**Supplementary Table 2**: characteristics of the variants showing suggestive level of association (p<5e-06) with TRD vs. response (**A**), symptom improvement in TRD and responders (**B**) and TRD vs. response and non-response (**C**). Chr=chromosome; BP=position in base pairs (GRCh37); SE=standard error; L95 and U95=lower and upper confidence interval limits; Rsq=measure of imputation quality; Geno=Imputed (Imp) or genotyped (Geno) variant; A1=minor allele; MAF=minor allele frequency; IndSigSNP=independent SNP showing the lowest p value in the region; dist=distance from the nearest gene; CADD=CADD score, a measure that correlates with allelic diversity, annotations of functionality, pathogenicity, disease severity, experimentally measured regulatory effects and complex trait associations (Kircher et al.. 2014); RDB= RegulomeDB score which is a categorical score (from 1a to 7), 1a is the highest score for SNPs with the most biological evidence to be a regulatory element; ComChr State=the most common 15-core chromatin state across 127 tissue/cell types; MinChrState=the minimum 15-core chromatin state across 127 tissue/cell type.

**A**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rsID | Chr | BP | OR | SE | L95 | U95 | P | Rsq | Geno | A1 | MAF | IndSigSNP | nearestGene | dist | func | CADD | RDB | minChr  State | Com ChrState |
| rs12564480 | 1 | 241829586 | 0.41 | 0.18 | 0.28 | 0.58 | 8.58e-07 | 0.75 | Imp | C | 0.12 | rs12564480 | WDR64 | 0 | intronic | 2.43 | 7 | 5 | 15 |
| rs1841915 | 3 | 21615439 | 0.54 | 0.13 | 0.43 | 0.69 | 1.09e-06 | 1.00 | Imp | G | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 0.63 | 6 | 5 | 15 |
| rs242999 | 22 | 34505903 | 1.85 | 0.13 | 1.44 | 2.37 | 1.30e-06 | 0.75 | Imp | C | 0.39 | rs242999 | LL22NC03-86D4.1 | 0 | ncRNA  intronic | 0.35 | 7 | 9 | 15 |
| rs1871106 | 3 | 21614231 | 0.55 | 0.13 | 0.43 | 0.70 | 1.42e-06 | 1.00 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 1.66 | NA | 5 | 15 |
| rs1478067 | 3 | 21615242 | 0.55 | 0.13 | 0.43 | 0.70 | 1.42e-06 | 1.00 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA\_  intronic | 1.31 | NA | 5 | 15 |
| rs73837957 | 4 | 92604109 | 2.73 | 0.21 | 1.81 | 4.11 | 1.50e-06 | 0.86 | Imp | A | 0.15 | rs73837957 | CCSER1 | 81045 | intergenic | 0.06 | 7 | 9 | 15 |
| rs3965331 | 3 | 21616507 | 0.55 | 0.13 | 0.43 | 0.70 | 1.58e-06 | 1.00 | Imp | A | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 5.73 | 7 | 5 | 15 |
| rs12643347 | 4 | 92605371 | 2.72 | 0.21 | 1.81 | 4.10 | 1.63e-06 | 0.86 | Imp | A | 0.15 | rs73837957 | CCSER1 | 82307 | intergenic | 0.04 | 7 | 9 | 15 |
