Supplementary Table 1. The SNPs information used in PRS.

CHR	BP	Marker Name	A1	A2	Effect	StdErr	*P* value
6	32561656	rs9270599	A	G	0.4356	0.0384	3.936E-28
6	32632213	rs71542462	A	G	0.3758	0.0412	9.334E-19
8	6877468	rs11137085	C	G	0.2849	0.0327	3.002E-17
6	32640693	rs1694127	A	G	-0.4309	0.0524	1.559E-15
6	32577110	rs34328493	A	T	-0.3612	0.0462	3.471E-14
22	30423460	rs12537	T	C	-0.3012	0.0412	1.366E-12
6	33076268	rs742870	T	C	0.2332	0.0334	1.298E-11
6	31346822	rs9266629	T	C	-0.2424	0.0371	2.386E-10
6	29941769	rs437941	A	G	-0.2049	0.0314	2.513E-10
6	32582612	rs3104414	A	G	0.2315	0.036	4.542E-10
17	7459299	rs11078696	T	G	-0.2256	0.0351	4.633E-10
6	32455898	rs564813635	A	G	0.4119	0.0648	7.167E-10
6	32498932	rs546033671	T	G	-0.3945	0.0626	9.996E-10
6	32352616	rs9268465	T	C	-0.1992	0.0322	2.005E-09
8	6820255	rs75098331	T	C	0.2881	0.0483	7.353E-09
6	32594816	rs147599819	G	GGAT	0.2621	0.0446	1.218E-08
16	31377390	rs13332545	T	C	0.2194	0.0374	1.292E-08
6	32645076	rs55673904	T	C	0.223	0.0384	1.803E-08
22	30947033	rs116976860	A	G	-0.4264	0.0736	1.948E-08
6	32594191	rs150777477	T	G	-0.7114	0.1251	3.528E-08
4	40301264	rs11736377	T	C	-0.1844	0.0326	4.165E-08
6	32552664	rs551081202	T	C	-1.1177	0.198	4.436E-08
2	219188838	rs1473901	T	C	0.1441	0.0328	2.052E-05
6	155096462	rs10872710	T	C	0.2256	0.0527	3.323E-05
10	81065201	rs1250558	A	G	-0.1443	0.0325	1.674E-05
11	65559266	rs10791824	A	G	0.1296	0.0314	6.298E-05
22	21982054	rs1811069	T	G	-0.1281	0.033	0.0001677
14	103337253	rs8004192	T	C	-0.1347	0.0314	3.199E-05
16	72079657	rs77303550	T	C	-0.1698	0.0387	2.104E-05
21	29061536	rs80271593	A	C	0.4567	0.0995	8.596E-06

Notes: PRS: polygenic risk score; P value was adjusted by the intercept of LD score regression. The SNPs are from the meta-analysis and the integrative analysis.

Supplementary Table 2. Two missense variants at the significant loci associated with IgAN by GWAS meta-analysis.

Locus	Missense variant	Position	Ref/Alt	Amino Acid	PolyPhen	SIFT	Dataset 1			Dataset 2			Dataset 3			Meta	
							AF	OR (95% CI)	*P* value	AF	OR (95% CI)	*P* value	AF	OR (95% CI)	*P* value	OR (95% CI)	*P* value
ITGAX	rs2230429	16:31374535	C/G	Pro517Arg	0.997	0.003	0.25	1.21 (1.04~1.41)	1.27E-02	0.33	1.21 (1.09~1.33)	1.54E-04	0.33	1.31 (1.14~1.5)	1.15E-04	1.23 (1.15~1.33)	1.33E-08
TNFSF13	rs11552708	17:7462555	G/A	Gly67Arg	0.001	1	0.39	0.86 (0.76~0.98)	2.33E-02	0.32	0.83 (0.76~0.92)	1.36E-04	0.29	0.83 (0.72~0.96)	1.08E-02	0.84 (0.79~0.9)	7.66E-07

Notes: Ref: reference allele. Alt: alternative allele. AF: frequency of the reference allele. Odds ratio (OR) and 95% confidence interval (CI) of the alternative allele. Meta-analysis was based on inverse-variance weighted fixed-effect model. The *P* values of meta-analysis were adjusted by the intercept of LD score regression.

Supplementary Table 3. Associations of 60 established variants in our study.

