**Table 2. Summary of 405 Genes with a Higher Prevalence (p<0.05) of Ultra-Rare, Non-Synonymous Variants in Cases Compared to Controls**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number** | **Gene ID** | **pValue** | **Odds Ratio (OR)** | **Number of Variant Positive Cases (n=278)** | **Number of Variant Positive Controls (n=973)** |
| 1 | *LRP1* | 0.00026851 | 3.8948 | 16 (5.8%) | 15 (1.5%) |
| 2 | *LHX9* | 0.00052687 | INF | 5 (1.8%) | 0 |
| 3 | *PDS5A* | 0.00065675 | 21.389 | 6 (2.2%) | 1 (0.1%) |
| 4 | *ULK1* | 0.0021371 | 10.68 | 6 (2.2%) | 2 (0.2%) |
| 5 | *NR3C2* | 0.0021371 | 10.68 | 6 (2.2%) | 2 (0.2%) |
| 6 | *OR4C6* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 7 | *CHRM3* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 8 | *CYB5D1* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 9 | *GBP2* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 10 | *ZNF506* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 11 | *IFRD2* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 12 | *BICD2* | 0.0023978 | INF | 4 (1.4%) | 0 |
| 13 | *KDM4DL* | 0.002584 | 17.751 | 5 (1.8%) | 1 (0.1%) |
| 14 | *TNFRSF10D* | 0.002584 | 17.751 | 5 (1.8%) | 1 (0.1%) |
| 15 | *CTIF* | 0.0035877 | 6.2452 | 7 (2.5%) | 4 (0.4%) |
| 16 | *COL20A1* | 0.0035877 | 6.2452 | 7 (2.5%) | 4 (0.4%) |
| 17 | *ARHGEF16* | 0.0045947 | 4.7675 | 8 (2.9%) | 6 (0.6%) |
| 18 | *KIAA1875* | 0.0051873 | 4.03 | 9 (3.2%) | 8 (0.8%) |
| 19 | *CNKSR1* | 0.0052208 | 7.1175 | 6 (2.2%) | 3 (0.3%) |
| 20 | *ABR* | 0.0052208 | 7.1175 | 6 (2.2%) | 3 (0.3%) |
| 21 | *CYP11B2* | 0.0052208 | 7.1175 | 6 (2.2%) | 3 (0.3%) |
| 22 | *MEGF9* | 0.0052208 | 7.1175 | 6 (2.2%) | 3 (0.3%) |
| 23 | *AKAP13* | 0.00628 | 2.5831 | 15 (5.4%) | 21 (2.1%) |
| 24 | *EIF2C4* | 0.0069909 | 4.9923 | 7 (2.5%) | 5 (0.5%) |
| 25 | *ZMYM2* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 26 | *APOBR* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 27 | *SEZ6* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 28 | *ALOX15* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 29 | *ZNF131* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 30 | *LPL* | 0.0074023 | 8.8715 | 5 (1.8%) | 2 (0.2%) |
| 31 | *CYP17A1* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 32 | *MTHFR* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 33 | *ISG20L2* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 34 | *SLC22A25* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 35 | *SELPLG* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 36 | *PFKM* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 37 | *OR6C1* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 38 | *TMEM53* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 39 | *EME2* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 40 | *CCDC55* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 41 | *SUZ12* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 42 | *RAB40B* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 43 | *ZSCAN4* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 44 | *TCP10L* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 45 | *TMEM131* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 46 | *MSH3* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 47 | *RSPH3* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 48 | *ME1* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 49 | *SMURF1* | 0.0098818 | 14.151 | 4 (1.4%) | 1 (0.1%) |
| 50 | *CTC1* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 51 | *POLR1B* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 52 | *RTN4* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 53 | *CPB1* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 54 | *VARS* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 55 | *NCOA2* | 0.01064 | 5.3343 | 6 (2.2%) | 4 (0.4%) |
| 56 | *SORT1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 57 | *PITPNM1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 58 | *RNF121* | 0.010882 | INF | 3 (1.1%) | 0 |
| 59 | *ZNF678* | 0.010882 | INF | 3 (1.1%) | 0 |
| 60 | *CACNB3* | 0.010882 | INF | 3 (1.1%) | 0 |
