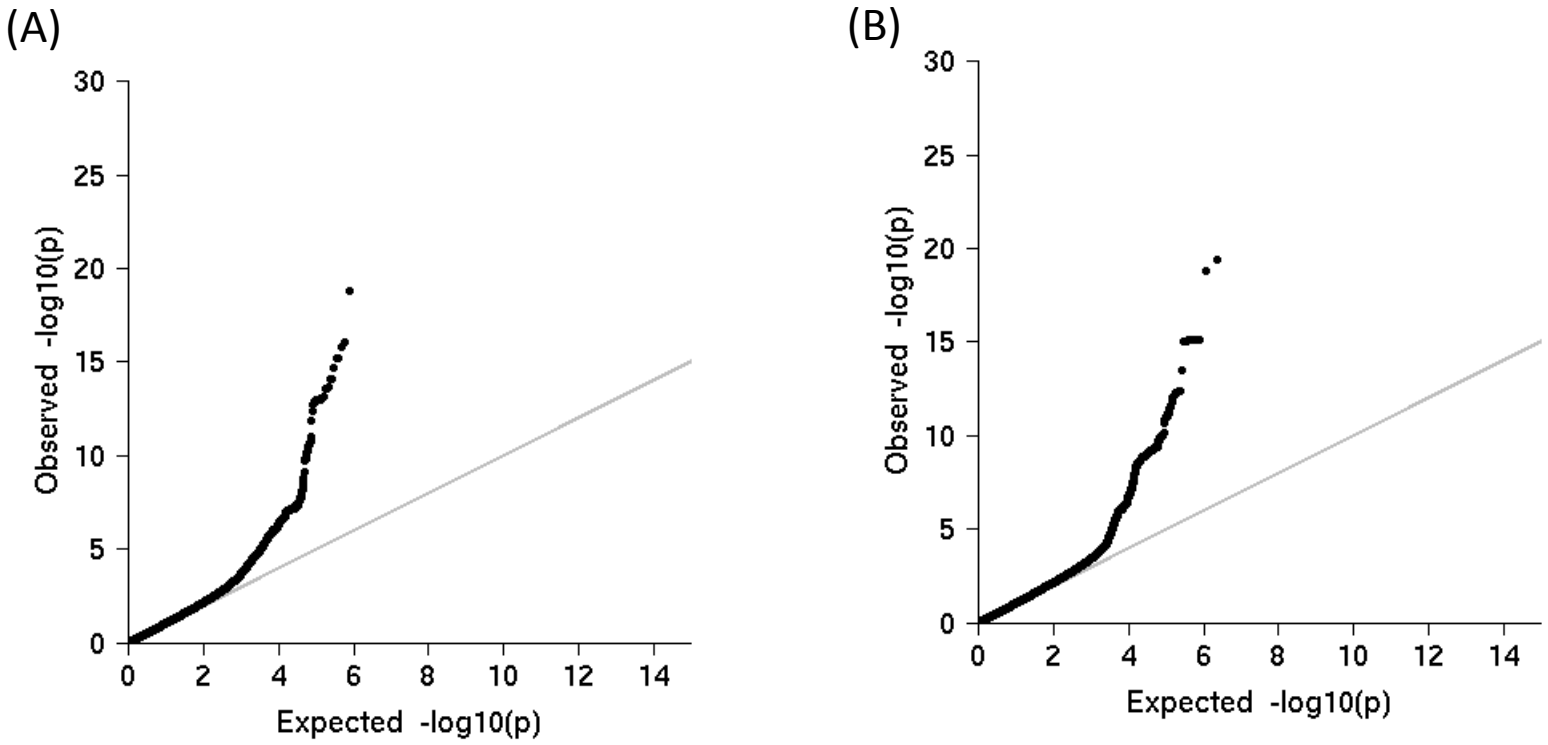
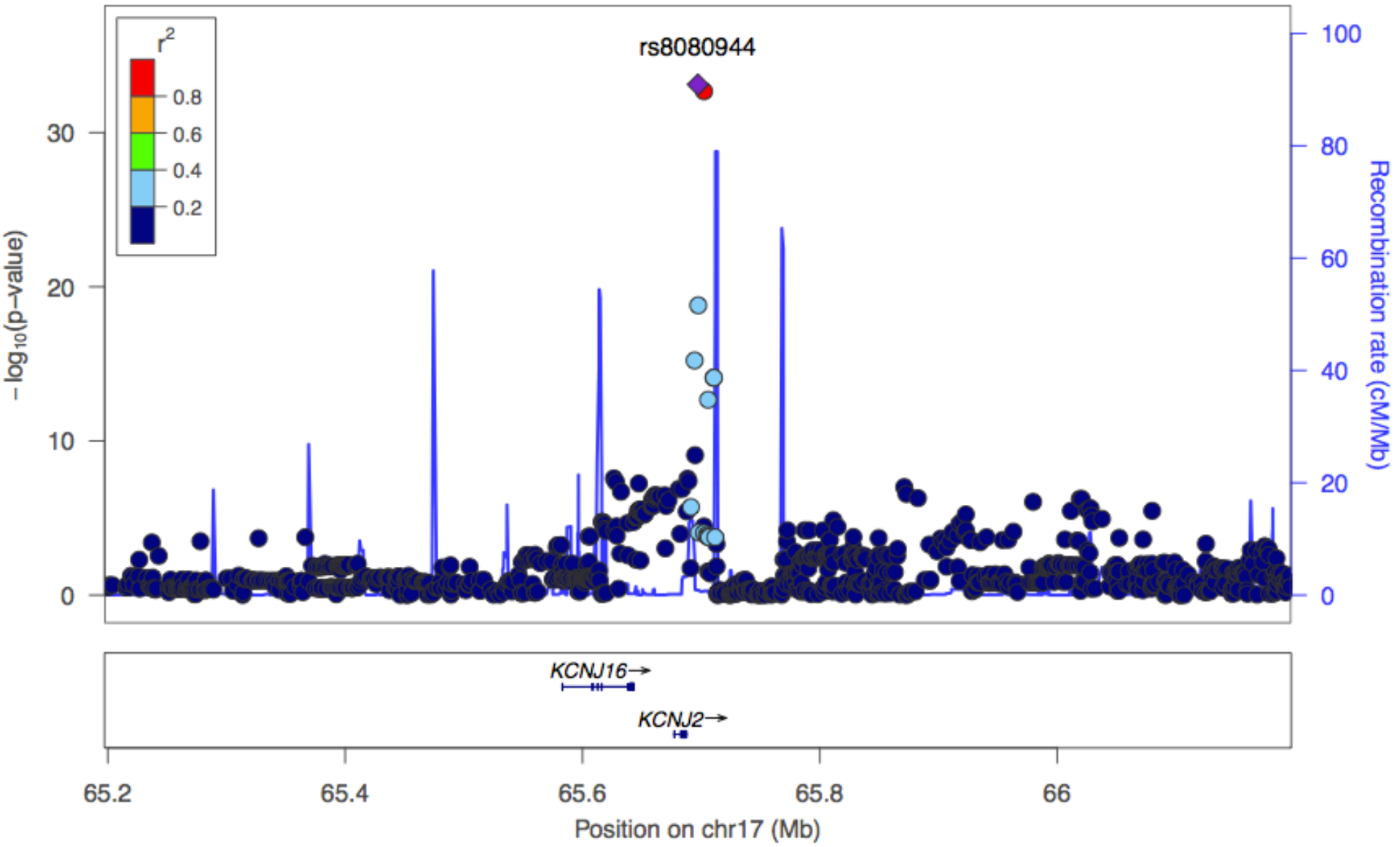
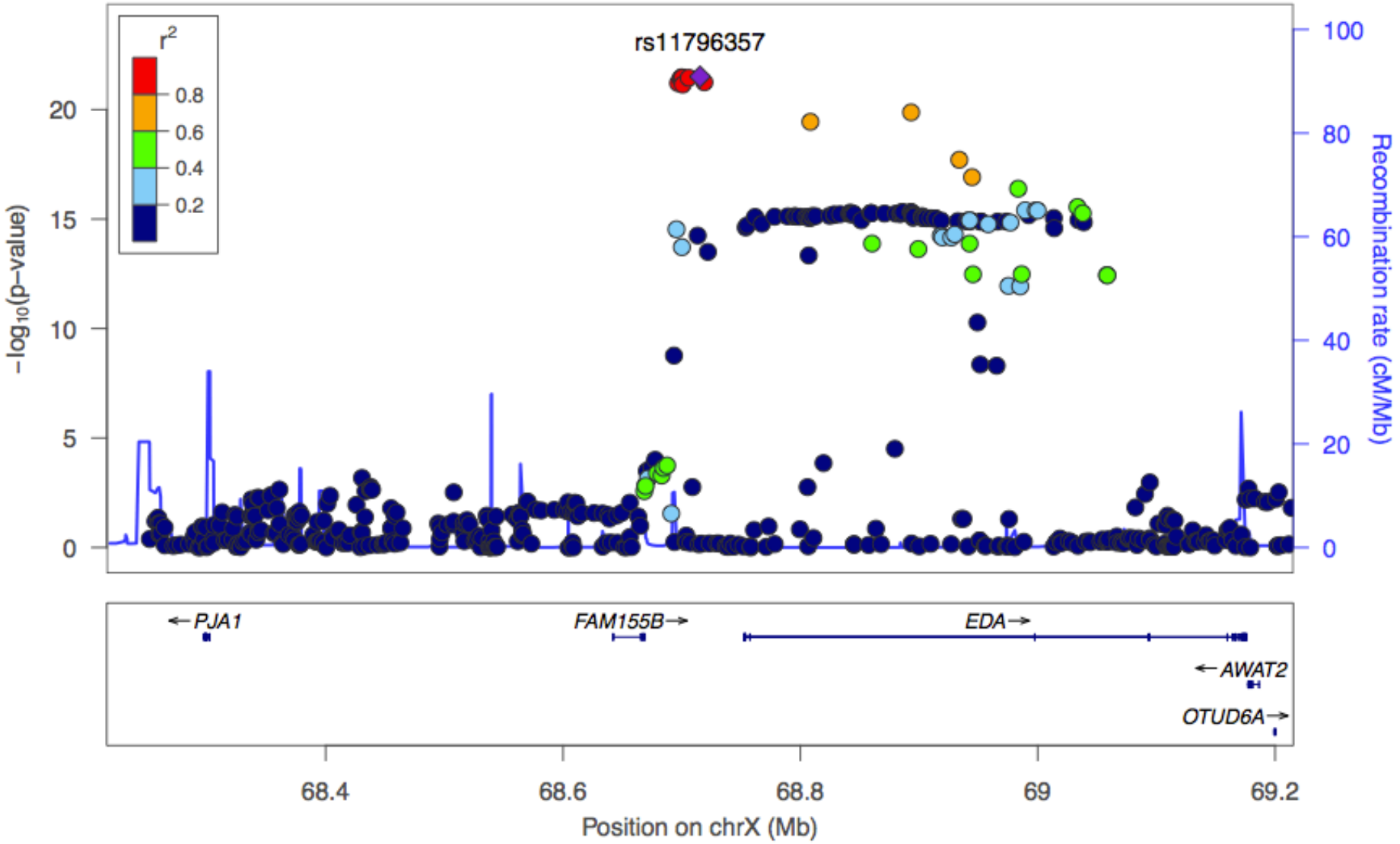