| rs74475140 | 4 | 92608496 | 2.72 | 0.21 | 1.81 | 4.10 | 1.63e-06 | 0.85 | Imp | T | 0.15 | rs73837957 | CCSER1 | 85432 | intergenic | 0.19 | 6 | 9 | 15 |
| rs7637584 | 3 | 21617814 | 0.55 | 0.12 | 0.43 | 0.70 | 1.68e-06 | 1.00 | Imp | A | 0.40 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 3.87 | 6 | 5 | 15 |
| rs3911494 | 3 | 21592313 | 0.55 | 0.13 | 0.43 | 0.70 | 1.69e-06 | 0.98 | Imp | A | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 2.06 | 6 | 2 | 15 |
| rs7626779 | 3 | 21613034 | 0.55 | 0.12 | 0.43 | 0.71 | 2.05e-06 | 1.00 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 1.08 | 6 | 5 | 15 |
| rs9895559 | 17 | 6635373 | 1.85 | 0.13 | 1.43 | 2.38 | 2.07e-06 | 0.76 | Imp | A | 0.45 | rs9895559 | CTC-281F24.2 | 17631 | intergenic | 1.07 | 6 | 13 | 14 |
| rs73837955 | 4 | 92596103 | 2.67 | 0.21 | 1.78 | 4 | 2.21e-06 | 0.86 | Imp | C | 0.15 | rs73837957 | CCSER1 | 73039 | intergenic | 1.49 | 7 | 9 | 15 |
| rs10460951 | 3 | 21603613 | 0.56 | 0.12 | 0.44 | 0.71 | 2.52e-06 | 1.00 | Geno | A | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 4.23 | 7 | 5 | 15 |
| rs7679930 | 4 | 92592686 | 2.63 | 0.21 | 1.75 | 3.94 | 2.84e-06 | 0.86 | Imp | T | 0.15 | rs73837957 | CCSER1 | 69622 | intergenic | 2.23 | 7 | 9 | 15 |
| rs7616732 | 3 | 21599743 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 8.72 | 7 | 5 | 15 |
| rs4858331 | 3 | 21600337 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | A | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 0.70 | 6 | 5 | 15 |
| rs4858332 | 3 | 21600341 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | G | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 1.22 | 6 | 5 | 15 |
| rs4858333 | 3 | 21600367 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | C | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | NA | 7 | 5 | 15 |
| rs7636804 | 3 | 21601628 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | C | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 3.22 | 6 | 4 | 15 |
| rs7650823 | 3 | 21601844 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 0.99 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | NA | 6 | 4 | 15 |
| rs1960582 | 3 | 21602409 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 1.00 | Imp | C | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 0.02 | 7 | 4 | 15 |
| rs11919873 | 3 | 21602714 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 1.00 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 3.28 | 7 | 4 | 15 |
| rs13072036 | 3 | 21603251 | 0.56 | 0.12 | 0.44 | 0.71 | 3.03e-06 | 1.00 | Imp | C | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 0.33 | 7 | 5 | 15 |