| 61 | *EIF2C1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 62 | *GDE1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 63 | *PSKH1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 64 | *COTL1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 65 | *NEGR1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 66 | *GSG2* | 0.010882 | INF | 3 (1.1%) | 0 |
| 67 | *SCPEP1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 68 | *FAM73A* | 0.010882 | INF | 3 (1.1%) | 0 |
| 69 | *C19orf26* | 0.010882 | INF | 3 (1.1%) | 0 |
| 70 | *DUSP15* | 0.010882 | INF | 3 (1.1%) | 0 |
| 71 | *TRMT6* | 0.010882 | INF | 3 (1.1%) | 0 |
| 72 | *RRP7A* | 0.010882 | INF | 3 (1.1%) | 0 |
| 73 | *TEX264* | 0.010882 | INF | 3 (1.1%) | 0 |
| 74 | *PCBD2* | 0.010882 | INF | 3 (1.1%) | 0 |
| 75 | *ERGIC1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 76 | *MIER3* | 0.010882 | INF | 3 (1.1%) | 0 |
| 77 | *HBP1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 78 | *CPA1* | 0.010882 | INF | 3 (1.1%) | 0 |
| 79 | *ZFP41* | 0.010882 | INF | 3 (1.1%) | 0 |
| 80 | *NRBP2* | 0.010882 | INF | 3 (1.1%) | 0 |
| 81 | *TRUB2* | 0.010882 | INF | 3 (1.1%) | 0 |
| 82 | *KIAA0556* | 0.011783 | 2.8191 | 11 (4.0) | 14 (1.4%) |
| 83 | *CHIT1* | 0.012308 | 4.1568 | 7 (2.5%) | 6 (0.6%) |
| 84 | *SLC4A5* | 0.012308 | 4.1568 | 7 (2.5%) | 6 (0.6%) |
| 85 | *SEC31A* | 0.012308 | 4.1568 | 7 (2.5%) | 6 (0.6%) |
| 86 | *TBC1D1* | 0.012927 | 3.5691 | 8 (2.9%) | 8 (0.8%) |
| 87 | *PXDNL* | 0.012927 | 3.5691 | 8 (2.9%) | 8 (0.8%) |
| 88 | *KLHDC7A* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 89 | *ATG2B* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 90 | *THSD4* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 91 | *TMEM143* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 92 | *RRP1B* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 93 | *VPS8* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 94 | *C4orf41* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 95 | *PCDHA4* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 96 | *SH2D4A* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 97 | *FANCC* | 0.016178 | 5.9107 | 5 (1.8%) | 3 (0.3%) |
| 98 | *PEX5* | 0.019102 | 4.2641 | 6 (2.2%) | 5 (0.5%) |
| 99 | *NYNRIN* | 0.019102 | 4.2641 | 6 (2.2%) | 5 (0.5%) |
| 100 | *PTPRM* | 0.019102 | 4.2641 | 6 (2.2%) | 5 (0.5%) |
| 101 | *PLD1* | 0.019102 | 4.2641 | 6 (2.2%) | 5 (0.5%) |
| 102 | *FAM193A* | 0.019102 | 4.2641 | 6 (2.2%) | 5 (0.5%) |
| 103 | *KIAA1731* | 0.019807 | 3.1699 | 8 (2.9%) | 9 (0.9%) |
| 104 | *KDM6B* | 0.019807 | 3.1699 | 8 (2.9%) | 9 (0.9%) |
| 105 | *PRR14L* | 0.019807 | 3.1699 | 8 (2.9%) | 9 (0.9%) |
| 106 | *CPSF1* | 0.019807 | 3.1699 | 8 (2.9%) | 9 (0.9%) |
| 107 | *RNF111* | 0.020022 | 3.5597 | 7 (2.5%) | 7 (0.7%) |
| 108 | *TGS1* | 0.020022 | 3.5597 | 7 (2.5%) | 7 (0.7%) |
| 109 | *MUC17* | 0.023956 | 2.076 | 15 (5.4) | 26 (2.6%) |
| 110 | *KIAA1279* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 111 | *WDR47* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 112 | *ANKK1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 113 | *AP4B1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 114 | *SMTNL1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 115 | *CD247* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 116 | *RBMXL2* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 117 | *SETD1B* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 118 | *PIWIL1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 119 | *ATN1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 120 | *HECTD3* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 121 | *RIN3* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 122 | *DAPK2* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 123 | *C15orf58* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 124 | *PLCG1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 125 | *HIC2* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 126 | *MTMR14* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 127 | *KLF3* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 128 | *AC104650.1* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 129 | *NUP155* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 130 | *ADAMTS6* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 131 | *ZNF618* | 0.024477 | 7.0729 | 4 (1.4%) | 2 (0.2%) |