Supplementary Figure 1: QQ plot for the combined meta-analysis of (a) 'Age at first tooth' and (b) 'number of teeth' respectively. Both QQ plots show substantial deviation from the line of expectation for low p values only, suggesting the existence of common genetic variants influencing primary tooth eruption, but not substantial population stratification. The genomic inflation factors were $\lambda = 1.07$ for 'age at first tooth', and $\lambda = 1.06$ for 'number of teeth'.

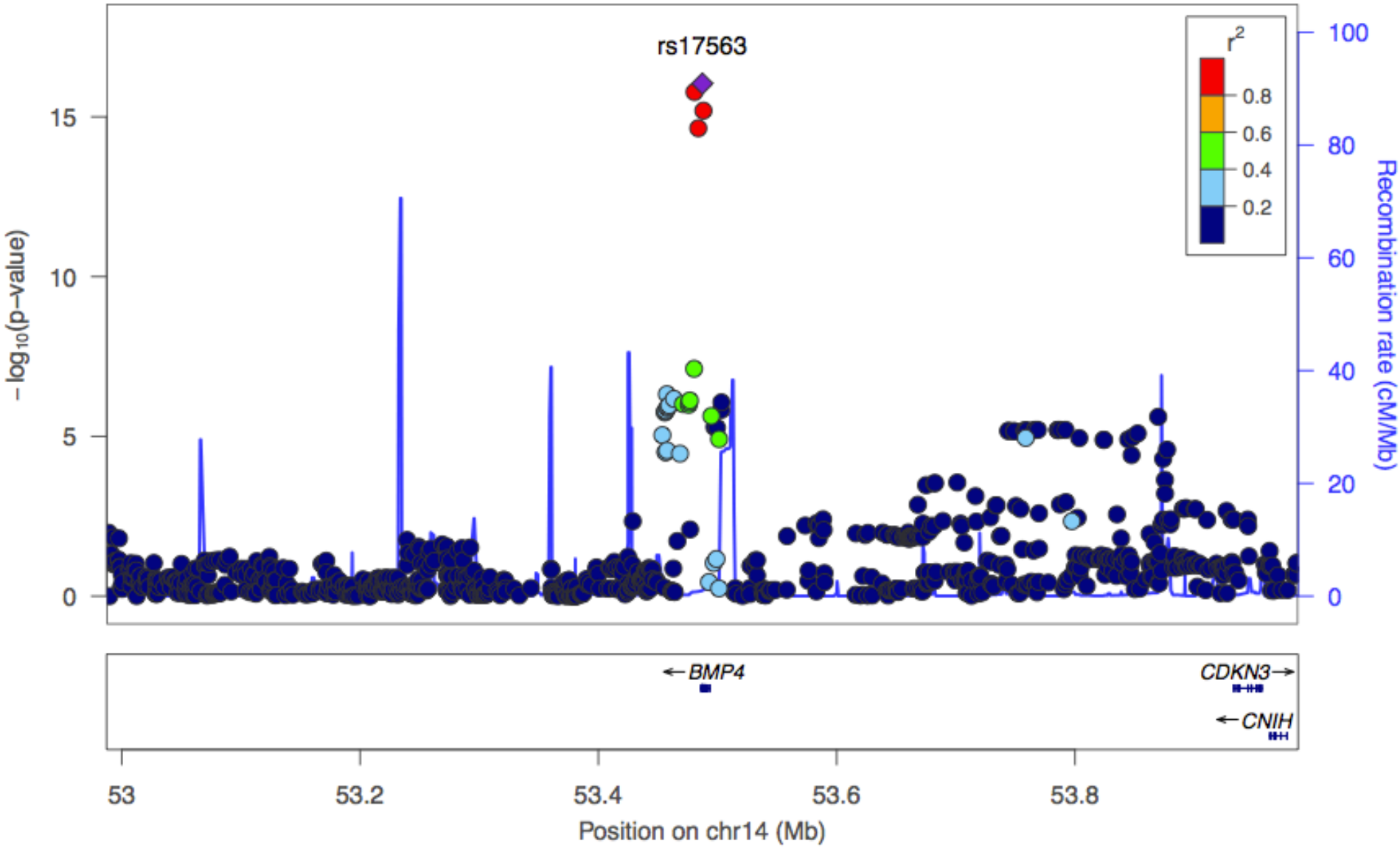
(A)


rs8080944
r2
0.8
0.6
0.4
0.2
30
20
10
0
−log10(p−value)
100
80
60
40
20
0
Recombination rate (cM/Mb)
KCNJ16
KCNJ2
65.2
65.4
65.6
65.8
66
Position on chr17 (Mb)

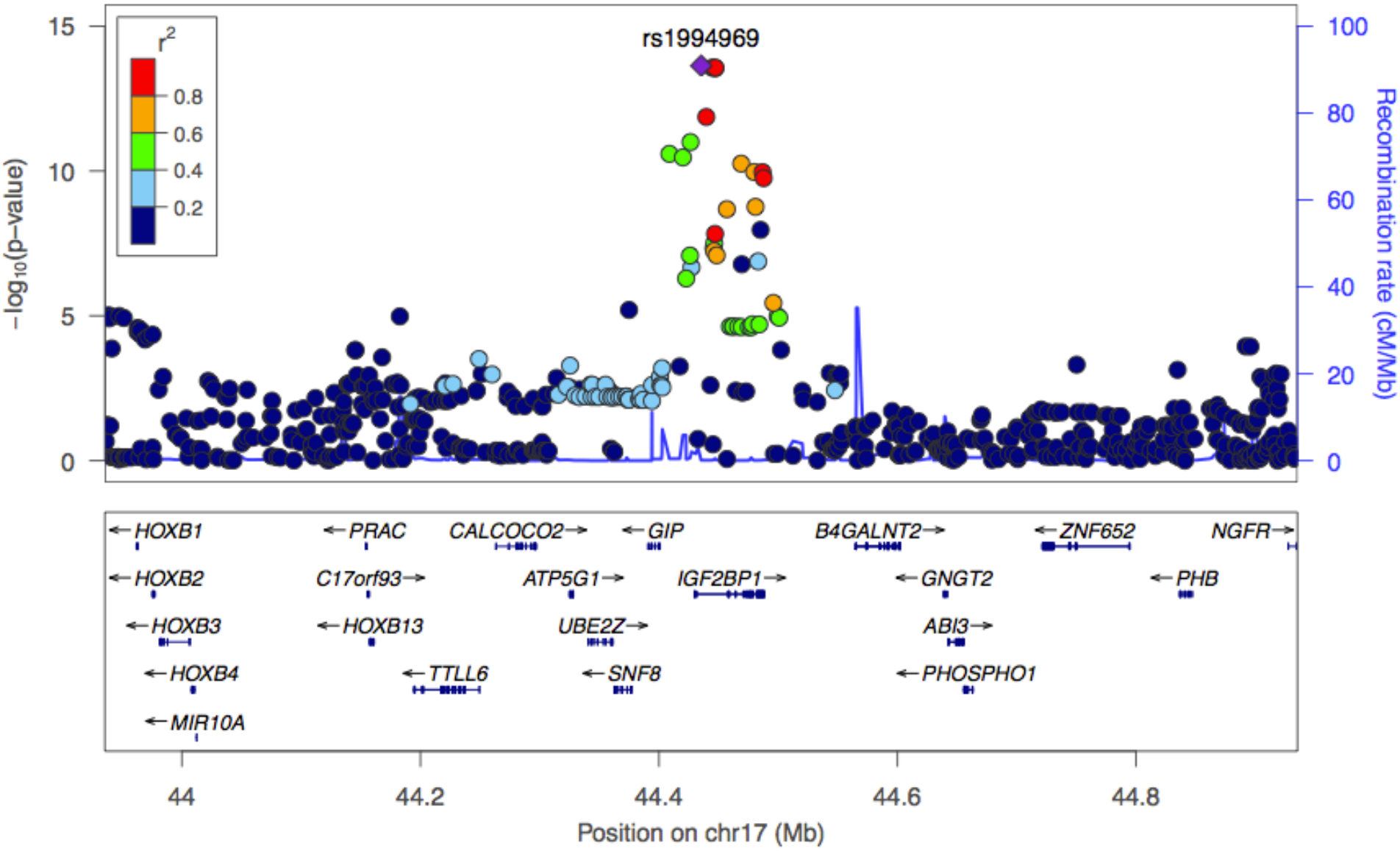
(B)


rs11796357
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
PJA1
FAM155B
EDA
AWAT2
OTUD6A
68.4
68.6
68.8
69
69.2
Position on chrX (Mb)

