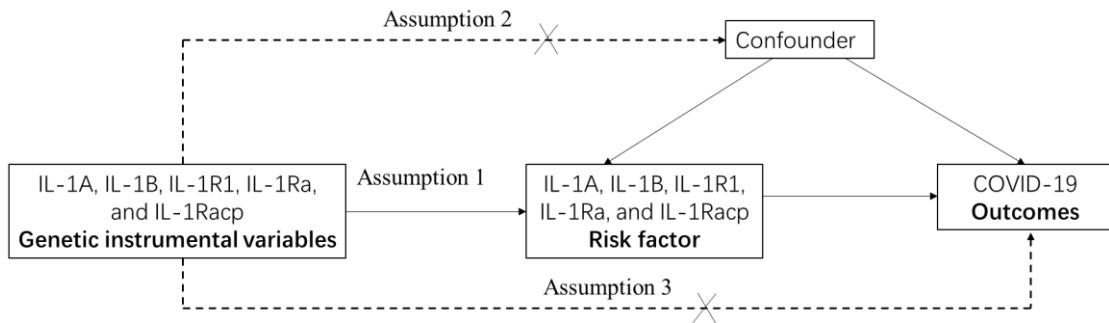


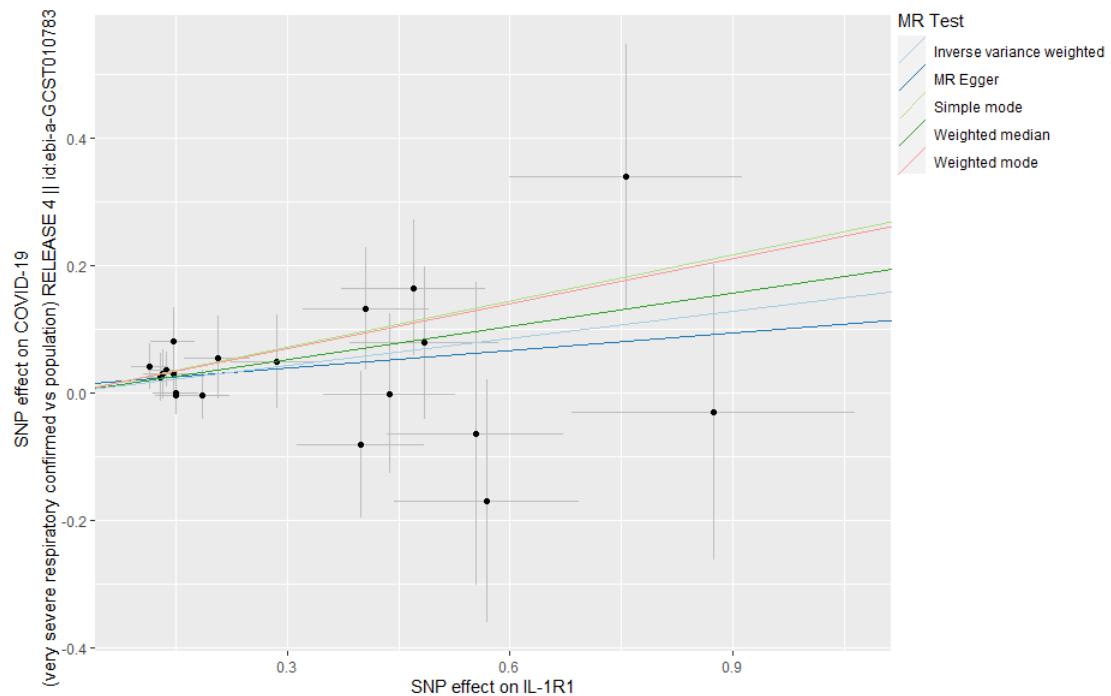
Supplementary figure 1.



Supplementary figure 1. The design flow chart for the Mendelian randomization (MR) study.

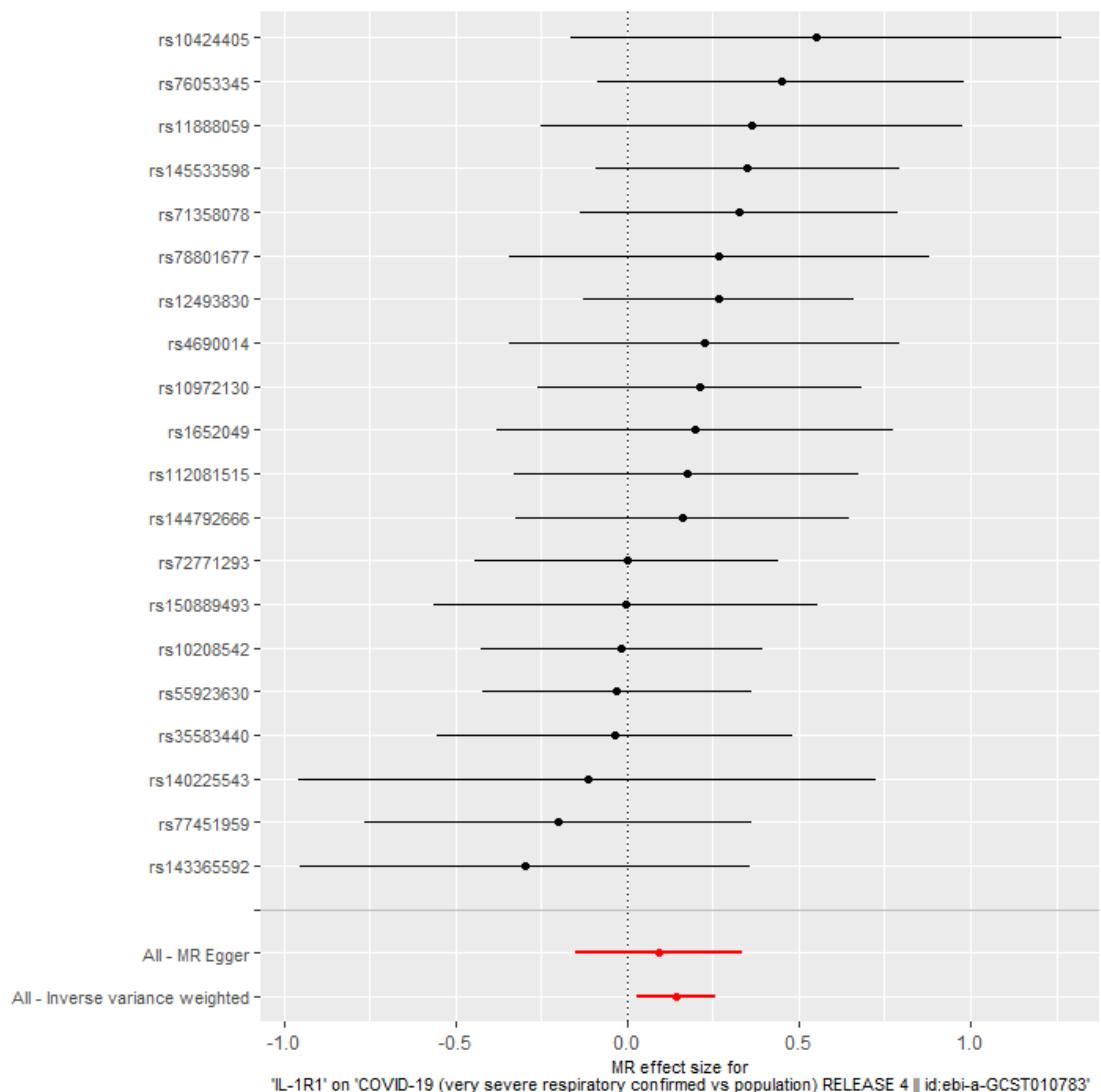
(MR) study. MR assumptions: assumption 1, 2 and 3. Solid line represents direct causal effects that IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp genetic instrumental variants are reliably associated with IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp levels, respectively and influence the risk of Corona Virus Disease 2019 (COVID-19) through the IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp, respectively, in assumption 1. Dotted line represents that IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp genetic instrumental variants are not associated with any measured and unmeasured confounders and do not influence the risk of COVID-19 through other pathways in assumption 2 and 3, respectively.

Supplementary figure 2.



Supplementary figure 2. Individual estimates about the causal effect of IL-1R1 on COVID-19. The x-axis shows the SNP (single nucleotide polymorphism) effect and SE (standard error) on each of IL-1R1. The y-axis shows the SNP effect and SE on COVID-19 by analyzing GWAS ID: ebi-a-GCST010783 (very severe respiratory confirmed vs population). The regression line for MR Egger, Weighted median, IVW, Simple mode, and Weighted mode is shown.

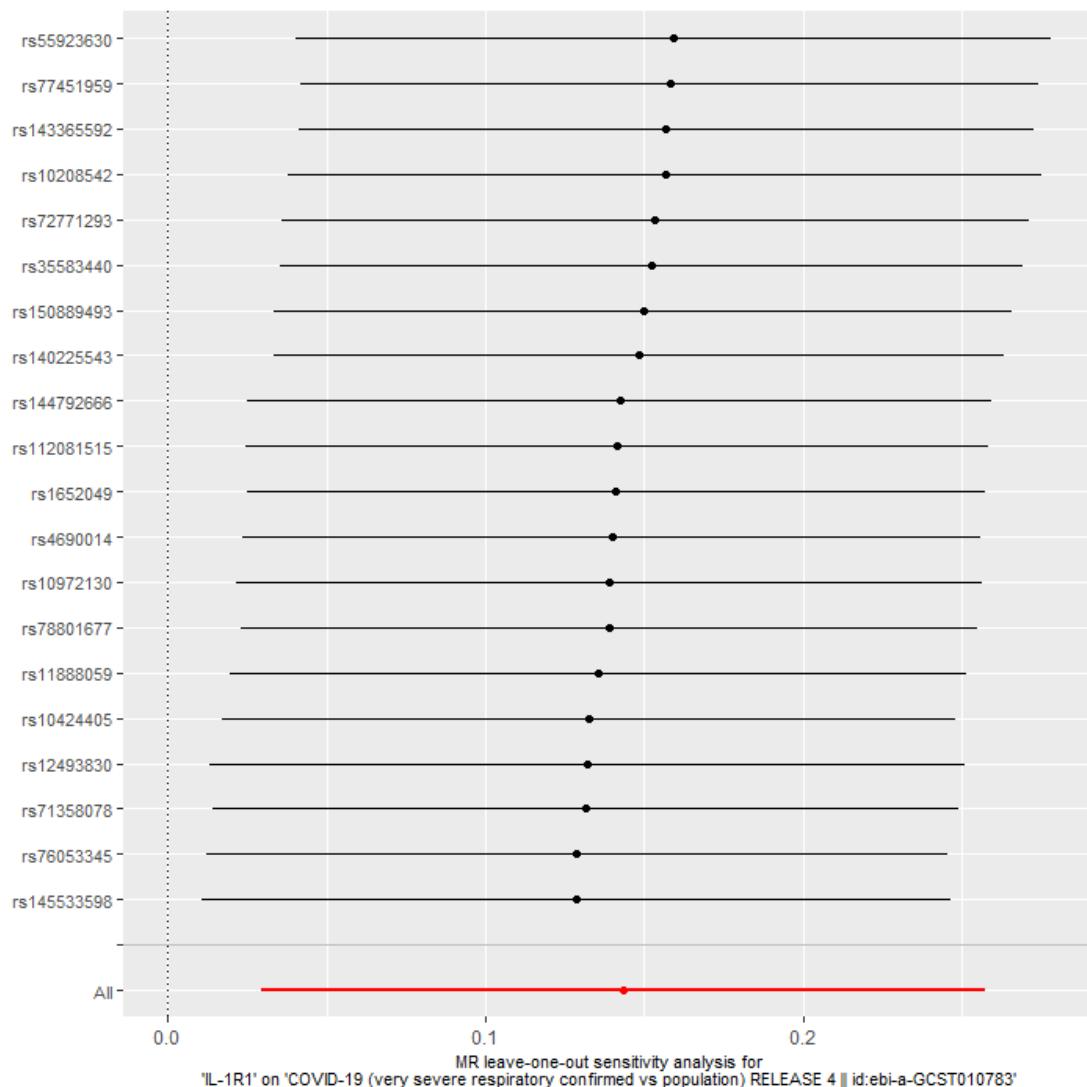
Supplementary figure 3.



Supplementary figure 3. Forest plot of IL-1R1 associated with risk of COVID-19.

The x-axis shows MR effect size for IL-1R1 on COVID-19 by analyzing GWAS ID: ebi-a-GCST010783 (very severe respiratory confirmed vs population). The y-axis shows the analysis for each of SNPs.

Supplementary figure 4.



Supplementary figure 4. MR leave-one-out sensitivity analysis for the effect of IL-1R1 SNPs on COVID-19. The x-axis shows MR leave-one-out sensitivity analysis for IL-1R1 on COVID-19 by analyzing GWAS ID: ebi-a-GCST010783 (very severe respiratory confirmed vs population). The y-axis shows the analysis for the effect of leave-one-out of SNPs on COVID-19.

Supplementary table 1. IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp genetic instrumental variants (IVs).