| rs1457582 | 3 | 21618520 | 0.56 | 0.12 | 0.44 | 0.72 | 3.13e-06 | 0.99 | Imp | A | 0.38 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 1.03 | NA | 5 | 15 |
| rs4133271 | 4 | 92610586 | 2.62 | 0.21 | 1.75 | 3.94 | 3.15e-06 | 0.85 | Imp | C | 0.15 | rs73837957 | CCSER1 | 87522 | intergenic | 2.46 | NA | 9 | 15 |
| rs7613175 | 3 | 21598210 | 0.56 | 0.12 | 0.44 | 0.72 | 3.51e-06 | 0.98 | Imp | T | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 2.87 | 7 | 5 | 15 |
| rs7620851 | 3 | 21598299 | 0.56 | 0.12 | 0.44 | 0.72 | 3.51e-06 | 0.98 | Imp | G | 0.39 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 2.18 | 7 | 5 | 15 |
| rs3860581 | 3 | 21616429 | 0.56 | 0.12 | 0.44 | 0.72 | 3.80e-06 | 1.00 | Imp | G | 0.38 | rs1841915 | ZNF385D-AS1 | 0 | ncRNA  intronic | 0.30 | 7 | 5 | 15 |
| rs80080484 | 18 | 68070426 | 0.17 | 0.38 | 0.08 | 0.37 | 3.99e-06 | 0.85 | Imp | C | 0.03 | rs80080484 | RP11-41O4.3 | 8865 | intergenic | 3.34 | 5 | 5 | 15 |
| rs60032550 | 4 | 92586417 | 2.55 | 0.20 | 1.71 | 3.80 | 4.83e-06 | 0.87 | Imp | C | 0.15 | rs73837957 | CCSER1 | 63353 | intergenic | 0.17 | 6 | 9 | 15 |
| rs6532337 | 4 | 92580629 | 2.56 | 0.21 | 1.71 | 3.83 | 4.95e-06 | 0.87 | Imp | A | 0.15 | rs73837957 | CCSER1 | 57565 | intergenic | 4.37 | 7 | 1 | 15 |
| rs6817841 | 4 | 92580955 | 2.56 | 0.21 | 1.71 | 3.83 | 4.95e-06 | 0.87 | Imp | C | 0.15 | rs73837957 | CCSER1 | 57891 | intergenic | 3.70 | 7 | 1 | 15 |
| rs7523641 | 1 | 42355482 | 0.45 | 0.18 | 0.32 | 0.63 | 4.96e-06 | 0.89 | Imp | T | 0.13 | rs12745534 | HIVEP3 | 0 | intronic | 1.40 | 4 | 5 | 15 |
| rs12745534 | 1 | 42356250 | 0.45 | 0.18 | 0.32 | 0.63 | 4.96e-06 | 0.89 | Imp | C | 0.13 | rs12745534 | HIVEP3 | 0 | intronic | 1.01 | 5 | 2 | 15 |

**B**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rsID | Chr | BP | BETA | SE | L95 | U95 | P | Rsq | Geno | A1 | MAF | IndSigSNP | Nearest Gene | dist | func | CADD | RDB | Com Chr State | Min ChrState |
| rs12564480 | 1 | 241829586 | 0.12 | 0.02 | 0.08 | 0.17 | 3.68e-07 | 0.75 | Imp | C | 0.12 | rs12564480 | WDR64 | 0 | intronic | 2.43 | 7 | 15 | 5 |
| rs8099805 | 18 | 13356750 | -0.37 | 0.07 | -0.52 | -0.23 | 7.08e-07 | 0.89 | Imp | C | 0.01 | rs8086741 | LDLRAD4 | 0 | intronic | 1.36 | 5 | 15 | 5 |
| rs8086741 | 18 | 13357229 | -0.37 | 0.07 | -0.52 | -0.23 | 7.08e-07 | 0.89 | Imp | C | 0.01 | rs8086741 | LDLRAD4 | 0 | intronic | 1.09 | 6 | 15 | 5 |
| rs79035215 | 3 | 44996138 | -0.31 | 0.06 | -0.43 | -0.19 | 7.24e-07 | 0.99 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 5.04 | 5 | 5 | 2 |
| rs151145793 | 3 | 44997821 | -0.31 | 0.06 | -0.43 | -0.19 | 7.24e-07 | 0.99 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 0.55 | 7 | 5 | 4 |