SNP	Study (PMID)	Author, Year, Journal	Effect_ allele	beta	*P*	Effect	*P* value	gcZ	gcP	Consequence	CHR	Position	Gene
rs2240335	32912934	Ming Li et al, 2020, J Am Soc Nephrol	A	0.10436	5.10E-09	0.0882	0.004716	2.741	0.006133	exonic	1	17674537	PADI4
rs17019602	25305756	Kiryluk et al, 2014, Nat Genet	G	0.157004	6.80E-09	0.1003	0.009784	-2.506	0.01221	intronic	1	108188858	VAV3
rs849815	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.131028	3.90E-09	0.0895	0.01483	2.364	0.01807	intergenic	1	157542162	FCRL5(dist=19857),FCRL4(dist=1376)
rs6427389	32912934	Ming Li et al, 2020, J Am Soc Nephrol	C	0.122218	8.18E-09	0.1783	3.15E-06	-4.525	6.04E-06	intergenic	1	157632011	FCRL4(dist=64136),FCRL3(dist=14260)
rs4916312	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.131028	5.00E-08	0.0611	0.2412	1.135	0.2565	intergenic	1	173146357	TNFSF18(dist=126254),TNFSF4(dist=6513)
rs12029571	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.113329	2.50E-06	0.0932	0.007707	2.582	0.009836	intergenic	1	196603302	KCNT2(dist=25732),CFH(dist=17706)
rs3766404	21399633	Kiryluk et al, 2011, Nat Genet	C	-0.261365	4.24E-05	-0.1368	0.02206	2.221	0.02632	intronic	1	196651832	CFH
rs6677604	37337107	Ali G Gharavi et al, 2023, Nat Genet	G	0.19062	1.50E-17	0.254	0.0002781	-3.523	0.000427	intronic	1	196686918	CFH
rs842638	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.157004	9.60E-10	0.1081	0.02991	2.104	0.03534	ncRNA_intronic	2	61092678	LINC01185
rs3769684	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.173953	5.10E-11	0.0758	0.0157	2.34	0.01927	intronic	2	204584759	CD28
rs7634389	26028593	Ming Li et al, 2015, Nat Commun	C	0.122218	7.27E-10	0.1173	0.0002019	-3.61	0.0003061	intronic	3	186738421	ST6GAL1
rs6828610	37337107	Ali G Gharavi et al, 2023, Nat Genet	G	0.131028	3.50E-08	0.1174	0.0005483	-3.347	0.0008155	intergenic	4	74725320	PF4V1(dist=5120),CXCL1(dist=9790)
rs12201499	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.165514	3.10E-11	0.1779	2.86E-06	-4.539	5.66E-06	intergenic	6	249571	LOC285766(dist=44087),DUSP22(dist=42486)
rs6942325	32912934	Ming Li et al, 2020, J Am Soc Nephrol	G	0.157004	1.62E-11	0.1817	1.81E-06	-4.623	3.78E-06	intergenic	6	249714	LOC285766(dist=44230),DUSP22(dist=42343)
rs12530084	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.122218	1.30E-09	0.0553	0.07725	-1.713	0.08675	intronic	6	7214676	RREB1
rs2523946	22197929	Xue-Qing Yu et al, 2011, Nat Genet	C	0.19062	1.74E-11	0.2027	9.96E-11	-6.278	3.42E-10	upstream	6	29941943	HCG9(dist=949)
rs9268557	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.215111	4.50E-47	0.1856	3.19E-09	-5.749	9.00E-09	intergenic	6	32389305	TSBP1-AS1(dist=13799),HLA-DRA(dist=18359)
rs7763262	25305756	Kiryluk et al, 2014, Nat Genet	C	0.34359	1.80E-38	0.2663	2.86E-13	-7.073	1.52E-12	intergenic	6	32424882	HLA-DRA(dist=12059),HLA-DRB5(dist=60248)
rs660895	22197929	Xue-Qing Yu et al, 2011, Nat Genet	G	0.29267	4.13E-20	0.2741	4.37E-15	-7.614	2.66E-14	intergenic	6	32577380	HLA-DRB1(dist=19767),HLA-DQA1(dist=27803)
rs9272105	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.223144	1.20E-28	0.2055	1.13E-08	5.534	3.13E-08	intergenic	6	32599999	HLA-DRB1(dist=42386),HLA-DQA1(dist=5184)
rs9275224	25305756	Kiryluk et al, 2014, Nat Genet	G	0.307485	5.90E-30	0.2107	3.65E-09	-5.722	1.05E-08	intergenic	6	32659878	HLA-DQB1(dist=25444),HLA-DQA2(dist=49290)
rs9275355	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.231112	1.70E-34	0.304	2.53E-18	-8.469	2.48E-17	intergenic	6	32667829	HLA-DQB1(dist=33395),HLA-DQA2(dist=41339)
rs2856717	25305756	Kiryluk et al, 2014, Nat Genet	G	0.239017	1.10E-15	0.1488	0.0006742	-3.294	0.0009894	intergenic	6	32670308	HLA-DQB1(dist=35874),HLA-DQA2(dist=38860)
rs1794275	22197929	Xue-Qing Yu et al, 2011, Nat Genet	A	0.262364	3.43E-13	0.3475	1.01E-16	8.04	8.96E-16	intergenic	6	32671248	HLA-DQB1(dist=36814),HLA-DQA2(dist=37920)
rs9275596	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.285179	3.20E-36	0.3712	7.11E-13	6.961	3.39E-12	intergenic	6	32681631	HLA-DQB1(dist=47197),HLA-DQA2(dist=27537)
rs9357155	21399633	Kiryluk et al, 2011, Nat Genet	A	-0.34249	2.11E-12	-0.2244	1.88E-07	-5.048	4.48E-07	intronic	6	32809848	PSMB8
rs2071543	25305756	Kiryluk et al, 2014, Nat Genet	G	0.139762	1.50E-04	0.2156	2.48E-07	-5	5.72E-07	exonic	6	32811629	PSMB8
rs3128927	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.198851	1.50E-25	0.124	0.001358	-3.106	0.001895	intergenic	6	33074288	HLA-DPB1(dist=16815),HLA-DPB2(dist=6005)
rs1883414	25305756	Kiryluk et al, 2014, Nat Genet	G	0.198851	1.50E-11	0.1378	0.0005496	-3.348	0.0008135	ncRNA_intronic	6	33086448	HLA-DPB2
rs2282859	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.182322	3.90E-08	0.0607	0.1452	-1.411	0.1582	intronic	6	167445139	FGFR1OP
rs3129269	21399633	Kiryluk et al, 2011, Nat Genet	T	-0.235722	8.54E-09	-0.1426	0.0001286	-3.716	0.0002022	downstream	6	33097614	HLA-DPB2(dist=724)
rs2738048	25305756	Kiryluk et al, 2014, Nat Genet	T	0.0953102	1.60E-04	0.2584	3.95E-14	7.325	2.39E-13	intergenic	8	6822785	DEFA9P(dist=5102),DEFA10P(dist=2878)
rs9314614	26028593	Ming Li et al, 2015, Nat Commun	C	0.131028	9.48E-10	0.1367	3.24E-05	4.028	5.62E-05	ncRNA_intronic	8	6697731	GS1-24F4.2
rs2075836	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.19062	5.80E-11	0.252	2.38E-12	6.786	1.15E-11	ncRNA_intronic	8	6808722	DEFA8P
rs2738058	26028593	Ming Li et al, 2015, Nat Commun	T	0.239017	2.31E-27	0.279	2.68E-16	7.932	2.16E-15	intergenic	8	6821617	DEFA9P(dist=3934),DEFA10P(dist=4046)
rs12716641	26028593	Ming Li et al, 2015, Nat Commun	T	0.207014	1.13E-18	0.2068	2.91E-08	5.375	7.66E-08	intergenic	8	6898998	DEFA11P(dist=11987),DEFA5(dist=13828)
rs10086568	25305756	Kiryluk et al, 2014, Nat Genet	A	0.14842	1.00E-09	0.1735	4.93E-07	4.875	1.09E-06	intergenic	8	6900336	DEFA11P(dist=13325),DEFA5(dist=12490)
rs75413466	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.336472	1.40E-10	0.1359	0.05308	1.874	0.06092	intronic	8	56852496	LYN
rs2033562	26028593	Ming Li et al, 2015, Nat Commun	C	0.122218	1.41E-09	0.1188	0.0001275	3.715	0.000203	intergenic	8	103547739	UBR5(dist=122811),ODF1(dist=16078)
rs34354351	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.139762	3.50E-08	0.0395	0.2492	1.116	0.2642	intergenic	8	124765474	ANXA13(dist=15841),FAM91A1(dist=15205)
rs13300483	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.122218	1.30E-08	0.0517	0.1751	1.312	0.1895	intergenic	9	117643362	TNFSF15(dist=75043),TNFSF8(dist=12261)
rs4077515	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.131028	2.60E-11	0.0688	0.03956	1.997	0.04583	exonic	9	139266496	CARD9
rs57917667	37337107	Ali G Gharavi et al, 2023, Nat Genet	G	0.198851	1.10E-08	0.061	0.1218	-1.501	0.1334	intronic	10	65363048	REEP3
rs1108618	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.131028	1.90E-10	0.1061	0.001124	3.155	0.001604	intronic	10	81043743	ZMIZ1
rs2074038	26028593	Ming Li et al, 2015, Nat Commun	T	0.131028	3.93E-09	0.1157	0.0005915	3.328	0.0008735	5’UTR	11	44087989	ACCS(NM_032592:c.-11890>0)
rs10896045	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.165514	4.70E-13	0.1228	8.67E-05	3.804	0.0001427	intronic	11	65555524	OVOL1
rs7121743	37337107	Ali G Gharavi et al, 2023, Nat Genet	C	0.122218	3.40E-08	0.065	0.03639	-2.026	0.04274	intergenic	11	128487069	ETS1(dist=29616),LOC101929538(dist=64066)
rs11150612	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.14842	8.40E-14	0.1938	1.39E-08	5.51	3.59E-08	intergenic	16	31357760	ITGAM(dist=13562),ITGAX(dist=8737)
rs7190997	26028593	Ming Li et al, 2015, Nat Commun	C	0.198851	2.26E-19	0.2017	1.83E-08	-5.462	4.71E-08	intronic	16	31368178	ITGAX
rs1879210	37337107	Ali G Gharavi et al, 2023, Nat Genet	T	0.131028	9.90E-09	0.042	0.393	0.8276	0.4079	intergenic	16	86017715	IRF8(dist=61500),LINC01082(dist=212072)
rs3803800	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.139762	1.20E-10	0.192	2.57E-09	5.781	7.44E-09	exonic	17	7462969	TNFSF12-TNFSF13,TNFSF13
rs4227	22197929	Xue-Qing Yu et al, 2011, Nat Genet	G	0.207014	4.31E-10	0.1609	9.10E-06	-4.297	1.73E-05	3’UTR	17	7491177	MPDU1(NM_001330073:c.*4150>0,NM_004870:c.*3080>0)
rs57382045	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.14842	3.40E-09	0.1131	5.00E-04	3.374	0.0007416	intronic	17	16851450	TNFRSF13B
rs1865097	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.113329	7.70E-09	0.0985	0.01056	2.48	0.01313	intronic	19	55397217	FCAR
rs12537	22197929	Xue-Qing Yu et al, 2011, Nat Genet	T	-0.248461	1.17E-11	-0.3012	2.68E-13	-7.087	1.37E-12	ncRNA_intronic	22	30423460	HORMAD2-AS1
rs2412971	25305756	Kiryluk et al, 2014, Nat Genet	G	0.182322	4.80E-12	0.2458	9.08E-13	-6.927	4.29E-12	intronic	22	30494371	HORMAD2
rs4823074	37337107	Ali G Gharavi et al, 2023, Nat Genet	G	0.14842	7.80E-15	0.2498	5.83E-13	-6.979	2.97E-12	intronic	22	30512478	HORMAD2
rs2412973	21399633	Kiryluk et al, 2011, Nat Genet	A	-0.223144	4.46E-09	-0.2423	1.46E-12	-6.868	6.49E-12	intronic	22	30529631	HORMAD2
rs751081288	37337107	Ali G Gharavi et al, 2023, Nat Genet	A	0.157004	1.90E-08	-	-	-	-	-	-	-	-
rs11574637	25305756	Kiryluk et al, 2014, Nat Genet	T	0.277632	8.10E-13	-	-	-	-	-	-	-	-

Notes: gcZ, genomic control Z. gcZ was adjusted by the intercept of LDSC; gcP, genomic control P. gcP was calculated by adjusting gcZ values.

Supplementary Table 4. Clinical characteristics of the IgAN patients.

Sample	Clinical characteristics
Age, median (IQR)	33 (26, 40)
Male (n, %)	1018 (45.2%)
Hypertension (n, %)	693 (31.6%)
Repeated GrossHematuria (n, %)	234 (10.4%)
IgA(g/L), median (IQR)	2.85 (2.24, 3.52)
C3(g/L), median (IQR)	0.97 (0.85, 1.11)
Serum creatinine (μmol/l), median (IQR)	86.00 (65.00, 128.00)
eGFR, median (IQR)	82.27 (51.10, 107.89)
Proteinuria	
≤ 1 g/24h	1186 (58.6%)
1~3.5 g/24h	634 (31.3%)
≥ 3.5 g/24h	205 (10.1%)
CKD stage(no.)	
CKD stage 1 (n, %)	921 (42.7%)
CKD stage 2 (n, %)	583 (27.0%)
CKD stage 3 (n, %)	407 (18.9%)
CKD stage 4 (n, %)	175 (8.1%)
CKD stage 5 (n, %)	71 (3.3%)
Mesangial hypercellularity (M1) (n, %)	1088 (62.4%)
Endocapillary hypercellularity (E1) (n, %)	285 (19.0%)
Segmental glomerulosclerosis (S1) (n, %)	801 (46.8%)
Tubular atrophy/Interstitial fibrosis	
T0 (n, %)	1163 (67.7%)
T1 (n, %)	433 (25.2%)
T2 (n, %)	123 (7.2%)
Crescent formation	
C0 (n, %)	568 (58.1%)
C1 (n, %)	356 (36.4%)
C2 (n, %)	54 (5.5%)

Supplementary Table 5. Genotype-phenotype association in IgAN cases. The IgAN susceptibility SNPs were tested for associations with clinical features of disease severity at the time of kidney biopsy. The association analysis was performed using the logistic regression for binary and ordinal variables and linear regression for quantitative traits under additive model with adjustment for age and gender. Suggestive associations at nominal $P < 0.05$ were highlighted in yellow.