Exposure	SNP	Beta	SE	EA	NEA	EAF	p val	Gene
IL-1A	rs13170249	0.353	0.077	T	C	0.03	4.37E-06	PAM
IL-1A	rs78084692	0.874	0.182	G	A	0.01	1.51E-06	AC004540.5
IL-1A	rs7148359	-0.135	0.029	T	C	0.27	2.14E-06	AL445384.1
IL-1A	rs4867603	-0.131	0.027	C	T	0.55	1.05E-06	KCNIP1
IL-1A	rs10418046	0.153	0.030	G	T	0.22	3.09E-07	NLRP12
IL-1A	rs6549977	-0.120	0.026	A	G	0.38	3.89E-06	AC137674.2
IL-1A	rs8107140	0.115	0.025	A	C	0.59	3.63E-06	ZIM2
IL-1A	rs28895307	0.365	0.072	G	T	0.03	4.27E-07	OTUD7A
IL-1A	rs60010354	0.114	0.025	G	A	0.42	4.17E-06	DDX10
IL-1A	rs41386050	0.318	0.069	T	G	0.03	4.79E-06	LIPG
IL-1A	rs2734376	0.140	0.028	T	C	0.69	4.90E-07	FHIT
IL-1A	rs2749675	-0.172	0.037	G	A	0.87	4.37E-06	ZDHHC14
IL-1A	rs77869959	-0.240	0.052	A	C	0.06	4.47E-06	RP11-313L9.1
IL-1A	rs6033085	-0.180	0.039	T	A	0.89	4.90E-06	RP4-734C18.1
IL-1A	rs72647025	0.134	0.028	G	C	0.39	1.86E-06	VWA5B1
IL-1A	rs11922046	0.139	0.029	T	C	0.26	1.20E-06	RN5S142
IL-1A	rs139711468	-0.347	0.073	A	G	0.03	1.86E-06	RP11-405A12.2
IL-1A	rs4757027	-0.143	0.028	C	G	0.68	3.39E-07	NAV2
IL-1A	rs192996211	-0.469	0.103	A	G	0.02	4.90E-06	RP11-428L9.1
IL-1B	rs115242021	0.233	0.041	A	C	0.09	5.07E-07	U1
IL-1B	rs143319329	0.280	0.072	T	C	0.03	2.00E-06	METTL2B
IL-1B	rs61335305	0.297	0.072	A	C	0.01	1.90E-06	MEGF11
IL-1B	rs4786740	0.085	0.020	A	C	0.41	4.67E-06	RP11-420N3.2
IL-1B	rs62015704	0.108	0.028	A	G	0.88	2.09E-06	RBFOX1
IL-1B	rs9898641	0.203	0.045	C	T	0.1	3.59E-06	RP11-567L7.6
IL-1B	rs1942793	0.072	0.019	T	G	0.47	4.98E-06	CTD-2354A18.1
IL-1R1	rs1652049	0.128	0.027	G	T	0.46	1.62E-06	RNASE11
IL-1R1	rs71358078	-0.406	0.085	T	C	0.02	1.86E-06	RP11-172F10.1
IL-1R1	rs112081515	-0.286	0.062	G	A	0.04	3.55E-06	DYM
IL-1R1	rs10208542	-0.185	0.037	C	G	0.13	6.46E-07	IL1R1
IL-1R1	rs77451959	0.400	0.086	T	G	0.02	2.95E-06	MPPED2
IL-1R1	rs12493830	-0.138	0.025	C	T	0.45	6.17E-08	ST3GAL6-AS1
IL-1R1	rs76053345	-0.756	0.157	C	T	0.01	1.38E-06	EPB41L4B
IL-1R1	rs140225543	-0.553	0.119	A	G	0.01	3.47E-06	TMEM86B
IL-1R1	rs72771293	0.150	0.031	G	A	0.22	1.17E-06	HAPLN1
IL-1R1	rs78801677	0.206	0.044	A	G	0.09	3.31E-06	LRRTM3
IL-1R1	rs144792666	0.485	0.101	T	C	0.02	1.45E-06	YIPF7
IL-1R1	rs35583440	0.874	0.191	C	G	0.01	4.79E-06	RCN1
IL-1R1	rs11888059	0.115	0.025	G	A	0.5	3.02E-06	IL1R1
IL-1R1	rs145533598	0.470	0.097	A	G	0.02	1.12E-06	PPARG
IL-1R1	rs10424405	-0.146	0.030	G	A	0.22	1.32E-06	NLRP12
IL-1R1	rs55923630	-0.149	0.026	T	A	0.3	1.35E-08	IGSF11
IL-1R1	rs150889493	-0.438	0.089	C	T	0.02	7.94E-07	RP11-420N3.2
IL-1R1	rs4690014	0.133	0.026	A	G	0.39	2.69E-07	RGS12
IL-1R1	rs143365592	0.568	0.124	G	T	0.01	4.79E-06	KRTAP13-1
IL-1R1	rs10972130	0.147	0.031	A	G	0.2	2.29E-06	DNAI1
IL-1Ra	rs12121840	0.269	0.057	T	C	0.08	2.43E-06	RP11-280O1.2
IL-1Ra	rs56134659	0.112	0.024	G	A	0.4	2.44E-06	H1FX-AS1
IL-1Ra	rs1054402	0.131	0.027	T	C	0.26	1.13E-06	PAPPA
IL-1Ra	rs2809154	0.179	0.039	C	T	0.82	3.74E-06	SLTRK1
IL-1Ra	rs11627423	0.117	0.025	A	C	0.61	2.12E-06	AKAP6
IL-1Ra	rs61335305	0.445	0.091	A	C	0.01	1.00E-06	MEGF11
IL-1Ra	rs11869294	0.227	0.047	G	C	0.03	1.50E-06	CRHR1
IL-1Ra	rs147747784	0.365	0.076	C	G	0.02	1.46E-06	LILRB1

IL-1Ra	rs187166731	0.233	0.051	C	T	0.98	4.70E-06	Z83851.3
IL-1Ra	rs9623661	0.197	0.043	C	T	0.91	3.86E-06	A4GALT
IL-1Racp	rs1988743	0.135	0.028	C	G	0.72	1.51E-06	IL1RAP
IL-1Racp	rs2885370	-0.209	0.031	T	G	0.74	8.91E-12	IL1RAP
IL-1Racp	rs41268633	-0.251	0.050	G	A	0.09	6.03E-07	IL1RAP
IL-1Racp	rs113553332	0.685	0.056	T	C	0.05	4.68E-34	GMNC
IL-1Racp	rs148996090	1.111	0.137	A	C	0.01	3.98E-16	IL1RAP
IL-1Racp	rs67249092	-0.379	0.035	G	A	0.15	5.25E-28	IL1RAP
IL-1Racp	rs6444435	-0.171	0.026	G	A	0.35	5.37E-11	IL1RAP
IL-1Racp	rs1024949	-0.448	0.040	C	T	0.13	2.95E-29	IL1RAP
IL-1Racp	rs3935774	0.741	0.112	T	C	0.02	3.55E-11	IL1RAP
IL-1Racp	rs13084868	0.178	0.039	C	T	0.12	4.27E-06	GMNC
IL-1Racp	rs1607264	-0.146	0.031	C	A	0.8	2.82E-06	ZNF385B
IL-1Racp	rs62196769	-0.205	0.044	C	A	0.09	3.09E-06	AC010983.1
IL-1Racp	rs4815878	0.155	0.030	A	G	0.76	1.95E-07	SRXN1
IL-1Racp	rs6461953	-0.146	0.032	C	T	0.18	4.68E-06	AC073316.1
IL-1Racp	rs4687154	-0.581	0.040	C	G	0.89	7.94E-49	IL1RAP
IL-1Racp	rs6796131	-0.244	0.026	C	G	0.33	1.51E-20	IL1RAP
IL-1Racp	rs4624606	-0.925	0.025	T	A	0.75	1.00E-200	IL1RAP
IL-1Racp	rs6444430	0.154	0.033	A	G	0.79	2.29E-06	IL1RAP
IL-1Racp	rs16969649	-0.140	0.031	T	C	0.21	4.90E-06	MIR4318
IL-1Racp	rs7623802	-0.129	0.027	T	C	0.66	1.41E-06	RP11-6B4.1
IL-1Racp	rs62116908	-0.294	0.064	C	T	0.04	3.72E-06	AC022311.1
IL-1Racp	rs61492644	-0.124	0.025	A	G	0.52	7.41E-07	GFOD1
IL-1Racp	rs6801017	-0.202	0.031	G	A	0.21	3.80E-11	IL1RAP
IL-1Racp	rs78129851	0.793	0.117	A	G	0.01	1.07E-11	IL1RAP
IL-1Racp	rs5753690	0.149	0.029	T	C	0.23	2.95E-07	SF11
IL-1Racp	rs13059920	0.420	0.038	G	A	0.13	9.33E-29	IL1RAP
IL-1Racp	rs73754360	0.384	0.080	G	T	0.03	1.78E-06	RP11-127B16.1
IL-1Racp	rs75857200	0.199	0.042	A	C	0.1	2.34E-06	CTD-2591A6.2

SNP: single-nucleotide polymorphism. EA: effect allele. NEA: non-effect allele. EAF: effect allele frequency. Beta: the regression coefficient based on the IL-1A, IL-1B, IL-1R1, IL-1Ra, or IL-1Racp raising effect allele. SE: standard error.

Supplementary table 2. Association of IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp genetic IVs in COVID-19 GWAS dataset.

Exposure GWAS ID	SNP	Exposure GWAS			Outcome (COVID-19) GWAS		
		Beta	SE	p val	Beta	SE	p val
ebi-a-GCST010775	rs10418046	0.153	0.030	3.09E-07	-0.114	0.244	0.639
	rs11922046	0.139	0.029	1.20E-06	0.114	0.170	0.503
	rs13170249	0.353	0.077	4.37E-06	-0.043	0.480	0.928
	rs139711468	-0.347	0.073	1.86E-06	-0.790	0.865	0.362
	rs192996211	-0.469	0.103	4.90E-06	-0.414	0.702	0.556
	rs2734376	0.140	0.028	4.90E-07	0.006	0.163	0.970
	rs2749675	-0.172	0.037	4.37E-06	-0.614	0.333	0.065
	rs28895307	0.365	0.072	4.27E-07	0.167	0.405	0.679
	rs41386050	0.318	0.069	4.79E-06	-0.475	0.445	0.286
	rs4757027	-0.143	0.028	3.39E-07	-0.049	0.157	0.756
	rs4867603	-0.131	0.027	1.05E-06	0.125	0.148	0.398
	rs60010354	0.114	0.025	4.17E-06	-0.191	0.148	0.197
	rs6033085	-0.180	0.039	4.90E-06	0.223	0.214	0.298
	rs6549977	-0.120	0.026	3.89E-06	0.019	0.149	0.897
ebi-a-GCST010776	rs7148359	-0.135	0.029	2.14E-06	-0.097	0.203	0.633
	rs72647025	0.134	0.028	1.86E-06	0.036	0.160	0.820
	rs77869959	-0.240	0.052	4.47E-06	1.317	0.392	0.001
	rs8107140	0.115	0.025	3.63E-06	-0.294	0.154	0.056
	rs10418046	0.153	0.030	3.09E-07	0.035	0.022	0.110
	rs11922046	0.139	0.029	1.20E-06	-0.053	0.018	0.003
	rs13170249	0.353	0.077	4.37E-06	-0.061	0.044	0.170
	rs139711468	-0.347	0.073	1.86E-06	0.012	0.046	0.802
	rs192996211	-0.469	0.103	4.90E-06	0.001	0.075	0.985
	rs2734376	0.140	0.028	4.90E-07	0.016	0.017	0.329
	rs2749675	-0.172	0.037	4.37E-06	-0.020	0.031	0.510
	rs28895307	0.365	0.072	4.27E-07	-0.035	0.049	0.473
	rs41386050	0.318	0.069	4.79E-06	-0.010	0.040	0.795
	rs4757027	-0.143	0.028	3.39E-07	-0.013	0.018	0.462
	rs4867603	-0.131	0.027	1.05E-06	-0.011	0.017	0.536
	rs60010354	0.114	0.025	4.17E-06	0.010	0.015	0.494
	rs6033085	-0.180	0.039	4.90E-06	0.066	0.024	0.006
ebi-a-GCST010777	rs6549977	-0.120	0.026	3.89E-06	-0.022	0.017	0.204
	rs7148359	-0.135	0.029	2.14E-06	-0.035	0.021	0.093
	rs72647025	0.134	0.028	1.86E-06	0.012	0.018	0.493
	rs77869959	-0.240	0.052	4.47E-06	-0.023	0.037	0.530
	rs78084692	0.874	0.182	1.51E-06	-0.052	0.138	0.704
	rs8107140	0.115	0.025	3.63E-06	0.002	0.016	0.920
	rs10418046	0.153	0.030	3.09E-07	0.018	0.020	0.349
	rs11922046	0.139	0.029	1.20E-06	-0.044	0.019	0.022
	rs13170249	0.353	0.077	4.37E-06	-0.095	0.049	0.053
	rs139711468	-0.347	0.073	1.86E-06	0.053	0.052	0.310
	rs192996211	-0.469	0.103	4.90E-06	0.053	0.086	0.539
	rs2734376	0.140	0.028	4.90E-07	0.028	0.018	0.124
	rs2749675	-0.172	0.037	4.37E-06	-0.007	0.032	0.826
	rs28895307	0.365	0.072	4.27E-07	-0.069	0.059	0.243
	rs41386050	0.318	0.069	4.79E-06	0.013	0.047	0.786
	rs4757027	-0.143	0.028	3.39E-07	-0.014	0.018	0.452
	rs4867603	-0.131	0.027	1.05E-06	-0.023	0.019	0.222
	rs60010354	0.114	0.025	4.17E-06	0.018	0.016	0.265
	rs6033085	-0.180	0.039	4.90E-06	0.043	0.024	0.072
	rs6549977	-0.120	0.026	3.89E-06	0.007	0.019	0.724