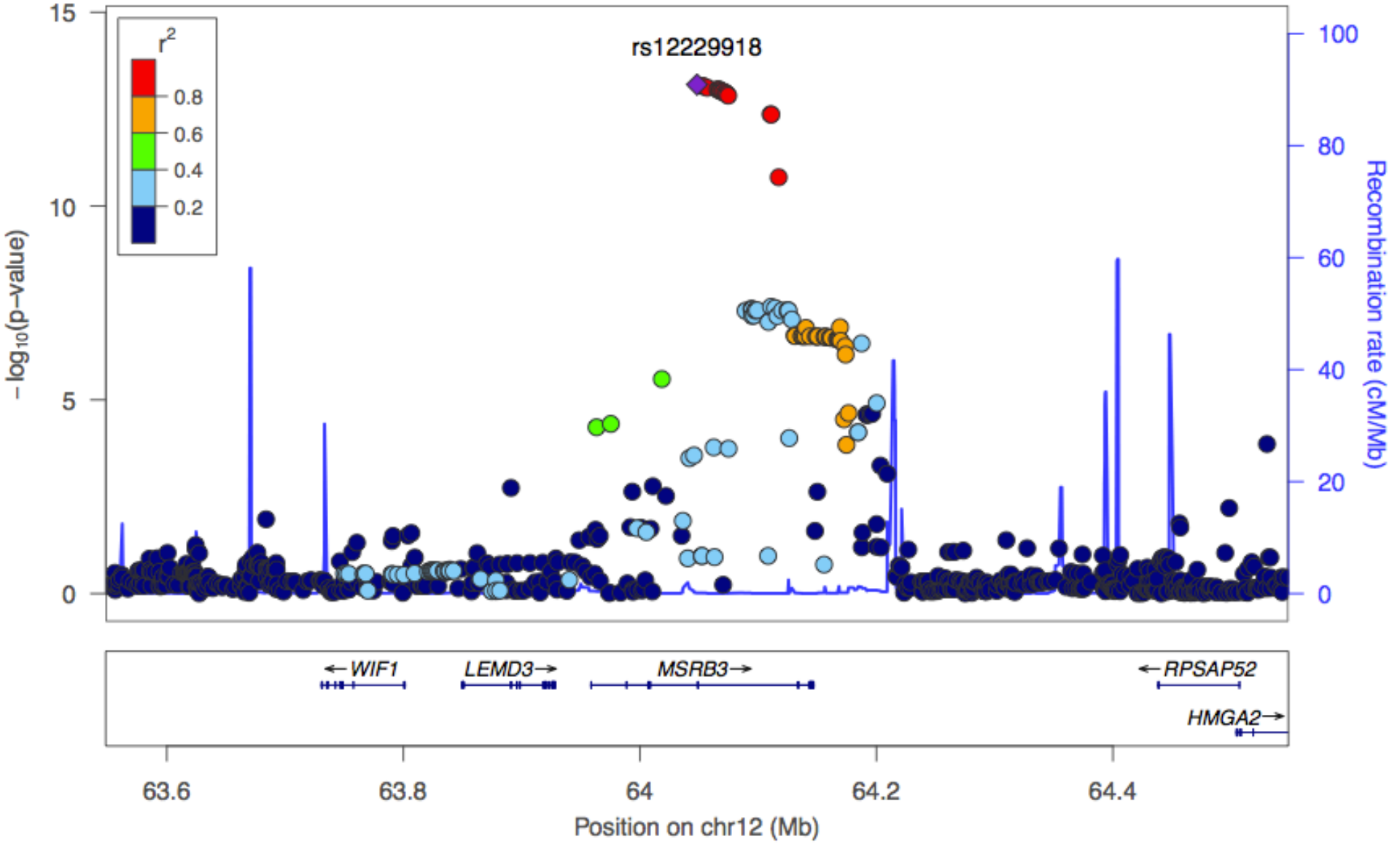
(C)


rs17563
r²
0.8
0.6
0.4
0.2
15
10
5
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
←BMP4
CDKN3→
←CNIH
53
53.2
53.4
53.6
53.8
Position on chr14 (Mb)

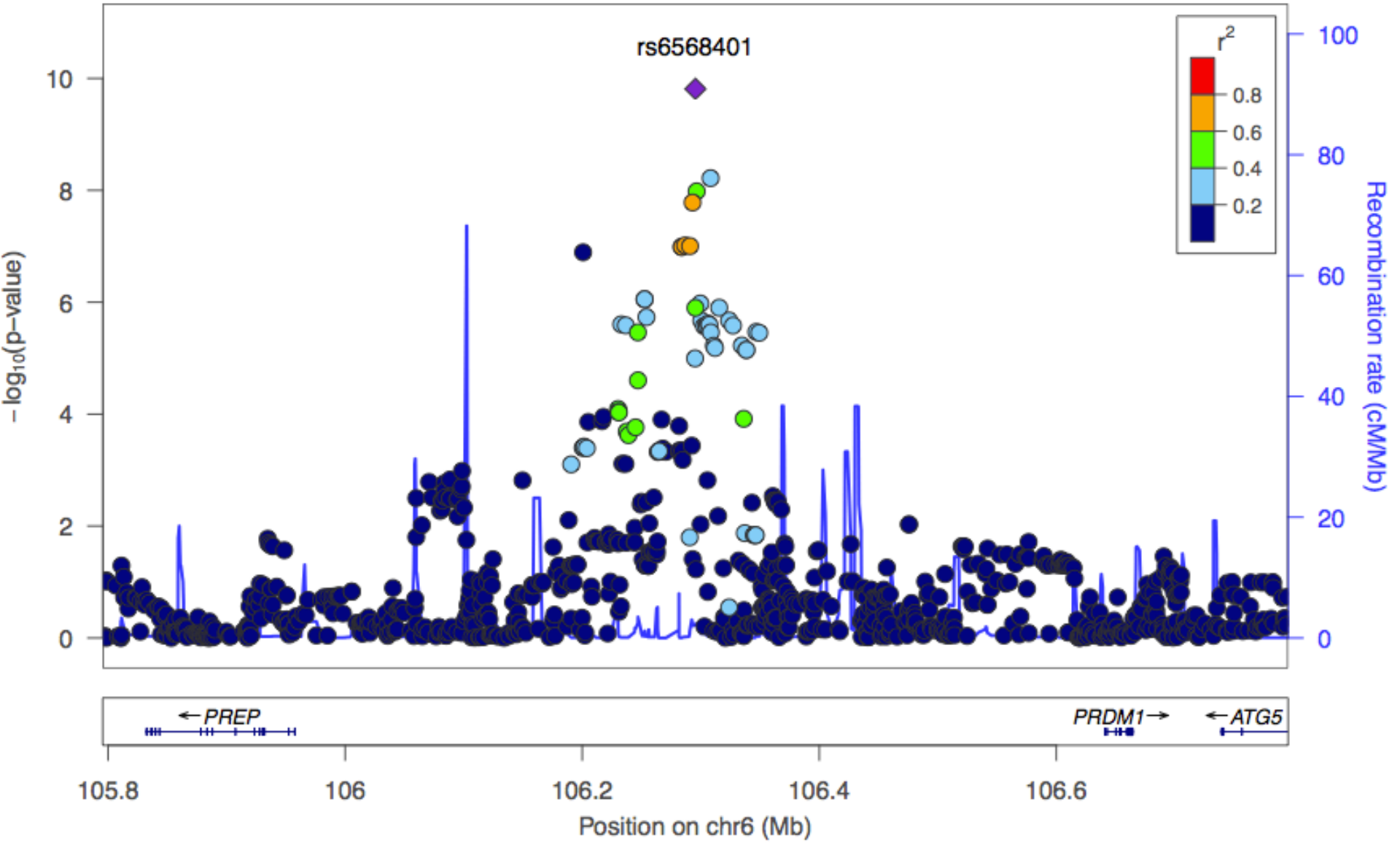
(D)


rs1994969
r²
0.8
0.6
0.4
0.2
15
10
5
0
−log₁₀(p−value)
100
80
60
40
20
0
Recombination rate (cM/Mb)
HOXB1
PRAC
CALCOCO2
GIP
B4GALNT2
ZNF652
NGFR
HOXB2
C17orf93
ATP5G1
IGF2BP1
GNGT2
PHB
HOXB3
HOXB13
UBE2Z
ABI3
HOXB4
TTLL6
SNF8
PHOSPHO1
MIR10A
44
44.2
44.4
44.6
44.8
Position on chr17 (Mb)

