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| **Supplementary Table S1.**  |
|  |  |  |  | **Previously published studies** |  | **Current study** |
| **Chr** | **Gene(s) or locus** | **SNPs analyzed** |  | **Sample size: cases-controls** | **Phenotype associated** | **MAF/RAF control** | **MAF/RAF affected** | **P value** | **OR** |  | **Phenotype associated** | **MAF/RAF control** | **MAF/RAF affected** | **P value** | **OR** | **Ref.** |
| 21q22 | *PSMG1* | rs2836878 |  | 647/4250317/4250 | CDUC | 0.27- | 0.220.19 | 0.000261.71x10-5 | 0.770.64 |  |  CDUC | 0.26 | 0.230.21 | ns4.1x10-3 | -0.77 | 10 |
| 21q22 | *PSMG1* | rs2836878 |  | 724/6158 | UC | - | - | 2.65x10-9 | - |  |  |  |  |  |  | 16 |
| 21q22 | *PSMG1* | rs2094871 |  | 2361/5417 | UC | - | - | 1.6x10-6 | **-** |  |  |  |  |  |  | 17 |
| 21q22 | *PSMG1* | rs2836878 |  | 2693/6791 | UC | - | - | 1.4x10-8 | - |  |  |  |  |  |  | 18 |
| 9q32 | *TNFSF15* | rs4263839 |  | 5555/6638 | CD | 0.67 | - | 2.60x10-10 | 1.22 |  | CD | 0.69 | 0.76 | 1x10-6 | 0.70 | 3 |
| 9q32 | *TNFSF15* | tnfsf15\_28 |  | 474/345 | CD | 0.42 | 0.61 | 1.71x10-14 | 2.17 |  |  |  |  |  |  | 20 |
| 9q32 | *TNFSF15* | rs7848647 |  | 756/636 | CD | 0.65 | 0.69 | 0.033 | 1.19 |  |  |  |  |  |  | 21 |
| 9q32 | *TNFSF15* | rs7848647 |  | 380/380 | CD | - | - | 4.12x10-18 | - |  |  |  |  |  |  | 23 |
| 9q32 | *TNFSF15* | rs6478108 |  | 1748/3000 | CD | - | - | 9.0x10-5 | - |  |  |  |  |  |  | 6 |
| 9q32 | *TNFSF15* | rs7869487 |  | 1850/1817 | CD | 0.30 | 0.28 | 0.010 | 0.87 |  |  |  |  |  |  | 7 |
| 10q24 | *NKX2-3* | rs11190140 |  | 5555/6638 | CD | 0.47 | - | 3.06x10-16 | 1.20 |  | CDUC | 0.49 | 0.440.42 | 3.5x10-36x10-5 | 1.021.31 | 3 |
| 10q24 | *NKX2-3* | rs10883365 |  | 1748/3000 | CD | 0.47 | 0.53 | 1.41x10-8 | 1.62 |  |  |  |  |  |  | 6 |
| 10q24 | *NKX2-3* | rs10883365 |  | 1182/2024 | CD | 0.52 | 0.48 | 0.00373 | 1.18 |  |  |  |  |  |  | 26 |
| 10q24 | *NKX2-3* | rs10883365 |  | 1850/18171103/1817 | CDUC | 0.530.53 | 0.460.49 | 2.44x10-74.03x10-5 | 1.311.21 |  |  |  |  |  |  | 7 |
| 10q24 | *NKX2-3* | rs10883365 |  | 1841/1470 | UC | 0.48 | 0.5 | 3.3x10-4 | 1.47 |  |  |  |  |  |  | 27 |
| 10q24 | *NKX2-3* | rs6584283 |  | 2361/5417 | UC |  |  | 1.7x10-7 | - |  |  |  |  |  |  | 17 |
| 10q24 | *NKX2-3* | rs11190140 |  | 4702/8371 | UC | - | - | 1.1x10-8 | - |  |  |  |  |  |  | 18 |
| 18p11 | *PTPN2* | rs2542151 |  | 1748/3000 | CD | 0.16 | 0.20 | 4.56x10-8 | 2.01 |  | CD | 0.13 | 0.16 | 0.020 | 1.26 | 6 |
| 18p11 | *PTPN2* | rs2542151 |  | 1182/2024 | CD | 0.19 | 0.17 | 0.0479 | 1.15 |  |  |  |  |  |  | 26 |
| 18p11 | *PTPN2* | rs2542151 |  | 1621/1086 | CD | 0.15 | 0.18 | 7.54x10-3 | 1.26 |  |  |  |  |  |  | 30 |