		rs7148359	-0.135	0.029	2.14E-06	-0.017	0.023	0.476
		rs72647025	0.134	0.028	1.86E-06	0.016	0.020	0.421
		rs77869959	-0.240	0.052	4.47E-06	0.012	0.040	0.758
		rs78084692	0.874	0.182	1.51E-06	-0.032	0.197	0.873
		rs8107140	0.115	0.025	3.63E-06	0.014	0.016	0.388
		rs10418046	0.153	0.030	3.09E-07	0.018	0.020	0.349
		rs11922046	0.139	0.029	1.20E-06	-0.044	0.019	0.022
		rs13170249	0.353	0.077	4.37E-06	-0.095	0.049	0.053
		rs139711468	-0.347	0.073	1.86E-06	0.053	0.052	0.310
		rs192996211	-0.469	0.103	4.90E-06	0.053	0.086	0.539
		rs2734376	0.140	0.028	4.90E-07	0.028	0.018	0.124
		rs2749675	-0.172	0.037	4.37E-06	-0.007	0.032	0.826
		rs28895307	0.365	0.072	4.27E-07	-0.069	0.059	0.243
		rs41386050	0.318	0.069	4.79E-06	0.013	0.047	0.786
ebi-a-GCST010778	rs4757027	rs7148359	-0.135	0.029	2.14E-06	-0.017	0.023	0.476
		rs72647025	0.134	0.028	1.86E-06	0.016	0.020	0.421
		rs77869959	-0.240	0.052	4.47E-06	0.012	0.040	0.758
		rs78084692	0.874	0.182	1.51E-06	-0.032	0.197	0.873
		rs8107140	0.115	0.025	3.63E-06	0.014	0.016	0.388
		rs10418046	0.153	0.030	3.09E-07	0.040	0.031	0.202
		rs11922046	0.139	0.029	1.20E-06	-0.078	0.029	0.007
		rs13170249	0.353	0.077	4.37E-06	-0.007	0.064	0.913
		rs139711468	-0.347	0.073	1.86E-06	0.008	0.076	0.917
		rs192996211	-0.469	0.103	4.90E-06	0.088	0.112	0.432
		rs2734376	0.140	0.028	4.90E-07	0.018	0.023	0.430
		rs2749675	-0.172	0.037	4.37E-06	-0.010	0.039	0.798
IL-1A	ebi-a-GCST010779	rs28895307	0.365	0.072	4.27E-07	0.065	0.074	0.380
		rs41386050	0.318	0.069	4.79E-06	-0.129	0.066	0.050
		rs7148359	-0.135	0.029	2.14E-06	-0.033	0.030	0.270
		rs72647025	0.134	0.028	1.86E-06	-0.021	0.029	0.479
		rs77869959	-0.240	0.052	4.47E-06	0.036	0.059	0.550
		rs78084692	0.874	0.182	1.51E-06	-0.046	0.174	0.793
		rs8107140	0.115	0.025	3.63E-06	-0.015	0.024	0.518
		rs10418046	0.153	0.030	3.09E-07	0.026	0.018	0.139
		rs11922046	0.139	0.029	1.20E-06	-0.055	0.016	0.001
		rs13170249	0.353	0.077	4.37E-06	-0.024	0.040	0.545
ebi-a-GCST010780	rs4757027	rs139711468	-0.347	0.073	1.86E-06	0.025	0.045	0.585
		rs192996211	-0.469	0.103	4.90E-06	0.012	0.065	0.859
		rs2734376	0.140	0.028	4.90E-07	0.023	0.014	0.104
		rs2749675	-0.172	0.037	4.37E-06	-0.012	0.026	0.638
		rs28895307	0.365	0.072	4.27E-07	-0.020	0.048	0.671
		rs41386050	0.318	0.069	4.79E-06	-0.012	0.039	0.754
		rs7148359	-0.143	0.028	3.39E-07	-0.012	0.015	0.439
		rs4867603	-0.131	0.027	1.05E-06	-0.026	0.016	0.091
		rs60010354	0.114	0.025	4.17E-06	0.012	0.013	0.354
		rs6033085	-0.180	0.039	4.90E-06	0.054	0.021	0.009
		rs6549977	-0.120	0.026	3.89E-06	-0.014	0.015	0.375

	rs72647025	0.134	0.028	1.86E-06	-0.001	0.017	0.940
	rs77869959	-0.240	0.052	4.47E-06	-0.019	0.033	0.572
	rs78084692	0.874	0.182	1.51E-06	0.046	0.127	0.714
	rs8107140	0.115	0.025	3.63E-06	0.002	0.013	0.886
ebi-a-GCST010781	rs10418046	0.153	0.030	3.09E-07	-0.001	0.039	0.979
	rs11922046	0.139	0.029	1.20E-06	-0.017	0.031	0.586
	rs13170249	0.353	0.077	4.37E-06	0.080	0.080	0.321
	rs139711468	-0.347	0.073	1.86E-06	0.090	0.087	0.301
	rs192996211	-0.469	0.103	4.90E-06	-0.138	0.156	0.375
	rs2734376	0.140	0.028	4.90E-07	0.027	0.030	0.358
	rs2749675	-0.172	0.037	4.37E-06	0.075	0.044	0.088
	rs28895307	0.365	0.072	4.27E-07	0.039	0.088	0.656
	rs41386050	0.318	0.069	4.79E-06	-0.068	0.071	0.343
	rs4757027	-0.143	0.028	3.39E-07	0.033	0.033	0.321
	rs4867603	-0.131	0.027	1.05E-06	-0.043	0.030	0.151
	rs60010354	0.114	0.025	4.17E-06	-0.034	0.030	0.265
	rs6033085	-0.180	0.039	4.90E-06	-0.006	0.044	0.891
ebi-a-GCST010782	rs6549977	-0.120	0.026	3.89E-06	-0.016	0.028	0.574
	rs7148359	-0.135	0.029	2.14E-06	0.012	0.031	0.687
	rs72647025	0.134	0.028	1.86E-06	0.026	0.029	0.361
	rs77869959	-0.240	0.052	4.47E-06	0.012	0.069	0.857
	rs78084692	0.874	0.182	1.51E-06	-0.350	0.258	0.175
	rs8107140	0.115	0.025	3.63E-06	0.001	0.027	0.971
	rs10418046	0.153	0.030	3.09E-07	0.037	0.049	0.449
	rs11922046	0.139	0.029	1.20E-06	-0.030	0.050	0.546
	rs13170249	0.353	0.077	4.37E-06	-0.139	0.133	0.298
	rs139711468	-0.347	0.073	1.86E-06	0.166	0.142	0.243
	rs192996211	-0.469	0.103	4.90E-06	0.186	0.221	0.400
	rs2734376	0.140	0.028	4.90E-07	-0.015	0.047	0.757
	rs2749675	-0.172	0.037	4.37E-06	0.131	0.077	0.091
	rs28895307	0.365	0.072	4.27E-07	-0.191	0.159	0.232
ebi-a-GCST010783	rs41386050	0.318	0.069	4.79E-06	-0.345	0.138	0.012
	rs4757027	-0.143	0.028	3.39E-07	0.032	0.047	0.493
	rs4867603	-0.131	0.027	1.05E-06	-0.011	0.052	0.838
	rs60010354	0.114	0.025	4.17E-06	0.062	0.052	0.236
	rs6033085	-0.180	0.039	4.90E-06	-0.036	0.060	0.553
	rs6549977	-0.120	0.026	3.89E-06	-0.039	0.054	0.464
	rs7148359	-0.135	0.029	2.14E-06	-0.036	0.062	0.563
	rs72647025	0.134	0.028	1.86E-06	0.006	0.056	0.914
	rs77869959	-0.240	0.052	4.47E-06	0.152	0.102	0.136
	rs78084692	0.874	0.182	1.51E-06	0.160	0.551	0.772
	rs8107140	0.115	0.025	3.63E-06	-0.051	0.041	0.212
	rs10418046	0.153	0.030	3.09E-07	-0.078	0.053	0.139
	rs11922046	0.139	0.029	1.20E-06	-0.091	0.043	0.036
	rs13170249	0.353	0.077	4.37E-06	0.117	0.083	0.162
	rs139711468	-0.347	0.073	1.86E-06	0.052	0.095	0.584
ebi-a-GCST010783	rs192996211	-0.469	0.103	4.90E-06	0.272	0.150	0.070
	rs2734376	0.140	0.028	4.90E-07	-0.001	0.030	0.981
	rs2749675	-0.172	0.037	4.37E-06	-0.039	0.056	0.481
	rs28895307	0.365	0.072	4.27E-07	-0.013	0.091	0.889
	rs41386050	0.318	0.069	4.79E-06	-0.185	0.083	0.025
	rs4757027	-0.143	0.028	3.39E-07	-0.037	0.041	0.374
	rs4867603	-0.131	0.027	1.05E-06	-0.011	0.039	0.787
	rs60010354	0.114	0.025	4.17E-06	0.017	0.028	0.543
	rs6033085	-0.180	0.039	4.90E-06	0.056	0.060	0.349
	rs6549977	-0.120	0.026	3.89E-06	-0.060	0.038	0.117
	rs7148359	-0.135	0.029	2.14E-06	0.014	0.040	0.737
	rs72647025	0.134	0.028	1.86E-06	-0.001	0.041	0.989

		rs77869959	-0.240	0.052	4.47E-06	-0.028	0.089	0.754
		rs78084692	0.874	0.182	1.51E-06	0.095	0.213	0.657
		rs8107140	0.115	0.025	3.63E-06	0.018	0.037	0.629
ebi-a-GCST010775		rs143319329	0.280	0.072	2.00E-06	-1.066	0.437	0.015
		rs1942793	0.072	0.019	4.98E-06	-0.190	0.158	0.230
		rs4786740	0.085	0.020	4.67E-06	0.007	0.160	0.964
		rs61335305	0.297	0.072	1.90E-06	-0.369	0.451	0.413
		rs62015704	0.108	0.028	2.09E-06	-0.264	0.232	0.255
ebi-a-GCST010776		rs9898641	0.203	0.045	3.59E-06	0.032	0.237	0.891
		rs143319329	0.280	0.072	2.00E-06	0.002	0.048	0.960
		rs1942793	0.072	0.019	4.98E-06	-0.013	0.014	0.382
		rs4786740	0.085	0.020	4.67E-06	-0.005	0.016	0.767
		rs61335305	0.297	0.072	1.90E-06	0.059	0.060	0.332
ebi-a-GCST010777		rs62015704	0.108	0.028	2.09E-06	-0.004	0.022	0.863
		rs9898641	0.203	0.045	3.59E-06	-0.023	0.021	0.271
		rs143319329	0.280	0.072	2.00E-06	0.055	0.048	0.252
		rs1942793	0.072	0.019	4.98E-06	0.009	0.015	0.555
		rs4786740	0.085	0.020	4.67E-06	0.011	0.017	0.537
ebi-a-GCST010778		rs61335305	0.297	0.072	1.90E-06	0.028	0.042	0.504
		rs62015704	0.108	0.028	2.09E-06	-0.025	0.024	0.304
		rs9898641	0.203	0.045	3.59E-06	0.012	0.022	0.595
		rs143319329	0.280	0.072	2.00E-06	0.055	0.048	0.252
		rs1942793	0.072	0.019	4.98E-06	0.009	0.015	0.555
IL-1B	ebi-a-GCST010779	rs4786740	0.085	0.020	4.67E-06	0.011	0.017	0.537
		rs61335305	0.297	0.072	1.90E-06	0.028	0.042	0.504
		rs62015704	0.108	0.028	2.09E-06	-0.025	0.024	0.304
		rs9898641	0.203	0.045	3.59E-06	0.012	0.022	0.595
		rs143319329	0.280	0.072	2.00E-06	0.087	0.065	0.180
ebi-a-GCST010780		rs1942793	0.072	0.019	4.98E-06	-0.039	0.021	0.062
		rs4786740	0.085	0.020	4.67E-06	-0.018	0.026	0.493
		rs61335305	0.297	0.072	1.90E-06	0.074	0.067	0.268
		rs62015704	0.108	0.028	2.09E-06	0.045	0.032	0.158
		rs9898641	0.203	0.045	3.59E-06	0.024	0.037	0.521
ebi-a-GCST010781		rs143319329	0.280	0.072	2.00E-06	0.039	0.038	0.305
		rs1942793	0.072	0.019	4.98E-06	-0.019	0.013	0.134
		rs4786740	0.085	0.020	4.67E-06	0.001	0.015	0.941
		rs61335305	0.297	0.072	1.90E-06	0.017	0.038	0.653
		rs62015704	0.108	0.028	2.09E-06	0.010	0.019	0.608
ebi-a-GCST010782		rs9898641	0.203	0.045	3.59E-06	0.003	0.020	0.894
		rs143319329	0.280	0.072	2.00E-06	0.036	0.093	0.698
		rs1942793	0.072	0.019	4.98E-06	-0.022	0.026	0.407
		rs4786740	0.085	0.020	4.67E-06	-0.021	0.031	0.495
		rs61335305	0.297	0.072	1.90E-06	0.124	0.170	0.466
ebi-a-GCST010783		rs62015704	0.108	0.028	2.09E-06	0.010	0.044	0.816
		rs9898641	0.203	0.045	3.59E-06	-0.049	0.028	0.087
		rs143319329	0.280	0.072	2.00E-06	-0.099	0.116	0.391
		rs1942793	0.072	0.019	4.98E-06	-0.015	0.040	0.707
		rs4786740	0.085	0.020	4.67E-06	-0.094	0.044	0.033
ebi-a-GCST010783		rs61335305	0.297	0.072	1.90E-06	-0.037	0.101	0.715
		rs62015704	0.108	0.028	2.09E-06	0.009	0.062	0.888
		rs9898641	0.203	0.045	3.59E-06	0.047	0.050	0.343
		rs143319329	0.280	0.072	2.00E-06	0.028	0.101	0.784
		rs1942793	0.072	0.019	4.98E-06	-0.032	0.027	0.243
ebi-a-GCST010783		rs4786740	0.085	0.020	4.67E-06	-0.012	0.040	0.756
		rs61335305	0.297	0.072	1.90E-06	0.114	0.114	0.319
		rs62015704	0.108	0.028	2.09E-06	0.054	0.042	0.202
		rs9898641	0.203	0.045	3.59E-06	-0.036	0.038	0.343
		rs10208542	-0.185	0.037	6.46E-07	-0.095	0.229	0.678