| rs142626062 | 3 | 45005716 | -0.31 | 0.06 | -0.43 | -0.19 | 7.24e-07 | 0.99 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 3.36 | 5 | 5 | 5 |
| rs1991346 | 8 | 14151482 | -0.08 | 0.02 | -0.11 | -0.05 | 7.24e-07 | 0.99 | Imp | G | 0.42 | rs1991346 | SGCZ | 0 | intronic | 3.77 | 7 | 15 | 14 |
| rs2036618 | 3 | 44952938 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | G | 0.01 | rs79035215 | TGM4 | 0 | intronic | 5.47 | NA | 15 | 5 |
| rs139388513 | 3 | 44954290 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | TGM4 | 0 | intronic | 1.02 | 7 | 15 | 5 |
| rs117678886 | 3 | 44958275 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | UTR3 | 1.16 | 5 | 5 | 4 |
| rs80343359 | 3 | 44960017 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 0.61 | 4 | 5 | 4 |
| rs148559652 | 3 | 44963990 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 0.56 | 5 | 4 | 4 |
| rs75154391 | 3 | 44964937 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | A | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 2.91 | 7 | 5 | 4 |
| rs143146499 | 3 | 44966232 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 2.66 | 3a | 5 | 4 |
| rs112928874 | 3 | 44970594 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | A | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 5.65 | 5 | 4 | 4 |
| rs79025902 | 3 | 44971778 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 0.12 | 6 | 4 | 4 |
| rs114031764 | 3 | 44976982 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 1.38 | 7 | 5 | 4 |
| rs75637987 | 3 | 44980882 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 1.89 | 5 | 4 | 4 |
| rs148279811 | 3 | 44988550 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 2.32 | 5 | 5 | 4 |
| rs115094000 | 3 | 44990113 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 0.99 | Imp | A | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 0.68 | 4 | 5 | 4 |
| rs147477512 | 3 | 44994073 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | G | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 2.12 | 5 | 5 | 4 |
| rs17077079 | 3 | 45007063 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 3.89 | 5 | 5 | 2 |
| rs17077091 | 3 | 45008164 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 6.83 | 3a | 5 | 2 |
| rs115379228 | 3 | 45009260 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | T | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 8.23 | 5 | 5 | 2 |
| rs148939033 | 3 | 45015008 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 1.00 | Imp | C | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 1.46 | 7 | 5 | 4 |
| rs115151310 | 3 | 45016107 | -0.30 | 0.06 | -0.42 | -0.18 | 9.20e-07 | 0.99 | Imp | A | 0.01 | rs79035215 | ZDHHC3 | 0 | intronic | 4.06 | 3a | 7 | 1 |
