

Supplementary Table 2

Association results for the 67 SNPs which surpassed $P < 1 \times 10^{-4}$ at the discovery stage and brought forward to the validation stage (see **Supplementary table 1** for patient collections in the validation stage).

CHR	SNP	BP	A1	F_A	F_U	A2	OR _{GWAS}	P _{GWAS}	OR _{Val}	P _{Val}	OR _{GWAS+Val}	P _{GWAS+Val}
1	rs203745	231441424	G	0.06739	0.0973	A	0.68	6.62E-05	1.14	0.23	0.87	0.063
2	rs6759998	8537949	G	0.2642	0.2155	A	1.26	3.72E-05	0.96	0.34	1.04	0.25
2	rs750764	220781006	A	0.5232	0.4701	G	1.24	9.15E-05	0.99	0.84	1.07	0.041
3	rs2043663	87038154	G	0.3231	0.271	A	1.24	3.66E-05	1.03	0.56	1.10	0.011
3	rs2575775	87042798	A	0.312	0.2603	G	1.23	3.47E-05	1.00	0.94	1.08	0.043
3	rs17434624	104017741	G	0.1823	0.2306	A	0.75	3.07E-05	0.96	0.41	0.90	0.0033
3	rs2895281	104019345	A	0.1819	0.2294	C	0.75	4.25E-05	0.98	0.70	0.91	0.012
3	rs16856870	171794511	G	0.353	0.2953	A	1.28	5.86E-05	1.00	1.00	1.14	0.0035
3	rs7620170	171808897	G	0.4184	0.4735	A	0.80	6.53E-05	1.00	0.95	0.92	0.016
3	rs6790174	171872996	C	0.3311	0.2795	A	1.28	5.29E-05	1.01	0.82	1.10	0.0091
3	rs6770501	184335641	G	0.2675	0.3157	A	0.78	6.13E-05	1.09	0.054	0.97	0.40
3	rs13085530	184337818	A	0.2675	0.3161	G	0.78	5.21E-05	1.08	0.072	0.97	0.36
4	rs2201945	31100499	C	0.4929	0.4419	A	1.22	7.57E-05	0.98	0.56	1.06	0.11
4	rs17689952	166939154	G	0.345	0.3003	A	1.26	9E-05	1.03	0.53	1.12	0.0039
5	rs769714	14046910	G	0.4346	0.3775	A	1.26	6.85E-05	1.06	0.21	1.13	0.00054
5	rs10942747	75216411	A	0.3597	0.415	G	0.79	5.58E-05	0.96	0.32	0.90	0.0015
5	rs10061050	75220355	A	0.3301	0.388	C	0.78	1.51E-05	0.98	0.57	0.90	0.0025
5	rs11957671	138012666	A	0.02662	0.0101	G	2.66	4.37E-05	0.91	0.11	0.97	0.55
5	rs11742397	138031907	A	0.02664	0.0101	G	2.66	4.30E-05	0.92	0.18	0.98	0.75
5	rs1059110	138266546	A	0.02763	0.01179	G	2.25	5.14E-05	0.91	0.063	0.95	0.31
5	rs10057932	138401773	A	0.0354	0.01684	G	2.06	3.33E-05	0.94	0.57	1.13	0.18
6	rs228146	55636255	C	0.3857	0.3305	A	1.25	3.04E-05	0.99	0.77	1.07	0.056
6	rs12207890	80670767	G	0.07451	0.04798	A	1.54	7.05E-05	0.87	0.031	0.99	0.82
6	rs11154801	135739355	A	0.1587	0.218	C	0.67	5.51E-08	1.02	0.67	0.91	0.012
6	rs6908428	135793706	G	0.1534	0.2117	A	0.67	6.47E-08	0.99	0.90	0.89	0.0036
6	rs13208505	135893723	A	0.155	0.2136	C	0.67	5.34E-08	0.99	0.77	0.89	0.0020
6	rs9295405	170704219	C	0.04515	0.06818	A	0.62	9.78E-05	1.03	0.64	0.94	0.26
9	rs10123208	93692988	A	0.1929	0.1519	C	1.35	9.07E-05	0.97	0.61	1.10	0.040
9	rs10761105	93804208	A	0.3683	0.4247	G	0.81	2.74E-05	1.03	0.58	0.94	0.059
9	rs7027785	93824836	G	0.3716	0.4285	A	0.81	2.46E-05	1.00	0.93	0.92	0.026
9	rs10820830	93899625	C	0.2008	0.1592	A	1.35	3.43E-05	1.04	0.42	1.14	0.0020
9	rs511293	136577094	A	0.1149	0.154	G	0.69	1.09E-05	1.05	0.40	0.93	0.11
9	rs10465165	136606230	A	0.1016	0.1311	C	0.74	6.05E-05	1.19	0.042	0.95	0.41
10	rs982015	8819367	C	0.05556	0.03088	A	1.70	1.48E-05	1.06	0.33	1.14	0.021
10	rs420899	8831119	G	0.05593	0.0308	A	1.70	1.03E-05	1.02	0.76	1.11	0.079
10	rs10748533	91763487	A	0.336	0.388	G	0.81	8.32E-05	0.98	0.57	0.91	0.010
10	rs7914961	91776003	G	0.316	0.3698	A	0.80	3.71E-05	1.01	0.84	0.93	0.039
10	rs11185967	91777494	G	0.3495	0.4028	A	0.81	6.48E-05	0.92	0.16	0.86	0.00038
10	rs7095551	99534780	G	0.03844	0.01894	A	2.04	9.03E-05	0.93	0.47	1.12	0.20
11	rs7481525	378188	A	0.408	0.4617	G	0.81	8.26E-05	0.98	0.63	0.92	0.012
11	rs10766036	13119308	G	0.2898	0.2458	A	1.30	4.44E-05	0.99	0.74	1.08	0.040
11	rs4451711	13120950	A	0.3265	0.2769	G	1.29	2.97E-05	0.97	0.51	1.09	0.025

