**Table S8.** Gene-based analysis results, when single SNPs p-values, contributing to the gene-based p-value were adjusted for the best genome-wide significant SNP in the nearby location.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene Name | Chr | Position | Combined gene-widep-value | Single SNP genome-wide significant hit | Single SNP genome-wide significant hit combined Stage1-Stage2 p-value | Gene-based p-value conditioning for the genome-wide significant hit  |
| *ZNF3* | 7 | 99,661,653-99,679,371 | 8.6x10-7 | rs1476679(100,004,446) | 5.6x10-10 | 0.347  |
| *NDUFS3*  | 11 | 47,600,632-47,606,114 | 4.8x10-7 | rs10838725(47,557,871) | 1.1x10-8 | 0.081  |
| *MTCH2* | 11 | 47,638,858-47,664,206 | 2.5x10-6 | rs10838725(47,557,871) | 1.1x10-8 | 0.203  |