| rs1334063 | 9 | 3652155 | 0.08 | 0.02 | 0.05 | 0.11 | 9.28e-07 | 0.82 | Imp | T | 0.33 | rs1334063 | RP11-509J21.1 | 0 | ncRNA intronic | 9.42 | 6 | 15 | 5 |
| rs10814395 | 9 | 3660648 | 0.08 | 0.02 | 0.05 | 0.11 | 1.01e-06 | 0.81 | Imp | G | 0.33 | rs1334063 | RP11-509J21.1 | 0 | ncRNA  intronic | 0.27 | 7 | 15 | 5 |
| rs73837957 | 4 | 92604109 | -0.12 | 0.02 | -0.16 | -0.07 | 1.03e-06 | 0.86 | Imp | A | 0.15 | rs73837957 | CCSER1 | 81045 | intergenic | 0.06 | 7 | 15 | 9 |
| rs12643347 | 4 | 92605371 | -0.12 | 0.02 | -0.16 | -0.07 | 1.17e-06 | 0.86 | Imp | A | 0.15 | rs73837957 | CCSER1 | 82307 | intergenic | 0.04 | 7 | 15 | 9 |
| rs74475140 | 4 | 92608496 | -0.12 | 0.02 | -0.16 | -0.07 | 1.17e-06 | 0.85 | Imp | T | 0.15 | rs73837957 | CCSER1 | 85432 | intergenic | 0.19 | 6 | 15 | 9 |
| rs17077022 | 3 | 44948491 | -0.28 | 0.06 | -0.39 | -0.17 | 1.20e-06 | 1.00 | Geno | G | 0.01 | rs79035215 | TGM4 | 0 | exonic | 0.006 | 5 | 14 | 5 |
| rs2075855 | 11 | 1248960 | 0.14 | 0.03 | 0.09 | 0.20 | 1.26e-06 | 0.89 | Imp | A | 0.08 | rs2075855 | MUC5B | 0 | exonic | 8.60 | 5 | 15 | 4 |
| rs138362018 | 3 | 44950026 | -0.31 | 0.07 | -0.44 | -0.18 | 2.30e-06 | 0.99 | Imp | G | 0.01 | rs138362018 | TGM4 | 0 | Intronic | 2.44 | 6 | NA | NA |
| rs147965604 | 3 | 44974434 | -0.31 | 0.07 | -0.44 | -0.18 | 2.30e-06 | 1.00 | Geno | C | 0.01 | rs79025902 | ZDHHC3 | 0 | missense | 9.80 | 5 | NA | NA |
| rs10514108 | 5 | 78105347 | -0.13 | 0.03 | -0.18 | -0.08 | 1.38e-06 | 0.83 | Imp | T | 0.10 | rs10514108 | ARSB | 0 | intronic | 5.75 | 4 | 15 | 5 |
| rs73837955 | 4 | 92596103 | -0.12 | 0.02 | -0.16 | -0.07 | 1.48e-06 | 0.86 | Imp | C | 0.15 | rs73837957 | CCSER1 | 73039 | intergenic | 1.49 | 7 | 15 | 9 |
| rs952614 | 13 | 110229808 | 0.08 | 0.02 | 0.05 | 0.11 | 1.51e-06 | 0.91 | Imp | A | 0.31 | rs952614 | LINC00676 | 150821 | intergenic | 2.28 | NA | 15 | 2 |
| rs67145712 | 5 | 78105087 | -0.13 | 0.03 | -0.18 | -0.08 | 1.75e-06 | 0.83 | Imp | C | 0.10 | rs10514108 | ARSB | 0 | intronic | 11.28 | 5 | 15 | 5 |
| rs7679930 | 4 | 92592686 | -0.11 | 0.02 | -0.16 | -0.07 | 2.01e-06 | 0.86 | Imp | T | 0.15 | rs73837957 | CCSER1 | 69622 | intergenic | 2.23 | 7 | 15 | 9 |
| rs4133271 | 4 | 92610586 | -0.11 | 0.02 | -0.16 | -0.07 | 2.11e-06 | 0.85 | Imp | C | 0.15 | rs73837957 | CCSER1 | 87522 | intergenic | 2.46 | NA | 15 | 9 |
| rs112534819 | 5 | 44712742 | 0.37 | 0.08 | 0.22 | 0.52 | 2.17e-06 | 0.56 | Imp | T | 0.02 | rs112534819 | RN7SL383P | 3550 | intergenic | 3.54 | 6 | 15 | 5 |
