# S3 Table. List of the SNP markers showing *p*-values less than 1.0x10-5 in patient cases compared to general-population controls in the GWA studies

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | dbSNPID | Chr. | Position | Nearest gene | Allele(A1/A2) | Genotype counts and frequency of A2 allele |  | Association |
| Name | Location | Case | Control |  | *p*-value | OR (95%CI) |
| All patient cases | rs780094 | 2 | 27741237 | *GCKR* | intron | C/T | 127/404/371(0.64) | 1475/3685/2511(0.57) |  | 2.1x10-8 | 1.35(1.21-1.49) |
| rs780092 | 2 | 27743154 | *GCKR* | intron | G/A | 62/303/537(0.76) | 676/3137/3858(0.71) |  | 3.4x10-7 | 1.35(1.21-1.53) |
| rs1919127 | 2 | 27801493 | *C2orf16* | exon | T/C | 127/402/373(0.64) | 1369/3745/2557(0.58) |  | 1.9x10-6 | 1.29(1.16-1.43) |
| rs1881396 | 2 | 27844601 | *ZNF512* | 3'UTR | G/T | 61/305/536(0.76) | 641/3141/3889(0.71) |  | 1.3x10-6 | 1.34(1.19-1.50) |
| rs8731 | 2 | 27873326 | *GPN1* | 3'UTR | G/C | 200/480/222(0.51) | 2249/3920/1502(0.45) |  | 1.6x10-6 | 1.29(1.16-1.43) |
| rs2668423 | 19 | 1370526 | *MUM1* | intron | G/T | 337/421/144(0.39) | 3408/3382/875(0.33) |  | 1.3x10-6 | 1.30(1.16-1.43) |
| rs738491 | 22 | 44354111 | *SAMM50* | intron | C/T | 127/406/369(0.63) | 1813/3786/2072(0.52) |  | 1.2x10-18 | 1.60(1.44-1.77) |
| rs2073082 | 22 | 44360007 | *SAMM50* | intron | A/G | 69/322/511(0.75) | 908/3505/3258(0.65) |  | 6.2x10-15 | 1.58(1.41-1.77) |
| rs3761472 | 22 | 44368122 | *SAMM50* | exon | A/G | 175/435/292(0.56) | 2534/3708/1429(0.43) |  | 7.9x10-24 | 1.69(1.52-1.87) |
| rs2143571 | 22 | 44391686 | *SAMM50* | intron | G/A | 176/433/293(0.56) | 2475/3729/1467(0.43) |  | 1.1x10-22 | 1.67(1.50-1.85) |
| NASH-HCC | rs2143571 | 22 | 44391686 | *SAMM50* | intron | G/A | 7/24/27(0.67) | 2472/3727/1466(0.43) |  | 8.9x10-7 | 2.7(1.82-4.00) |
| rs3761472 | 22 | 44368122 | *SAMM50* | exon | A/G | 8/24/26(0.66) | 2536/3703/1429(0.43) |  | 3.5x10-6 | 2.50(1.69-3.70) |