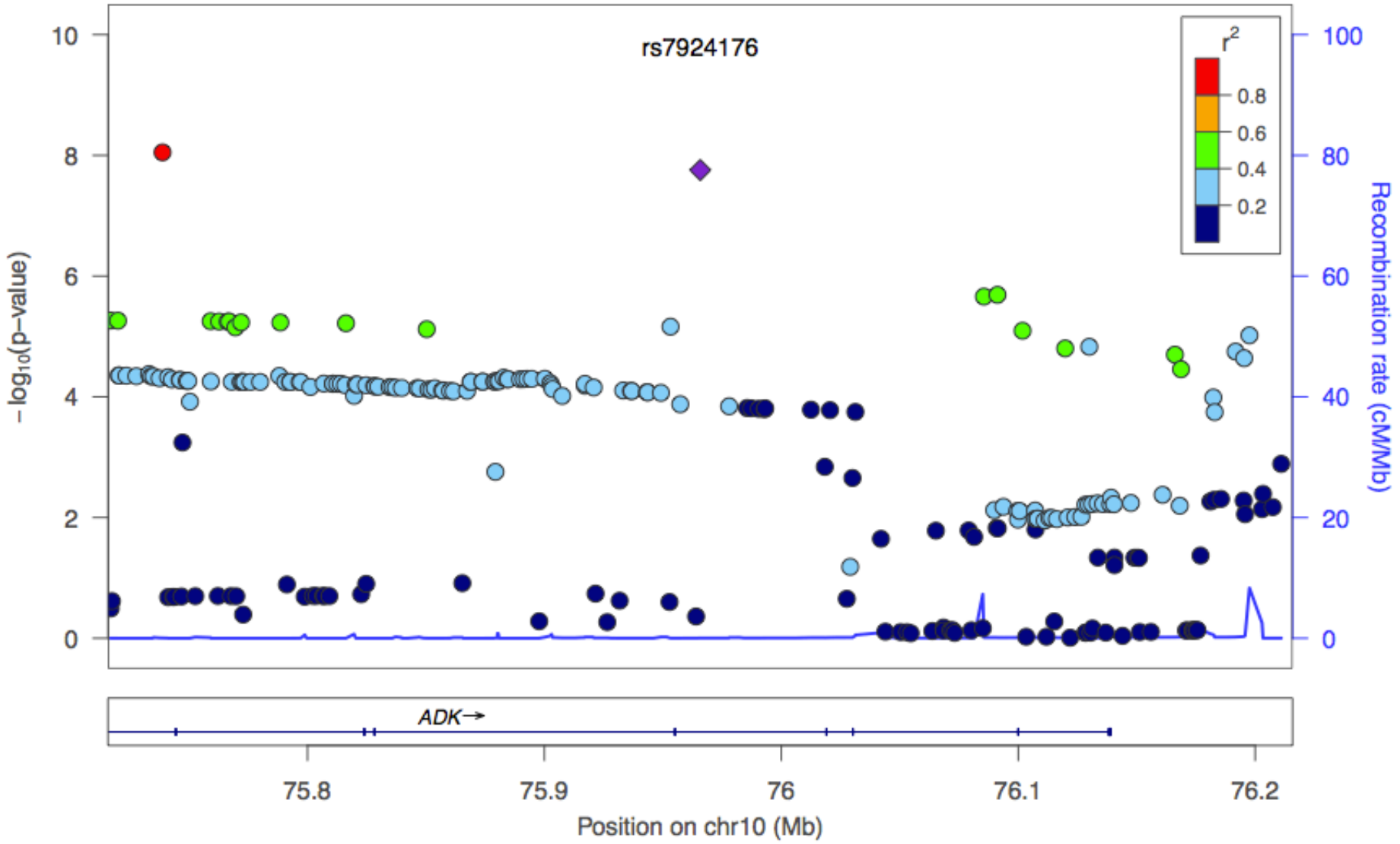
(E)


rs12229918
r2
0.8
0.6
0.4
0.2
15
10
5
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
WIF1
LEMD3
MSRB3
RPSAP52
HMGA2
63.6
63.8
64
64.2
64.4
Position on chr12 (Mb)

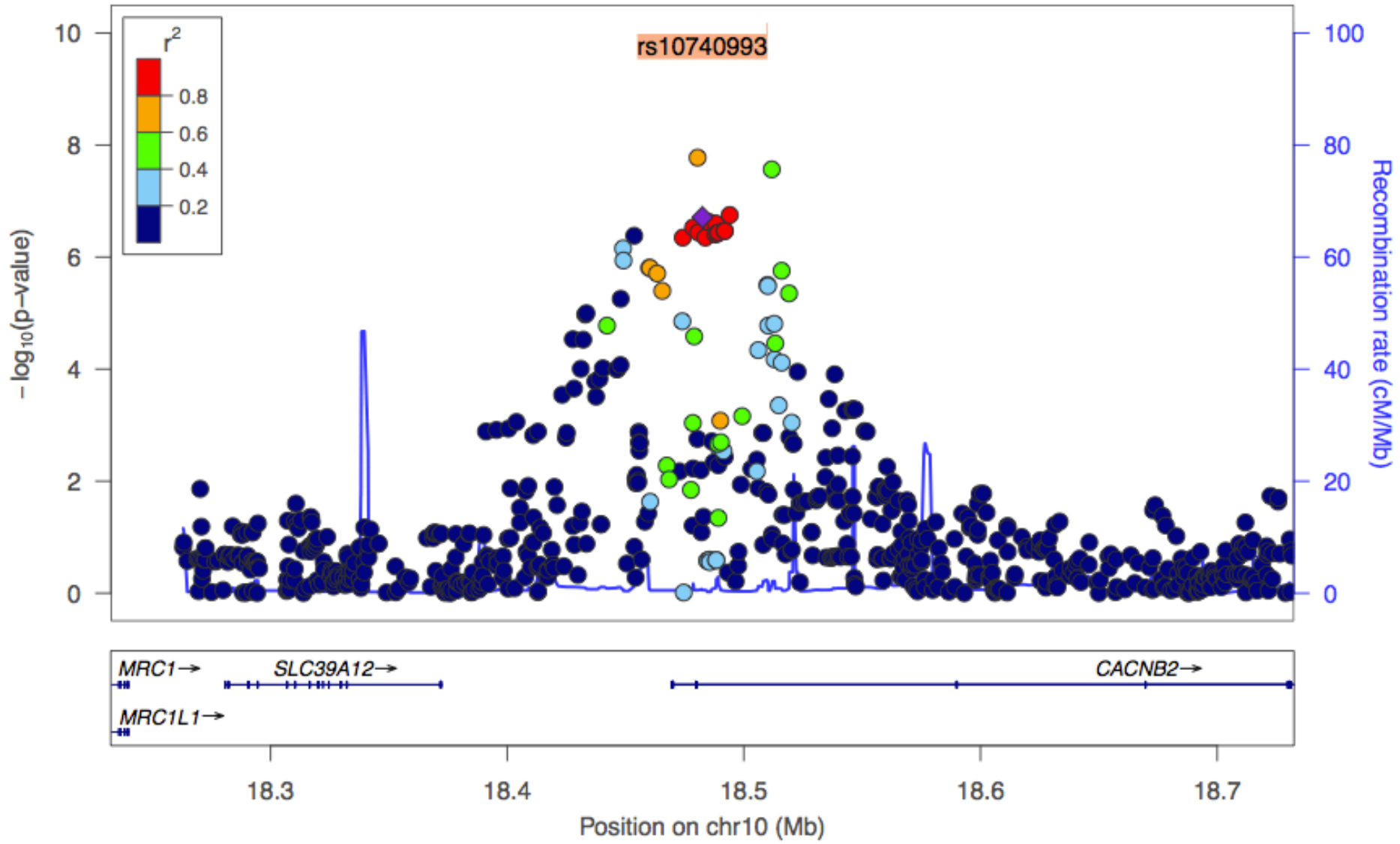
(F)


rs6568401
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
←PREP
PRDM1→
←ATG5
105.8
106
106.2
106.4
106.6
Position on chr6 (Mb)

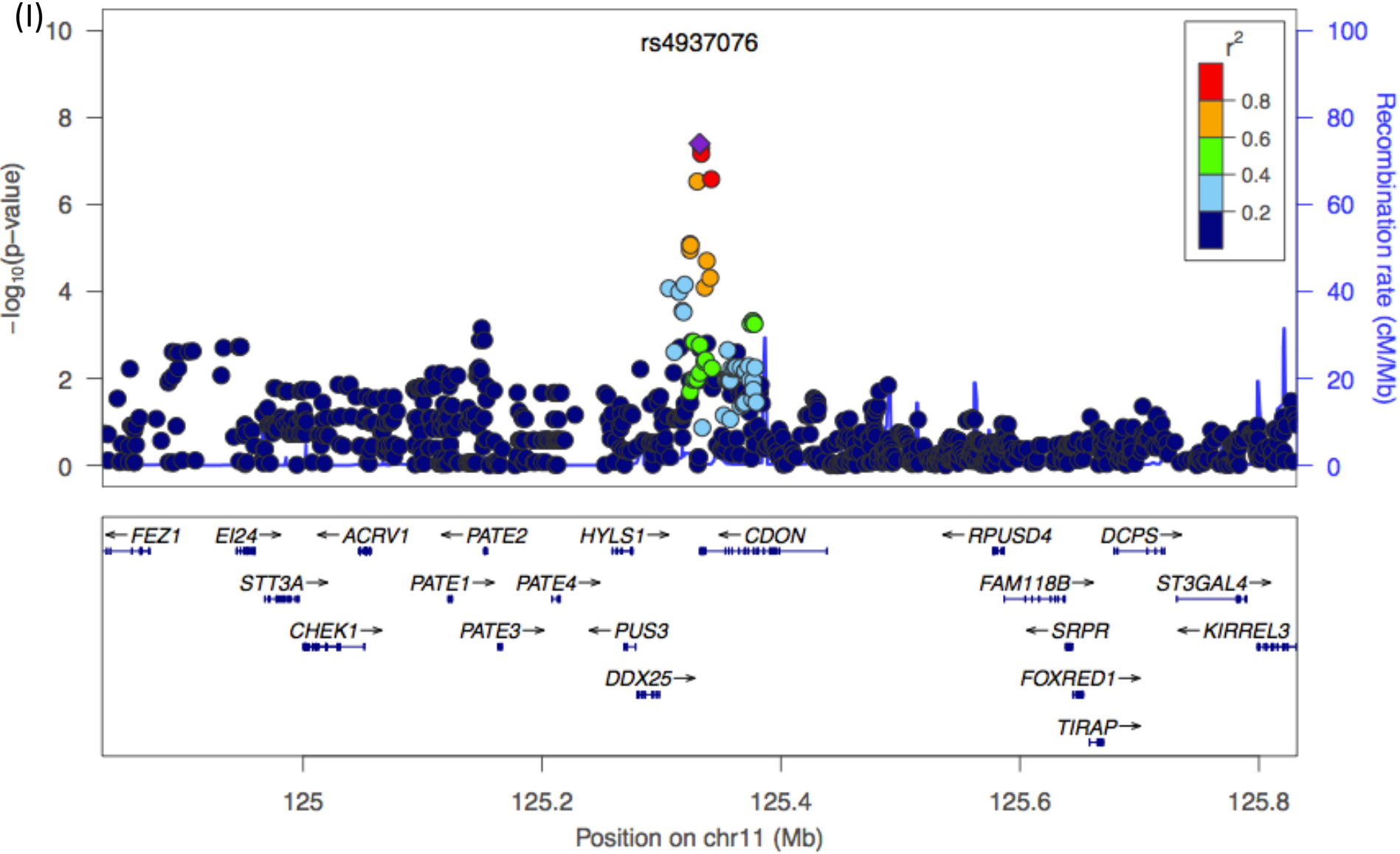
(G)


rs7924176
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
ADK
75.8
75.9
76
76.1
76.2
Position on chr10 (Mb)