| rs6532337 | 4 | 92580629 | -0.11 | 0.02 | -0.16 | -0.07 | 2.80e-06 | 0.87 | Imp | A | 0.15 | rs73837957 | CCSER1 | 57565 | intergenic | 4.37 | 7 | 15 | 1 |
| rs6817841 | 4 | 92580955 | -0.11 | 0.02 | -0.16 | -0.07 | 2.80e-06 | 0.87 | Imp | C | 0.15 | rs73837957 | CCSER1 | 57891 | intergenic | 3.70 | 7 | 15 | 1 |
| rs188509130 | 7 | 32682773 | 0.34 | 0.07 | 0.20 | 0.48 | 2.85e-06 | 0.70 | Imp | T | 0.01 | rs188509130 | DPY19L1P1 | 0 | ncRNA  intronic | 0.19 | 6 | 15 | 5 |
| rs11021818 | 11 | 1334790 | 0.13 | 0.03 | 0.08 | 0.19 | 2.86e-06 | 0.91 | Imp | C | 0.08 | rs2075855 | TOLLIP-AS1 | 2853 | intergenic | 10.4 | 6 | 15 | 5 |
| rs11022147 | 11 | 1341815 | 0.13 | 0.03 | 0.08 | 0.19 | 2.86e-06 | 0.91 | Imp | A | 0.08 | rs2075855 | TOLLIP-AS1 | 9878 | intergenic | 2.12 | 7 | 15 | 5 |
| rs3021155 | 11 | 1272709 | 0.14 | 0.03 | 0.08 | 0.19 | 2.96e-06 | 1.00 | Imp | A | 0.08 | rs2075855 | MUC5B | 0 | exonic | 3.03 | 2b | 15 | 4 |
| rs3021156 | 11 | 1272754 | 0.14 | 0.03 | 0.08 | 0.19 | 2.96e-06 | 1.00 | Geno | G | 0.08 | rs2075855 | MUC5B | 0 | exonic | 1.36 | 4 | 15 | 4 |
| rs2090193 | 11 | 1353330 | 0.13 | 0.03 | 0.08 | 0.19 | 3.19e-06 | 0.91 | Imp | T | 0.08 | rs2075855 | TOLLIP-AS1 | 21393 | intergenic | 3.85 | 6 | 15 | 5 |
| rs1541314 | 11 | 1263523 | 0.14 | 0.03 | 0.08 | 0.19 | 3.40e-06 | 1.00 | Geno | A | 0.08 | rs2075855 | MUC5B | 0 | exonic | 10.54 | 2b | 15 | 4 |
| rs2943513 | 11 | 1272039 | 0.14 | 0.03 | 0.08 | 0.19 | 3.40e-06 | 1.00 | Imp | A | 0.08 | rs2075855 | MUC5B | 0 | exonic | 4.72 | NA | 15 | 5 |
| rs10860592 | 12 | 78948534 | -0.09 | 0.02 | -0.13 | -0.05 | 3.41e-06 | 0.91 | Imp | T | 0.19 | rs10860592 | RP11-171L9.1 | 14079 | intergenic | 0.78 | 7 | 15 | 9 |
| rs60032550 | 4 | 92586417 | -0.11 | 0.02 | -0.16 | -0.06 | 3.57e-06 | 0.87 | Imp | C | 0.15 | rs73837957 | CCSER1 | 63353 | intergenic | 0.17 | 6 | 15 | 9 |
| rs56146392 | 11 | 1359910 | 0.13 | 0.03 | 0.08 | 0.19 | 3.64e-06 | 0.90 | Imp | C | 0.08 | rs2075855 | TOLLIP-AS1 | 27973 | intergenic | 0.43 | 6 | 14 | 5 |
| rs56118874 | 11 | 1363271 | 0.13 | 0.03 | 0.08 | 0.19 | 3.64e-06 | 0.90 | Imp | T | 0.08 | rs2075855 | TOLLIP-AS1 | 31334 | intergenic | 3.43 | 4 | 14 | 1 |
| rs56249299 | 11 | 1363670 | 0.13 | 0.03 | 0.08 | 0.19 | 3.64e-06 | 0.90 | Imp | G | 0.08 | rs2075855 | TOLLIP-AS1 | 31733 | intergenic | 0.63 | 4 | 14 | 5 |
| rs72865845 | 17 | 74015396 | 0.09 | 0.02 | 0.05 | 0.12 | 3.99e-06 | 0.97 | Imp | C | 0.22 | rs72865845 | EVPL | 0 | intronic | 6.89 | 5 | 15 | 4 |
| rs2735711 | 11 | 1253136 | 0.13 | 0.03 | 0.08 | 0.19 | 4.51e-06 | 0.95 | Imp | T | 0.08 | rs2075855 | MUC5B | 0 | intronic | 6.52 | 5 | 15 | 5 |
| rs2735721 | 11 | 1256117 | 0.13 | 0.03 | 0.08 | 0.19 | 4.51e-06 | 0.97 | Imp | A | 0.08 | rs2075855 | MUC5B | 0 | intronic | 1.44 | 5 | 15 | 4 |
