Supplementary Table. P values of χ2 tests of the allele distribution between 8 CFS/ME subtypes for 148 CFS/ME subtype-associated SNPs. The table shows results of both an 8-column χ2 test and χ2 test of the distribution of alleles in one subtype versus that in all the remaining subtypes combined.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **CFS/ME gene expression subtype**  (no. patients tested in each subtype) | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| RefSNP ID | Alleles | Gene | 8-column χ2 test | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** |
|  |  |  |  | 22 | 6 | 19 | 5 | 20 | 13 | 19 | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| rs11890727 | CG | ACTR3 |  |  |  |  |  |  | G:0.038 |  |  |
| rs13405344 | CT | ACTR3 |  |  |  |  |  |  | C:0.038 |  |  |
| rs34380051 | CT | ACTR3 |  |  |  |  |  |  | T:0.032 |  |  |
| rs6713995 | CT | ACTR3 |  |  |  |  |  |  | C:0.032 |  |  |
| rs7564594 | AG | ACTR3 |  |  |  |  |  |  | A:0.034 |  |  |
| rs11658169 | CT | AKAP10 | 0.036 | C:0.041 |  |  |  |  |  | C:0.026 |  |
| rs119672 | CT | AKAP10 |  |  |  |  |  |  |  | T:0.004 |  |
| rs1638525 | CG | AKAP10 |  |  |  |  |  |  |  | C:0.004 |  |
| rs1638526 | AG | AKAP10 |  |  | G:0.023 |  |  |  | G:0.048 |  |  |
| rs203457 | GT | AKAP10 |  |  |  |  |  |  |  | G:0.004 |  |
| rs203466 | CG | AKAP10 |  |  |  |  |  |  |  | G:0.004 |  |
| rs203481 | AG | AKAP10 |  |  |  |  |  |  |  | G:0.004 |  |
| rs850623 | AG | AKAP10 |  |  |  |  |  |  |  | G:0.004 |  |
| rs203462 | AG | AKAP10 |  |  |  |  |  |  |  | A:0.0097 |  |
| rs2108978 | AG | AKAP10 |  |  |  |  |  |  |  | G:0.0097 |  |
| rs1043029 | AG | ARL4C |  |  | A:0.025 |  |  | G:0.044 |  |  |  |
| rs2228431\* | CT | ARSD |  |  |  | T:0.050 |  | C:0.0094 |  |  |  |
| rs2302077 | AT | ARSD |  |  |  |  |  |  |  | G:0.043 |  |
| rs2515194 | CT | ATP6V1C1 | 0.00034 | T:0.038 |  | T:0.042 |  | C:0.013 |  | C:0.0003 |  |
| rs12687359 | AT | BCOR | 0.00032 |  |  |  |  | T:0.031 |  |  | T:< 0.0001 |
| rs5917933 | AG | BCOR | 0.0054 |  |  |  | A:< 0.0001 |  |  |  |  |
| rs17003476 | CT | BMP2K |  |  |  | C:0.021 |  |  |  |  |  |
| rs12507099 | CG | BMP2K |  |  |  |  |  |  | G:0.016 |  |  |
| rs12695175 | AC | CD47 |  |  |  |  |  |  | C:0.030 |  |  |
| rs4622030 | CT | CEP350 |  |  |  |  |  |  |  |  | T:0.029 |
| rs1131431 | CT | CITED2 |  |  |  |  |  |  |  | C:0.021 |  |
| rs1108259 | CG | CMTM6 |  |  |  |  | G:0.015 |  |  |  |  |
| rs342765 | AT | CMTM6 |  | T:0.011 |  |  |  |  |  | A:0.013 |  |
| rs129967 | AG | CREBBP |  |  |  |  |  |  |  | A:0.0085 |  |