| 132 | *SPTBN5* | 0.026701 | 2.2634 | 12 (4.3) | 19 (1.9%) |
| 133 | *SDK2* | 0.028944 | 2.8502 | 8 (2.9%) | 10 (1.0%) |
| 134 | *SART1* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 135 | *SLC29A2* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 136 | *FAM161B* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 137 | *NUP85* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 138 | *LRRN1* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 139 | *PIGG* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 140 | *HELQ* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 141 | *UGT3A1* | 0.029874 | 4.4299 | 5 (1.8%) | 4 (0.4%) |
| 142 | *ABCA3* | 0.030564 | 3.1122 | 7 (2.5%) | 8 (0.8%) |
| 143 | *FN1* | 0.030564 | 3.1122 | 7 (2.5%) | 8 (0.8%) |
| 144 | *AKAP12* | 0.030564 | 3.1122 | 7 (2.5%) | 8 (0.8%) |
| 145 | *KCNH5* | 0.031213 | 3.5503 | 6 (2.2%) | 6 (0.6%) |
| 146 | *NLRP11* | 0.031213 | 3.5503 | 6 (2.2%) | 6 (0.6%) |
| 147 | *TKTL2* | 0.031213 | 3.5503 | 6 (2.2%) | 6 (0.6%) |
| 148 | *PCDHGB1* | 0.031213 | 3.5503 | 6 (2.2%) | 6 (0.6%) |
| 149 | *HPSE2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 150 | *MPP7* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 151 | *C11orf92* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 152 | *PANX3* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 153 | *LDHC* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 154 | *OR52R1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 155 | *APLNR* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 156 | *RNPEP* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 157 | *PPP1R12A* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 158 | *NUFIP1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 159 | *HSP90AA1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 160 | *OR4E2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 161 | *LTB4R* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 162 | *DPH2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 163 | *OTUD7A* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 164 | *AC090651.1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 165 | *GCOM1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 166 | *PARP16* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 167 | *HAPLN3* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 168 | *NOMO2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 169 | *GLYR1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 170 | *SF3B3* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 171 | *DHRS7B* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 172 | *ETV4* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 173 | *SLC16A5* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 174 | *FAM69C* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 175 | *IL12RB1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 176 | *S1PR4* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 177 | *ACPT* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 178 | *IGLON5* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 179 | *ZNF561* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 180 | *CPXM1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 181 | *SP140* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 182 | *SP100* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 183 | *PHF21B* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 184 | *PROM2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 185 | *CEP63* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 186 | *AADACL2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 187 | *MFSD1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 188 | *MYD88* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 189 | *CYB561D2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 190 | *OR5AC2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 191 | *NFXL1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 192 | *AASDH* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 193 | *CDKL2* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 194 | *BTNL9* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 195 | *LACE1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 