SNP_effect allele	Gene	Hypertension		Repeated Gross Hematuria		CKD stage		Mesangial hypercellularity		Endocapillary hypercellularity		Segmental glomerulosclerosis		Tubular atrophy/Interstitial fibrosis		Crescent		Proteinuria		IgA (g/L)		C3 (g/L)		SCr (umol/L)		eGFR	
		OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*
rs1473901_C	*PNKD*	0.973 (0.849~1.117)	0.703	0.915 (0.748~1.119)	0.388	1.014 (0.903~1.138)	0.812	1.063 (0.921~1.226)	0.402	1.064 (0.881~1.284)	0.514	0.92 (0.801~1.058)	0.246	1.028 (0.888~1.191)	0.71	0.87 (0.718~1.055)	0.155	1.061 (0.936~1.203)	0.358	-0.028 (-0.052~-0.004)	0.017	-0.014 (-0.032~0.004)	0.101	0.013 (-0.02~0.046)	0.467	-0.019 (-0.06~0.022)	0.367
rs11736377_C	*LOC101060498*	0.93 (0.812~1.064)	0.287	0.971 (0.799~1.182)	0.771	1.017 (0.91~1.137)	0.764	1.112 (0.965~1.28)	0.138	1.021 (0.848~1.23)	0.822	0.959 (0.836~1.1)	0.549	0.998 (0.865~1.152)	0.978	1.191 (0.997~1.424)	0.054	0.933 (0.825~1.056)	0.273	-0.008 (-0.032~0.016)	0.502	0.006 (-0.012~0.024)	0.46	-0.006 (-0.039~0.027)	0.7	0.013 (-0.028~0.054)	0.541
rs10872710_T	*SCAF8*	0.843 (0.674~1.054)	0.133	0.88 (0.632~1.225)	0.45	0.913 (0.759~1.098)	0.333	0.909 (0.726~1.139)	0.407	0.969 (0.715~1.314)	0.843	0.893 (0.717~1.112)	0.315	0.898 (0.709~1.136)	0.368	0.947 (0.712~1.261)	0.709	1.004 (0.824~1.224)	0.967	-0.025 (-0.062~0.012)	0.186	0.005 (-0.022~0.032)	0.728	-0.028 (-0.081~0.025)	0.315	0.044 (-0.023~0.111)	0.192
rs8004192_C	*TRAF3*	1.111 (0.972~1.269)	0.12	1.05 (0.865~1.275)	0.621	1.105 (0.99~1.233)	0.075	1.048 (0.914~1.202)	0.505	1.151 (0.96~1.382)	0.129	1.097 (0.959~1.256)	0.175	1.101 (0.956~1.268)	0.184	1.142 (0.956~1.365)	0.144	0.971 (0.86~1.097)	0.642	0.008 (-0.014~0.03)	0.456	-0.003 (-0.021~0.015)	0.719	0.012 (-0.021~0.045)	0.471	-0.015 (-0.054~0.024)	0.467
rs77303550_T	*TXNL4B*	1.013 (0.871~1.178)	0.869	1.053 (0.847~1.309)	0.64	0.949 (0.836~1.078)	0.427	0.922 (0.79~1.077)	0.305	0.979 (0.796~1.205)	0.842	1.084 (0.931~1.263)	0.301	1.028 (0.876~1.208)	0.734	0.888 (0.724~1.089)	0.252	0.864 (0.75~0.995)	0.043	-0.008 (-0.033~0.017)	0.508	0 (-0.02~0.02)	0.962	-0.002 (-0.039~0.035)	0.908	-0.001 (-0.046~0.044)	0.97
rs80271593_A	*LINC00113*	1.153 (0.799~1.663)	0.447	1.354 (0.825~2.223)	0.231	0.901 (0.661~1.228)	0.509	0.986 (0.662~1.468)	0.943	1.53 (0.956~2.448)	0.076	0.98 (0.668~1.439)	0.917	0.905 (0.601~1.363)	0.633	0.97 (0.588~1.603)	0.906	1.302 (0.933~1.817)	0.12	0.039 (-0.024~0.102)	0.219	0.036 (-0.011~0.083)	0.131	-0.037 (-0.129~0.055)	0.426	0.021 (-0.093~0.135)	0.713
rs1811069_T	*UBE2L3*	0.9 (0.786~1.031)	0.127	1.043 (0.857~1.269)	0.673	0.989 (0.885~1.106)	0.847	0.889 (0.773~1.021)	0.097	0.984 (0.819~1.183)	0.862	0.953 (0.831~1.093)	0.493	0.955 (0.826~1.104)	0.531	0.914 (0.762~1.097)	0.33	0.946 (0.837~1.071)	0.388	-0.001 (-0.023~0.021)	0.911	-0.005 (-0.023~0.013)	0.581	-0.013 (-0.046~0.02)	0.432	0.007 (-0.034~0.048)	0.754

Supplementary Table 6. Genotype-phenotype association between the PRS and disease severity in IgAN cases. The association analysis was performed using the linear regression for quantitative traits with adjustment for age and gender. Suggestive associations at nominal $P < 0.05$ were highlighted in yellow.

	Hypertension		Repeated Gross Hematuria		CKD stage		Mesangial hypercellularity		Endocapillary hypercellularity		Segmental glomerulosclerosis		Tubular atrophy/Interstitial fibrosis		Crescent		Proteinuria		IgA (g/L)		C3 (g/L)		SCr (umol/L)		eGFR	
	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	OR (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*	Beta (95% CI)	*P*
The PRS	-0.028 (-0.030~0.006)	0.181	0.002 (-0.010~0.014)	0.727	0.039 (-0.004~0.0081)	0.076	0.046 (0.024~-0.068)	5.20E-05	-0.014 (-0.032~0.005)	0.157	0.024 (0.001~0.047)	0.039	0.016 (-0.012-0.045)	0.255	-0.023 (-0.076~0.030)	0.394	0.099 (0.022~-0.176)	0.012	0.020 (-0.026-0.065)	0.396	-0.014 (-0.026~-0.001)	0.029	1.470 (-3.855~6.795)	0.588	-1.778 (-3.396~-0.161)	0.031

Supplementary Table 7. Associations between seven novel loci and the prognosis of IgAN. Cox proportional hazards model was adjusted for age at diagnosis, gender, hypertension, proteinuria, and eGFR.

SNP_effect allele	Gene	HR (95% CI)	*P*	Adjusted HR (95% CI)	Adjusted *P*
rs1473901_C	*PNKD*	1.046 (0.75~1.458)	0.793	1.192 (0.849~1.674)	0.311
rs11736377_C	*LOC101060498*	1.076 (0.766~1.51)	0.673	1.404 (0.98~2.011)	0.064
rs10872710_T	*SCAF8*	1.136 (0.667~1.934)	0.64	1.395 (0.834~2.332)	0.204
rs8004192_C	*TRAF3*	1.036 (0.754~1.425)	0.826	1.058 (0.758~1.475)	0.741
rs77303550_T	*TXNL4B*	1.085 (0.748~1.574)	0.667	0.947 (0.637~1.409)	0.790
rs80271593_A	*LINC00113*	1.308 (0.575~2.978)	0.522	0.921 (0.428~1.982)	0.833
rs1811069_T	*UBE2L3*	1.234 (0.876~1.738)	0.229	1.406 (0.997~1.984)	0.052

Supplementary Table 8. Association between the PRS and the prognosis of IgAN. Cox proportional hazards model was adjusted for age at diagnosis, gender, hypertension, proteinuria, and eGFR.

	HR (95% CI)	*P*	Adjusted HR (95% CI)	Adjusted *P*
The PRS	0.885 (0.732~1.069)	0.204	0.784 (0.649~0.945)	0.011

Supplementary Table 9. Significant eQTLs effects for lead SNPs in the novel loci based on GTEx (v8) data.

Lead SNP in the novel loci	Tissue	*P* value	Gene
rs1473901	Skin - Sun Exposed (Lower leg)	2.30E-66	*PNKD*
	Skin - Not Sun Exposed (Suprapubic)	6.10E-44	*PNKD*
	Thyroid	8.90E-31	*PNKD*
	Whole Blood	1.60E-25	*PNKD*
	Adrenal Gland	1.30E-20	*PNKD*
	Testis	4.60E-20	*PNKD*
	Pituitary	6.60E-16	*PNKD*
	Adipose - Visceral (Omentum)	7.00E-12	*PNKD*
	Spleen	2.30E-11	*PNKD*
	Heart - Atrial Appendage	2.40E-11	*PNKD*
	Adipose - Subcutaneous	1.10E-10	*PNKD*
	Lung	2.90E-08	*PNKD*
	Brain - Caudate (basal ganglia)	3.20E-08	*PNKD*
	Brain - Nucleus accumbens (basal ganglia)	5.10E-07	*PNKD*
	Liver	0.0000072	*PNKD*
	Brain - Putamen (basal ganglia)	0.000012	*PNKD*
	Artery - Aorta	0.000012	*PNKD*
	Cells - Cultured fibroblasts	0.000077	*PNKD*
rs1811069	Whole Blood	5.40E-24	*UBE2L3*
	Muscle - Skeletal	1.30E-13	*UBE2L3*
	Esophagus - Mucosa	2.50E-09	*UBE2L3*
	Esophagus - Muscularis	3.60E-09	*UBE2L3*
	Nerve - Tibial	5.30E-08	*UBE2L3*
	Testis	7.40E-08	*UBE2L3*
	Esophagus - Gastroesophageal Junction	6.90E-07	*UBE2L3*
	Skin - Sun Exposed (Lower leg)	0.0000015	*UBE2L3*
	Artery - Tibial	0.000046	*UBE2L3*
	Adipose - Subcutaneous	0.00011	*UBE2L3*
rs8004192	Esophagus - Mucosa	6.50E-08	*TRAF3*
	Brain - Hypothalamus	6.70E-08	*TRAF3*
	Brain - Cortex	2.70E-07	*TRAF3*
	Thyroid	0.0000038	*TRAF3*
	Brain - Spinal cord (cervical c-1)	0.0000092	*TRAF3*
rs77303550	Cells - Cultured fibroblasts	0.00039	*TXNL4B*

Supplementary Table 10. Functional annotation of seven significant loci by CADD, RegulomeDB and chromatin looping database.