| rs130002 | CT | CREBBP |  |  |  |  |  |  |  | C:0.0085 |  |
| rs11657524 | CG | CRK |  |  |  |  | C:0.036 | C:0.043 |  |  |  |
| rs16946807 | AC | CRK |  |  |  |  | C:0.042 |  |  |  |  |
| rs1250101 | CT | CTBP1 |  |  |  |  | C:0.040 |  |  |  |  |
| rs12859788 | AG | EBI2 |  |  | A:0.011 |  |  |  |  |  |  |
| rs1463273 | AG | EIF4G3 |  |  |  |  |  |  |  | A:0.028 |  |
| rs960564 | GT | EIF4G3 |  |  |  |  |  |  |  |  | T:0.032 |
| rs10958736 | AG | FNTA |  |  |  |  |  |  |  |  | A:0.0099 |
| rs4764326 | CG | GABARAPL1 |  | G:0.047 |  |  |  |  |  |  |  |
| rs11701994 | CG | GABPA |  |  |  |  |  |  |  | G:0.044 |  |
| rs928265 | AG | GABPA |  |  |  |  |  |  |  | G:0.044 |  |
| rs11065035 | AG | GCN1L1 |  | A:0.021 |  |  |  |  |  |  |  |
| rs2240314 | AG | GCN1L1 |  | A:0.010 |  |  |  |  |  |  |  |
| rs2240315 | AT | GCN1L1 |  | A:0.013 |  |  |  |  |  |  |  |
| rs2240317 | AC | GCN1L1 |  | A:0.031 |  |  |  |  |  |  |  |
| rs2240325 | AG | GCN1L1 |  | A:0.029 |  |  |  |  |  |  |  |
| rs2269945 | CT | GCN1L1 |  | C:0.029 |  |  |  |  |  |  |  |
| rs2286044 | AC | GCN1L1 |  | A:0.013 |  |  |  |  |  |  |  |
| rs2286050 | AG | GCN1L1 |  | A:0.028 |  |  |  |  |  |  |  |
| rs10760169 | CT | GSN |  |  |  |  |  |  | C:0.032 |  |  |
| rs1556139 | AG | GSN |  |  |  |  |  | A:0.0075 |  |  |  |
| rs3747850 | AC | GSN |  |  |  |  |  |  | C:0.041 |  |  |
| rs3761856 | AG | GSN |  |  |  |  |  |  | G:0.021 |  |  |
| rs7870797 | AG | GSN |  |  |  |  |  |  | G:0.041 |  |  |
| rs963003 | AG | GSN |  |  |  |  |  |  | A:0.041 |  |  |
| rs9102 | CT | GSN |  |  |  |  |  | C:0.048 |  |  |  |
| rs17099141 | AG | HIF1A |  |  |  | A:0.015 |  |  |  |  |  |
| rs11549465 | CT | HIF1A |  |  |  |  | T:0.016 |  |  |  |  |
| rs13050445 | CT | IFNAR1 |  |  |  | C:0.014 |  |  |  |  |  |
| rs2252930 | CG | IFNAR1 |  |  |  | C:0.012 |  |  |  |  |  |
| rs2254315 | CT | IFNAR1 |  |  |  |  |  | T:0.021 |  |  |  |
| rs914142 | AG | IFNAR1 |  |  |  |  |  |  |  |  | G:0.0096 |
| rs2229113 | AG | IL10RA |  |  |  |  |  |  |  |  | G:0.048 |
| rs2256111 | AG | IL10RA |  |  |  |  |  |  | G:0.005 |  |  |
| rs2508450 | CT | IL10RA |  |  |  |  |  |  | C:0.04 |  |  |
| rs4845622 | AC | IL6R |  | C:0.049 |  |  |  |  |  | A:0.029 |  |
| rs6690230 | CG | IL6R |  | G:0.020 |  |  |  |  |  |  |  |
| rs8192284 | CG | IL6R |  |  |  |  |  |  |  | G:0.044 |  |
| rs1373998\* | CT | IL6ST | 0.0063 |  |  | C:0.023 |  | T:0.00087 |  |  |  |
| rs6868333 | CT | MAPK9 |  |  |  |  | C:0.049 | T:0.042 |  |  |  |
| rs35582631 | AG | METTL3 |  |  |  | A:0.0038 |  |  |  |  |  |