ebi-a-GCST010775	rs10424405	-0.146	0.030	1.32E-06	-0.135	0.236	0.567
	rs10972130	0.147	0.031	2.29E-06	-0.085	0.180	0.638
	rs112081515	-0.286	0.062	3.55E-06	-0.371	0.366	0.311
	rs11888059	0.115	0.025	3.02E-06	-0.115	0.152	0.450
	rs12493830	-0.138	0.025	6.17E-08	0.166	0.162	0.305
	rs140225543	-0.553	0.119	3.47E-06	0.942	1.019	0.355
	rs144792666	0.485	0.101	1.45E-06	-0.443	0.817	0.588
	rs145533598	0.470	0.097	1.12E-06	0.172	0.614	0.780
	rs150889493	-0.438	0.089	7.94E-07	0.437	0.448	0.329
	rs1652049	0.128	0.027	1.62E-06	0.140	0.152	0.357
	rs35583440	0.874	0.191	4.79E-06	-0.337	0.945	0.721
	rs4690014	0.133	0.026	2.69E-07	0.167	0.158	0.289
	rs55923630	-0.149	0.026	1.35E-08	-0.017	0.171	0.922
	rs71358078	-0.406	0.085	1.86E-06	0.001	0.746	0.999
	rs72771293	0.150	0.031	1.17E-06	0.046	0.172	0.787
	rs77451959	0.400	0.086	2.95E-06	0.546	0.502	0.277
	rs78801677	0.206	0.044	3.31E-06	0.023	0.302	0.940
ebi-a-GCST010776	rs10208542	-0.185	0.037	6.46E-07	-0.003	0.022	0.899
	rs10424405	-0.146	0.030	1.32E-06	0.025	0.022	0.263
	rs10972130	0.147	0.031	2.29E-06	0.027	0.018	0.135
	rs112081515	-0.286	0.062	3.55E-06	0.054	0.036	0.132
	rs11888059	0.115	0.025	3.02E-06	0.005	0.015	0.766
	rs12493830	-0.138	0.025	6.17E-08	-0.013	0.014	0.371
	rs140225543	-0.553	0.119	3.47E-06	0.009	0.089	0.918
	rs143365592	0.568	0.124	4.79E-06	-0.150	0.087	0.086
	rs144792666	0.485	0.101	1.45E-06	-0.010	0.064	0.879
	rs145533598	0.470	0.097	1.12E-06	-0.013	0.059	0.819
	rs150889493	-0.438	0.089	7.94E-07	0.090	0.053	0.093
	rs1652049	0.128	0.027	1.62E-06	-0.003	0.016	0.830
	rs35583440	0.874	0.191	4.79E-06	-0.121	0.108	0.263
	rs4690014	0.133	0.026	2.69E-07	0.011	0.016	0.490
	rs55923630	-0.149	0.026	1.35E-08	0.013	0.016	0.406
	rs71358078	-0.406	0.085	1.86E-06	-0.006	0.053	0.908
	rs72771293	0.150	0.031	1.17E-06	-0.014	0.018	0.415
	rs76053345	-0.756	0.157	1.38E-06	-0.078	0.112	0.489
	rs77451959	0.400	0.086	2.95E-06	-0.071	0.052	0.174
	rs78801677	0.206	0.044	3.31E-06	-0.010	0.030	0.751
ebi-a-GCST010777	rs10208542	-0.185	0.037	6.46E-07	-0.001	0.021	0.954
	rs10424405	-0.146	0.030	1.32E-06	0.017	0.020	0.399
	rs10972130	0.147	0.031	2.29E-06	0.029	0.020	0.152
	rs112081515	-0.286	0.062	3.55E-06	0.034	0.042	0.419
	rs11888059	0.115	0.025	3.02E-06	-0.002	0.016	0.884
	rs12493830	-0.138	0.025	6.17E-08	0.002	0.016	0.922
	rs140225543	-0.553	0.119	3.47E-06	-0.019	0.097	0.848
	rs143365592	0.568	0.124	4.79E-06	-0.096	0.092	0.298
	rs144792666	0.485	0.101	1.45E-06	0.019	0.076	0.805
	rs145533598	0.470	0.097	1.12E-06	-0.092	0.072	0.201
	rs150889493	-0.438	0.089	7.94E-07	0.054	0.059	0.359
	rs1652049	0.128	0.027	1.62E-06	-0.005	0.016	0.759
	rs35583440	0.874	0.191	4.79E-06	-0.187	0.124	0.133
	rs4690014	0.133	0.026	2.69E-07	0.018	0.017	0.285
	rs55923630	-0.149	0.026	1.35E-08	0.023	0.018	0.190
	rs71358078	-0.406	0.085	1.86E-06	-0.018	0.061	0.774
	rs72771293	0.150	0.031	1.17E-06	-0.007	0.020	0.748
	rs76053345	-0.756	0.157	1.38E-06	-0.133	0.116	0.252
	rs77451959	0.400	0.086	2.95E-06	-0.095	0.058	0.101
	rs78801677	0.206	0.044	3.31E-06	-0.031	0.033	0.349
	rs10208542	-0.185	0.037	6.46E-07	-0.001	0.021	0.954

		rs10424405	-0.146	0.030	1.32E-06	0.017	0.020	0.399
		rs10972130	0.147	0.031	2.29E-06	0.029	0.020	0.152
		rs112081515	-0.286	0.062	3.55E-06	0.034	0.042	0.419
		rs11888059	0.115	0.025	3.02E-06	-0.002	0.016	0.884
		rs12493830	-0.138	0.025	6.17E-08	0.002	0.016	0.922
		rs140225543	-0.553	0.119	3.47E-06	-0.019	0.097	0.848
		rs143365592	0.568	0.124	4.79E-06	-0.096	0.092	0.298
		rs144792666	0.485	0.101	1.45E-06	0.019	0.076	0.805
ebi-a-GCST010778		rs145533598	0.470	0.097	1.12E-06	-0.092	0.072	0.201
		rs150889493	-0.438	0.089	7.94E-07	0.054	0.059	0.359
		rs1652049	0.128	0.027	1.62E-06	-0.005	0.016	0.759
		rs35583440	0.874	0.191	4.79E-06	-0.187	0.124	0.133
		rs4690014	0.133	0.026	2.69E-07	0.018	0.017	0.285
		rs55923630	-0.149	0.026	1.35E-08	0.023	0.018	0.190
		rs71358078	-0.406	0.085	1.86E-06	-0.018	0.061	0.774
		rs72771293	0.150	0.031	1.17E-06	-0.007	0.020	0.748
		rs76053345	-0.756	0.157	1.38E-06	-0.133	0.116	0.252
		rs77451959	0.400	0.086	2.95E-06	-0.095	0.058	0.101
		rs78801677	0.206	0.044	3.31E-06	-0.031	0.033	0.349
		rs10208542	-0.185	0.037	6.46E-07	0.008	0.028	0.771
		rs10424405	-0.146	0.030	1.32E-06	0.047	0.033	0.156
		rs10972130	0.147	0.031	2.29E-06	0.018	0.027	0.494
		rs112081515	-0.286	0.062	3.55E-06	-0.016	0.058	0.777
IL-1R1	ebi-a-GCST010779	rs11888059	0.115	0.025	3.02E-06	0.000	0.024	0.987
		rs12493830	-0.138	0.025	6.17E-08	-0.037	0.021	0.078
		rs140225543	-0.553	0.119	3.47E-06	0.053	0.159	0.737
		rs143365592	0.568	0.124	4.79E-06	-0.161	0.148	0.276
		rs144792666	0.485	0.101	1.45E-06	-0.002	0.098	0.980
		rs145533598	0.470	0.097	1.12E-06	0.112	0.086	0.192
		rs150889493	-0.438	0.089	7.94E-07	-0.092	0.089	0.303
		rs1652049	0.128	0.027	1.62E-06	0.010	0.025	0.679
		rs35583440	0.874	0.191	4.79E-06	-0.066	0.189	0.728
		rs4690014	0.133	0.026	2.69E-07	0.008	0.026	0.762
		rs55923630	-0.149	0.026	1.35E-08	-0.002	0.023	0.936
		rs71358078	-0.406	0.085	1.86E-06	-0.074	0.076	0.332
		rs72771293	0.150	0.031	1.17E-06	-0.039	0.026	0.140
		rs76053345	-0.756	0.157	1.38E-06	-0.174	0.173	0.314
		rs77451959	0.400	0.086	2.95E-06	-0.094	0.084	0.264
		rs78801677	0.206	0.044	3.31E-06	0.006	0.047	0.898
ebi-a-GCST010780		rs10208542	-0.185	0.037	6.46E-07	-0.003	0.017	0.885
		rs10424405	-0.146	0.030	1.32E-06	0.017	0.018	0.353
		rs10972130	0.147	0.031	2.29E-06	0.024	0.016	0.147
		rs112081515	-0.286	0.062	3.55E-06	0.045	0.034	0.193
		rs11888059	0.115	0.025	3.02E-06	0.005	0.014	0.707
		rs12493830	-0.138	0.025	6.17E-08	-0.013	0.013	0.305
		rs140225543	-0.553	0.119	3.47E-06	0.000	0.087	0.996
		rs143365592	0.568	0.124	4.79E-06	-0.172	0.081	0.034
		rs144792666	0.485	0.101	1.45E-06	0.002	0.062	0.977
		rs145533598	0.470	0.097	1.12E-06	0.003	0.055	0.958
		rs150889493	-0.438	0.089	7.94E-07	0.044	0.049	0.375
		rs1652049	0.128	0.027	1.62E-06	-0.001	0.014	0.953
		rs35583440	0.874	0.191	4.79E-06	-0.121	0.104	0.244
		rs4690014	0.133	0.026	2.69E-07	0.015	0.014	0.291
		rs55923630	-0.149	0.026	1.35E-08	0.008	0.014	0.562
		rs71358078	-0.406	0.085	1.86E-06	-0.003	0.049	0.946
		rs72771293	0.150	0.031	1.17E-06	-0.018	0.016	0.265
		rs76053345	-0.756	0.157	1.38E-06	-0.096	0.105	0.360
		rs77451959	0.400	0.086	2.95E-06	-0.077	0.049	0.117

	rs78801677	0.206	0.044	3.31E-06	-0.007	0.028	0.793
ebi-a-GCST010781	rs10208542	-0.185	0.037	6.46E-07	-0.035	0.040	0.381
	rs10424405	-0.146	0.030	1.32E-06	-0.010	0.040	0.799
	rs10972130	0.147	0.031	2.29E-06	-0.075	0.033	0.022
	rs112081515	-0.286	0.062	3.55E-06	-0.063	0.065	0.331
	rs11888059	0.115	0.025	3.02E-06	-0.007	0.026	0.785
	rs12493830	-0.138	0.025	6.17E-08	0.005	0.027	0.847
	rs140225543	-0.553	0.119	3.47E-06	0.228	0.168	0.175
	rs143365592	0.568	0.124	4.79E-06	-0.166	0.147	0.259
	rs144792666	0.485	0.101	1.45E-06	0.062	0.118	0.602
	rs145533598	0.470	0.097	1.12E-06	-0.050	0.107	0.644
	rs150889493	-0.438	0.089	7.94E-07	0.063	0.109	0.563
	rs1652049	0.128	0.027	1.62E-06	-0.025	0.029	0.379
	rs35583440	0.874	0.191	4.79E-06	0.319	0.157	0.042
	rs4690014	0.133	0.026	2.69E-07	0.022	0.029	0.439
	rs55923630	-0.149	0.026	1.35E-08	-0.011	0.029	0.709
	rs71358078	-0.406	0.085	1.86E-06	0.084	0.107	0.431
	rs72771293	0.150	0.031	1.17E-06	0.050	0.033	0.126
	rs76053345	-0.756	0.157	1.38E-06	-0.057	0.187	0.759
	rs77451959	0.400	0.086	2.95E-06	-0.016	0.103	0.876
	rs78801677	0.206	0.044	3.31E-06	-0.043	0.060	0.469
ebi-a-GCST010782	rs10208542	-0.185	0.037	6.46E-07	-0.028	0.053	0.602
	rs10424405	-0.146	0.030	1.32E-06	0.041	0.054	0.439
	rs10972130	0.147	0.031	2.29E-06	-0.034	0.053	0.518
	rs112081515	-0.286	0.062	3.55E-06	-0.154	0.120	0.198
	rs11888059	0.115	0.025	3.02E-06	-0.008	0.042	0.853
	rs12493830	-0.138	0.025	6.17E-08	-0.017	0.041	0.678
	rs140225543	-0.553	0.119	3.47E-06	0.032	0.269	0.906
	rs143365592	0.568	0.124	4.79E-06	0.072	0.258	0.779
	rs144792666	0.485	0.101	1.45E-06	0.046	0.228	0.841
	rs145533598	0.470	0.097	1.12E-06	-0.124	0.195	0.527
	rs150889493	-0.438	0.089	7.94E-07	-0.079	0.160	0.623
	rs1652049	0.128	0.027	1.62E-06	0.032	0.042	0.449
	rs35583440	0.874	0.191	4.79E-06	0.111	0.360	0.759
	rs4690014	0.133	0.026	2.69E-07	-0.013	0.043	0.756
	rs55923630	-0.149	0.026	1.35E-08	-0.041	0.046	0.376
	rs71358078	-0.406	0.085	1.86E-06	0.023	0.170	0.893
	rs72771293	0.150	0.031	1.17E-06	-0.114	0.054	0.034
	rs76053345	-0.756	0.157	1.38E-06	0.018	0.324	0.955
	rs77451959	0.400	0.086	2.95E-06	0.027	0.157	0.866
	rs78801677	0.206	0.044	3.31E-06	-0.001	0.089	0.992
ebi-a-GCST010783	rs10208542	-0.185	0.037	6.46E-07	0.003	0.039	0.941
	rs10424405	-0.146	0.030	1.32E-06	-0.081	0.053	0.130
	rs10972130	0.147	0.031	2.29E-06	0.031	0.035	0.377
	rs112081515	-0.286	0.062	3.55E-06	-0.050	0.073	0.499
	rs11888059	0.115	0.025	3.02E-06	0.042	0.036	0.247
	rs12493830	-0.138	0.025	6.17E-08	-0.037	0.028	0.187
	rs140225543	-0.553	0.119	3.47E-06	0.064	0.237	0.787
	rs143365592	0.568	0.124	4.79E-06	-0.169	0.190	0.374
	rs144792666	0.485	0.101	1.45E-06	0.079	0.120	0.513
	rs145533598	0.470	0.097	1.12E-06	0.165	0.106	0.120
	rs150889493	-0.438	0.089	7.94E-07	0.001	0.125	0.992
	rs1652049	0.128	0.027	1.62E-06	0.025	0.038	0.501
	rs35583440	0.874	0.191	4.79E-06	-0.030	0.231	0.895
	rs4690014	0.133	0.026	2.69E-07	0.030	0.038	0.434
	rs55923630	-0.149	0.026	1.35E-08	0.004	0.030	0.882
	rs71358078	-0.406	0.085	1.86E-06	-0.132	0.096	0.168
	rs72771293	0.150	0.031	1.17E-06	0.000	0.034	0.995