SNP	CADD score	Regulome DB score	RegulomeDB rank	ChromLoops
rs11736377	2.279	0.000	6	Loop SNP result - ChromLoops (hzau.edu.cn)
rs1473901	15.030	0.762	2b	Loop SNP result - ChromLoops (hzau.edu.cn)
rs1811069	1.930	0.590	5	
rs10872710	0.154	0.590	5	
rs77303550	0.320	0.520	3a	
rs80271593	2.631	0.133	5	
rs8004192	0.125	0.609	4	

Supplementary Table 11. Functional annotation of the variants that are highly correlated ($r^2 > 0.7$) with the seven lead SNPs and nominally significant ($P < 0.05$) at each novel locus based on FUMA data.

rsID	chr	pos	non_effect_allele	effect_allele	MAF	gwasP	r^2	IndSigSNP	Genomic Locus	nearest Gene	dist	func	CADD	RDB	posMapFilt	eqtlMapFilt	ciMapFilt
rs6736362	2	219115108	C	T	0.4125	7.83E-05	0.735398	rs1473901	1	ARPC2	0	intronic	0.207	7	1	1	0
rs736730	2	219120255	C	T	0.4125	5.82E-05	0.735398	rs1473901	1	RP11-378A13.1	0	ncRNA_exonic	1.992	1d	1	1	0
rs736731	2	219120588	G	A	0.4125	0.000108	0.735398	rs1473901	1	RP11-378A13.1	0	ncRNA_exonic	0.251	NA	1	1	0
rs12999734	2	219121528	G	A	0.4125	0.000108	0.735398	rs1473901	1	RP11-378A13.1	0	ncRNA_exonic	0.818	5	1	1	0
rs10932766	2	219122090	G	A	0.4125	8.98E-05	0.735398	rs1473901	1	RP11-378A13.1	2	downstream	5.58	2b	1	1	0
rs3731859	2	219124222	G	A	0.4125	7.54E-05	0.735398	rs1473901	1	GPBAR1	0	5'UTR	0.039	4	1	1	0
rs13003334	2	219124921	T	A	0.4125	7.09E-05	0.735398	rs1473901	1	GPBAR1	0	intronic	3.676	5	1	1	0
rs11554825	2	219125809	C	T	0.4125	7.93E-05	0.735398	rs1473901	1	GPBAR1	0	5'UTR	3.723	4	1	1	0
rs13419763	2	219134950	C	T	0.4165	2.36E-05	0.728893	rs1473901	1	AAMP	0	5'UTR	5.706	4	1	1	0
rs10716631	2	219138170	G	T	0.4195	6.70E-05	0.720117	rs1473901	1	PNKD	0	intronic	2.998	6	1	0	0
rs4791	2	219138940	C	T	0.4185	5.83E-05	0.724287	rs1473901	1	PNKD:TMBIM1	0:00	3'UTR	16.66	6	1	1	0
rs4674280	2	219141458	G	C	0.4165	4.97E-05	0.716695	rs1473901	1	PNKD:TMBIM1	0:00	intronic	0.245	5	1	1	0
rs2168704	2	219142492	G	A	0.4165	6.69E-05	0.729818	rs1473901	1	PNKD:TMBIM1	0:00	intronic	3.129	7	1	1	0
rs13429408	2	219142860	C	A	0.4165	6.93E-05	0.729818	rs1473901	1	PNKD:TMBIM1	0:00	intronic	2.127	5	1	1	0
rs2292553	2	219146803	G	A	0.4165	6.13E-05	0.729818	rs1473901	1	PNKD:TMBIM1	0:00	exonic	13.62	5	1	1	0
rs62182826	2	219148723	C	A	0.4175	5.68E-05	0.727516	rs1473901	1	PNKD:TMBIM1	0:00	intronic	1.211	7	1	1	0
rs55827343	2	219149728	G	A	0.4145	5.75E-05	0.728821	rs1473901	1	PNKD:TMBIM1	0:00	intronic	0.013	7	1	1	0
rs56109829	2	219149740	G	A	0.4145	5.75E-05	0.728821	rs1473901	1	PNKD:TMBIM1	0:00	intronic	0.408	7	1	1	0
rs992157	2	219154781	G	A	0.4165	4.69E-05	0.729818	rs1473901	1	PNKD:TMBIM1	0:00	5'UTR	7.302	1f	1	1	0
rs56344368	2	219160749	C	T	0.4195	2.87E-05	0.773658	rs1473901	1	PNKD	0	intronic	4.029	7	1	1	0
rs13427681	2	219167563	G	C	0.4195	3.14E-05	0.773658	rs1473901	1	PNKD	0	intronic	3.604	7	1	1	0
rs1877712	2	219168432	G	A	0.4195	3.06E-05	0.773658	rs1473901	1	PNKD	0	intronic	11.98	NA	1	1	0
rs4672884	2	219182481	G	A	0.3887	2.69E-05	0.973251	rs1473901	1	PNKD	0	intronic	0.37	5	1	1	0
rs13399246	2	219184167	C	T	0.34	3.64E-05	0.802637	rs1473901	1	PNKD	0	intronic	2.898	7	1	1	0
rs13424679	2	219184199	G	A	0.34	3.64E-05	0.802637	rs1473901	1	PNKD	0	intronic	0.688	6	1	1	0
rs2382825	2	219184275	C	T	0.34	3.64E-05	0.802637	rs1473901	1	PNKD	0	intronic	1.7	7	1	1	0
rs2382826	2	219184288	G	A	0.34	3.74E-05	0.802637	rs1473901	1	PNKD	0	intronic	0.112	7	1	1	0
rs2891075	2	219184301	G	A	0.34	3.74E-05	0.802637	rs1473901	1	PNKD	0	intronic	0.99	7	1	1	0
rs2382827	2	219184387	G	A	0.34	3.83E-05	0.802637	rs1473901	1	PNKD	0	intronic	0.012	7	1	1	0
rs2891076	2	219184398	C	T	0.34	3.74E-05	0.802637	rs1473901	1	PNKD	0	intronic	1.852	7	1	1	0
rs2891077	2	219184430	C	A	0.338	5.02E-05	0.797232	rs1473901	1	PNKD	0	intronic	8.533	7	1	1	0
rs2891078	2	219184432	C	T	0.338	5.02E-05	0.797232	rs1473901	1	PNKD	0	intronic	7.824	7	1	1	0
rs13020391	2	219184436	C	T	0.337	4.16E-05	0.787572	rs1473901	1	PNKD	0	intronic	7.183	7	1	1	0
rs2382828	2	219184492	G	A	0.34	3.64E-05	0.802637	rs1473901	1	PNKD	0	intronic	6.62	7	1	1	0
rs2382829	2	219184617	G	A	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	4.242	5	1	1	0
rs2891079	2	219184691	G	A	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	5.972	5	1	1	0
rs4280446	2	219184721	C	T	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	6.435	5	1	1	0
rs4552182	2	219184872	G	T	0.341	3.77E-05	0.805372	rs1473901	1	PNKD	0	intronic	3.788	5	1	1	0
rs4423579	2	219185033	G	T	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	4.069	5	1	1	0
rs2015863	2	219185161	C	T	0.34	3.21E-05	0.795595	rs1473901	1	PNKD	0	intronic	0.805	NA	1	1	0
rs4672886	2	219185545	G	A	0.341	3.77E-05	0.805372	rs1473901	1	PNKD	0	intronic	4.984	1f	1	1	0
rs57851860	2	219186462	C	T	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	3.551	6	1	1	0
rs62183964	2	219186592	G	A	0.341	3.64E-05	0.805372	rs1473901	1	PNKD	0	intronic	1.651	7	1	1	0
rs10203039	2	219187367	C	T	0.3907	3.42E-05	0.988513	rs1473901	1	PNKD	0	intronic	8.19	2b	1	1	0
rs10193189	2	219187603	C	A	0.34	4.29E-05	0.802637	rs1473901	1	PNKD	0	intronic	9.305	2b	1	1	0
rs1870123	2	219187698	G	A	0.341	4.88E-05	0.805372	rs1473901	1	PNKD	0	intronic	7.876	2b	1	1	0
rs1870124	2	219187740	C	T	0.341	3.00E-05	0.805372	rs1473901	1	PNKD	0	intronic	8.761	4	1	1	0
rs1870125	2	219187901	C	T	0.3917	2.47E-05	0.992383	rs1473901	1	PNKD	0	5'UTR	10.45	4	1	1	0
rs10194082	2	219188577	C	T	0.3907	2.25E-05	0.99617	rs1473901	1	PNKD	0	intronic	10.51	4	1	1	0
rs62183995	2	219189654	G	A	0.338	1.84E-05	0.803709	rs1473901	1	PNKD	0	intronic	0.203	7	1	1	0
rs3731861	2	219191256	C	T	0.3439	2.60E-05	0.779124	rs1473901	1	PNKD	0	intronic	8.982	5	1	1	0
rs10932774	2	219191569	G	A	0.3429	2.62E-05	0.783365	rs1473901	1	PNKD	0	intronic	8.904	1f	1	1	0
rs897877	2	219192755	G	A	0.3907	1.83E-05	0.965614	rs1473901	1	PNKD:AC021016.8	0:00	ncRNA_intronic	5.192	1f	1	1	0
rs6832151	4	40303633	G	T	0.2773	1.36E-07	0.979138	rs11736377	2	AC195454.1	14868	intergenic	2.962	1f	0	0	0
rs4078470	4	40305745	T	A	0.3121	0.0001697	0.816289	rs11736377	2	AC195454.1	12756	intergenic	0.563	4	0	0	0
rs4379091	4	40306373	G	T	0.2773	9.17E-08	0.968638	rs11736377	2	AC195454.1	12128	intergenic	0.086	NA	0	0	0
rs13136820	4	40307564	C	T	0.336	1.17E-07	0.735448	rs11736377	2	AC195454.1	10937	intergenic	3.997	4	0	0	0
rs7691190	4	40308368	C	T	0.2962	1.23E-07	0.861405	rs11736377	2	AC195454.1	10133	intergenic	1.567	4	0	0	0
rs9371823	6	155028910	C	T	0.499	0.0008859	0.779109	rs10872710	3	RP11-15G8.1	0	ncRNA_exonic	1.223	5	0	0	0