| rs3752411\* | AG | METTL3 | 0.040 |  |  | A:0.0062 |  |  |  |  |  |
| rs1139130 | AG | METTL3 | 0.0083 |  |  | G:0.0083 |  | G:0.030 |  |  | A:0.041 |
| rs1618613 | AG | MRPL23 |  | G:0.014 |  |  |  |  |  |  |  |
| rs472452 | CT | MRPL23 |  |  |  |  |  |  |  |  | T:0.042 |
| rs2154505 | CT | MRPS6 |  |  |  |  |  | T:0.0094 |  |  |  |
| rs2834380 | AG | MRPS6 |  |  |  |  |  | A:0.019 |  |  |  |
| rs7115 | AG | MRPS6 | 0.013 |  | A:0.018 |  |  | G:0.00084 |  |  |  |
| rs2834384 | GT | MRPS6 | 0.013 |  | G:0.022 |  |  | T:0.0014 |  |  |  |
| rs9511738 | AG | MTMR6 |  |  |  | G:0.036 |  |  |  |  |  |
| rs10908778 | CT | NHLH1 |  |  |  |  |  |  |  | T:0.021 |  |
| rs11621566 | AG | PAPOLA | 0.016 | G:0.014 |  |  |  |  | A:0.037 |  |  |
| rs12589747 | AG | PAPOLA |  |  |  |  |  |  | A:0.0062 |  |  |
| rs2274795 | CT | PAPOLA | 0.016 | T:0.014 |  |  |  |  | C:0.037 |  |  |
| rs16900793 | AT | PDCD6 |  |  |  |  | A:0.0092 |  |  |  |  |
| rs16900804 | CT | PDCD6 |  |  |  |  | C:0.037 |  |  |  |  |
| rs4957014 | GT | PDCD6 |  |  |  |  |  | T:0.0046 |  |  |  |
| rs9654453 | CT | PDCD6 | 0.0083 |  |  |  | C:< 0.0001 |  |  |  |  |
| rs12417410 | AT | PEX16 |  |  |  |  |  |  | A:0.032 | T:0.048 |  |
| rs3802758\* | CT | PEX16 | 0.0016 |  |  | T:0.032 |  | C:0.0020 |  |  |  |
| rs706713 | CT | PIK3R1 |  |  |  |  |  |  |  | T:0.034 |  |
| rs1035395 | AG | PKN1 |  |  |  |  |  |  |  | G:0.04 |  |
| rs2241366 | CG | PKN1 |  |  |  |  |  |  |  | C:0.05 |  |
| rs540516\* | CT | PNPLA6 | 0.029 |  |  |  |  | T:0.0081 |  |  |  |
| rs661825 | CG | PNPLA6 |  |  |  |  |  | C:0.05 |  |  |  |
| rs1062152 | CT | PPP2R5C |  |  |  |  |  |  |  | T:0.011 |  |
| rs1741134 | CT | PPP2R5C |  |  |  |  |  |  |  | C:0.018 |  |
| rs1904298 | CT | PPP2R5C | 0.0067 |  |  | T:0.034 |  |  |  |  | T:0.0004 |
| rs961495 | CT | PPP2R5C |  |  |  |  |  |  | T:0.048 |  |  |
| rs1678034 | CT | PPP2R5C |  |  |  |  |  |  |  | A:0.047 |  |
| rs1678035 | AG | PPP2R5C |  |  |  |  |  |  |  | G:0.013 |  |
| rs1612684 | AC | PPP2R5C |  |  |  |  |  |  |  | A:0.047 |  |
| rs1058327 | CG | PPP2R5C |  |  |  |  |  | C:0.013 |  |  |  |
| rs154268 | CT | PRKAA1 |  | C:0.012 |  |  |  |  |  |  |  |
| rs257009 | AG | PRKAA1 |  | G:0.0054 |  |  |  |  |  |  |  |
| rs466108 | GT | PRKAA1 |  | T:0.0046 |  |  |  |  |  |  |  |
| rs11686919 | AG | PUM2 | 0.040 |  |  |  |  |  |  | G:0.0091 |  |
| rs34065896 | AG | PUM2 |  |  |  |  |  | A:0.047 | G:0.036 |  |  |
| rs34950658 | AG | PUM2 |  |  |  |  |  | A:0.047 | G:0.036 |  |  |
| rs157476 | AG | SFXN1 | 0.0061 |  |  |  |  | A:0.028 |  | G:0.014 |  |