		rs76053345	-0.756	0.157	1.38E-06	-0.339	0.207	0.101
		rs77451959	0.400	0.086	2.95E-06	-0.081	0.115	0.481
		rs78801677	0.206	0.044	3.31E-06	0.055	0.064	0.390
ebi-a-GCST010775		rs1054402	0.131	0.027	1.13E-06	-0.049	0.163	0.764
		rs11627423	0.117	0.025	2.12E-06	-0.114	0.151	0.453
		rs11869294	0.227	0.047	1.50E-06	0.285	0.328	0.386
		rs12121840	0.269	0.057	2.43E-06	0.249	0.301	0.408
		rs187166731	0.233	0.051	4.70E-06	-0.016	0.552	0.977
		rs2809154	0.179	0.039	3.74E-06	-0.074	0.225	0.742
		rs56134659	0.112	0.024	2.44E-06	0.060	0.181	0.740
		rs61335305	0.445	0.091	1.00E-06	-0.369	0.451	0.413
		rs9623661	0.197	0.043	3.86E-06	0.449	0.243	0.064
		rs1054402	0.131	0.027	1.13E-06	-0.039	0.019	0.040
ebi-a-GCST010776		rs11627423	0.117	0.025	2.12E-06	-0.008	0.017	0.619
		rs11869294	0.227	0.047	1.50E-06	0.033	0.046	0.477
		rs12121840	0.269	0.057	2.43E-06	-0.020	0.033	0.550
		rs187166731	0.233	0.051	4.70E-06	0.022	0.098	0.827
		rs2809154	0.179	0.039	3.74E-06	0.020	0.021	0.325
		rs56134659	0.112	0.024	2.44E-06	-0.015	0.018	0.399
		rs61335305	0.445	0.091	1.00E-06	0.059	0.060	0.332
		rs9623661	0.197	0.043	3.86E-06	-0.017	0.028	0.540
		rs1054402	0.131	0.027	1.13E-06	-0.052	0.021	0.015
		rs11627423	0.117	0.025	2.12E-06	-0.038	0.018	0.033
ebi-a-GCST010777		rs11869294	0.227	0.047	1.50E-06	-0.013	0.054	0.811
		rs12121840	0.269	0.057	2.43E-06	0.010	0.037	0.785
		rs187166731	0.233	0.051	4.70E-06	0.179	0.127	0.159
		rs2809154	0.179	0.039	3.74E-06	0.006	0.024	0.788
		rs56134659	0.112	0.024	2.44E-06	0.033	0.019	0.077
		rs61335305	0.445	0.091	1.00E-06	0.028	0.042	0.504
		rs9623661	0.197	0.043	3.86E-06	-0.027	0.030	0.374
		rs1054402	0.131	0.027	1.13E-06	-0.052	0.021	0.015
		rs11627423	0.117	0.025	2.12E-06	-0.038	0.018	0.033
		rs11869294	0.227	0.047	1.50E-06	-0.013	0.054	0.811
ebi-a-GCST010778		rs12121840	0.269	0.057	2.43E-06	0.010	0.037	0.785
		rs187166731	0.233	0.051	4.70E-06	0.179	0.127	0.159
		rs2809154	0.179	0.039	3.74E-06	0.006	0.024	0.788
		rs56134659	0.112	0.024	2.44E-06	0.033	0.019	0.077
		rs61335305	0.445	0.091	1.00E-06	0.028	0.042	0.504
		rs9623661	0.197	0.043	3.86E-06	-0.027	0.030	0.374
		rs1054402	0.131	0.027	1.13E-06	0.021	0.029	0.474
		rs11627423	0.117	0.025	2.12E-06	-0.014	0.026	0.583
		rs11869294	0.227	0.047	1.50E-06	-0.024	0.073	0.744
		rs12121840	0.269	0.057	2.43E-06	0.015	0.051	0.767
IL-1Ra		rs187166731	0.233	0.051	4.70E-06	0.042	0.182	0.815
		rs2809154	0.179	0.039	3.74E-06	0.035	0.029	0.235
		rs56134659	0.112	0.024	2.44E-06	0.021	0.037	0.575
		rs61335305	0.445	0.091	1.00E-06	0.074	0.067	0.268
		rs9623661	0.197	0.043	3.86E-06	-0.087	0.045	0.053
		rs1054402	0.131	0.027	1.13E-06	-0.025	0.017	0.140
		rs11627423	0.117	0.025	2.12E-06	-0.021	0.015	0.173
		rs11869294	0.227	0.047	1.50E-06	-0.022	0.040	0.587
		rs12121840	0.269	0.057	2.43E-06	0.005	0.031	0.883
		rs187166731	0.233	0.051	4.70E-06	0.035	0.097	0.718
ebi-a-GCST010780		rs2809154	0.179	0.039	3.74E-06	0.023	0.018	0.206
		rs56134659	0.112	0.024	2.44E-06	0.011	0.021	0.598
		rs61335305	0.445	0.091	1.00E-06	0.017	0.038	0.653
		rs9623661	0.197	0.043	3.86E-06	-0.025	0.026	0.322
		rs1054402	0.131	0.027	1.13E-06	-0.008	0.030	0.800

ebi-a-GCST010781	rs11627423	0.117	0.025	2.12E-06	0.005	0.027	0.856
	rs11869294	0.227	0.047	1.50E-06	0.134	0.092	0.146
	rs12121840	0.269	0.057	2.43E-06	-0.014	0.058	0.812
	rs147747784	0.365	0.076	1.46E-06	-0.255	0.146	0.079
	rs187166731	0.233	0.051	4.70E-06	0.191	0.151	0.205
	rs2809154	0.179	0.039	3.74E-06	-0.024	0.036	0.503
	rs56134659	0.112	0.024	2.44E-06	0.071	0.038	0.062
	rs61335305	0.445	0.091	1.00E-06	0.124	0.170	0.466
	rs9623661	0.197	0.043	3.86E-06	0.050	0.050	0.317
	rs1054402	0.131	0.027	1.13E-06	0.067	0.057	0.243
ebi-a-GCST010782	rs11627423	0.117	0.025	2.12E-06	-0.066	0.048	0.170
	rs11869294	0.227	0.047	1.50E-06	0.027	0.146	0.856
	rs12121840	0.269	0.057	2.43E-06	0.023	0.099	0.820
	rs187166731	0.233	0.051	4.70E-06	0.117	0.306	0.704
	rs2809154	0.179	0.039	3.74E-06	0.028	0.065	0.671
	rs56134659	0.112	0.024	2.44E-06	0.038	0.051	0.453
	rs61335305	0.445	0.091	1.00E-06	-0.037	0.101	0.715
	rs9623661	0.197	0.043	3.86E-06	-0.074	0.075	0.327
	rs1054402	0.131	0.027	1.13E-06	0.023	0.040	0.569
	rs11627423	0.117	0.025	2.12E-06	-0.016	0.038	0.669
ebi-a-GCST010783	rs11869294	0.227	0.047	1.50E-06	0.115	0.100	0.250
	rs12121840	0.269	0.057	2.43E-06	0.082	0.070	0.243
	rs187166731	0.233	0.051	4.70E-06	-0.089	0.220	0.687
	rs2809154	0.179	0.039	3.74E-06	0.058	0.037	0.118
	rs56134659	0.112	0.024	2.44E-06	-0.040	0.038	0.292
	rs61335305	0.445	0.091	1.00E-06	0.114	0.114	0.319
	rs9623661	0.197	0.043	3.86E-06	-0.040	0.065	0.546
	rs1024949	-0.448	0.040	2.95E-29	-0.257	0.221	0.245
	rs113553332	0.685	0.056	4.68E-34	0.198	0.383	0.606
ebi-a-GCST010775	rs13059920	0.420	0.038	9.33E-29	0.007	0.242	0.975
	rs13084868	0.178	0.039	4.27E-06	-0.062	0.209	0.768
	rs148996090	1.111	0.137	3.98E-16	1.174	0.650	0.071
	rs1607264	-0.146	0.031	2.82E-06	0.203	0.186	0.275
	rs16969649	-0.140	0.031	4.90E-06	-0.233	0.183	0.202
	rs1988743	0.135	0.028	1.51E-06	-0.091	0.178	0.608
	rs2885370	-0.209	0.031	8.91E-12	-0.081	0.185	0.663
	rs3935774	0.741	0.112	3.55E-11	-0.678	0.518	0.191
	rs41268633	-0.251	0.050	6.03E-07	0.542	0.380	0.153
	rs4624606	-0.925	0.025	1.00E-200	-0.144	0.185	0.437
	rs4687154	-0.581	0.040	7.94E-49	0.144	0.262	0.582
	rs4815878	0.155	0.030	1.95E-07	0.355	0.168	0.035
	rs5753690	0.149	0.029	2.95E-07	-0.269	0.174	0.123
	rs61492644	-0.124	0.025	7.41E-07	0.002	0.156	0.990
	rs62116908	-0.294	0.064	3.72E-06	0.039	0.422	0.926
	rs62196769	-0.205	0.044	3.09E-06	-0.259	0.219	0.237
	rs6444430	0.154	0.033	2.29E-06	-0.025	0.206	0.905
	rs6444435	-0.171	0.026	5.37E-11	-0.064	0.155	0.679
	rs6461953	-0.146	0.032	4.68E-06	0.339	0.189	0.073
	rs67249092	-0.379	0.035	5.25E-28	0.035	0.227	0.879
	rs6796131	-0.244	0.026	1.51E-20	-0.228	0.165	0.166
	rs6801017	-0.202	0.031	3.80E-11	0.122	0.186	0.512
	rs73754360	0.384	0.080	1.78E-06	0.187	0.495	0.705
	rs75857200	0.199	0.042	2.34E-06	-0.175	0.285	0.538
	rs7623802	-0.129	0.027	1.41E-06	-0.033	0.156	0.834
	rs78129851	0.793	0.117	1.07E-11	-0.842	0.658	0.200
	rs1024949	-0.448	0.040	2.95E-29	-0.025	0.028	0.371
	rs113553332	0.685	0.056	4.68E-34	0.048	0.037	0.199
	rs13059920	0.420	0.038	9.33E-29	-0.010	0.025	0.669

ebi-a-GCST010776	rs13084868	0.178	0.039	4.27E-06	-0.025	0.022	0.240
	rs148996090	1.111	0.137	3.98E-16	-0.094	0.116	0.417
	rs1607264	-0.146	0.031	2.82E-06	0.005	0.019	0.801
	rs16969649	-0.140	0.031	4.90E-06	0.030	0.019	0.110
	rs1988743	0.135	0.028	1.51E-06	-0.003	0.021	0.892
	rs2885370	-0.209	0.031	8.91E-12	0.013	0.021	0.521
	rs3935774	0.741	0.112	3.55E-11	0.059	0.059	0.320
	rs41268633	-0.251	0.050	6.03E-07	0.027	0.039	0.496
	rs4624606	-0.925	0.025	1.00E-200	0.007	0.021	0.744
	rs4687154	-0.581	0.040	7.94E-49	-0.015	0.026	0.561
	rs4815878	0.155	0.030	1.95E-07	-0.008	0.018	0.663
	rs5753690	0.149	0.029	2.95E-07	0.014	0.017	0.408
	rs61492644	-0.124	0.025	7.41E-07	0.005	0.017	0.768
	rs62116908	-0.294	0.064	3.72E-06	-0.026	0.040	0.511
	rs62196769	-0.205	0.044	3.09E-06	-0.044	0.026	0.089
	rs6444430	0.154	0.033	2.29E-06	0.006	0.024	0.792
	rs6444435	-0.171	0.026	5.37E-11	-0.006	0.018	0.720
	rs6461953	-0.146	0.032	4.68E-06	0.006	0.019	0.751
	rs67249092	-0.379	0.035	5.25E-28	-0.002	0.021	0.917
	rs6796131	-0.244	0.026	1.51E-20	-0.019	0.015	0.202
	rs6801017	-0.202	0.031	3.80E-11	-0.016	0.019	0.413
	rs73754360	0.384	0.080	1.78E-06	-0.012	0.043	0.787
	rs75857200	0.199	0.042	2.34E-06	0.044	0.026	0.095
	rs7623802	-0.129	0.027	1.41E-06	-0.018	0.015	0.236
	rs78129851	0.793	0.117	1.07E-11	0.066	0.091	0.469
ebi-a-GCST010777	rs1024949	-0.448	0.040	2.95E-29	-0.030	0.031	0.341
	rs113553332	0.685	0.056	4.68E-34	0.046	0.044	0.296
	rs13059920	0.420	0.038	9.33E-29	-0.011	0.025	0.667
	rs13084868	0.178	0.039	4.27E-06	0.008	0.022	0.719
	rs148996090	1.111	0.137	3.98E-16	-0.139	0.144	0.335
	rs1607264	-0.146	0.031	2.82E-06	0.012	0.019	0.506
	rs16969649	-0.140	0.031	4.90E-06	0.044	0.020	0.030
	rs1988743	0.135	0.028	1.51E-06	-0.007	0.024	0.765
	rs2885370	-0.209	0.031	8.91E-12	0.030	0.023	0.184
	rs3935774	0.741	0.112	3.55E-11	0.047	0.043	0.284
	rs41268633	-0.251	0.050	6.03E-07	0.032	0.043	0.457
	rs4624606	-0.925	0.025	1.00E-200	0.008	0.023	0.735
	rs4687154	-0.581	0.040	7.94E-49	-0.020	0.028	0.470
	rs4815878	0.155	0.030	1.95E-07	-0.013	0.019	0.492
	rs5753690	0.149	0.029	2.95E-07	0.023	0.018	0.193
	rs61492644	-0.124	0.025	7.41E-07	0.021	0.018	0.247
	rs62116908	-0.294	0.064	3.72E-06	-0.007	0.046	0.884
	rs62196769	-0.205	0.044	3.09E-06	-0.014	0.027	0.608
	rs6444430	0.154	0.033	2.29E-06	0.003	0.025	0.900
	rs6444435	-0.171	0.026	5.37E-11	0.006	0.020	0.758
	rs6461953	-0.146	0.032	4.68E-06	0.026	0.019	0.179
	rs67249092	-0.379	0.035	5.25E-28	-0.003	0.021	0.890
	rs6796131	-0.244	0.026	1.51E-20	-0.005	0.016	0.776
	rs6801017	-0.202	0.031	3.80E-11	-0.016	0.019	0.399
	rs73754360	0.384	0.080	1.78E-06	0.018	0.041	0.659
	rs75857200	0.199	0.042	2.34E-06	0.026	0.028	0.369
	rs7623802	-0.129	0.027	1.41E-06	-0.015	0.017	0.380
	rs78129851	0.793	0.117	1.07E-11	0.160	0.111	0.149
rs1024949	rs1024949	-0.448	0.040	2.95E-29	-0.030	0.031	0.341
	rs113553332	0.685	0.056	4.68E-34	0.046	0.044	0.296
	rs13059920	0.420	0.038	9.33E-29	-0.011	0.025	0.667
	rs13084868	0.178	0.039	4.27E-06	0.008	0.022	0.719
	rs148996090	1.111	0.137	3.98E-16	-0.139	0.144	0.335