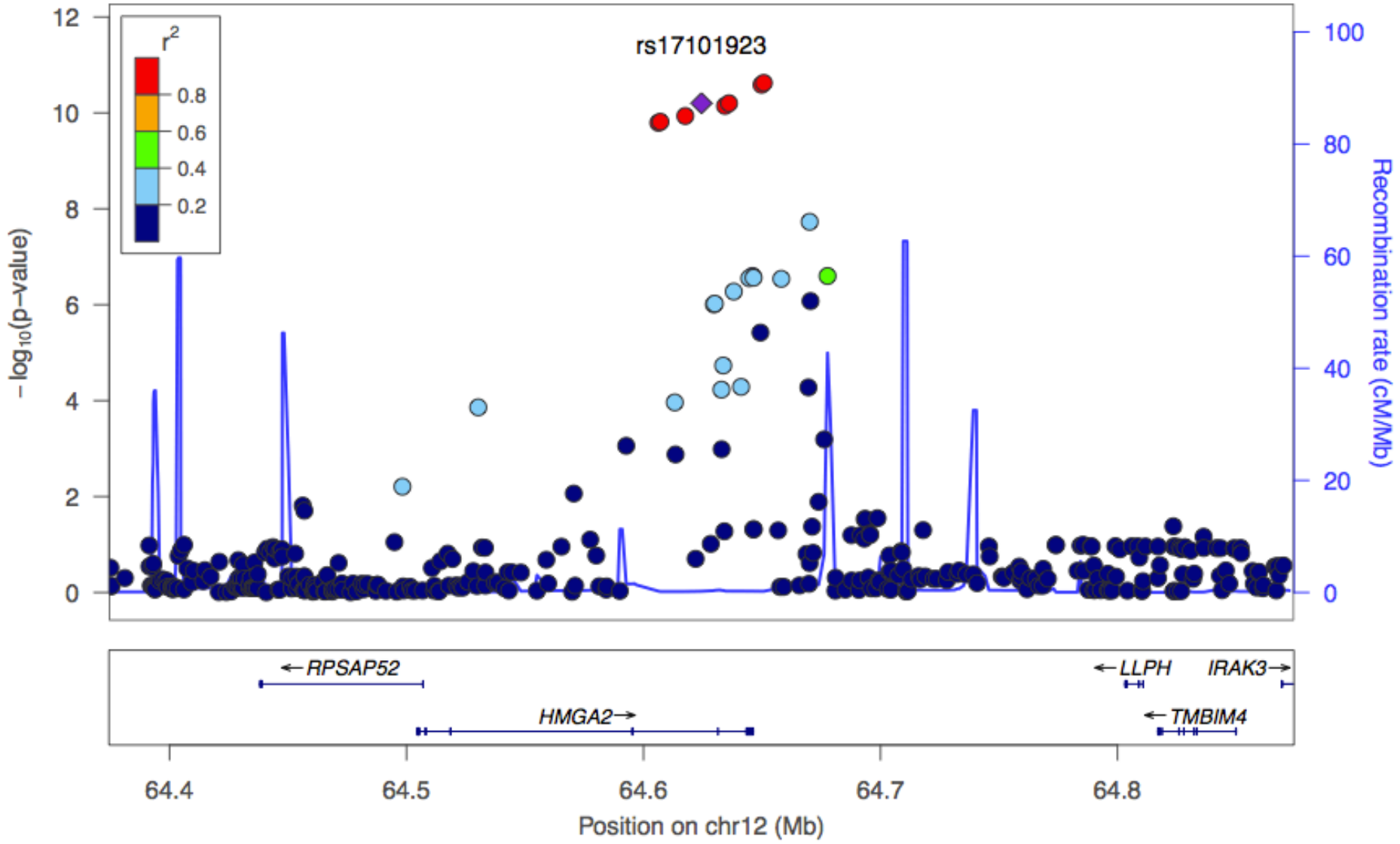
(H)


rs10740993
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
MRC1
SLC39A12
CACNB2
MRC1L1
Position on chr10 (Mb)

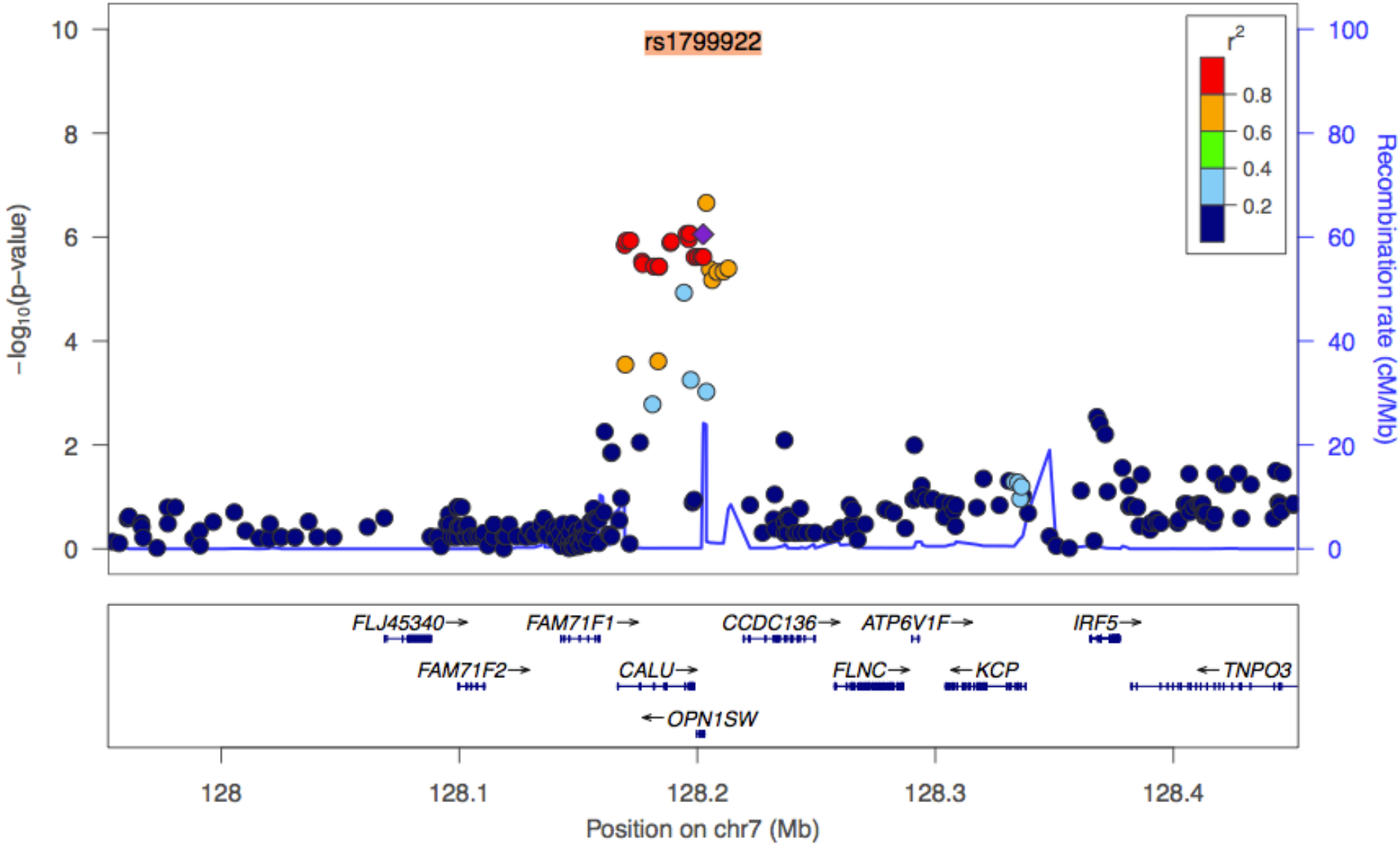
(I)


rs4937076
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
FEZ1
EI24
ACRV1
PATE2
HYLS1
CDON
RPUSD4
DCPS
STT3A
PATE1
PATE4
FAM118B
ST3GAL4
CHEK1
PATE3
PUS3
SRPR
KIRREL3
DDX25
FOXRED1
TIRAP
125
125.2
125.4
125.6
125.8
Position on chr11 (Mb)