196 | *SNX9* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 197 | *SLC17A1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 198 | *SLC17A3* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 199 | *KIAA1009* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 200 | *SERPINE1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 201 | *MLXIPL* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 202 | *ABHD11* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 203 | *HTRA4* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 204 | *PHF19* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 205 | *STRBP* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 206 | *NR5A1* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 207 | *FAM69B* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 208 | *VPS13A* | 0.036334 | 10.575 | 3 (1.1%) | 1 (0.1%) |
| 209 | *ZNF469* | 0.038845 | 2.1842 | 11 (4.0) | 18 (1.8%) |
| 210 | *ZFHX4* | 0.04373 | 2.2301 | 10 (3.6) | 16 (1.6%) |
| 211 | *MYO1E* | 0.044281 | 2.7639 | 7 (2.5%) | 9 (0.9%) |
| 212 | *DIDO1* | 0.044281 | 2.7639 | 7 (2.5%) | 9 (0.9%) |
| 213 | *ATP10B* | 0.044281 | 2.7639 | 7 (2.5%) | 9 (0.9%) |
| 214 | *CTTNBP2NL* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 215 | *TSSC4* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 216 | *ASPM* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 217 | *NT5DC3* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 218 | *TRPV4* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 219 | *PAFAH2* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 220 | *C1orf94* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 221 | *IPP* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 222 | *DOC2A* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 223 | *CHST5* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 224 | *ADAT1* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 225 | *RAPGEFL1* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 226 | *MAP2K6* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 227 | *ZNF763* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 228 | *TNPO2* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 229 | *CC2D1A* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 230 | *PNKP* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 231 | *ZNF544* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 232 | *TM9SF4* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 233 | *DNMT3B* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 234 | *KRTAP10-12* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 235 | *ZNF804A* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 236 | *IL17RA* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 237 | *RASGRP3* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 238 | *INTU* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 239 | *SEC24A* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 240 | *AC008661.1* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 241 | *TRPC7* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 242 | *PCDHGA12* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 243 | *PHIP* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 244 | *ANKRD6* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 245 | *RBM33* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 246 | *CALN1* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 247 | *ELN* | 0.047244 | 4.7125 | 4 (1.4%) | 3 (0.3%) |
| 248 | *RBP3* | 0.047417 | 3.0407 | 6 (2.2%) | 7 (0.7%) |
| 249 | *FARP1* | 0.047417 | 3.0407 | 6 (2.2%) | 7 (0.7%) |
| 250 | *GREB1L* | 0.047417 | 3.0407 | 6 (2.2%) | 7 (0.7%) |
| 251 | *MOV10L1* | 0.047417 | 3.0407 | 6 (2.2%) | 7 (0.7%) |
| 252 | *FRMD4B* | 0.047417 | 3.0407 | 6 (2.2%) | 7 (0.7%) |