		rs1607264	-0.146	0.031	2.82E-06	0.012	0.019	0.506
		rs16969649	-0.140	0.031	4.90E-06	0.044	0.020	0.030
		rs1988743	0.135	0.028	1.51E-06	-0.007	0.024	0.765
		rs2885370	-0.209	0.031	8.91E-12	0.030	0.023	0.184
		rs3935774	0.741	0.112	3.55E-11	0.047	0.043	0.284
		rs41268633	-0.251	0.050	6.03E-07	0.032	0.043	0.457
		rs4624606	-0.925	0.025	1.00E-200	0.008	0.023	0.735
		rs4687154	-0.581	0.040	7.94E-49	-0.020	0.028	0.470
ebi-a-GCST010778		rs4815878	0.155	0.030	1.95E-07	-0.013	0.019	0.492
		rs55753690	0.149	0.029	2.95E-07	0.023	0.018	0.193
		rs61492644	-0.124	0.025	7.41E-07	0.021	0.018	0.247
		rs62116908	-0.294	0.064	3.72E-06	-0.007	0.046	0.884
		rs62196769	-0.205	0.044	3.09E-06	-0.014	0.027	0.608
		rs64444430	0.154	0.033	2.29E-06	0.003	0.025	0.900
		rs64444435	-0.171	0.026	5.37E-11	0.006	0.020	0.758
		rs6461953	-0.146	0.032	4.68E-06	0.026	0.019	0.179
		rs67249092	-0.379	0.035	5.25E-28	-0.003	0.021	0.890
		rs6796131	-0.244	0.026	1.51E-20	-0.005	0.016	0.776
		rs6801017	-0.202	0.031	3.80E-11	-0.016	0.019	0.399
		rs73754360	0.384	0.080	1.78E-06	0.018	0.041	0.659
		rs75857200	0.199	0.042	2.34E-06	0.026	0.028	0.369
		rs7623802	-0.129	0.027	1.41E-06	-0.015	0.017	0.380
		rs78129851	0.793	0.117	1.07E-11	0.160	0.111	0.149
IL-1Racp ebi-a-GCST010779		rs1024949	-0.448	0.040	2.95E-29	0.006	0.044	0.886
		rs113553332	0.685	0.056	4.68E-34	0.001	0.053	0.983
		rs13059920	0.420	0.038	9.33E-29	0.075	0.039	0.055
		rs13084868	0.178	0.039	4.27E-06	-0.037	0.030	0.212
		rs148996090	1.111	0.137	3.98E-16	0.069	0.223	0.758
		rs1607264	-0.146	0.031	2.82E-06	0.039	0.028	0.170
		rs16969649	-0.140	0.031	4.90E-06	-0.005	0.025	0.844
		rs1988743	0.135	0.028	1.51E-06	-0.036	0.031	0.244
		rs2885370	-0.209	0.031	8.91E-12	0.022	0.034	0.513
		rs3935774	0.741	0.112	3.55E-11	0.031	0.060	0.608
		rs41268633	-0.251	0.050	6.03E-07	0.088	0.079	0.263
		rs4624606	-0.925	0.025	1.00E-200	0.012	0.031	0.702
		rs4687154	-0.581	0.040	7.94E-49	-0.031	0.044	0.485
		rs4815878	0.155	0.030	1.95E-07	0.052	0.029	0.069
		rs55753690	0.149	0.029	2.95E-07	0.027	0.024	0.272
		rs61492644	-0.124	0.025	7.41E-07	0.017	0.028	0.536
		rs62116908	-0.294	0.064	3.72E-06	-0.025	0.062	0.691
		rs62196769	-0.205	0.044	3.09E-06	-0.048	0.037	0.190
		rs64444430	0.154	0.033	2.29E-06	0.043	0.046	0.346
		rs64444435	-0.171	0.026	5.37E-11	-0.048	0.029	0.100
		rs6461953	-0.146	0.032	4.68E-06	0.030	0.026	0.253
		rs67249092	-0.379	0.035	5.25E-28	0.024	0.033	0.461
		rs6796131	-0.244	0.026	1.51E-20	-0.031	0.022	0.153
		rs6801017	-0.202	0.031	3.80E-11	-0.018	0.029	0.537
		rs73754360	0.384	0.080	1.78E-06	-0.009	0.055	0.870
		rs75857200	0.199	0.042	2.34E-06	-0.030	0.043	0.477
		rs7623802	-0.129	0.027	1.41E-06	-0.006	0.022	0.785
		rs78129851	0.793	0.117	1.07E-11	0.029	0.127	0.820
		rs1024949	-0.448	0.040	2.95E-29	-0.007	0.025	0.774
		rs113553332	0.685	0.056	4.68E-34	0.025	0.035	0.483
		rs13059920	0.420	0.038	9.33E-29	-0.008	0.022	0.727
		rs13084868	0.178	0.039	4.27E-06	-0.004	0.018	0.821
		rs148996090	1.111	0.137	3.98E-16	-0.133	0.111	0.229
		rs1607264	-0.146	0.031	2.82E-06	0.019	0.016	0.233
		rs16969649	-0.140	0.031	4.90E-06	0.028	0.017	0.097

	rs1988743	0.135	0.028	1.51E-06	0.001	0.018	0.946
	rs2885370	-0.209	0.031	8.91E-12	0.002	0.019	0.897
	rs3935774	0.741	0.112	3.55E-11	0.041	0.035	0.245
	rs41268633	-0.251	0.050	6.03E-07	0.036	0.037	0.325
	rs4624606	-0.925	0.025	1.00E-200	0.009	0.018	0.610
	rs4687154	-0.581	0.040	7.94E-49	-0.018	0.024	0.471
ebi-a-GCST010780	rs4815878	0.155	0.030	1.95E-07	-0.005	0.016	0.765
	rs5753690	0.149	0.029	2.95E-07	0.022	0.015	0.134
	rs61492644	-0.124	0.025	7.41E-07	0.008	0.015	0.586
	rs62116908	-0.294	0.064	3.72E-06	-0.026	0.038	0.496
	rs62196769	-0.205	0.044	3.09E-06	-0.038	0.022	0.087
	rs6444430	0.154	0.033	2.29E-06	0.016	0.023	0.480
	rs6444435	-0.171	0.026	5.37E-11	-0.015	0.016	0.350
	rs6461953	-0.146	0.032	4.68E-06	0.017	0.016	0.296
	rs67249092	-0.379	0.035	5.25E-28	0.003	0.018	0.873
	rs6796131	-0.244	0.026	1.51E-20	-0.007	0.013	0.627
	rs6801017	-0.202	0.031	3.80E-11	-0.020	0.016	0.206
	rs73754360	0.384	0.080	1.78E-06	-0.009	0.035	0.806
	rs75857200	0.199	0.042	2.34E-06	0.037	0.024	0.133
	rs7623802	-0.129	0.027	1.41E-06	-0.012	0.014	0.396
	rs78129851	0.793	0.117	1.07E-11	0.049	0.083	0.556
ebi-a-GCST010781	rs1024949	-0.448	0.040	2.95E-29	-0.002	0.048	0.967
	rs113553332	0.685	0.056	4.68E-34	-0.019	0.065	0.773
	rs13059920	0.420	0.038	9.33E-29	0.009	0.043	0.835
	rs13084868	0.178	0.039	4.27E-06	-0.041	0.039	0.287
	rs148996090	1.111	0.137	3.98E-16	-0.135	0.205	0.512
	rs1607264	-0.146	0.031	2.82E-06	-0.033	0.035	0.345
	rs16969649	-0.140	0.031	4.90E-06	-0.004	0.032	0.898
	rs1988743	0.135	0.028	1.51E-06	0.077	0.033	0.018
	rs2885370	-0.209	0.031	8.91E-12	-0.096	0.036	0.009
	rs3935774	0.741	0.112	3.55E-11	0.246	0.137	0.073
	rs41268633	-0.251	0.050	6.03E-07	-0.007	0.065	0.914
	rs4624606	-0.925	0.025	1.00E-200	-0.043	0.035	0.214
	rs4687154	-0.581	0.040	7.94E-49	-0.024	0.054	0.657
	rs4815878	0.155	0.030	1.95E-07	-0.015	0.038	0.696
	rs5753690	0.149	0.029	2.95E-07	0.075	0.031	0.016
	rs61492644	-0.124	0.025	7.41E-07	-0.006	0.027	0.822
	rs62116908	-0.294	0.064	3.72E-06	-0.022	0.076	0.775
	rs62196769	-0.205	0.044	3.09E-06	-0.026	0.046	0.569
	rs6444430	0.154	0.033	2.29E-06	0.066	0.044	0.134
	rs6444435	-0.171	0.026	5.37E-11	-0.008	0.031	0.804
	rs6461953	-0.146	0.032	4.68E-06	-0.061	0.037	0.096
	rs67249092	-0.379	0.035	5.25E-28	0.051	0.042	0.218
	rs6796131	-0.244	0.026	1.51E-20	-0.058	0.029	0.042
	rs6801017	-0.202	0.031	3.80E-11	-0.055	0.033	0.095
	rs73754360	0.384	0.080	1.78E-06	-0.079	0.071	0.267
	rs75857200	0.199	0.042	2.34E-06	-0.002	0.047	0.964
	rs7623802	-0.129	0.027	1.41E-06	0.001	0.028	0.977
	rs78129851	0.793	0.117	1.07E-11	0.304	0.157	0.053
	rs1024949	-0.448	0.040	2.95E-29	-0.013	0.082	0.872
	rs113553332	0.685	0.056	4.68E-34	-0.055	0.110	0.619
	rs13059920	0.420	0.038	9.33E-29	0.087	0.064	0.177
	rs13084868	0.178	0.039	4.27E-06	-0.018	0.055	0.750
	rs148996090	1.111	0.137	3.98E-16	0.378	0.363	0.297
	rs1607264	-0.146	0.031	2.82E-06	0.103	0.046	0.024
	rs16969649	-0.140	0.031	4.90E-06	-0.004	0.049	0.934
	rs1988743	0.135	0.028	1.51E-06	-0.055	0.063	0.380
	rs2885370	-0.209	0.031	8.91E-12	0.056	0.061	0.360

	rs3935774	0.741	0.112	3.55E-11	0.040	0.102	0.691
	rs41268633	-0.251	0.050	6.03E-07	-0.011	0.129	0.933
	rs4624606	-0.925	0.025	1.00E-200	0.009	0.062	0.883
	rs4687154	-0.581	0.040	7.94E-49	-0.008	0.073	0.913
ebi-a-GCST010782	rs4815878	0.155	0.030	1.95E-07	0.083	0.047	0.077
	rs5753690	0.149	0.029	2.95E-07	0.012	0.045	0.793
	rs61492644	-0.124	0.025	7.41E-07	-0.025	0.049	0.613
	rs62116908	-0.294	0.064	3.72E-06	0.002	0.121	0.989
	rs62196769	-0.205	0.044	3.09E-06	-0.083	0.069	0.231
	rs6444430	0.154	0.033	2.29E-06	0.113	0.073	0.120
	rs6444435	-0.171	0.026	5.37E-11	-0.037	0.056	0.508
	rs6461953	-0.146	0.032	4.68E-06	-0.028	0.049	0.565
	rs67249092	-0.379	0.035	5.25E-28	0.055	0.054	0.312
	rs6796131	-0.244	0.026	1.51E-20	-0.041	0.042	0.332
	rs6801017	-0.202	0.031	3.80E-11	-0.040	0.049	0.412
	rs73754360	0.384	0.080	1.78E-06	-0.026	0.104	0.800
	rs75857200	0.199	0.042	2.34E-06	-0.003	0.075	0.973
	rs7623802	-0.129	0.027	1.41E-06	0.080	0.045	0.074
	rs78129851	0.793	0.117	1.07E-11	-0.219	0.267	0.411
ebi-a-GCST010783	rs1024949	-0.448	0.040	2.95E-29	-0.010	0.063	0.872
	rs113553332	0.685	0.056	4.68E-34	0.024	0.067	0.718
	rs13059920	0.420	0.038	9.33E-29	0.056	0.061	0.355
	rs13084868	0.178	0.039	4.27E-06	-0.031	0.041	0.453
	rs148996090	1.111	0.137	3.98E-16	0.240	0.262	0.360
	rs1607264	-0.146	0.031	2.82E-06	0.072	0.044	0.101
	rs16969649	-0.140	0.031	4.90E-06	-0.015	0.034	0.666
	rs1988743	0.135	0.028	1.51E-06	-0.026	0.041	0.529
	rs2885370	-0.209	0.031	8.91E-12	0.037	0.048	0.442
	rs3935774	0.741	0.112	3.55E-11	-0.035	0.094	0.711
	rs41268633	-0.251	0.050	6.03E-07	0.224	0.113	0.047
	rs4624606	-0.925	0.025	1.00E-200	0.001	0.043	0.975
	rs4687154	-0.581	0.040	7.94E-49	0.019	0.066	0.776
	rs4815878	0.155	0.030	1.95E-07	0.107	0.045	0.017
	rs5753690	0.149	0.029	2.95E-07	0.047	0.033	0.150
	rs61492644	-0.124	0.025	7.41E-07	0.011	0.042	0.784
	rs62116908	-0.294	0.064	3.72E-06	0.018	0.080	0.818
	rs62196769	-0.205	0.044	3.09E-06	-0.021	0.049	0.668
	rs6444430	0.154	0.033	2.29E-06	0.022	0.070	0.752
	rs6444435	-0.171	0.026	5.37E-11	-0.049	0.041	0.227
	rs6461953	-0.146	0.032	4.68E-06	0.043	0.035	0.215
	rs67249092	-0.379	0.035	5.25E-28	0.000	0.051	0.995
	rs6796131	-0.244	0.026	1.51E-20	-0.040	0.029	0.175
	rs6801017	-0.202	0.031	3.80E-11	0.037	0.044	0.398
	rs73754360	0.384	0.080	1.78E-06	0.074	0.075	0.324
	rs75857200	0.199	0.042	2.34E-06	0.065	0.062	0.295
	rs7623802	-0.129	0.027	1.41E-06	-0.042	0.029	0.148
	rs78129851	0.793	0.117	1.07E-11	-0.025	0.143	0.860

COVID-19: Corona Virus Disease 2019; GWAS ID: Genome wide association study identity; SNP: single-nucleotide polymorphism; Beta is the regression coefficient based on the IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp raising allele (effect allele); SE: standard error.