| rs148050386 | 4 | 92578880 | -0.11 | 0.02 | -0.16 | -0.06 | 4.70e-06 | 0.88 | Imp | G | 0.15 | rs73837957 | CCSER1 | 55816 | intergenic | 3.47 | 7 | 15 | 1 |
| rs144150047 | 23 | 124649674 | 0.25 | 0.05 | 0.14 | 0.35 | 4.78e-06 | 1 | Geno | T | 0.04 | rs144150047 | AL645819.1 | 147225 | intergenic | 6.93 | 7 | 15 | 9 |
| rs10109318 | 8 | 14156422 | -0.07 | 0.02 | -0.10 | -0.04 | 4.79e-06 | 1.00 | Imp | A | 0.42 | rs1991346 | SGCZ | 0 | intronic | 1.62 | 7 | 15 | 9 |
| rs2176310 | 4 | 92569578 | -0.11 | 0.02 | -0.16 | -0.06 | 4.84e-06 | 0.89 | Imp | T | 0.15 | rs73837957 | CCSER1 | 46514 | intergenic | 0.80 | NA | 15 | 5 |
| rs151126591 | 8 | 99472289 | 0.35 | 0.08 | 0.20 | 0.49 | 4.99e-06 | 0.48 | Imp | T | 0.01 | rs151126591 | STK3 | 0 | intronic | 2.63 | 6 | 15 | 4 |

**C**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rsID or nsvID | CHR | BP | OR | SE | L95 | U95 | P | Rsq | Geno | A1 | MAF | IndSigSNP | nearestGene | dist | func | CADD | RDB | Min ChrState | Com ChrState |
| rs7665833 | 4 | 131381117 | 2.03 | 0.13 | 1.56 | 2.64 | 1.05E-07 | 0.94 | Imp | A | 0.14 | rs7665833 | PGBD4P4 | 34711 | intergenic | 1.43 | 6 | 9 | 15 |
| rs6829967 | 4 | 131305919 | 2.01 | 0.13 | 1.55 | 2.61 | 1.49E-07 | 0.91 | Imp | C | 0.14 | rs7665833 | ENSG00000251326 | 0 | ncRNA  intronic | 1.84 | 6 | 9 | 15 |
| rs78326053 | 4 | 131327942 | 1.99 | 0.13 | 1.54 | 2.59 | 2.05E-07 | 0.93 | Imp | C | 0.14 | rs7665833 | ENSG00000251326 | 20416 | intergenic | 1.32 | 6 | 14 | 15 |
| rs75453127 | 4 | 131328565 | 1.99 | 0.13 | 1.54 | 2.59 | 2.05E-07 | 0.93 | Imp | T | 0.14 | rs7665833 | ENSG00000251326 | 21039 | intergenic | 7.56 | 6 | 14 | 15 |
| rs77920885 | 4 | 131334596 | 1.99 | 0.13 | 1.54 | 2.59 | 2.05E-07 | 0.93 | Imp | T | 0.14 | rs7665833 | ENSG00000251326 | 27070 | intergenic | 0.06 | 7 | 9 | 15 |
| rs77478074 | 4 | 131410225 | 1.98 | 0.13 | 1.53 | 2.57 | 2.52E-07 | 0.96 | Imp | A | 0.14 | rs7665833 | PGBD4P4 | 5603 | intergenic | 0.95 | 7 | 15 | 15 |
| rs78990592 | 4 | 131348054 | 1.98 | 0.13 | 1.53 | 2.57 | 2.65E-07 | 0.93 | Imp | T | 0.14 | rs7665833 | ENSG00000251326 | 40528 | intergenic | 2.28 | 5 | 15 | 15 |
| rs72926967 | 4 | 131394499 | 1.94 | 0.13 | 1.50 | 2.50 | 3.53E-07 | 0.96 | Imp | C | 0.15 | rs7665833 | PGBD4P4 | 21329 | intergenic | 0.36 | 7 | 14 | 15 |
| rs7735612 | 5 | 168509732 | 1.63 | 0.10 | 1.34 | 1.97 | 6.16E-07 | 0.86 | Imp | C | 0.40 | rs7735612 | SLIT3 | 0 | intronic | 1.02 | 7 | 5 | 15 |
| rs6850785 | 4 | 131309002 | 1.91 | 0.13 | 1.48 | 2.46 | 7.61E-07 | 0.93 | Imp | C | 0.15 | rs7665833 | ENSG00000251326 | 1476 | intergenic | 2.00 | 6 | 15 | 15 |