| 18p11 | *PTPN2* | rs2542151 |  | 5555/6638 | CD | 0.15 | - | 5.10x10-17 | 1.35 |  |  |  |  |  |  | 3 |
| 18p11 | *PTPN2* | rs2542151 |  | 1850/18171103/1817 | CDUC | 0.150.15 | 0.190.17 | 1.3x10-30.01 | 1.331.18 |  |  |  |  |  |  | 7 |
| 18p11 | *PTPN2* | rs2542151 |  | 2361/5417 | UC | - | - | 1x10-3 | - |  |  |  |  |  |  | 17 |
| 18p11 | *PTPN2* | rs1893217 |  | 1925/7654 | CD | - | - | 4.34x10-3 | - |  |  |  |  |  |  | 16 |
| 18p11 | *PTPN2* | rs1893217 |  | 796/784 | CD | 0.14 | 0.19 | 5x10-3 | - |  |  |  |  |  |  | 31 |
| 12q15 | *IFNG, IL22, IL26* | rs1558744 |  | 1052/2571 | UC | 0.38 | 0.48 | 5.5x10-10 | 1.47 |  | UC | 0.38 | 0.44 | 6x10-4 | 1.31 | 9 |
| 12q15 | *IFNG, IL22, IL26* | rs1558744 |  | 4702/8371 | UC |  |  | 4.2X10-12 | - |  |  |  |  |  |  | 18 |
| 6p21 | *HLA, BTNL2* | rs2395185 |  | 1052/2571 | UC | 0.33 | 0.24 | 1.4x10-6 | 0.72 |  | UC | 0.23 | 0.21 | 4.1x10-3 | 0.77 | 9 |
| 6p21 | *HLA, BTNL2* | rs2395185 |  | 2693/6791 | UC | - | - | 8.8x10-23 | - |  |  |  |  |  |  | 18 |
| 6p21 | *HLA, BTNL2* | rs9268877 |  | 2361/5417 | UC | - | - | 3.9x10-23 | - |  |  |  |  |  |  | 17 |
| 6p21 | *HLA, BTNL2* | rs660895 |  | 905/1465 | UC | 0.23 | 0.17 | 1.5x10-5 | - |  |  |  |  |  |  | 35 |
| 6p21 | *HLA, BTNL2* | rs9268877 |  | 1167/777 | UC | 0.44 | 0.53 | 5.23x10-7 | 1.51 |  |  |  |  |  |  | 36 |
| 6p21 | *HLA, BTNL2* | rs9263739 |  | 1384/3057 | UC | - | - | 4.15x10-67 | 2.73 |  |  |  |  |  |  | 37 |
| 6p21 | *HLA, BTNL2* | rs3763313 |  | 5555/6638 | CD | 0.18 | - | 5.20x10-9 | 1.19 |  |  |  |  |  |  | 3 |
| 6p21 | *HLA, BTNL2* | rs660895rs2395185 |  | 1925/7654844/7854 | CDUC |  |  | 1.05x10-27.40x10-19 | -- |  |  |  |  |  |  | 16 |
| 5p13 | *PTGER4* | rs4613763 |  | 5555/6638 | CD | 0.125 | - | 6.82x10-27 | 1.32 |  | CDUC | 0.08 | 0.110.11 | 0.0368.2x10-3 | 1.341.44 | 3 |
| 5p13 | *PTGER4* | rs1373692 |  | 1789/1481 | CD | 0.593 | 0.679 | 2.1x10-12 | - |  |  |  |  |  |  | 38 |
| 5p13 | *PTGER4* | rs4613763 |  | 4702/8371 | UC |  |  | 4.2x10-4 | - |  |  |  |  |  |  | 18 |
| 10q21 | *ZNF365* | rs10761659 |  | 1748/3000 | CD | 0.461 | 0.406 | 2.68x10-7 | 1.55 |  | CDUC | 0.52 | 0.460.45 | 1.6x10-34.2x10-4 | 1.281.35 | 6 |
| 10q21 | *ZNF365* | rs10995271 |  | 5555/6638 | CD | 0.387 |  | 4.46x10-20 | 1.25 |  |  |  |  |  |  | 3 |
| 10q21 | *ZNF365* | rs10995250 |  | 1925/7654844/7854 | CDUC |  |  | 1.77x1074.12x10-2 | -- |  |  |  |  |  |  | 16 |
| 10q21 | *ZNF365* | rs10995271 |  | 347/293 | CD | 0.35 | 0.43 | 1x10-3 | 1.39 |  |  |  |  |  |  | 31 |
| 10q21 | *ZNF365* | rs10995271 |  | 384/312 | CD |  |  | 7.41x10-7 | 1.65 |  |  |  |  |  |  | 40 |
| Chr., chromosome; CD, Crohn’s disease; UC, ulcerative colitis; MAF, minor allele frequency; RAF, risk allele frequency; OR, odds ratio |