Supplementary table 3. Pleiotropy and heterogeneity test of IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp genetic IVs in COVID-19 GWAS dataset.

Exposure	GWAS ID	Pleiotropy test				Heterogeneity test					
		MR_Egger		PRESSO		MR_Egger		IVW			
		Intercept	SE	p_val	p_val	Q	Q_df	p_val	Q	Q_df	p_val
IL-1A	ebi-a-GCST010775	-0.08	0.18	0.67	0.16	23.63	16	0.10	23.90	17	0.12
	ebi-a-GCST010776	0.02	0.02	0.16	0.04	26.34	17	0.07	29.76	18	0.04
	ebi-a-GCST010777	0.04	0.02	0.02	0.16	16.76	17	0.47	23.79	18	0.16
	ebi-a-GCST010778	0.04	0.02	0.02	0.15	16.76	17	0.47	23.79	18	0.16
	ebi-a-GCST010779	0.03	0.02	0.26	0.17	22.26	17	0.18	24.00	18	0.16
	ebi-a-GCST010780	0.02	0.02	0.27	0.03	28.90	17	0.04	31.06	18	0.03
	ebi-a-GCST010781	0.01	0.02	0.56	0.65	15.01	17	0.59	15.36	18	0.64
	ebi-a-GCST010782	0.09	0.04	0.04	0.46	13.43	17	0.71	18.28	18	0.44
	ebi-a-GCST010783	0.02	0.03	0.41	0.23	21.65	17	0.20	22.55	18	0.21
IL-1B	ebi-a-GCST010775	0.02	0.21	0.93	0.35	5.32	4	0.26	5.33	5	0.38
	ebi-a-GCST010776	-0.01	0.02	0.53	0.80	1.90	4	0.75	2.37	5	0.80
	ebi-a-GCST010777	0.00	0.02	0.80	0.83	2.46	4	0.65	2.53	5	0.77
	ebi-a-GCST010778	0.00	0.02	0.80	0.83	2.46	4	0.65	2.53	5	0.77
	ebi-a-GCST010779	-0.06	0.03	0.09	0.20	3.33	4	0.50	8.32	5	0.14
	ebi-a-GCST010780	-0.02	0.02	0.25	0.67	1.81	4	0.77	3.62	5	0.61
	ebi-a-GCST010781	-0.02	0.03	0.66	0.69	2.49	4	0.65	2.71	5	0.74
	ebi-a-GCST010782	-0.05	0.05	0.37	0.33	4.85	4	0.30	6.11	5	0.30
	ebi-a-GCST010783	-0.03	0.04	0.54	0.48	4.49	4	0.34	4.99	5	0.42
IL-1R1	ebi-a-GCST010775	0.05	0.12	0.68	0.94	8.70	16	0.93	8.88	17	0.94
	ebi-a-GCST010776	0.02	0.01	0.10	0.63	13.01	18	0.79	16.02	19	0.66
	ebi-a-GCST010777	0.01	0.01	0.29	0.69	14.02	18	0.73	15.24	19	0.71
	ebi-a-GCST010778	0.01	0.01	0.29	0.70	14.02	18	0.73	15.24	19	0.71
	ebi-a-GCST010779	0.00	0.02	0.88	0.70	15.19	18	0.65	15.22	19	0.71
	ebi-a-GCST010780	0.02	0.01	0.10	0.54	14.70	18	0.68	17.71	19	0.54
	ebi-a-GCST010781	-0.01	0.02	0.71	0.37	20.16	18	0.32	20.31	19	0.38
	ebi-a-GCST010782	-0.02	0.03	0.62	0.95	9.77	18	0.94	10.03	19	0.95
	ebi-a-GCST010783	0.01	0.02	0.65	0.92	10.96	18	0.90	11.18	19	0.92
IL-1Ra	ebi-a-GCST010775	-0.05	0.19	0.80	0.62	6.09	7	0.53	6.16	8	0.63
	ebi-a-GCST010776	-0.04	0.02	0.14	0.44	5.19	7	0.64	8.01	8	0.43
	ebi-a-GCST010777	-0.03	0.03	0.36	0.05	14.62	7	0.04	16.65	8	0.03
	ebi-a-GCST010778	-0.03	0.03	0.36	0.05	14.62	7	0.04	16.65	8	0.03
	ebi-a-GCST010779	-0.01	0.03	0.69	0.47	7.11	7	0.42	7.29	8	0.51
	ebi-a-GCST010780	-0.02	0.02	0.27	0.49	5.89	7	0.55	7.34	8	0.50
	ebi-a-GCST010781	0.03	0.05	0.57	0.28	11.47	8	0.18	11.97	9	0.22
	ebi-a-GCST010782	0.02	0.05	0.78	0.74	5.22	7	0.63	5.31	8	0.72
	ebi-a-GCST010783	-0.07	0.05	0.18	0.61	4.10	7	0.77	6.33	8	0.61
IL-1Racp	ebi-a-GCST010775	-0.03	0.07	0.65	0.46	28.24	26	0.35	28.47	27	0.39
	ebi-a-GCST010776	0.00	0.01	0.81	0.83	20.10	26	0.79	20.16	27	0.82
	ebi-a-GCST010777	-0.01	0.01	0.29	0.73	21.59	26	0.71	22.73	27	0.70
	ebi-a-GCST010778	-0.01	0.01	0.29	0.74	21.59	26	0.71	22.73	27	0.70
	ebi-a-GCST010779	0.00	0.01	0.77	0.55	25.80	26	0.47	25.88	27	0.53
	ebi-a-GCST010780	0.00	0.01	0.70	0.70	22.58	26	0.66	22.73	27	0.70
	ebi-a-GCST010781	0.03	0.01	0.06	0.11	32.35	26	0.18	37.24	27	0.09
	ebi-a-GCST010782	0.00	0.02	0.89	0.63	24.64	26	0.54	24.66	27	0.59
	ebi-a-GCST010783	0.01	0.01	0.45	0.47	27.13	26	0.40	27.74	27	0.42

COVID-19: Corona Virus Disease 2019; GWAS ID: Genome wide association study identity. IVW: Inverse variance weighted. SE: standard error. p_val > 0.05 represent no significant pleiotropy and heterogeneity.

Supplementary table 4. The causal association of IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp with COVID-19.

Exposure	GWAS ID	Method	nsnp	Beta	SE	p_val	OR	OR_lci95	OR_uci95
IL-1A	GCST010775	MR Egger	18	0.086	1.147	0.941	1.090	0.115	10.317
		Weighted median	18	-0.022	0.447	0.961	0.979	0.408	2.349
		IVW	18	-0.381	0.372	0.306	0.683	0.330	1.417
		Simple mode	18	0.208	0.702	0.771	1.231	0.311	4.877
		Weighted mode	18	0.208	0.637	0.748	1.231	0.353	4.290
	GCST010776	MR Egger	19	-0.139	0.103	0.194	0.870	0.711	1.064
		Weighted median	19	0.080	0.045	0.074	1.083	0.992	1.182
		IVW	19	0.002	0.041	0.961	1.002	0.926	1.085
		Simple mode	19	0.078	0.082	0.356	1.081	0.920	1.270
		Weighted mode	19	0.076	0.075	0.325	1.079	0.931	1.249
	GCST010777	MR Egger	19	-0.247	0.096	0.020	0.781	0.647	0.944
		Weighted median	19	0.044	0.050	0.384	1.045	0.947	1.153
		IVW	19	-0.007	0.039	0.849	0.993	0.919	1.072
		Simple mode	19	0.113	0.101	0.278	1.120	0.918	1.366
		Weighted mode	19	0.121	0.091	0.202	1.128	0.944	1.349
	GCST010778	MR Egger	19	-0.247	0.096	0.020	0.781	0.647	0.944
		Weighted median	19	0.044	0.052	0.400	1.045	0.944	1.157
		IVW	19	-0.007	0.039	0.849	0.993	0.919	1.072
		Simple mode	19	0.113	0.106	0.298	1.120	0.910	1.378
		Weighted mode	19	0.121	0.085	0.171	1.128	0.956	1.332
	GCST010779	MR Egger	19	-0.155	0.139	0.279	0.856	0.653	1.124
		Weighted median	19	0.029	0.067	0.666	1.029	0.902	1.174
		IVW	19	-0.008	0.055	0.887	0.992	0.891	1.105
		Simple mode	19	0.059	0.124	0.642	1.060	0.832	1.352
		Weighted mode	19	0.091	0.117	0.444	1.096	0.871	1.378
	GCST010780	MR Egger	19	-0.090	0.099	0.374	0.914	0.752	1.109
		Weighted median	19	0.059	0.041	0.150	1.061	0.979	1.150
		IVW	19	0.013	0.037	0.717	1.013	0.943	1.089
		Simple mode	19	0.065	0.069	0.358	1.067	0.933	1.220
		Weighted mode	19	0.078	0.071	0.285	1.082	0.941	1.243
	GCST010781	MR Egger	19	-0.104	0.153	0.506	0.902	0.668	1.216
		Weighted median	19	0.000	0.077	0.997	1.000	0.860	1.163
		IVW	19	-0.019	0.056	0.728	0.981	0.880	1.094
		Simple mode	19	0.046	0.150	0.765	1.047	0.780	1.405
		Weighted mode	19	0.094	0.142	0.516	1.099	0.832	1.452
	GCST010782	MR Egger	19	-0.716	0.264	0.015	0.489	0.292	0.819
		Weighted median	19	-0.189	0.129	0.144	0.828	0.643	1.066
		IVW	19	-0.171	0.092	0.063	0.843	0.704	1.009
		Simple mode	19	-0.372	0.255	0.161	0.689	0.418	1.136
		Weighted mode	19	-0.275	0.234	0.254	0.759	0.480	1.200
	GCST010783	MR Egger	19	-0.169	0.176	0.350	0.844	0.598	1.192
		Weighted median	19	-0.004	0.092	0.962	0.996	0.831	1.193
		IVW	19	-0.035	0.073	0.630	0.965	0.837	1.114
		Simple mode	19	0.095	0.166	0.572	1.100	0.795	1.523
		Weighted mode	19	0.066	0.142	0.646	1.069	0.809	1.412
	GCST010775	MR Egger	6	-1.451	1.548	0.402	0.234	0.011	4.873
		Weighted median	6	-0.615	0.886	0.488	0.541	0.095	3.069
		IVW	6	-1.332	0.684	0.051	0.264	0.069	1.009
		Simple mode	6	-2.398	1.464	0.162	0.091	0.005	1.602
		Weighted mode	6	-0.192	1.125	0.871	0.825	0.091	7.487
	GCST010776	MR Egger	6	0.030	0.139	0.842	1.030	0.784	1.353
		Weighted median	6	-0.072	0.089	0.421	0.931	0.781	1.109
		IVW	6	-0.054	0.066	0.412	0.947	0.833	1.078
		Simple mode	6	-0.051	0.116	0.677	0.950	0.758	1.192