| 253 | *ADAMTS14* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 254 | *NCAPD3* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 255 | *CGN* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 256 | *CNTN1* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 257 | *LTA4H* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 258 | *SH3D21* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 259 | *ZNF785* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 260 | *ABCA9* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 261 | *SERPINB8* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 262 | *MYO1F* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 263 | *MMP9* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 264 | *NRIP1* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 265 | *AOX1* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 266 | *GIGYF2* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 267 | *YTHDC2* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 268 | *HSPA4* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 269 | *DMGDH* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 270 | *GPR116* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 271 | *KIAA0368* | 0.049108 | 3.5409 | 5 (1.8%) | 5 (0.5%) |
| 272 | *AKAP9* | 0.049138 | 2.29 | 9 (3.2%) | 14 (1.4%) |
| 273 | *SMC3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 274 | *SHOC2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 275 | *PSTK* | 0.049244 | INF | 2 (0.7%) | 0 |
| 276 | *FRMD4A* | 0.049244 | INF | 2 (0.7%) | 0 |
| 277 | *ZNF22* | 0.049244 | INF | 2 (0.7%) | 0 |
| 278 | *PAPSS2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 279 | *CASP1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 280 | *ADAMTS8* | 0.049244 | INF | 2 (0.7%) | 0 |
| 281 | *FCGR1B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 282 | *TDRKH* | 0.049244 | INF | 2 (0.7%) | 0 |
| 283 | *RORC* | 0.049244 | INF | 2 (0.7%) | 0 |
| 284 | *TRIM46* | 0.049244 | INF | 2 (0.7%) | 0 |
| 285 | *CCT3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 286 | *OR5B2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 287 | *CRP* | 0.049244 | INF | 2 (0.7%) | 0 |
| 288 | *CCDC86* | 0.049244 | INF | 2 (0.7%) | 0 |
| 289 | *SCGB2A1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 290 | *KCNK4* | 0.049244 | INF | 2 (0.7%) | 0 |
| 291 | *C11orf24* | 0.049244 | INF | 2 (0.7%) | 0 |
| 292 | *P2RY2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 293 | *OLFML1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 294 | *RGS1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 295 | *KLRC2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 296 | *RP11-277P12.6* | 0.049244 | INF | 2 (0.7%) | 0 |
| 297 | *C12orf24* | 0.049244 | INF | 2 (0.7%) | 0 |
| 298 | *SLC30A1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 299 | *IFLTD1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 300 | *PTHLH* | 0.049244 | INF | 2 (0.7%) | 0 |
| 301 | *AMN1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 302 | *SLC6A13* | 0.049244 | INF | 2 (0.7%) | 0 |
| 303 | *TRIM58* | 0.049244 | INF | 2 (0.7%) | 0 |
| 304 | *ARF3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 305 | *C12orf44* | 0.049244 | INF | 2 (0.7%) | 0 |
| 306 | *TBK1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 307 | *TFDP1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 308 | *SCEL* | 0.049244 | INF | 2 (0.7%) | 0 |
| 309 | *MFSD2A* | 0.049244 | INF | 2 (0.7%) | 0 |
| 310 | *EDDM3B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 311 | *SLC39A2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 312 | *PPP2R3C* | 0.049244 | INF | 2 (0.7%) | 0 |
| 313 | *ENTPD5* | 0.049244 | INF | 2 (0.7%) | 0 |
| 314 | *ISM2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 315 | *TCL1B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 316 | *AVEN* | 0.049244 | INF | 2 (0.7%) | 0 |
| 317 | *JMJD7-PLA2G4B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 318 | *MAP2K5* | 0.049244 | INF | 2 (0.7%) | 0 |
| 319 | *CLN6* | 0.049244 | INF | 2 (0.7%) | 0 |
| 320 | *MORF4L1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 321 | *HES3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 322 | *ANKS3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 323 | *TERF2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 324 | *TP53I13* | 0.049244 | INF | 2 (0.7%) | 0 |
| 325 | *MSL1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 326 | *CNP* | 0.049244 | INF | 2 (0.7%) | 0 |
| 327 | *KCNJ2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 328 | *NXN* | 0.049244 | INF | 2 (0.7%) | 0 |
| 329 | *SOX15* | 0.049244 | INF | 2 (0.7%) | 0 |