rs7771767	6	155038479	G	A	0.4612	0.0002849	0.742694	rs10872710	3	RP11-15G8.1	9549	intergenic	0.193	5	0	0	0
rs9397740	6	155042501	G	A	0.4702	0.0002745	0.765603	rs10872710	3	SCAF8	11957	intergenic	0.463	5	0	0	0
rs4292533	6	155043595	G	A	0.4712	0.0002799	0.768885	rs10872710	3	SCAF8	10863	intergenic	0.201	7	0	0	0
rs9371349	6	155044633	C	T	0.4702	0.000259	0.764802	rs10872710	3	SCAF8	9825	intergenic	1.017	6	1	0	0
rs9397741	6	155047371	C	T	0.4801	0.0001178	0.823625	rs10872710	3	SCAF8	7087	intergenic	0.284	7	1	0	0
rs6932758	6	155049193	C	T	0.492	0.0001482	0.725719	rs10872710	3	SCAF8	5265	intergenic	6.626	7	1	0	0
rs6932958	6	155049318	T	A	0.494	0.000146	0.712284	rs10872710	3	SCAF8	5140	intergenic	0.508	6	1	0	0
rs3828933	6	155053973	C	T	0.4841	0.0005132	0.70113	rs10872710	3	SCAF8	485	upstream	11.27	NA	1	0	0
rs4452651	6	155055319	G	A	0.4791	0.000111	1	rs10872710	3	SCAF8	0	intronic	13.99	4	1	0	0
rs4385322	6	155055323	C	T	0.4801	9.71E-05	0.996027	rs10872710	3	SCAF8	0	intronic	1.691	4	1	0	0
rs4870311	6	155057120	C	T	0.4791	0.0001015	1	rs10872710	3	SCAF8	0	intronic	2.912	6	1	0	0
rs9384238	6	155057314	C	T	0.4791	0.0001015	1	rs10872710	3	SCAF8	0	intronic	0.677	6	1	0	0
rs6911728	6	155057907	G	T	0.4791	0.0001023	1	rs10872710	3	SCAF8	0	intronic	3.031	5	1	0	0
rs9383723	6	155058707	T	A	0.4791	4.25E-05	1	rs10872710	3	SCAF8	0	intronic	2.584	4	1	0	0
rs7761794	6	155064675	G	A	0.4791	4.54E-05	1	rs10872710	3	SCAF8	0	intronic	2.234	6	1	0	0
rs4869833	6	155065902	C	A	0.4781	4.69E-05	0.996024	rs10872710	3	SCAF8	0	intronic	1.04	7	1	0	0
rs9397744	6	155073206	G	T	0.4503	0.0003178	0.855	rs10872710	3	SCAF8	0	intronic	4.654	3a	1	0	0
rs6906254	6	155074112	G	C	0.4483	0.0003711	0.863756	rs10872710	3	SCAF8	0	intronic	1.305	6	1	0	0
rs4599658	6	155074505	G	T	0.4811	4.54E-05	0.992036	rs10872710	3	SCAF8	0	intronic	3.247	6	1	0	0
rs7742433	6	155076501	C	T	0.4801	4.58E-05	0.99601	rs10872710	3	SCAF8	0	intronic	0.756	6	1	0	0
rs7769286	6	155076623	G	A	0.4483	0.0003473	0.856808	rs10872710	3	SCAF8	0	intronic	3.014	6	1	0	0
rs7752071	6	155076663	G	A	0.4811	3.05E-05	0.992054	rs10872710	3	SCAF8	0	intronic	3.653	6	1	0	0
rs7770922	6	155076853	C	T	0.4801	4.30E-05	0.99601	rs10872710	3	SCAF8	0	intronic	2.23	7	1	0	0
rs9479952	6	155077982	G	A	0.4801	3.05E-05	0.99601	rs10872710	3	SCAF8	0	intronic	0.616	6	1	0	0
rs6557370	6	155081163	C	T	0.4543	6.15E-05	0.882602	rs10872710	3	SCAF8	0	intronic	0.018	7	1	0	0
rs9322476	6	155084269	G	C	0.4831	3.05E-05	0.984156	rs10872710	3	SCAF8	0	intronic	4.309	6	1	0	0
rs9397202	6	155085094	G	A	0.4781	3.05E-05	0.988029	rs10872710	3	SCAF8	0	intronic	2.168	7	1	0	0
rs7744890	6	155087842	T	A	0.4801	3.25E-05	0.99601	rs10872710	3	SCAF8	0	intronic	1.903	4	1	0	0
rs7741102	6	155091344	G	T	0.4771	4.76E-05	0.992049	rs10872710	3	SCAF8	0	intronic	0.781	5	1	0	0
rs9397745	6	155091468	C	T	0.4702	0.0002967	0.965135	rs10872710	3	SCAF8	0	intronic	3.444	5	1	0	0
rs7752180	6	155093458	G	T	0.4443	0.001887	0.858534	rs10872710	3	SCAF8	0	intronic	1.661	6	1	0	0
rs7757635	6	155093771	C	T	0.4473	0.000363	0.868157	rs10872710	3	SCAF8	0	intronic	2.622	6	1	0	0
rs9371826	6	155094053	C	T	0.4791	4.80E-05	1	rs10872710	3	SCAF8	0	intronic	2.745	6	1	0	0
rs7744421	6	155094764	G	A	0.4533	4.12E-05	0.894938	rs10872710	3	SCAF8	0	intronic	5.035	4	1	0	0
rs7762129	6	155094988	G	A	0.4791	3.20E-05	1	rs10872710	3	SCAF8	0	intronic	3.114	3a	1	0	0
rs9479955	6	155098306	G	C	0.4791	0.0001323	1	rs10872710	3	SCAF8	0	intronic	0.952	7	1	0	0
rs3800006	6	155099371	C	T	0.4533	0.0003263	0.894938	rs10872710	3	SCAF8	0	intronic	1.5	NA	1	0	0
rs9384241	6	155105239	C	T	0.4791	0.0001236	1	rs10872710	3	SCAF8	0	intronic	0.444	6	1	0	0
rs9478582	6	155105997	C	T	0.4791	0.0001255	1	rs10872710	3	SCAF8	0	intronic	2.356	6	1	0	0
rs9397747	6	155106151	C	A	0.4463	0.0009426	0.865091	rs10872710	3	SCAF8	0	intronic	5.973	6	1	0	0
rs9322479	6	155109309	G	A	0.4771	0.0001855	0.992049	rs10872710	3	SCAF8	0	intronic	1.696	6	1	0	0
rs9397749	6	155111359	G	T	0.4771	0.0001763	0.992049	rs10872710	3	SCAF8	0	intronic	0.322	5	1	0	0
rs7759275	6	155111723	C	T	0.4771	0.000119	0.992049	rs10872710	3	SCAF8	0	intronic	1.419	7	1	0	0
rs7758477	6	155111924	G	A	0.4513	0.0001283	0.888032	rs10872710	3	SCAF8	0	intronic	1.134	7	1	0	0
rs3800005	6	155113108	C	T	0.4235	0.0008976	0.795501	rs10872710	3	SCAF8	0	intronic	2.683	NA	1	0	0
rs6942226	6	155115151	G	C	0.4771	0.0001761	0.992049	rs10872710	3	SCAF8	0	intronic	1.766	7	1	0	0
rs7745018	6	155117963	G	A	0.4791	0.000119	1	rs10872710	3	SCAF8	0	intronic	2.727	7	1	0	0
rs9479958	6	155118812	G	A	0.5	0.0001418	0.910133	rs10872710	3	SCAF8	0	intronic	3.639	6	1	0	0
rs4870312	6	155120819	T	A	0.4712	0.001343	0.783834	rs10872710	3	SCAF8	0	intronic	0.09	7	1	0	0
rs7740797	6	155121259	G	C	0.497	0.0002266	0.915091	rs10872710	3	SCAF8	0	intronic	1.436	6	1	0	0
rs3757291	6	155124583	G	T	0.4791	0.0004086	1	rs10872710	3	SCAF8	0	intronic	1.336	NA	1	0	0
rs9479959	6	155125353	C	T	0.4791	0.0002121	1	rs10872710	3	SCAF8	0	intronic	0.747	7	1	0	0
rs3800002	6	155127964	G	A	0.4771	0.0002124	0.992049	rs10872710	3	SCAF8	0	intronic	2.457	NA	1	0	0
rs9322480	6	155128332	G	C	0.4533	0.000273	0.894938	rs10872710	3	SCAF8	0	intronic	7.415	6	1	0	0
rs3778509	6	155132313	G	T	0.4791	0.0001451	1	rs10872710	3	SCAF8	0	intronic	0.984	NA	1	0	0
rs2351849	6	155133333	T	A	0.4304	0.002306	0.817783	rs10872710	3	SCAF8	0	intronic	2.351	5	1	0	0
rs9371352	6	155133680	G	C	0.4463	0.001192	0.865091	rs10872710	3	SCAF8	0	intronic	2.596	6	1	0	0
rs3087697	6	155133742	G	C	0.4463	0.001192	0.865091	rs10872710	3	SCAF8	0	intronic	8.565	7	1	0	0
rs4869835	6	155134626	C	T	0.4791	0.0002032	1	rs10872710	3	SCAF8	0	intronic	1.091	7	1	0	0
rs6925900	6	155134995	C	T	0.4791	0.0002032	1	rs10872710	3	SCAF8	0	intronic	1.734	5	1	0	0
rs7763063	6	155136578	G	A	0.4791	0.0001286	1	rs10872710	3	SCAF8	0	intronic	5.077	4	1	0	0
rs2351848	6	155137273	C	T	0.4791	0.0001286	1	rs10872710	3	SCAF8	0	intronic	0.215	NA	1	0	0
rs2351847	6	155138810	G	A	0.4463	0.0007059	0.865091	rs10872710	3	SCAF8	0	intronic	3.203	NA	1	0	0
rs2351845	6	155140291	C	T	0.4861	0.0001565	0.972683	rs10872710	3	SCAF8	0	intronic	2.285	NA	1	0	0
rs12523716	6	155145017	C	T	0.4523	0.0003411	0.891322	rs10872710	3	SCAF8	0	intronic	3.655	3a	1	0	0
rs12202939	6	155147879	G	A	0.4781	0.0003155	0.911107	rs10872710	3	SCAF8	0	intronic	5.214	6	1	0	0
rs10485354	6	155149943	G	A	0.4821	0.0004649	0.926056	rs10872710	3	SCAF8	0	intronic	1.645	6	1	0	0
rs28579437	6	155150348	G	A	0.4821	0.0004649	0.926056	rs10872710	3	SCAF8	0	intronic	6.66	7	1	0	0