		Weighted mode	6	-0.093	0.096	0.376	0.911	0.755	1.099
ebi-a- GCST010777	6	MR Egger	6	0.105	0.132	0.472	1.110	0.858	1.437
		Weighted median	6	0.087	0.082	0.285	1.091	0.930	1.280
		IVW	6	0.074	0.065	0.255	1.077	0.948	1.223
		Simple mode	6	0.112	0.112	0.362	1.118	0.899	1.391
		Weighted mode	6	0.078	0.095	0.449	1.081	0.898	1.301
ebi-a- GCST010778	6	MR Egger	6	0.105	0.132	0.472	1.110	0.858	1.437
		Weighted median	6	0.087	0.084	0.303	1.091	0.924	1.287
		IVW	6	0.074	0.065	0.255	1.077	0.948	1.223
		Simple mode	6	0.112	0.106	0.339	1.118	0.909	1.376
		Weighted mode	6	0.078	0.093	0.441	1.081	0.901	1.296
IL-1B ebi-a- GCST010779	6	MR Egger	6	0.487	0.199	0.070	1.628	1.102	2.403
		Weighted median	6	0.188	0.130	0.148	1.207	0.935	1.559
		IVW	6	0.102	0.127	0.425	1.107	0.862	1.421
		Simple mode	6	0.274	0.183	0.194	1.315	0.919	1.881
		Weighted mode	6	0.228	0.154	0.199	1.256	0.928	1.700
ebi-a- GCST010780	6	MR Egger	6	0.155	0.113	0.242	1.168	0.936	1.457
		Weighted median	6	0.017	0.071	0.817	1.017	0.884	1.169
		IVW	6	0.023	0.056	0.682	1.023	0.917	1.142
		Simple mode	6	0.036	0.091	0.708	1.037	0.867	1.240
		Weighted mode	6	0.026	0.082	0.760	1.027	0.874	1.206
ebi-a- GCST010781	6	MR Egger	6	-0.058	0.241	0.822	0.944	0.589	1.512
		Weighted median	6	-0.215	0.141	0.126	0.806	0.612	1.063
		IVW	6	-0.159	0.109	0.146	0.853	0.689	1.057
		Simple mode	6	-0.225	0.207	0.328	0.799	0.532	1.199
		Weighted mode	6	-0.235	0.140	0.154	0.790	0.601	1.040
ebi-a- GCST010782	6	MR Egger	6	0.218	0.350	0.568	1.243	0.626	2.468
		Weighted median	6	0.000	0.203	0.998	1.000	0.672	1.489
		IVW	6	-0.093	0.172	0.589	0.911	0.650	1.277
		Simple mode	6	-0.124	0.311	0.706	0.883	0.480	1.624
		Weighted mode	6	0.111	0.236	0.658	1.117	0.704	1.774
ebi-a- GCST010783	6	MR Egger	6	0.134	0.287	0.665	1.143	0.651	2.006
		Weighted median	6	-0.159	0.169	0.345	0.853	0.612	1.187
		IVW	6	-0.035	0.128	0.786	0.966	0.751	1.242
		Simple mode	6	-0.122	0.267	0.667	0.885	0.524	1.494
		Weighted mode	6	-0.158	0.177	0.412	0.854	0.604	1.207
ebi-a- GCST010775	18	MR Egger	18	-0.194	0.674	0.777	0.823	0.220	3.086
		Weighted median	18	0.112	0.416	0.787	1.119	0.495	2.529
		IVW	18	0.061	0.302	0.841	1.062	0.588	1.919
		Simple mode	18	0.256	0.767	0.743	1.292	0.287	5.806
		Weighted mode	18	0.221	0.728	0.765	1.247	0.299	5.196
ebi-a- GCST010776	20	MR Egger	20	-0.134	0.061	0.041	0.875	0.777	0.985
		Weighted median	20	-0.027	0.040	0.501	0.974	0.900	1.053
		IVW	20	-0.041	0.028	0.148	0.960	0.908	1.015
		Simple mode	20	-0.015	0.079	0.854	0.985	0.843	1.151
		Weighted mode	20	-0.016	0.076	0.832	0.984	0.848	1.141
ebi-a- GCST010777	20	MR Egger	20	-0.112	0.068	0.116	0.894	0.783	1.021
		Weighted median	20	-0.039	0.045	0.390	0.962	0.881	1.051
		IVW	20	-0.045	0.031	0.143	0.956	0.899	1.015
		Simple mode	20	-0.135	0.082	0.114	0.873	0.744	1.025
		Weighted mode	20	-0.024	0.081	0.770	0.976	0.834	1.143
ebi-a- GCST010778	20	MR Egger	20	-0.112	0.068	0.116	0.894	0.783	1.021
		Weighted median	20	-0.039	0.041	0.347	0.962	0.888	1.043
		IVW	20	-0.045	0.031	0.143	0.956	0.899	1.015
		Simple mode	20	-0.135	0.085	0.128	0.873	0.739	1.032
		Weighted mode	20	-0.024	0.081	0.771	0.976	0.834	1.144
ebi-a-	20	MR Egger	20	0.041	0.097	0.678	1.042	0.862	1.260
		Weighted median	20	0.028	0.059	0.641	1.028	0.915	1.155

IL-1R1	GCST010779	IVW	20	0.027	0.044	0.531	1.028	0.944	1.119
		Simple mode	20	0.029	0.114	0.801	1.030	0.823	1.288
		Weighted mode	20	0.029	0.105	0.785	1.030	0.838	1.266
		MR Egger	20	-0.112	0.057	0.065	0.894	0.800	1.000
		Weighted median	20	0.001	0.037	0.980	1.001	0.931	1.076
	GCST010780	IVW	20	-0.024	0.026	0.352	0.976	0.928	1.027
		Simple mode	20	-0.004	0.071	0.955	0.996	0.867	1.144
		Weighted mode	20	-0.002	0.060	0.968	0.998	0.887	1.122
		MR Egger	20	0.039	0.113	0.735	1.040	0.833	1.297
		Weighted median	20	0.026	0.075	0.726	1.026	0.887	1.188
IL-1Ra	GCST010781	IVW	20	0.002	0.053	0.968	1.002	0.903	1.112
		Simple mode	20	-0.006	0.146	0.970	0.995	0.747	1.325
		Weighted mode	20	0.028	0.127	0.826	1.029	0.801	1.321
		MR Egger	20	0.096	0.188	0.615	1.101	0.761	1.593
		Weighted median	20	0.080	0.107	0.456	1.083	0.878	1.336
	GCST010782	IVW	20	0.010	0.083	0.906	1.010	0.858	1.189
		Simple mode	20	0.108	0.183	0.563	1.114	0.778	1.595
		Weighted mode	20	0.136	0.187	0.477	1.145	0.794	1.653
		MR Egger	20	0.092	0.125	0.469	1.097	0.859	1.401
		Weighted median	20	0.173	0.085	0.040	1.189	1.008	1.404
IL-1Ra	GCST010783	IVW	20	0.143	0.058	0.014	1.154	1.030	1.293
		Simple mode	20	0.241	0.143	0.109	1.272	0.961	1.683
		Weighted mode	20	0.235	0.131	0.089	1.265	0.978	1.635
		MR Egger	9	0.481	1.116	0.679	1.618	0.182	14.416
		Weighted median	9	-0.296	0.590	0.616	0.744	0.239	2.316
	GCST010775	IVW	9	0.214	0.433	0.621	1.238	0.530	2.891
		Simple mode	9	-0.363	0.906	0.699	0.695	0.103	4.692
		Weighted mode	9	-0.555	0.897	0.553	0.574	0.100	3.302
		MR Egger	9	0.184	0.136	0.220	1.202	0.920	1.570
		Weighted median	9	-0.073	0.067	0.282	0.930	0.819	1.057
IL-1Ra	GCST010776	IVW	9	-0.030	0.050	0.546	0.971	0.881	1.069
		Simple mode	9	0.099	0.114	0.412	1.104	0.897	1.359
		Weighted mode	9	-0.075	0.101	0.479	0.928	0.755	1.140
		MR Egger	9	0.122	0.170	0.495	1.130	0.810	1.576
		Weighted median	9	0.037	0.073	0.611	1.038	0.908	1.185
	GCST010777	IVW	9	-0.029	0.072	0.685	0.971	0.843	1.118
		Simple mode	9	-0.005	0.110	0.961	0.995	0.806	1.227
		Weighted mode	9	0.031	0.073	0.686	1.031	0.880	1.208
		MR Egger	9	0.122	0.170	0.495	1.130	0.810	1.576
		Weighted median	9	0.037	0.073	0.611	1.038	0.903	1.192
IL-1Ra	GCST010778	IVW	9	-0.029	0.072	0.685	0.971	0.843	1.118
		Simple mode	9	-0.005	0.104	0.959	0.995	0.806	1.227
		Weighted mode	9	0.031	0.076	0.695	1.031	0.887	1.199
		MR Egger	9	0.120	0.184	0.535	1.127	0.787	1.616
		Weighted median	9	0.160	0.099	0.106	1.173	0.967	1.423
	GCST010779	IVW	9	0.050	0.073	0.492	1.051	0.912	1.212
		Simple mode	9	0.177	0.134	0.223	1.193	0.915	1.557
		Weighted mode	9	0.175	0.108	0.143	1.191	0.950	1.495
		MR Egger	9	0.097	0.105	0.387	1.101	0.897	1.352
		Weighted median	9	0.022	0.059	0.706	1.023	0.914	1.144
IL-1Ra	GCST010780	IVW	9	-0.019	0.042	0.657	0.981	0.903	1.067
		Simple mode	9	0.082	0.100	0.435	1.086	0.908	1.298
		Weighted mode	9	0.049	0.078	0.546	1.051	0.906	1.218
		MR Egger	10	-0.113	0.312	0.726	0.893	0.485	1.645
		Weighted median	10	-0.035	0.120	0.768	0.965	0.767	1.215
	GCST010781	IVW	10	0.060	0.101	0.554	1.062	0.870	1.296
		Simple mode	10	0.031	0.174	0.864	1.031	0.744	1.429
		Weighted mode	10	-0.023	0.126	0.858	0.977	0.758	1.260

		MR Egger	9	-0.090	0.292	0.767	0.914	0.516	1.619
ebi-a- GCST010782		Weighted median	9	0.013	0.173	0.938	1.014	0.723	1.422
		IVW	9	-0.014	0.129	0.914	0.986	0.766	1.269
		Simple mode	9	0.171	0.265	0.537	1.187	0.702	2.005
		Weighted mode	9	0.010	0.196	0.962	1.010	0.690	1.477
		MR Egger	9	0.523	0.275	0.099	1.687	0.984	2.892
ebi-a- GCST010783		Weighted median	9	0.258	0.138	0.061	1.294	1.003	1.670
		IVW	9	0.141	0.101	0.163	1.152	0.944	1.404
		Simple mode	9	0.280	0.202	0.202	1.324	0.879	1.993
		Weighted mode	9	0.280	0.163	0.123	1.324	0.953	1.838
		MR Egger	28	0.174	0.207	0.409	1.190	0.793	1.785
ebi-a- GCST010775		Weighted median	28	0.141	0.180	0.432	1.152	0.810	1.637
		IVW	28	0.100	0.128	0.435	1.105	0.860	1.418
		Simple mode	28	0.061	0.332	0.855	1.063	0.554	2.039
		Weighted mode	28	0.143	0.171	0.410	1.154	0.825	1.615
		MR Egger	28	0.010	0.023	0.647	1.011	0.967	1.056
ebi-a- GCST010776		Weighted median	28	0.001	0.020	0.947	1.001	0.963	1.041
		IVW	28	0.015	0.014	0.280	1.015	0.988	1.043
		Simple mode	28	-0.014	0.034	0.678	0.986	0.923	1.053
		Weighted mode	28	0.004	0.020	0.864	1.004	0.964	1.044
		MR Egger	28	0.028	0.024	0.263	1.028	0.981	1.078
ebi-a- GCST010777		Weighted median	28	0.004	0.021	0.833	1.004	0.964	1.046
		IVW	28	0.007	0.014	0.633	1.007	0.979	1.036
		Simple mode	28	0.040	0.034	0.247	1.041	0.974	1.112
		Weighted mode	28	0.009	0.021	0.674	1.009	0.968	1.052
		MR Egger	28	0.028	0.024	0.263	1.028	0.981	1.078
ebi-a- GCST010778		Weighted median	28	0.004	0.021	0.837	1.004	0.963	1.048
		IVW	28	0.007	0.014	0.633	1.007	0.979	1.036
		Simple mode	28	0.040	0.034	0.247	1.041	0.972	1.114
		Weighted mode	28	0.009	0.019	0.634	1.009	0.972	1.047
		MR Egger	28	0.008	0.033	0.802	1.008	0.945	1.076
IL-1Racp ebi-a- GCST010779		Weighted median	28	-0.005	0.029	0.872	0.995	0.940	1.054
		IVW	28	0.016	0.020	0.430	1.016	0.977	1.057
		Simple mode	28	0.035	0.052	0.499	1.036	0.936	1.146
		Weighted mode	28	0.005	0.027	0.840	1.006	0.954	1.060
		MR Egger	28	0.002	0.019	0.909	1.002	0.965	1.041
ebi-a- GCST010780		Weighted median	28	-0.009	0.018	0.628	0.992	0.958	1.026
		IVW	28	0.008	0.012	0.482	1.008	0.985	1.032
		Simple mode	28	0.011	0.027	0.689	1.011	0.959	1.065
		Weighted mode	28	0.002	0.016	0.898	1.002	0.971	1.034
		MR Egger	28	-0.001	0.043	0.986	0.999	0.918	1.088
ebi-a- GCST010781		Weighted median	28	0.046	0.035	0.184	1.047	0.978	1.121
		IVW	28	0.067	0.028	0.018	1.069	1.011	1.130
		Simple mode	28	0.019	0.064	0.765	1.020	0.899	1.156
		Weighted mode	28	0.033	0.033	0.317	1.034	0.970	1.102
		MR Egger	28	0.008	0.062	0.900	1.008	0.892	1.139
ebi-a- GCST010782		Weighted median	28	-0.007	0.055	0.901	0.993	0.893	1.105
		IVW	28	0.015	0.038	0.695	1.015	0.943	1.092
		Simple mode	28	0.036	0.085	0.677	1.037	0.877	1.225
		Weighted mode	28	0.003	0.055	0.964	1.003	0.901	1.116
		MR Egger	28	-0.005	0.047	0.918	0.995	0.908	1.090
ebi-a- GCST010783		Weighted median	28	-0.001	0.041	0.988	0.999	0.922	1.083
		IVW	28	0.023	0.029	0.419	1.023	0.968	1.082
		Simple mode	28	0.018	0.064	0.782	1.018	0.898	1.155
		Weighted mode	28	0.009	0.039	0.818	1.009	0.935	1.089

COVID-19: Corona Virus Disease 2019; GWAS ID: Genome wide association study identity. IVW: Inverse

variance weighted. Beta: the regression coefficient based on the vitamin C raising effect allele. nsnp: the number of single-nucleotide polymorphism. SE: standard error. $p < 0.05$ represents the causal association of IL-1A, IL-1B, IL-1R1, IL-1Ra, and IL-1Racp levels with COVID-19. OR: Odds ratio. OR_lci95: Lower limit of 95% confidence interval for OR. OR_uci95: Upper limit of 95% confidence interval for OR.