| rs267370 | AC | SFXN1 |  |  |  |  |  |  |  | A:0.017 |  |
| rs267375 | AG | SFXN1 |  |  |  |  |  |  |  | G:0.021 |  |
| rs925197 | AG | SFXN1 | 0.013 |  |  | A:0.022 |  | G:0.015 |  |  |  |
| rs2662170 | CT | SFXN1 | 0.024 |  |  | T:0.0046 |  | C:0.044 |  |  |  |
| rs937353 | CG | SFXN1 | 0.011 |  | C:0.05 | G:0.007 |  | C:0.038 |  |  |  |
| rs2247211 | AG | SHPRH |  |  |  |  |  |  |  | A:0.014 |  |
| rs2256998 | AC | SHPRH |  |  |  |  |  |  |  | C:0.0095 |  |
| rs4243478 | AG | SHPRH |  |  |  |  |  |  |  | A:0.014 |  |
| rs4360151 | AC | SHPRH |  |  |  |  |  |  |  | A:0.014 |  |
| rs4896852 | CT | SHPRH |  |  |  |  |  |  |  | T:0.022 |  |
| rs9386141 | AT | SHPRH |  |  |  |  |  |  |  | T:0.014 |  |
| rs2834378 | CT | SLC5A3 | 0.013 |  | C:0.018 |  |  | G:0.00084 |  |  |  |
| rs11218304 | AG | SORL1 |  |  | G:0.048 |  |  |  |  |  |  |
| rs12796043\* | CT | SORL1 |  |  | T:0.048 |  |  |  |  |  |  |
| rs668387 | AG | SORL1 |  |  |  | G:0.029 |  |  |  |  |  |
| rs1792120 | AG | SORL1 |  |  |  | G:0.021 |  |  |  |  |  |
| rs689021 | CT | SORL1 |  |  |  | C:0.014 |  |  |  |  |  |
| rs3737529\* | CT | SORL1 |  |  |  | T:0.043 |  |  |  |  |  |
| rs1784933 | AG | SORL1 |  |  |  |  |  |  |  |  | G:0.023 |
| rs1052918 | AG | TCF3 |  |  |  | A:0.024 |  |  |  |  |  |
| rs1860661\* | AG | TCF3 | 0.0079 |  |  | A:0.0014 | G:0.033 |  |  | G:0.050 |  |
| rs2012125 | GT | TCF3 |  |  |  | T:0.032 |  |  |  |  |  |
| rs746752 | AT | TDP1 |  |  |  |  |  |  |  | A:0.012 |  |
| rs942190 | CT | TDP1 |  |  |  |  |  |  |  | T:0.033 |  |
| rs9488 | CT | TDP1 |  |  |  |  |  |  |  | T:0.03 |  |
| rs1061026 | GT | TOX4 | 0.037 |  |  | G:0.0057 |  |  |  |  |  |
| rs2071167\* | AG | UBTF |  |  |  | A:0.05 |  |  |  |  |  |
| rs13128884 | AG | USP38 | 0.014 |  | A:0.0083 |  |  |  |  |  | G:0.021 |
| rs13131510 | AT | USP38 |  |  |  |  |  |  |  | T:0.030 |  |
| rs28470858 | AT | USP38 | 0.016 |  | A:0.0020 |  |  |  |  |  |  |
| rs34461753 | AG | USP38 | 0.0063 |  | G:0.00093 |  |  |  |  | G:0.013 |  |
| rs4690779 | AG | USP38 | 0.014 |  | G:0.0083 |  |  |  |  |  | A:0.021 |
| rs7674403 | AG | USP38 |  |  |  |  |  |  |  | A:0.030 |  |
| rs4285045 | AG | USP38 |  |  | G:0.044 |  |  |  |  |  | A:0.047 |
| rs11817847 | CG | WAPAL |  | C:0.045 |  |  |  |  | G:0.020 |  |  |
| rs11801436 | AG | WDR26 |  | G:0.018 |  |  |  |  |  |  |  |
| rs35277713 | CT | WDR26 |  | T:0.0071 |  |  |  |  |  |  |  |
| rs6426121 | CT | WDR26 |  | T:0.018 |  |  |  |  |  |  |  |
| rs7522956 | AC | WDR26 |  | C:0.018 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

\* SNP also included in Table 1.