

Supplementary Table 1. Benjamini–Hochberg FDR correction for the 18 reported nominal MR associations

Gene-cell type pair	Method	Number of SNPs	OR (95% CI)	Raw <i>P</i> value	BH-adjusted q value within 18 reported associations	Significant after BH-FDR within 18 associations
cd4sox4__CD4 SOX4 T cell__HLA-DRB5	Inverse variance weighted	2	0.717 (0.539-0.954)	0.0221	0.04983	Yes
dc__Dendritic Cell__AGER	Inverse variance weighted	2	0.749 (0.582-0.963)	0.0241	0.04983	Yes
bin__Naive/Immature B Cell__HLA-DQA2	Inverse variance weighted	6	1.109 (1.013-1.215)	0.0243	0.04983	Yes
nk__Natural Killer Cell__EIF2A	Inverse variance weighted	2	1.516 (1.055-2.180)	0.0252	0.04983	Yes
bin__Naive/Immature B Cell__WARS	Inverse variance weighted	2	0.826 (0.696-0.979)	0.0271	0.04983	Yes
nkr__Natural Killer Recruiting Cell__HLA-DQA2	Inverse variance weighted	3	1.225 (1.021-1.470)	0.0290	0.04983	Yes
cd4et__CD4 Effector memory/TEMRA__TMEM258	Inverse variance weighted	2	0.730 (0.551-0.968)	0.0291	0.04983	Yes
cd8s100b__CD8 S100B T cell__ZBTB9	Inverse variance weighted	3	0.773 (0.610-0.979)	0.0331	0.04983	Yes
cd4nc__CD4 Naive/Central memory T cell__MAST4	Inverse variance weighted	2	1.533 (1.034-2.273)	0.0332	0.04983	Yes
cd8et__CD8 Effector memory__FBXO2	Inverse variance weighted	2	1.796 (1.046-3.086)	0.0344	0.04983	Yes
cd8et__CD8 Effector memory__HLA-DQA1	Inverse variance weighted	4	1.162 (1.011-1.335)	0.0351	0.04983	Yes
cd8nc__CD8 Naive/Central memory T cell__PARP14	Inverse variance weighted	2	0.653 (0.436-0.979)	0.0393	0.04983	Yes
cd8et__CD8 Effector memory__SLC25A29	Inverse variance weighted	2	1.169 (1.006-1.358)	0.0410	0.04983	Yes
nk__Natural Killer Cell__SLC25A29	Inverse variance weighted	2	1.171 (1.006-1.364)	0.0422	0.04983	Yes
cd4nc__CD4 Naive/Central memory T cell__POLR1D	Inverse variance weighted	2	0.796 (0.635-0.999)	0.0491	0.04983	Yes
cd4nc__CD4 Naive/Central memory T cell__TNFSF13B	Inverse variance weighted	2	1.273 (1.001-1.619)	0.0493	0.04983	Yes
dc__Dendritic Cell__APOM	Inverse variance weighted	5	1.235 (1.000-1.525)	0.0496	0.04983	Yes
bin__Naive/Immature B Cell__EBPL	Inverse variance weighted	2	0.723 (0.523-1.000)	0.0497	0.04983	Yes