rs12194994	6	155150744	G	A	0.4821	0.0004649	0.926056	rs10872710	3	SCAF8	0	intronic	5.229	6	1	0	0
rs911191	6	155152311	G	C	0.4702	0.0004649	0.956986	rs10872710	3	SCAF8	0	intronic	0.71	7	1	0	0
rs9375	6	155155039	C	T	0.4433	0.002636	0.855023	rs10872710	3	SCAF8:TIAM2	0:00	3'UTR	18.77	NA	1	0	0
rs1980602	6	155156221	G	A	0.4771	0.0004946	0.984053	rs10872710	3	TIAM2	0	intronic	5.831	7	1	0	0
rs112687451	6	155157822	G	T	0.4423	0.0004041	0.701881	rs10872710	3	TIAM2	0	intronic	1.362	6	1	0	0
rs9384245	6	155160128	C	T	0.4384	0.003365	0.838187	rs10872710	3	TIAM2	0	intronic	2.154	7	1	0	0
rs12199781	6	155162121	G	T	0.4602	0.0006405	0.799301	rs10872710	3	TIAM2	0	intronic	0.103	7	1	0	0
rs11850030	14	103256199	G	C	0.1899	0.0008117	0.714712	rs8004192	4	TRAF3	0	intronic	0.095	7	1	0	0
rs56101042	14	103256961	G	A	0.1978	0.0007766	0.75948	rs8004192	4	TRAF3	0	intronic	0.012	5	1	0	0
rs72702792	14	103279303	G	A	0.1958	0.0006011	0.760871	rs8004192	4	TRAF3	0	intronic	6.917	6	1	0	0
rs12589771	14	103284276	G	A	0.1958	0.0006011	0.760871	rs8004192	4	TRAF3	0	intronic	1.333	7	1	0	0
rs12433366	14	103288169	G	A	0.1978	0.0005812	0.75948	rs8004192	4	TRAF3	0	intronic	0.488	7	1	0	0
rs7140494	14	103291698	G	A	0.2505	0.0002961	0.868835	rs8004192	4	TRAF3	0	intronic	5.26	3a	1	0	0
rs28483070	14	103292110	C	T	0.2435	0.0001455	0.898027	rs8004192	4	TRAF3	0	intronic	1.566	4	1	0	0
rs56330734	14	103292150	G	A	0.1909	0.0002173	0.749596	rs8004192	4	TRAF3	0	intronic	0.323	4	1	0	0
rs56083744	14	103292191	G	A	0.1909	0.0002173	0.749596	rs8004192	4	TRAF3	0	intronic	9.63	4	1	0	0
rs11846158	14	103292959	G	A	0.2366	0.0003337	0.94166	rs8004192	4	TRAF3	0	intronic	2.204	5	1	0	0
rs7152791	14	103293716	C	T	0.2435	0.0002799	0.898027	rs8004192	4	TRAF3	0	intronic	5.895	5	1	0	0
rs2180393	14	103293845	C	T	0.2316	0.0002935	0.967549	rs8004192	4	TRAF3	0	intronic	0.974	5	1	0	0
rs7156191	14	103297847	G	C	0.1928	0.0003341	0.75887	rs8004192	4	TRAF3	0	intronic	0.493	5	1	0	0
rs7147531	14	103299716	C	T	0.2455	0.0002319	0.90005	rs8004192	4	TRAF3	0	intronic	4.21	6	1	0	0
rs7146581	14	103301072	C	T	0.2455	0.0001668	0.90005	rs8004192	4	TRAF3	0	intronic	1.92	7	1	0	0
rs7146620	14	103301200	C	A	0.2455	0.0001668	0.90005	rs8004192	4	TRAF3	0	intronic	2.05	7	1	0	0
rs6575931	14	103301574	G	A	0.2336	0.0001627	0.967772	rs8004192	4	TRAF3	0	intronic	2.276	5	1	0	0
rs58638472	14	103303311	T	A	0.2455	0.000153	0.90005	rs8004192	4	TRAF3	0	intronic	1.586	7	1	0	0
rs11847989	14	103303514	C	T	0.2137	0.0001493	0.864737	rs8004192	4	TRAF3	0	intronic	5.423	7	1	0	0
rs7143963	14	103304425	C	T	0.1938	0.0003377	0.763955	rs8004192	4	TRAF3	0	intronic	0.1	5	1	0	0
rs4906267	14	103305077	G	T	0.1948	0.0003214	0.758253	rs8004192	4	TRAF3	0	intronic	0.347	4	1	0	0
rs9788576	14	103305548	C	T	0.1918	0.0001419	0.753821	rs8004192	4	TRAF3	0	intronic	2.476	6	1	0	0
rs2896460	14	103306106	T	A	0.2455	0.0002022	0.90005	rs8004192	4	TRAF3	0	intronic	12.04	5	1	0	0
rs2403102	14	103306215	G	A	0.2266	0.0002055	0.809812	rs8004192	4	TRAF3	0	intronic	6.132	7	1	0	0
rs7161606	14	103307110	C	A	0.2137	0.0002545	0.864737	rs8004192	4	TRAF3	0	intronic	0.255	5	1	0	0
rs66970053	14	103307655	G	C	0.2256	0.0001954	0.813883	rs8004192	4	TRAF3	0	intronic	0.368	2c	1	0	0
rs2403103	14	103309622	G	A	0.2485	0.0001512	0.925844	rs8004192	4	TRAF3	0	intronic	0.128	6	1	0	0
rs4553557	14	103309743	C	T	0.1918	0.0003252	0.763901	rs8004192	4	TRAF3	0	intronic	0.462	7	1	0	0
rs10133709	14	103310758	T	A	0.2485	0.000153	0.925844	rs8004192	4	TRAF3	0	intronic	2.714	5	1	0	0
rs8021860	14	103312145	G	T	0.1918	0.0003214	0.763901	rs8004192	4	TRAF3	0	intronic	0.143	7	1	0	0
rs72704712	14	103312965	G	T	0.1879	0.0007513	0.737071	rs8004192	4	TRAF3	0	intronic	3.374	7	1	0	0
rs57613851	14	103319835	C	T	0.2485	0.0001813	0.925844	rs8004192	4	TRAF3	0	intronic	4.089	6	1	0	0
rs8016689	14	103319981	C	T	0.2485	0.0001835	0.925844	rs8004192	4	TRAF3	0	intronic	1.264	6	1	0	0
rs8017944	14	103320048	G	T	0.2187	0.0001813	0.889873	rs8004192	4	TRAF3	0	intronic	0.444	7	1	0	0
rs8017180	14	103320100	G	C	0.1918	0.0003655	0.763901	rs8004192	4	TRAF3	0	intronic	0.117	5	1	0	0
rs2092973	14	103320961	G	A	0.2296	0.0001813	0.834125	rs8004192	4	TRAF3	0	intronic	10.08	6	1	0	0
rs2103928	14	103320988	C	T	0.2177	0.0001813	0.895157	rs8004192	4	TRAF3	0	intronic	4.867	6	1	0	0
rs8003422	14	103321603	G	A	0.2485	0.0001835	0.925844	rs8004192	4	TRAF3	0	intronic	2.64	7	1	0	0
rs10131869	14	103322031	G	C	0.2485	0.0001835	0.925844	rs8004192	4	TRAF3	0	intronic	0.766	6	1	0	0
rs2103929	14	103322471	C	T	0.2485	0.0001835	0.925844	rs8004192	4	TRAF3	0	intronic	3.02	7	1	0	0
rs7151954	14	103323448	G	A	0.2167	0.0001748	0.889939	rs8004192	4	TRAF3	0	intronic	4.354	6	1	0	0
rs7153002	14	103323915	C	T	0.1918	0.0003655	0.763901	rs8004192	4	TRAF3	0	intronic	9.657	3a	1	0	0
rs7154352	14	103323947	C	T	0.2485	0.0001835	0.925844	rs8004192	4	TRAF3	0	intronic	5.336	4	1	0	0
rs8013266	14	103326780	C	T	0.2117	0.0003828	0.867017	rs8004192	4	TRAF3	0	intronic	8.45	7	1	0	0
rs8022110	14	103328158	C	T	0.1918	0.0003655	0.763901	rs8004192	4	TRAF3	0	intronic	0.047	5	1	0	0
rs7145509	14	103329430	C	A	0.2485	0.0001941	0.925844	rs8004192	4	TRAF3	0	intronic	2.197	7	1	0	0
rs6575932	14	103330609	C	T	0.2485	3.04E-05	0.925844	rs8004192	4	TRAF3	0	intronic	2.539	7	1	0	0
rs12588749	14	103330873	C	T	0.1918	6.48E-05	0.763901	rs8004192	4	TRAF3	0	intronic	6.406	7	1	0	0
rs10144464	14	103331590	T	A	0.2107	0.0003784	0.872187	rs8004192	4	TRAF3	0	intronic	5.501	5	1	0	0
rs28372031	14	103335242	C	T	0.2475	3.13E-05	0.92995	rs8004192	4	TRAF3	0	intronic	0.471	5	1	0	0
rs2295402	14	103338324	T	A	0.2117	7.87E-05	0.867017	rs8004192	4	TRAF3	0	intronic	0.102	5	1	0	0
rs941589	14	103341056	C	T	0.2475	2.92E-05	0.92995	rs8004192	4	TRAF3	0	intronic	0.243	7	1	0	0
rs1131877	14	103342049	C	T	0.2475	3.16E-05	0.92995	rs8004192	4	TRAF3	0	exonic	11.25	NA	1	0	0
rs9324052	14	103344307	C	A	0.2475	2.92E-05	0.92995	rs8004192	4	TRAF3	0	intronic	2.282	5	1	0	0
rs66666997	14	103345026	G	C	0.2475	2.92E-05	0.92995	rs8004192	4	TRAF3	0	intronic	1.532	5	1	0	0
rs10149939	14	103345467	G	A	0.2356	3.40E-05	1	rs8004192	4	TRAF3	0	intronic	2.061	4	1	0	0
rs6575933	14	103346616	G	A	0.2475	3.00E-05	0.92995	rs8004192	4	TRAF3	0	intronic	13.53	7	1	0	0
rs7143563	14	103346828	C	T	0.2475	3.00E-05	0.92995	rs8004192	4	TRAF3	0	intronic	1.018	6	1	0	0
rs7154305	14	103348743	G	C	0.2475	2.69E-05	0.92995	rs8004192	4	TRAF3	0	intronic	0.275	5	1	0	0