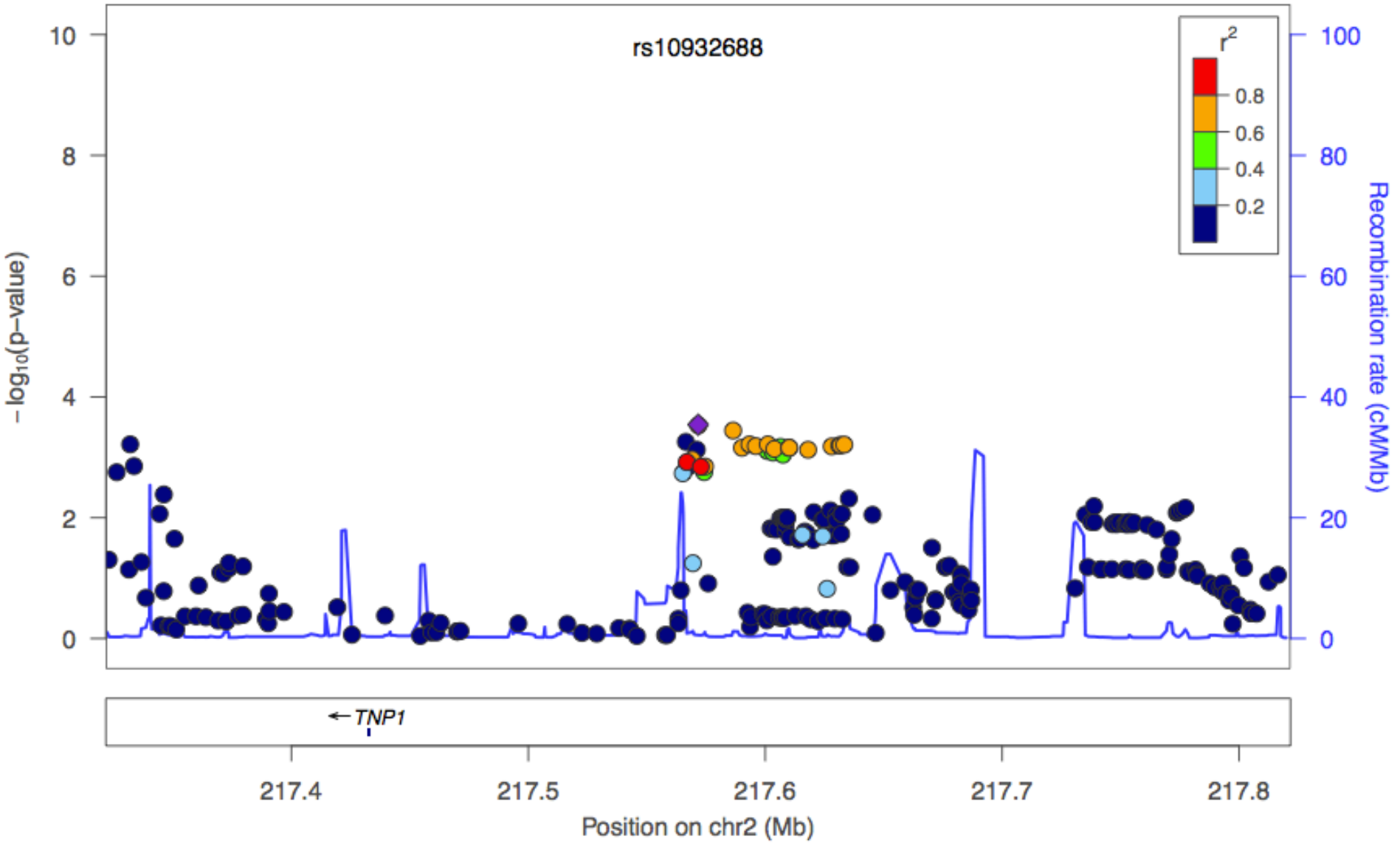
(J)


rs17101923
r²
0.8
0.6
0.4
0.2
12
10
8
6
4
2
0
− log10(p−value)
100
80
60
40
20
0
Recombination rate (cM/Mb)
RPSAP52
HMGA2
LLPH
IRAK3
TMBIM4
64.4
64.5
64.6
64.7
64.8
Position on chr12 (Mb)

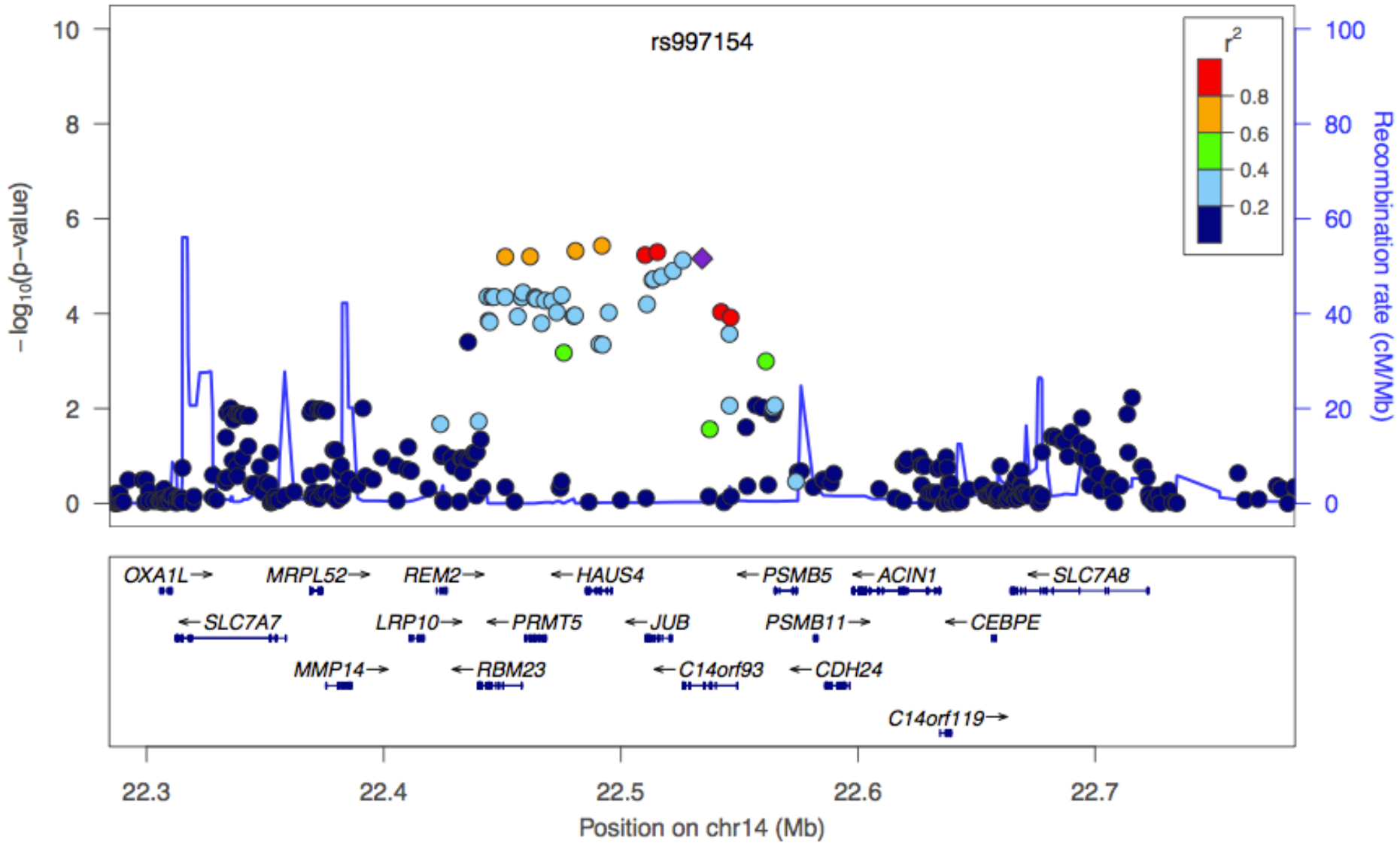
(K)


rs1799922
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
10
8
6
4
2
0
100
80
60
40
20
0
FLJ45340→
FAM71F1→
CCDC136→
ATP6V1F→
IRF5→
FAM71F2→
CALU→
FLNC→
←KCP
←TNPO3
←OPN1SW
128
128.1
128.2
128.3
128.4
Position on chr7 (Mb)