| rs11931985 | 4 | 131309152 | 1.91 | 0.13 | 1.48 | 2.46 | 7.61E-07 | 0.93 | Imp | C | 0.15 | rs7665833 | ENSG00000251326 | 1626 | intergenic | 0.24 | 7 | 15 | 15 |
| rs13134354 | 4 | 131421337 | 1.81 | 0.12 | 1.43 | 2.28 | 7.72E-07 | 0.97 | Imp | A | 0.18 | rs7665833 | GAPDHP56 | 3175 | intergenic | 3.27 | 6 | 9 | 15 |
| rs62309565 | 4 | 131303247 | 1.90 | 0.13 | 1.47 | 2.45 | 8.58E-07 | 0.93 | Imp | A | 0.15 | rs7665833 | ENSG00000251326 | 0 | ncRNA  intronic | 6.61 | 7 | 9 | 15 |
| rs34265768 | 4 | 131432146 | 1.78 | 0.12 | 1.41 | 2.24 | 1.18E-06 | 0.98 | Imp | A | 0.19 | rs4863995 | GAPDHP56 | 6647 | intergenic | 0.99 | 6 | 14 | 15 |
| rs13146727 | 4 | 131428476 | 1.77 | 0.12 | 1.41 | 2.23 | 1.22E-06 | 0.98 | Imp | G | 0.19 | rs4863995 | GAPDHP56 | 2977 | intergenic | 4.22 | 7 | 14 | 15 |
| rs2311861 | 4 | 131430633 | 1.77 | 0.12 | 1.40 | 2.23 | 1.48E-06 | 0.98 | Imp | G | 0.19 | rs4863995 | GAPDHP56 | 5134 | intergenic | 0.96 | 7 | 14 | 15 |
| rs2898168 | 21 | 31782602 | 0.60 | 0.11 | 0.49 | 0.74 | 1.75E-06 | 0.83 | Imp | T | 0.32 | rs2898168 | KRTAP13-1 | 13466 | intergenic | 0.78 | 7 | 9 | 15 |
| rs13049764 | 21 | 31783023 | 0.60 | 0.11 | 0.49 | 0.74 | 1.91E-06 | 0.83 | Imp | A | 0.32 | rs2898168 | KRTAP13-1 | 13887 | intergenic | 1.28 | 6 | 9 | 15 |
| rs9978257 | 21 | 31784776 | 0.60 | 0.11 | 0.49 | 0.74 | 1.98E-06 | 0.83 | Imp | T | 0.32 | rs2898168 | KRTAP13-3 | 12807 | intergenic | 5.09 | 6 | 9 | 15 |
| rs7672101 | 4 | 131422828 | 1.76 | 0.12 | 1.39 | 2.21 | 2.00E-06 | 0.98 | Imp | A | 0.19 | rs4863995 | GAPDHP56 | 1684 | intergenic | 7.14 | 6 | 14 | 15 |
| rs11933237 | 4 | 131444098 | 1.75 | 0.12 | 1.39 | 2.20 | 2.47E-06 | 0.96 | Imp | T | 0.19 | rs4863995 | GAPDHP56 | 18599 | intergenic | 0.82 | 7 | 9 | 15 |
| nsv831124 | 7 | 128138167 | 0.70 | 0.08 | 0.60 | 0.82 | 3.49E-06 | 1 | Geno | TATGAC | 0.46 | / | METTL2B | 0 | NA | NA | NA | NA | NA |
| rs4863995 | 4 | 131418082 | 1.67 | 0.11 | 1.35 | 2.08 | 3.54E-06 | 0.98 | Imp | T | 0.22 | rs4863995 | PGBD4P4 | 1642 | intergenic | 4.78 | 6 | 5 | 15 |
| rs6852702 | 4 | 131436787 | 2.07 | 0.16 | 1.52 | 2.81 | 3.60E-06 | 0.84 | Imp | A | 0.09 | rs6852702 | GAPDHP56 | 11288 | intergenic | 5.91 | 7 | 14 | 15 |
| rs12006913 | X | 23376571 | 2.13 | 0.16 | 1.54 | 2.93 | 4.16E-06 | 1.00 | Geno | A | 0.12 | rs12006913 | PTCHD1 | 0 | intronic | 0.24 | 6 | 5 | 15 |
| rs2832854 | 21 | 31775943 | 0.62 | 0.10 | 0.51 | 0.76 | 4.34E-06 | 0.84 | Imp | T | 0.33 | rs2898168 | KRTAP13-1 | 6807 | intergenic | 3.89 | 7 | 9 | 15 |
| nsv527355 | 21 | 47809179 | 1.44 | 0.08 | 1.23 | 1.68 | 4.66E-06 | 1.00 | Geno | A | 0.47 | / | PCNT | 0 | NA | 8.09 | NA | NA | NA |