Table S4: Top 100 signals in the YRI population using the T_2 test statistic.

Rank	Gene name	Chromosome	T_2	Rank	Gene name	Chromosome	T_2
1	*CPE*	4	311.9	51	*HPSE2*	10	185.0
2	***HLA-DPA1*** [76]	6	298.7	52	*IGSF5*	21	184.3
3	***HLA-DPB1*** [14]	6	290.9	53	*CASQ2*	1	183.6
4	*FANK1*	10	283.6	54	*MYRIP*	3	183.1
5	*TEKT4*	2	277.2	55	*FRG2C*	3	182.8
6	*KIAA1324L*	7	273.7	56	*APOBEC4*	1	181.1
7	*MYOM2*	8	271.1	57	*NTN4*	12	178.9
8	*ZNF568*	19	266.8	58	*ALG8*	11	178.4
9	*C1orf130*	1	265.2	59	*ESYT2*	7	177.1
10	*ARPC5*	1	256.7	60	*ATP8A2*	13	175.5
11	*MSH3*	5	256.6	61	*RFX8*	2	175.4
12	*SH3RF3*	2	256.6	62	*ULK4*	3	174.6
13	*DMBT1*	10	253.8	63	*AXDND1*	1	174.3
14	*BNC2*	9	253.2	64	*EMID2*	7	170.6
15	*PKD1L1*	7	247.7	65	*SMYD3*	1	169.5
16	*USP20*	9	240.8	66	***HLA-B*** [15,74,75]	6	167.9
17	*C4orf37*	4	239.5	67	*VRK3*	19	167.5
18	*APBB1IP*	10	236.4	68	*ARHGAP42*	11	167.4
19	*STK32B*	4	233.7	69	*RBFOX1*	16	167.1
20	*SLC15A2*	3	233.1	70	*C15orf48*	15	166.8
21	*PACRG*	6	231.9	71	*GBA3*	4	166.8
22	***WFDC8*** [83]	20	231.4	72	*KLHL14*	18	163.7
23	*RGL1*	1	230.9	73	*BICC1*	10	163.7
24	*MLF1IP*	4	228.9	74	*SNX31*	8	163.5
25	*POLN*	4	223.2	75	*WWTR1*	3	163.5
26	***SLC2A9*** [15]	4	221.1	76	*KIAA0748*	12	163.5
27	*SPEF2*	5	220.0	77	*ASTN2*	9	162.5
28	*FRMD4B*	3	215.6	78	*ANK3*	10	162.4
29	*MLL3*	7	215.0	79	*PGBD5*	1	162.3
30	*PGLYRP4*	1	211.2	80	*SLC38A9*	5	161.0
31	***LGALS8*** [15]	1	209.4	81	*SLCO1B3*	12	160.3
32	*ART3*	4	205.9	82	*DGKI*	7	159.8
33	*RCAN1*	21	204.0	83	*RAMP3*	7	157.5
34	*ARHGAP24*	4	203.5	84	*LAMA2*	6	157.2
35	*RNF144B*	6	203.3	85	***HLA-A*** [74,75]	6	156.8
36	*CEP112*	17	201.9	86	*ACBD5*	10	155.8
37	*HLA-DRB5*	6	199.9	87	*MYLK4*	6	155.5
38	*CCDC169*	13	198.9	88	*DHX37*	12	154.6
39	*CCDC169-SOHLH2*	13	198.9	89	*EMR1*	19	154.2
40	*C18orf1*	18	198.9	90	*RYR2*	1	152.8
41	*STK32A*	5	196.7	91	*BCKDHB*	6	150.8
42	*SPATA16*	3	194.1	92	*C16orf73*	16	150.7
43	*LRRC16A*	6	192.5	93	*FAHD1*	16	150.7
44	***HLA-C*** [75]	6	192.2	94	***RCBTB1*** [15]	13	150.6
45	***HLA-DQB1*** [14,75]	6	191.9	95	*RGS6*	14	148.8
46	*SNX19*	11	187.7	96	*ACSBG2*	19	148.5
47	*CHRNB3*	8	187.5	97	*SWAP70*	11	148.0
48	*CCDC146*	7	186.5	98	*ABCD4*	14	147.7
49	*WDR75*	2	186.1	99	*PTPRB*	12	147.7
50	*MYO5B*	18	186.0	100	*PTPN14*	1	146.1

Previously-hypothesized genes are indicated in bold. Genes overlapping with Table S3 are highlighted in gray.

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