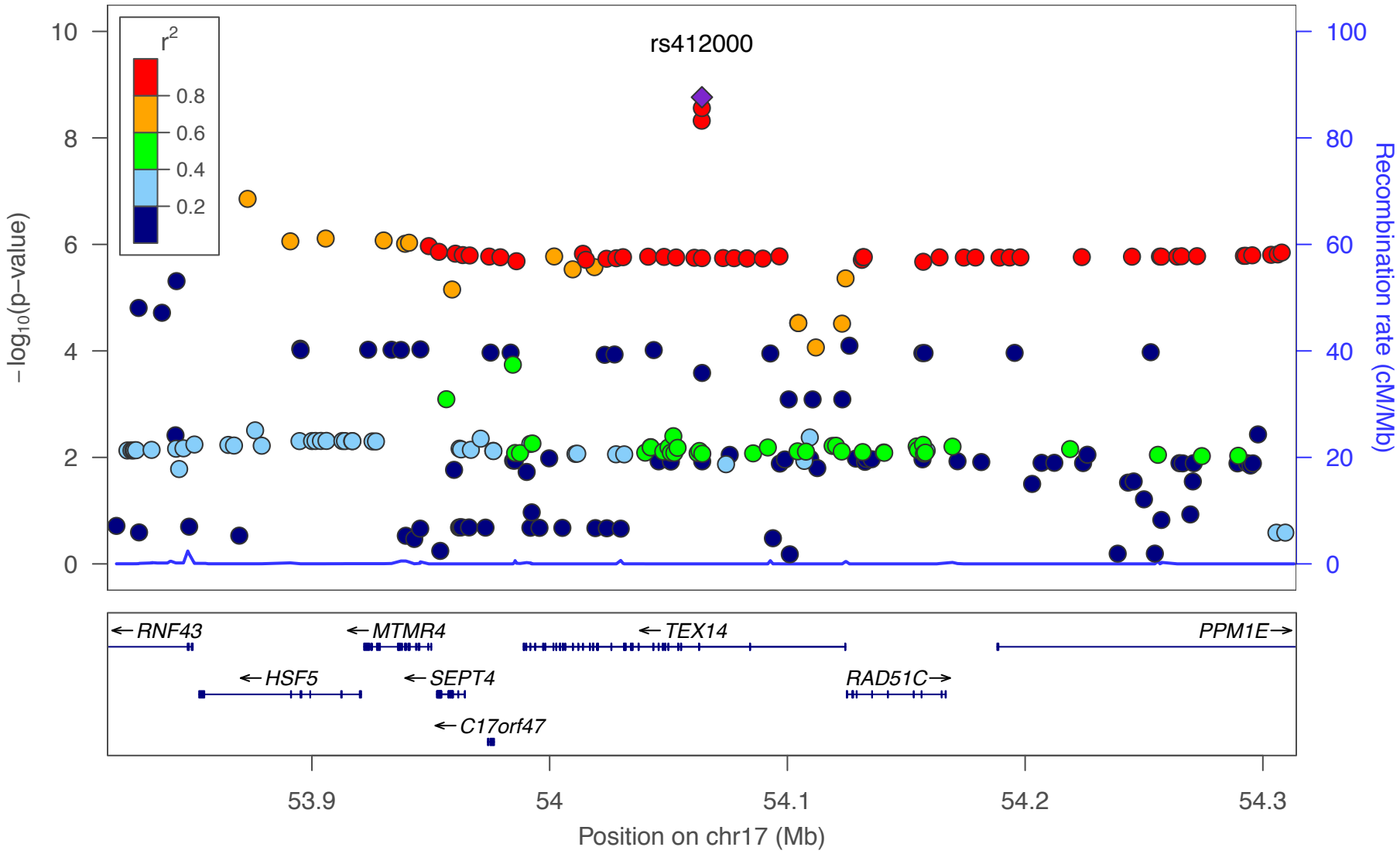
(L)

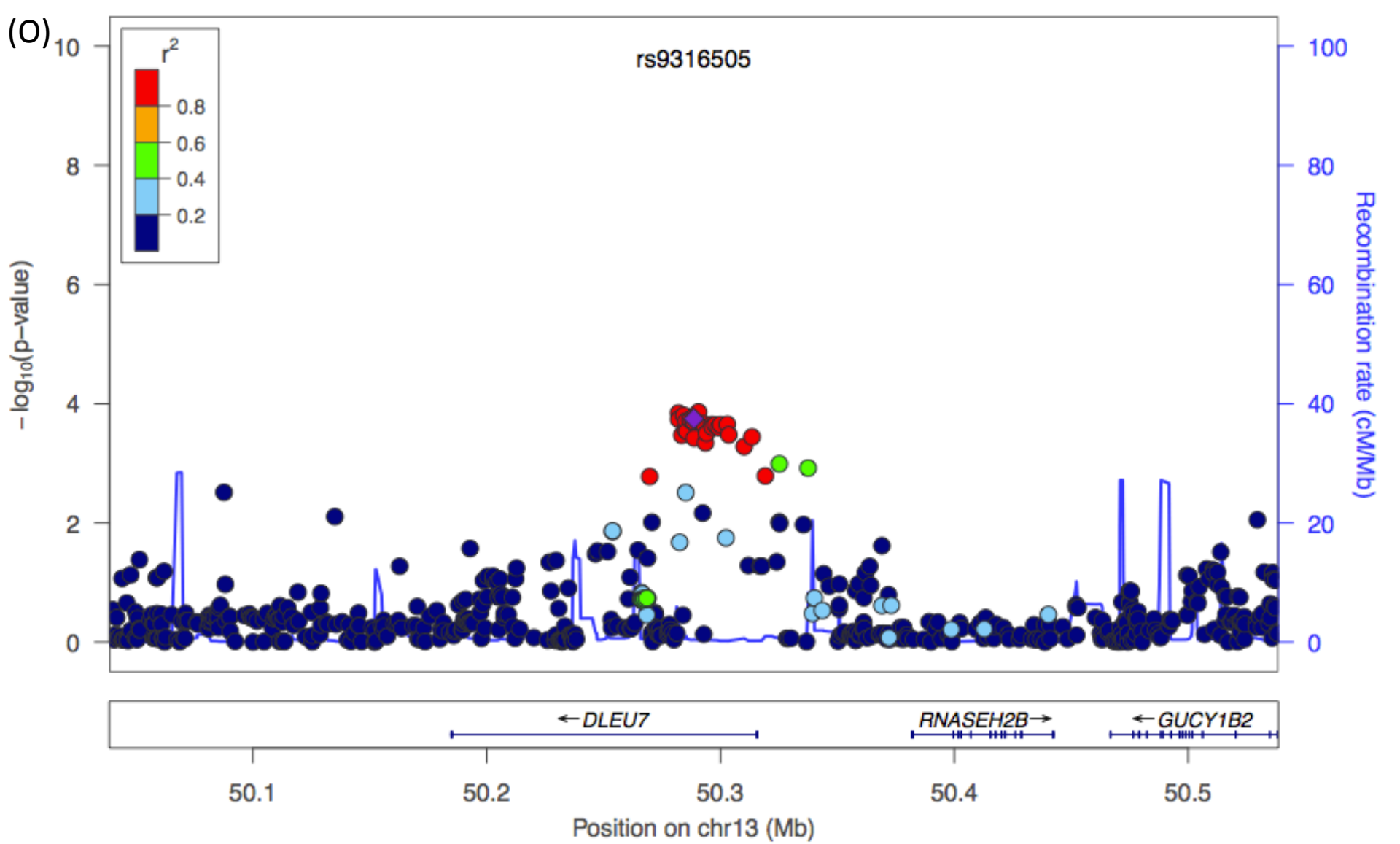

rs10932688
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
TNP1
217.4
217.5
217.6
217.7
217.8
Position on chr2 (Mb)

(M)


rs997154
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
10
8
6
4
2
0
100
80
60
40
20
0
OXA1L
MRPL52
REM2
HAUS4
PSMB5
ACIN1
SLC7A8
SLC7A7
LRP10
PRMT5
JUB
PSMB11
CEBPE
MMP14
RBM23
C14orf93
CDH24
C14orf119
22.3
22.4
22.5
22.6
22.7
Position on chr14 (Mb)

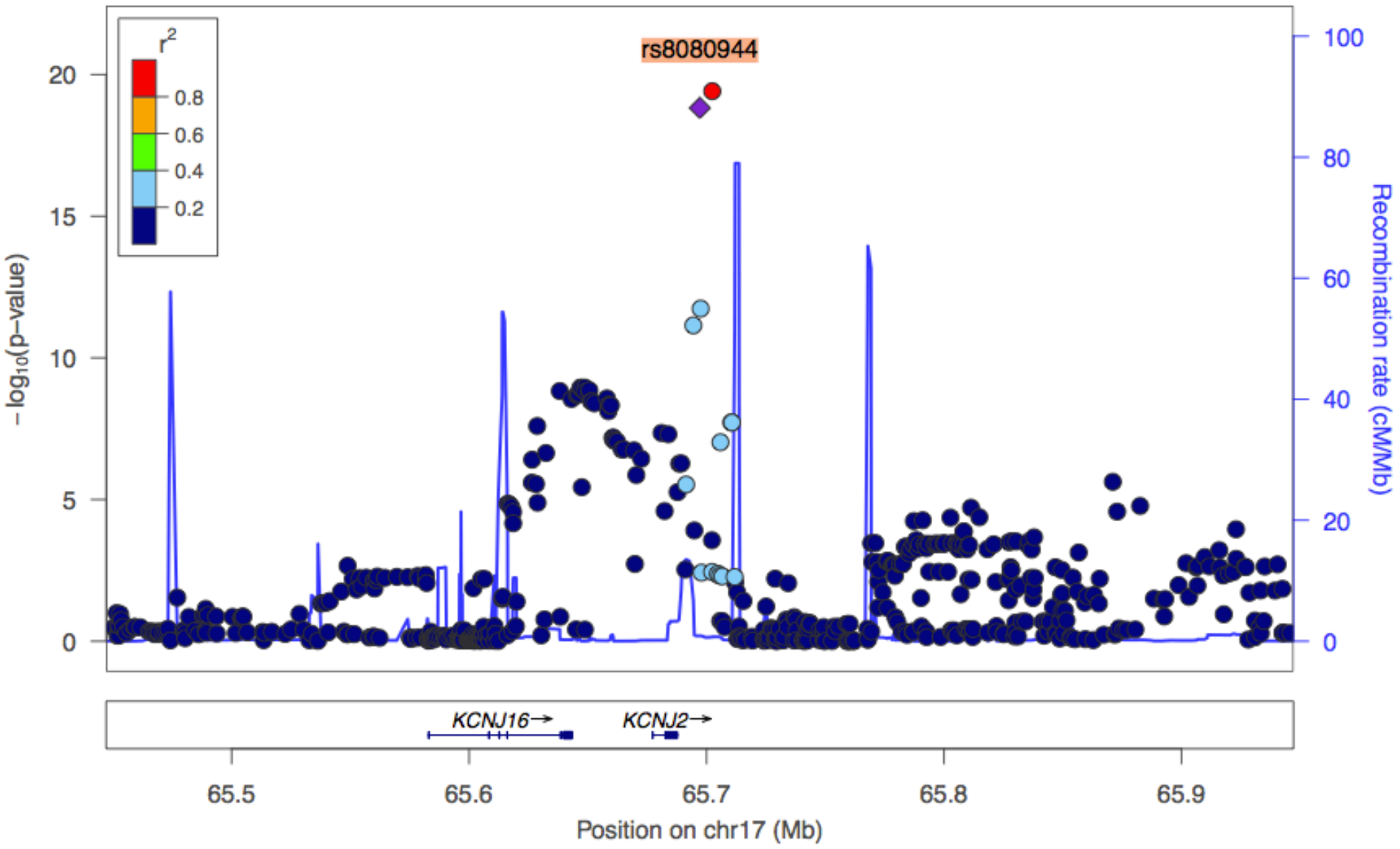
(N)


rs412000
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
←RNF43
←MTMR4
←TEX14
PPM1E→
←HSF5
←SEPT4
RAD51C→
←C17orf47
53.9
54
54.1
54.2
54.3
Position on chr17 (Mb)