11	rs10766043	13135055	G	0.2015	0.1507	A	1.50	1.11E-07	1.00	0.97	1.10	0.0090
11	rs6416166	15499846	A	0.3793	0.4318	C	0.80	8.42E-05	1.00	0.98	0.93	0.026
11	rs3094392	44063841	A	0.2902	0.2411	C	1.29	9.57E-05	0.93	0.17	1.06	0.17
11	rs11228267	56172900	A	0.0381	0.06271	G	0.57	1.75E-05	1.40	0.023	0.85	0.090
11	rs11215465	98326293	A	0.223	0.2723	C	0.78	3.17E-05	1.04	0.57	0.90	0.025
13	rs9554330	29003444	A	0.1597	0.2003	G	0.75	8.16E-05	0.95	0.36	0.89	0.0034
13	rs17079019	85578989	A	0.1042	0.07323	G	1.48	8.87E-05	1.09	0.37	1.25	0.0012
14	rs17111706	27243073	A	0.1079	0.1445	C	0.75	5.59E-05	1.04	0.46	0.95	0.24
15	rs11070561	47305540	C	0.2709	0.3187	A	0.78	6.38E-05	1.03	0.55	0.94	0.068
15	rs16961587	49052809	G	0.08227	0.1177	A	0.71	1.50E-05	1.02	0.87	0.81	0.0058
15	rs9302144	49059673	A	0.07985	0.1162	G	0.69	7.55E-06	1.06	0.55	0.86	0.023
15	rs443565	62788601	C	0.1262	0.09141	A	1.45	7.47E-05	0.98	0.65	1.07	0.12
15	rs4777505	72668539	A	0.2018	0.1592	G	1.33	6.29E-05	1.07	0.34	1.18	0.0010
15	rs4777581	73320015	A	0.4184	0.487	G	0.77	2.22E-06	1.03	0.51	0.92	0.016
15	rs6495044	73330423	A	0.3096	0.3746	G	0.76	4.29E-06	0.97	0.53	0.89	0.00096
15	rs4886776	74224996	G	0.1015	0.5008	A	0.12	7.37E-137	1.24	0.00019	0.60	9.92E-27
15	rs16968809	77672118	G	0.5007	0.4533	A	1.28	1.92E-05	1.11	0.025	1.18	7.91E-06
16	rs10193	50705747	C	0.1329	0.1724	A	0.74	6.07E-05	1.06	0.50	0.88	0.025
16	rs10459815	50718801	A	0.1354	0.1734	G	0.75	6.5E-05	1.06	0.48	0.88	0.025
16	rs12924101	89862906	C	0.04717	0.07365	A	0.61	2.91E-05	0.89	0.11	0.81	0.00049
19	rs4926244	13374913	G	0.2921	0.2475	A	1.29	5.50E-05	1.17	4.17E-05	1.20	2.45E-08
20	rs6047982	22246450	C	0.3529	0.3008	A	1.24	5.65E-05	0.95	0.22	1.04	0.28
20	rs4810755	46665169	A	0.3922	0.339	G	1.22	6.17E-05	0.99	0.74	1.06	0.10
22	rs10854554	19610682	G	0.09737	0.1317	A	0.72	7.88E-05	1.07	0.19	0.96	0.43
22	rs4821451	36296109	G	0.4606	0.516	A	0.80	9.87E-05	0.97	0.54	0.90	0.0028