8.3E-04 | 94235 | 19 | 47137333 | 47137939 | . |
| CHST13 | 8.4E-04 | 166012 | 3 | 126243131 | 126262134 | . |
| ICOSLG | 8.7E-04 | 23308 | 21 | 45642874 | 45660881 | . |
| IL36G | 9.1E-04 | 56300 | 2 | 113735596 | 113743249 | yes |
| BANF2 | 9.4E-04 | 140836 | 20 | 17674320 | 17716517 | . |
| GNA15 | 1.0E-03 | 2769 | 19 | 3136191 | 3163766 | yes |
| PLD3 | 1.0E-03 | 23646 | 19 | 40854302 | 40884392 | yes |
| HIGD1C | 1.2E-03 | 613227 | 12 | 51346200 | 51364668 | yes |
| PTTG1IP | 1.2E-03 | 754 | 21 | 46269500 | 46294487 | yes |
| SLC25A44 | 1.2E-03 | 9673 | 1 | 156163728 | 156182587 | . |

P=p-value, CHR=chromosome, START=start position of gene, STOP=end position of gene, SHARED=designation that the gene is among the top twenty results in both sets of gene based results (i.e. using 16 and 19 datasets).