rs12588339	14	103349176	G	A	0.2475	2.91E-05	0.92995	rs8004192	4	TRAF3	0	intronic	2.963	5	1	0	0
rs12590238	14	103350197	G	C	0.1909	5.99E-05	0.769109	rs8004192	4	TRAF3	0	intronic	0.922	7	1	0	0
rs7157267	14	103350813	C	T	0.2366	2.59E-05	0.994625	rs8004192	4	TRAF3	0	intronic	2.357	7	1	0	0
rs3783384	14	103351830	C	T	0.1928	6.48E-05	0.768915	rs8004192	4	TRAF3	0	intronic	7.866	7	1	0	0
rs72704726	14	103353101	G	A	0.1918	6.23E-05	0.763901	rs8004192	4	TRAF3	0	intronic	4.013	6	1	0	0
rs11160705	14	103354184	G	A	0.2485	0.000142	0.925844	rs8004192	4	TRAF3	0	intronic	0.008	6	1	0	0
rs72704727	14	103357249	C	T	0.1869	0.0002858	0.742122	rs8004192	4	TRAF3	0	intronic	0.05	7	1	0	0
rs10148367	14	103357310	C	T	0.2475	0.0001368	0.92995	rs8004192	4	TRAF3	0	intronic	3.631	7	1	0	0
rs2273393	14	103357603	G	T	0.2276	0.0001373	0.83345	rs8004192	4	TRAF3	0	intronic	5.53	5	1	0	0
rs72704731	14	103358070	C	A	0.1918	0.0002926	0.763901	rs8004192	4	TRAF3	0	intronic	0.349	5	1	0	0
rs8008502	14	103359492	G	A	0.2167	0.0001352	0.90061	rs8004192	4	TRAF3	0	intronic	3.643	6	1	0	0
rs12588538	14	103360000	G	A	0.1879	0.0003986	0.736231	rs8004192	4	TRAF3	0	intronic	6.329	4	1	0	0
rs4243736	14	103360440	G	A	0.1909	0.0002961	0.769109	rs8004192	4	TRAF3	0	intronic	1.323	7	1	0	0
rs11160706	14	103361736	G	A	0.2356	0.0001385	1	rs8004192	4	TRAF3	0	intronic	0.038	5	1	0	0
rs57521303	14	103361937	C	T	0.2356	0.0001437	1	rs8004192	4	TRAF3	0	intronic	9.851	7	1	0	0
rs4906269	14	103362017	C	A	0.1899	0.0003035	0.764211	rs8004192	4	TRAF3	0	intronic	2.488	5	1	0	0
rs4906270	14	103364737	G	T	0.2127	0.000142	0.87044	rs8004192	4	TRAF3	0	intronic	7.362	4	1	0	0
rs7155889	14	103366542	C	A	0.2266	0.0001419	0.951814	rs8004192	4	TRAF3	0	intronic	5.342	6	1	0	0
rs7156339	14	103366698	C	T	0.1869	0.0003103	0.742122	rs8004192	4	TRAF3	0	intronic	0.256	7	1	0	0
rs3783385	14	103367667	G	A	0.2316	0.000151	0.978377	rs8004192	4	TRAF3	0	intronic	0.497	4	1	0	0
rs3783386	14	103367708	C	T	0.2316	0.000151	0.978377	rs8004192	4	TRAF3	0	intronic	2.724	4	1	0	0
rs10132977	14	103370119	C	T	0.1879	0.0002532	0.747069	rs8004192	4	TRAF3	0	intronic	0.164	5	1	0	0
rs9671376	14	103370163	C	T	0.2435	0.0001239	0.908114	rs8004192	4	TRAF3	0	intronic	0.931	5	1	0	0
rs2092971	14	103371090	C	T	0.1869	0.0001525	0.742122	rs8004192	4	TRAF3	0	intronic	3.271	7	1	0	0
rs72704737	14	103373434	G	C	0.1869	0.0002472	0.742122	rs8004192	4	TRAF3	0	3'UTR	8.096	2b	1	0	0
rs4906272	14	103376031	C	T	0.1839	0.0001041	0.728975	rs8004192	4	TRAF3	0	3'UTR	1.891	4	1	0	0
rs10133111	14	103377321	G	A	0.1879	0.0001002	0.726245	rs8004192	4	TRAF3	0	3'UTR	1.692	2b	1	0	0
rs11552464	14	103377354	G	T	0.1849	0.0001054	0.733082	rs8004192	4	TRAF3	0	3'UTR	2.586	4	1	0	0
rs11629241	14	103379225	C	T	0.2445	4.88E-05	0.883182	rs8004192	4	TRAF3	1387	intergenic	1.789	2b	1	0	0
rs7147331	14	103380208	T	A	0.2008	6.56E-05	0.705783	rs8004192	4	TRAF3	2370	intergenic	1.854	2b	1	0	0
rs76327888	14	103380403	G	T	0.1918	6.90E-05	0.742201	rs8004192	4	TRAF3	2565	intergenic	0.008	2b	1	0	0
rs72704741	14	103381882	C	T	0.1889	8.75E-05	0.759959	rs8004192	4	TRAF3	4044	intergenic	0.339	4	1	0	0
rs2224234	14	103382038	C	A	0.2256	3.77E-05	0.822063	rs8004192	4	TRAF3	4200	intergenic	0.831	2b	1	0	0
rs60658776	14	103383200	C	T	0.2455	1.95E-05	0.918636	rs8004192	4	TRAF3	5362	intergenic	3.279	4	1	0	0
rs11850915	14	103385073	G	A	0.2286	0.01234	0.805839	rs8004192	4	AMN	3919	intergenic	4.389	4	1	0	0
rs58472533	14	103385634	G	A	0.2097	7.99E-05	0.856579	rs8004192	4	AMN	3358	intergenic	0.725	7	1	0	0
rs4906274	14	103387732	G	A	0.2346	2.55E-05	0.839807	rs8004192	4	AMN	1260	intergenic	3.441	7	1	0	0
rs4906275	14	103387971	G	C	0.2217	6.11E-05	0.796037	rs8004192	4	AMN	1021	intergenic	1.153	7	1	0	0
rs217184	16	72105965	C	T	0.2137	3.57E-05	0.947652	rs77303550	5	TXNL4B:HPR	0:00	intronic	1.478	NA	1	0	0
rs217181	16	72114002	C	T	0.2137	5.00E-05	0.947652	rs77303550	5	TXNL4B	0	intronic	10.23	7	1	0	0
rs117627338	21	29067501	C	A	0.1074	9.30E-05	1	rs80271593	6	LINC00113	27196	intergenic	6.957	7	0	0	0
rs184850	21	29086987	C	A	0.1123	0.001189	0.78425	rs80271593	6	LINC00113	7710	intergenic	1.242	6	0	0	0
rs5754075	22	21911220	G	A	0.163	7.63E-05	0.828219	rs1811069	7	UBE2L3	0	intronic	6.529	6	1	1	0
rs390387	22	21912246	G	A	0.1849	0.0002364	0.931066	rs1811069	7	UBE2L3	0	intronic	4.843	6	1	0	0
rs5754100	22	21916166	C	T	0.1839	0.001074	0.925356	rs1811069	7	UBE2L3	0	intronic	4.615	7	1	1	0
rs5754102	22	21916272	C	A	0.1759	0.0001526	0.901303	rs1811069	7	UBE2L3	0	intronic	5.108	6	1	0	0
rs5754104	22	21916361	G	A	0.1819	0.0003362	0.937842	rs1811069	7	UBE2L3	0	intronic	3.379	7	1	1	0
rs131656	22	21917450	G	A	0.1918	0.0004972	1	rs1811069	7	UBE2L3	0	intronic	0.932	6	1	1	0
rs5998509	22	21917479	C	T	0.1829	0.0003684	0.943901	rs1811069	7	UBE2L3	0	intronic	0.8	7	1	1	0
rs131657	22	21917550	T	A	0.1928	0.000516	0.993656	rs1811069	7	UBE2L3	0	intronic	2.224	6	1	0	0
rs131658	22	21917626	G	C	0.1928	0.000492	0.993656	rs1811069	7	UBE2L3	0	intronic	1.456	7	1	1	0
rs131659	22	21917708	G	A	0.1938	0.000492	0.987368	rs1811069	7	UBE2L3	0	intronic	3.137	NA	1	0	0
rs131660	22	21917757	G	A	0.1938	0.000467	0.987368	rs1811069	7	UBE2L3	0	intronic	2.122	NA	1	0	0
rs138665726	22	21917859	C	A	0.1809	0.0003442	0.931611	rs1811069	7	UBE2L3	0	intronic	1.172	6	1	0	0
rs140488	22	21919671	G	A	0.1938	0.0004719	0.987368	rs1811069	7	UBE2L3	0	intronic	3.518	NA	1	1	0
rs131664	22	21920403	G	A	0.1938	0.0004719	0.987368	rs1811069	7	UBE2L3	0	intronic	0.419	NA	1	1	0
rs59391722	22	21920817	G	C	0.1819	0.0003585	0.937842	rs1811069	7	UBE2L3	0	intronic	2.027	5	1	1	0
rs131665	22	21920903	G	A	0.1938	0.000467	0.987368	rs1811069	7	UBE2L3	0	intronic	1.509	NA	1	1	0
rs140489	22	21921294	G	A	0.1938	0.000467	0.987368	rs1811069	7	UBE2L3	0	intronic	4.944	2b	1	1	0
rs140490	22	21921686	G	T	0.1938	0.0004206	0.987368	rs1811069	7	UBE2L3	0	intronic	4.826	NA	1	1	0
rs140491	22	21922364	C	T	0.1938	0.0004206	0.987368	rs1811069	7	UBE2L3	0	intronic	9.472	NA	1	1	0
rs11089620	22	21922456	G	C	0.1819	0.0004415	0.937842	rs1811069	7	UBE2L3	0	intronic	14.53	3a	1	1	0
rs2266959	22	21922904	G	T	0.1819	0.0004415	0.937842	rs1811069	7	UBE2L3	0	intronic	8.916	4	1	1	0
rs140492	22	21923144	C	A	0.1938	0.000425	0.987368	rs1811069	7	UBE2L3	0	intronic	9.82	NA	1	1	0
rs2256609	22	21925017	G	A	0.1829	0.0003442	0.931391	rs1811069	7	UBE2L3	0	intronic	6.86	3a	1	1	0
rs140498	22	21927064	G	A	0.1938	0.0003422	0.987368	rs1811069	7	UBE2L3	0	intronic	0.278	NA	1	1	0
rs140499	22	21927231	C	T	0.1938	0.0003422	0.987368	rs1811069	7	UBE2L3	0	intronic	6.325	NA	1	1	0