| 330 | *PYCR1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 331 | *SLC25A35* | 0.049244 | INF | 2 (0.7%) | 0 |
| 332 | *ELTD1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 333 | *PIAS2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 334 | *FBXO15* | 0.049244 | INF | 2 (0.7%) | 0 |
| 335 | *VAPA* | 0.049244 | INF | 2 (0.7%) | 0 |
| 336 | *ZNF326* | 0.049244 | INF | 2 (0.7%) | 0 |
| 337 | *CNN1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 338 | *GAMT* | 0.049244 | INF | 2 (0.7%) | 0 |
| 339 | *TECR* | 0.049244 | INF | 2 (0.7%) | 0 |
| 340 | *AP1M1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 341 | *LGALS14* | 0.049244 | INF | 2 (0.7%) | 0 |
| 342 | *NTN5* | 0.049244 | INF | 2 (0.7%) | 0 |
| 343 | *HSD11B1L* | 0.049244 | INF | 2 (0.7%) | 0 |
| 344 | *ZIM3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 345 | *CENPB* | 0.049244 | INF | 2 (0.7%) | 0 |
| 346 | *SRSF6* | 0.049244 | INF | 2 (0.7%) | 0 |
| 347 | *TNFRSF6B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 348 | *C21orf91* | 0.049244 | INF | 2 (0.7%) | 0 |
| 349 | *MRPL39* | 0.049244 | INF | 2 (0.7%) | 0 |
| 350 | *TNFAIP6* | 0.049244 | INF | 2 (0.7%) | 0 |
| 351 | *HOXD1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 352 | *SGOL2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 353 | *SCG2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 354 | *TIMP3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 355 | *AQP12B* | 0.049244 | INF | 2 (0.7%) | 0 |
| 356 | *NRBP1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 357 | *HHLA2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 358 | *MORC1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 359 | *ABHD10* | 0.049244 | INF | 2 (0.7%) | 0 |
| 360 | *CD200* | 0.049244 | INF | 2 (0.7%) | 0 |
| 361 | *ZNF639* | 0.049244 | INF | 2 (0.7%) | 0 |
| 362 | *AC022498.1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 363 | *ZDHHC19* | 0.049244 | INF | 2 (0.7%) | 0 |
| 364 | *FHIT* | 0.049244 | INF | 2 (0.7%) | 0 |
| 365 | *SNTN* | 0.049244 | INF | 2 (0.7%) | 0 |
| 366 | *ARL6IP5* | 0.049244 | INF | 2 (0.7%) | 0 |
| 367 | *TTC29* | 0.049244 | INF | 2 (0.7%) | 0 |
| 368 | *STOX2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 369 | *KCNIP4* | 0.049244 | INF | 2 (0.7%) | 0 |
| 370 | *TMPRSS11BNL* | 0.049244 | INF | 2 (0.7%) | 0 |
| 371 | *CXCL6* | 0.049244 | INF | 2 (0.7%) | 0 |
| 372 | *ROPN1L* | 0.049244 | INF | 2 (0.7%) | 0 |
| 373 | *DAP* | 0.049244 | INF | 2 (0.7%) | 0 |
| 374 | *RELL2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 375 | *NOP16* | 0.049244 | INF | 2 (0.7%) | 0 |
| 376 | *RAD1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 377 | *LMBRD2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 378 | *GZMA* | 0.049244 | INF | 2 (0.7%) | 0 |
| 379 | *SREK1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 380 | *TAS2R1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 381 | *C6orf52* | 0.049244 | INF | 2 (0.7%) | 0 |
| 382 | *NRSN1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 383 | *HIST1H2AE* | 0.049244 | INF | 2 (0.7%) | 0 |
| 384 | *DAXX* | 0.049244 | INF | 2 (0.7%) | 0 |
| 385 | *RRP36* | 0.049244 | INF | 2 (0.7%) | 0 |
| 386 | *CRISP3* | 0.049244 | INF | 2 (0.7%) | 0 |
| 387 | *LY86* | 0.049244 | INF | 2 (0.7%) | 0 |
| 388 | *WNT2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 389 | *OPN1SW* | 0.049244 | INF | 2 (0.7%) | 0 |
| 390 | *STRA8* | 0.049244 | INF | 2 (0.7%) | 0 |
| 391 | *GIMAP8* | 0.049244 | INF | 2 (0.7%) | 0 |
| 392 | *TAX1BP1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 393 | *STX1A* | 0.049244 | INF | 2 (0.7%) | 0 |
| 394 | *SGCE* | 0.049244 | INF | 2 (0.7%) | 0 |
| 395 | *CYP3A5* | 0.049244 | INF | 2 (0.7%) | 0 |
| 396 | *DEFB135* | 0.049244 | INF | 2 (0.7%) | 0 |
| 397 | *EFHA2* | 0.049244 | INF | 2 (0.7%) | 0 |
| 398 | *ADRA1A* | 0.049244 | INF | 2 (0.7%) | 0 |
| 399 | *CRISPLD1* | 0.049244 | INF | 2 (0.7%) | 0 |
| 400 | *DPY19L4* | 0.049244 | INF | 2 (0.7%) | 0 |
| 401 | *MRPL50* | 0.049244 | INF | 2 (0.7%) | 0 |
| 402 | *C9orf150* | 0.049244 | INF | 2 (0.7%) | 0 |
| 403 | *C9orf78* | 0.049244 | INF | 2 (0.7%) | 0 |
| 404 | *GALT* | 0.049244 | INF | 2 (0.7%) | 0 |
| 405 | *CDC37L1* | 0.049244 | INF | 2 (0.7%) | 0 |

INF = infinite