rs2266961	22	21928597	G	C	0.1819	0.0003277	0.937842	rs1811069	7	UBE2L3	0	intronic	10.14	4	1	1	0
rs181359	22	21928641	G	A	0.1938	0.0003784	0.987368	rs1811069	7	UBE2L3	0	intronic	5.975	NA	1	1	0
rs181360	22	21928916	G	T	0.1938	0.0003422	0.987368	rs1811069	7	UBE2L3	0	intronic	5.185	1f	1	1	0
rs73166619	22	21930093	C	T	0.1819	0.0002217	0.937842	rs1811069	7	UBE2L3	0	intronic	2.894	7	1	1	0
rs5754166	22	21930777	C	T	0.1819	0.0002217	0.937842	rs1811069	7	UBE2L3	0	intronic	8.293	7	1	1	0
rs181362	22	21932068	C	T	0.1938	0.0002199	0.987368	rs1811069	7	UBE2L3	0	intronic	8.7	NA	1	1	0
rs181363	22	21932264	G	A	0.1938	0.0002199	0.987368	rs1811069	7	UBE2L3	0	intronic	2.328	NA	1	1	0
rs5754177	22	21933428	C	T	0.1839	0.0002291	0.937455	rs1811069	7	UBE2L3	0	intronic	2.048	5	1	1	0
rs181366	22	21933780	C	T	0.1938	0.0002199	0.987368	rs1811069	7	UBE2L3	0	intronic	3.687	NA	1	1	0
rs66534072	22	21936152	G	C	0.1938	0.0002276	0.987368	rs1811069	7	UBE2L3	0	intronic	1.714	6	1	1	0
rs5749485	22	21938224	C	A	0.1938	0.0002105	0.987368	rs1811069	7	UBE2L3	0	intronic	0.72	7	1	0	0
rs5998576	22	21938590	C	T	0.1928	0.0002105	0.993656	rs1811069	7	UBE2L3	0	intronic	1.622	6	1	1	0
rs73166622	22	21938863	G	C	0.1928	0.0002105	0.993656	rs1811069	7	UBE2L3	0	intronic	7.346	7	1	1	0
rs5754217	22	21939675	G	T	0.1938	0.0001506	0.987368	rs1811069	7	UBE2L3	0	intronic	0.352	2b	1	1	0
rs5749493	22	21939687	C	A	0.1938	0.0002105	0.987368	rs1811069	7	UBE2L3	0	intronic	0.902	4	1	1	0
rs4820091	22	21940189	G	T	0.1829	0.0002158	0.918964	rs1811069	7	UBE2L3	0	intronic	0.006	5	1	1	0
rs5749495	22	21940310	G	A	0.1819	0.0001663	0.937842	rs1811069	7	UBE2L3	0	intronic	3.235	7	1	1	0
rs12484550	22	21941915	C	T	0.1819	0.000147	0.937842	rs1811069	7	UBE2L3	0	intronic	4.164	2b	1	1	0
rs5998599	22	21941981	G	A	0.1918	0.0001968	1	rs1811069	7	UBE2L3	0	intronic	1.14	1b	1	1	0
rs9621715	22	21942007	G	A	0.1819	0.000147	0.937842	rs1811069	7	UBE2L3	0	intronic	3.575	4	1	1	0
rs5754234	22	21942978	T	A	0.1819	0.0001487	0.937842	rs1811069	7	UBE2L3	0	intronic	2.053	6	1	1	0
rs5754238	22	21943664	G	C	0.1928	0.0002105	0.993656	rs1811069	7	UBE2L3	0	intronic	3.074	5	1	1	0
rs1034329	22	21943938	C	T	0.1928	0.0001968	0.993656	rs1811069	7	UBE2L3	0	intronic	5.838	2b	1	1	0
rs2283789	22	21944478	G	T	0.1928	0.0002105	0.993656	rs1811069	7	UBE2L3	0	intronic	4.671	6	1	0	0
rs5749502	22	21945096	T	A	0.1819	0.0001487	0.937842	rs1811069	7	UBE2L3	0	intronic	0.666	2b	1	1	0
rs5998619	22	21945851	G	A	0.1918	0.0001968	1	rs1811069	7	UBE2L3	0	intronic	0.503	4	1	1	0
rs73166630	22	21945978	G	A	0.1819	0.0001358	0.937842	rs1811069	7	UBE2L3	0	intronic	2.883	2b	1	1	0
rs73166632	22	21946173	G	A	0.1928	0.0002105	0.993656	rs1811069	7	UBE2L3	0	intronic	0.066	4	1	1	0
rs2266963	22	21947467	G	C	0.1819	0.0001487	0.937842	rs1811069	7	UBE2L3	0	intronic	3.3	2b	1	1	0
rs2070512	22	21949411	C	A	0.1938	0.0002105	0.987368	rs1811069	7	UBE2L3	0	intronic	4.467	4	1	1	0
rs4821104	22	21950405	G	A	0.1829	0.0001018	0.943901	rs1811069	7	UBE2L3	0	intronic	0.605	7	1	1	0
rs5754295	22	21951740	C	A	0.1938	0.0002006	0.987368	rs1811069	7	UBE2L3	0	intronic	0.461	1f	1	1	0
rs5994638	22	21953276	G	A	0.1938	0.0002265	0.987368	rs1811069	7	UBE2L3	0	intronic	0.826	7	1	1	0
rs5998644	22	21953288	C	T	0.1938	0.0002265	0.987368	rs1811069	7	UBE2L3	0	intronic	3.768	7	1	1	0
rs2283790	22	21956653	G	A	0.1938	0.0001975	0.987368	rs1811069	7	UBE2L3	0	intronic	1.408	1f	1	1	0
rs5754323	22	21957992	C	T	0.1938	0.0001975	0.987368	rs1811069	7	UBE2L3	0	intronic	0.463	5	1	1	0
rs2266964	22	21958304	G	A	0.1938	0.0001975	0.987368	rs1811069	7	UBE2L3	0	intronic	0.943	4	1	1	0
rs11089629	22	21958872	G	T	0.1938	0.0001975	0.987368	rs1811069	7	UBE2L3	0	intronic	2.294	5	1	1	0
rs4821108	22	21959038	G	C	0.1928	0.0001975	0.993656	rs1811069	7	UBE2L3	0	intronic	0.033	5	1	1	0
rs5754344	22	21963786	G	A	0.1819	0.0002037	0.937842	rs1811069	7	UBE2L3	0	intronic	7.063	7	1	1	0
rs4821112	22	21964761	G	A	0.1938	0.0002296	0.987368	rs1811069	7	UBE2L3	0	intronic	0.277	1f	1	1	0
rs5754352	22	21964951	C	T	0.1938	0.0002518	0.987368	rs1811069	7	UBE2L3	0	intronic	3.65	1f	1	1	0
rs5998672	22	21966442	G	A	0.1938	0.0002432	0.987368	rs1811069	7	UBE2L3	0	intronic	2.01	1f	1	1	0
rs12169001	22	21966833	C	T	0.1928	0.0002432	0.993656	rs1811069	7	UBE2L3	0	intronic	2.446	7	1	1	0
rs738127	22	21968221	G	A	0.1938	0.0002405	0.987368	rs1811069	7	UBE2L3	0	intronic	3.244	1f	1	1	0
rs8137950	22	21969640	C	T	0.1909	0.0003092	0.968233	rs1811069	7	UBE2L3	0	intronic	1.701	7	1	1	0
rs738128	22	21971010	G	A	0.1938	0.0002323	0.987368	rs1811069	7	UBE2L3	0	intronic	2.888	6	1	1	0
rs8139079	22	21971632	G	T	0.1928	0.0002483	0.993656	rs1811069	7	UBE2L3	0	intronic	0.63	5	1	1	0
rs2876971	22	21972401	G	T	0.1928	0.0002143	0.993656	rs1811069	7	UBE2L3	0	intronic	0.027	7	1	1	0
rs4821116	22	21973319	C	T	0.1819	0.0001621	0.937842	rs1811069	7	UBE2L3	0	intronic	1.121	1b	1	1	0
rs5754387	22	21974703	G	C	0.1968	0.0006977	0.969106	rs1811069	7	UBE2L3	0	intronic	5.957	1f	1	1	0
rs7444	22	21976934	C	T	0.1978	0.000279	0.964455	rs1811069	7	UBE2L3	0	3'UTR	9.666	3a	1	1	0
rs7445	22	21977047	C	T	0.1938	0.0002697	0.987368	rs1811069	7	UBE2L3	0	3'UTR	6.53	NA	1	1	0
rs11089637	22	21979096	C	T	0.167	0.0002547	0.823403	rs1811069	7	UBE2L3	772	downstream	2.586	1f	1	1	0
rs4821124	22	21979289	C	T	0.1849	0.000187	0.931799	rs1811069	7	UBE2L3	965	downstream	3.534	4	1	1	0
rs12158299	22	21979584	C	T	0.1928	0.0002461	0.993656	rs1811069	7	UBE2L3	1260	intergenic	7.254	1b	1	1	0
rs5754422	22	21980257	G	A	0.1928	0.0002065	0.993656	rs1811069	7	UBE2L3	1933	intergenic	11.04	2b	1	1	0
rs5754426	22	21980638	C	T	0.1928	0.0002065	0.993656	rs1811069	7	YDJC	1739	intergenic	14.14	2b	1	1	0
rs4821130	22	21980894	C	T	0.1928	0.0002065	0.993656	rs1811069	7	YDJC	1483	intergenic	8.542	4	1	1	0
rs878825	22	21982249	C	T	0.1938	0.0001677	0.987368	rs1811069	7	YDJC	128	downstream	4.308	NA	1	1	0
rs2298428	22	21982892	C	T	0.1769	0.0001498	0.907351	rs1811069	7	YDJC	0	exonic	23.9	4	1	1	0
rs2298429	22	21983260	G	A	0.1889	0.0001657	0.955514	rs1811069	7	YDJC	0	intronic	4.639	1f	1	1	0
rs3747093	22	21984379	G	A	0.2018	0.0001401	0.806576	rs1811069	7	YDJC	25	upstream	3.364	2b	1	1	0
rs5754467	22	21985094	G	A	0.1998	0.0001385	0.794463	rs1811069	7	YDJC	740	upstream	2.823	5	1	1	0

Notes: The posMapFilt and ciMAP means that whether we could map this gene through the position and the chromatin interaction information. The eqtlMapFilt means whether this SNP is an expression quantitative trait locus.