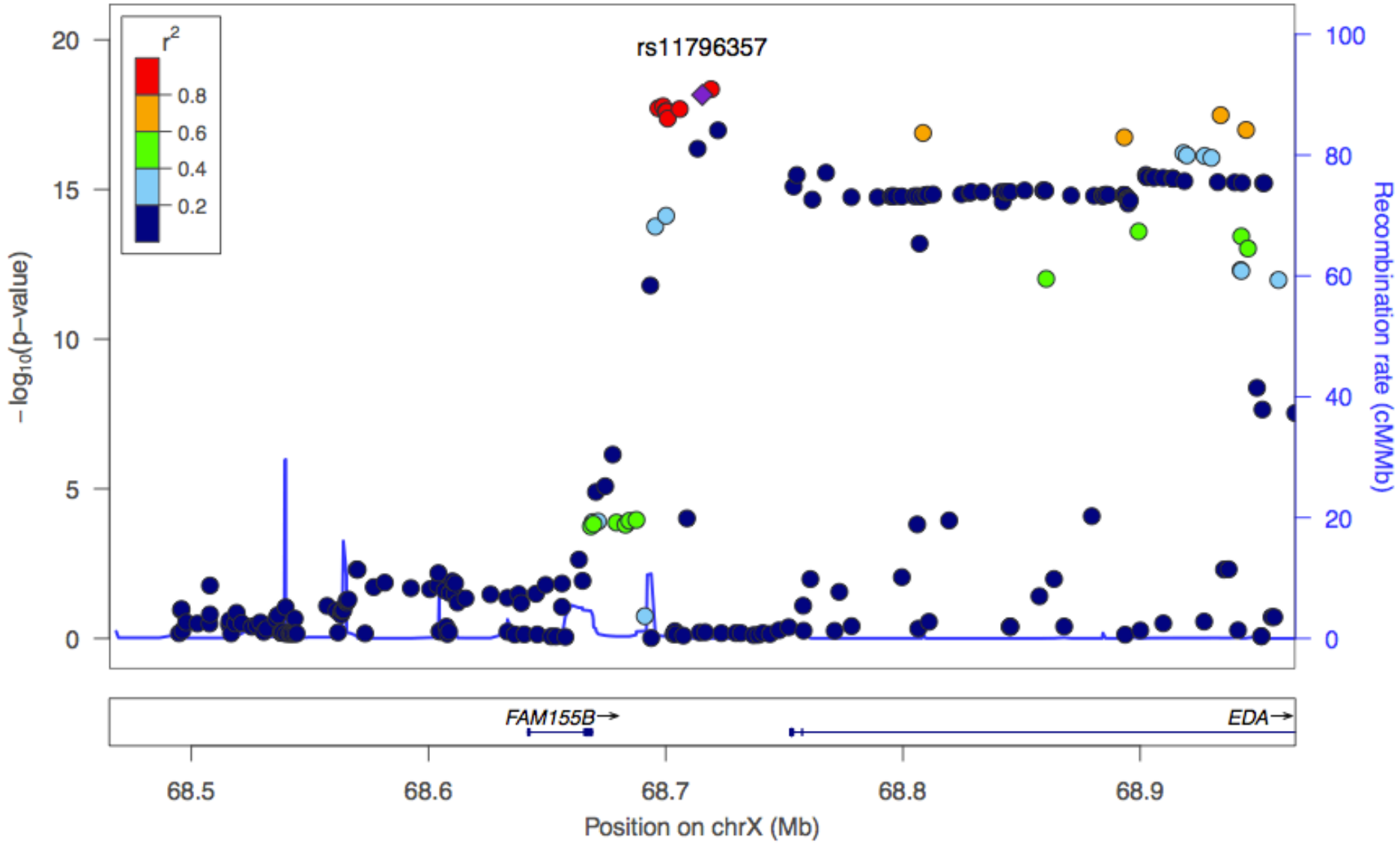


Supplementary Figure 2: Linkage disequilibrium and Association plot of loci reaching genome-wide significance for 'age at first tooth' in meta-analysis of ALSPAC and NFBC (A) rs8080944 *KCNJ16-KCNJ2* region (B) rs11796357 *FAM155- EDA* gene region (C) rs17563 *BMP4* gene region (D) rs1994969 *IGF2BP1* gene region (E) rs12229918 gene *MSRB3* (F) rs6568401 (G) rs7924176 *ADK* gene region (H) rs10740993 *CACNB2* gene region (I) rs4937076 *CDON* gene region. (J) rs17101923 *HMGA2* gene region (K) rs1799922 *CALU* (L)rs10932688 *2q35* region (M) rs997154 *AJUBA* gene region (N) rs412000 TEX14/RAD51C region (O) rs9316505 gene region. The most significant SNPs in each region plotted in purple. Genes are based on Genome browser (RefSeq Genes). Arrows on genes give direction of transcription.

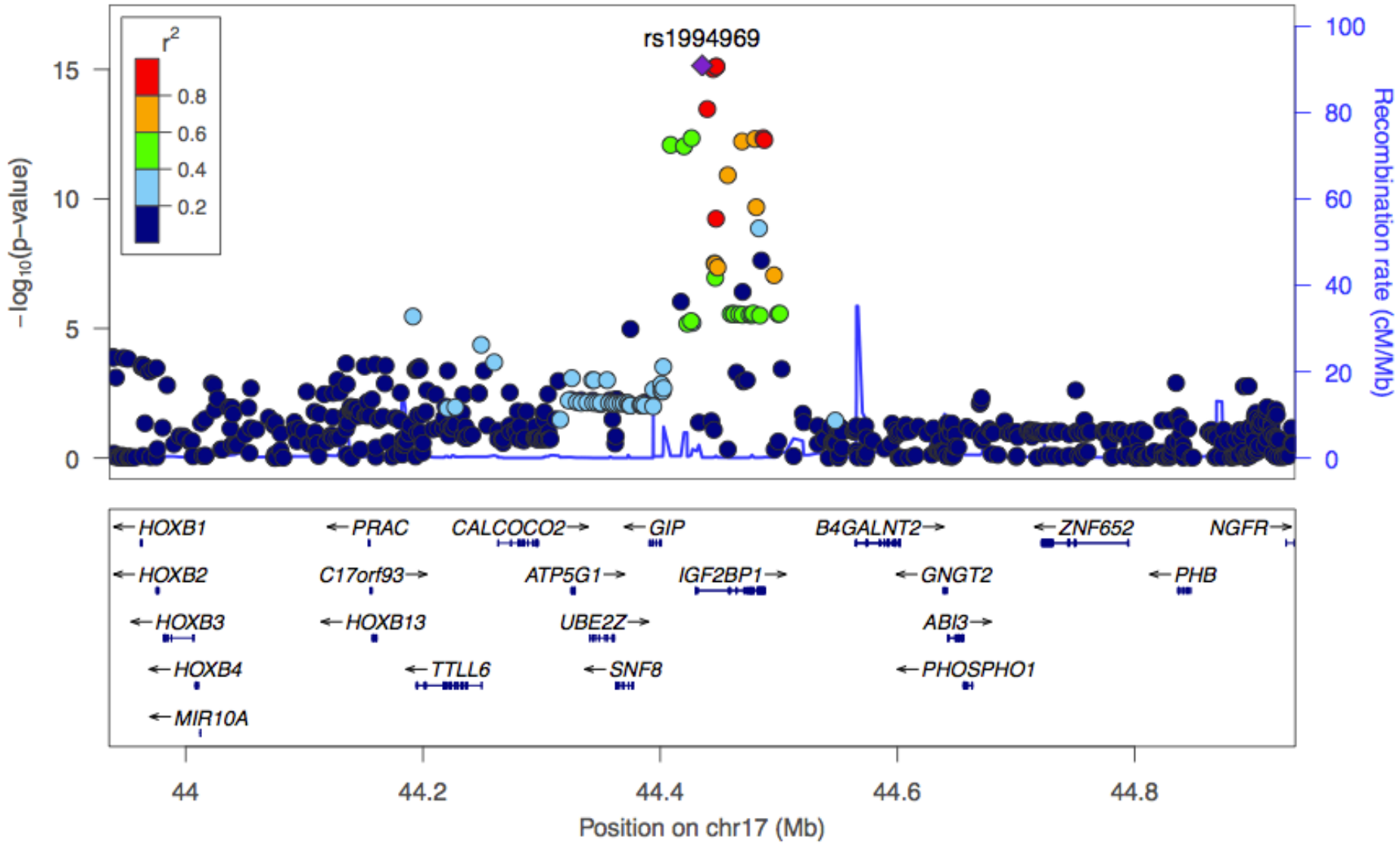
(A)


r²
0.8
0.6
0.4
0.2
rs8080944
20
15
10
5
0
−log10(p−value)
100
80
60
40
20
0
Recombination rate (cM/Mb)
KCNJ16
KCNJ2
65.5
65.6
65.7
65.8
65.9
Position on chr17 (Mb)

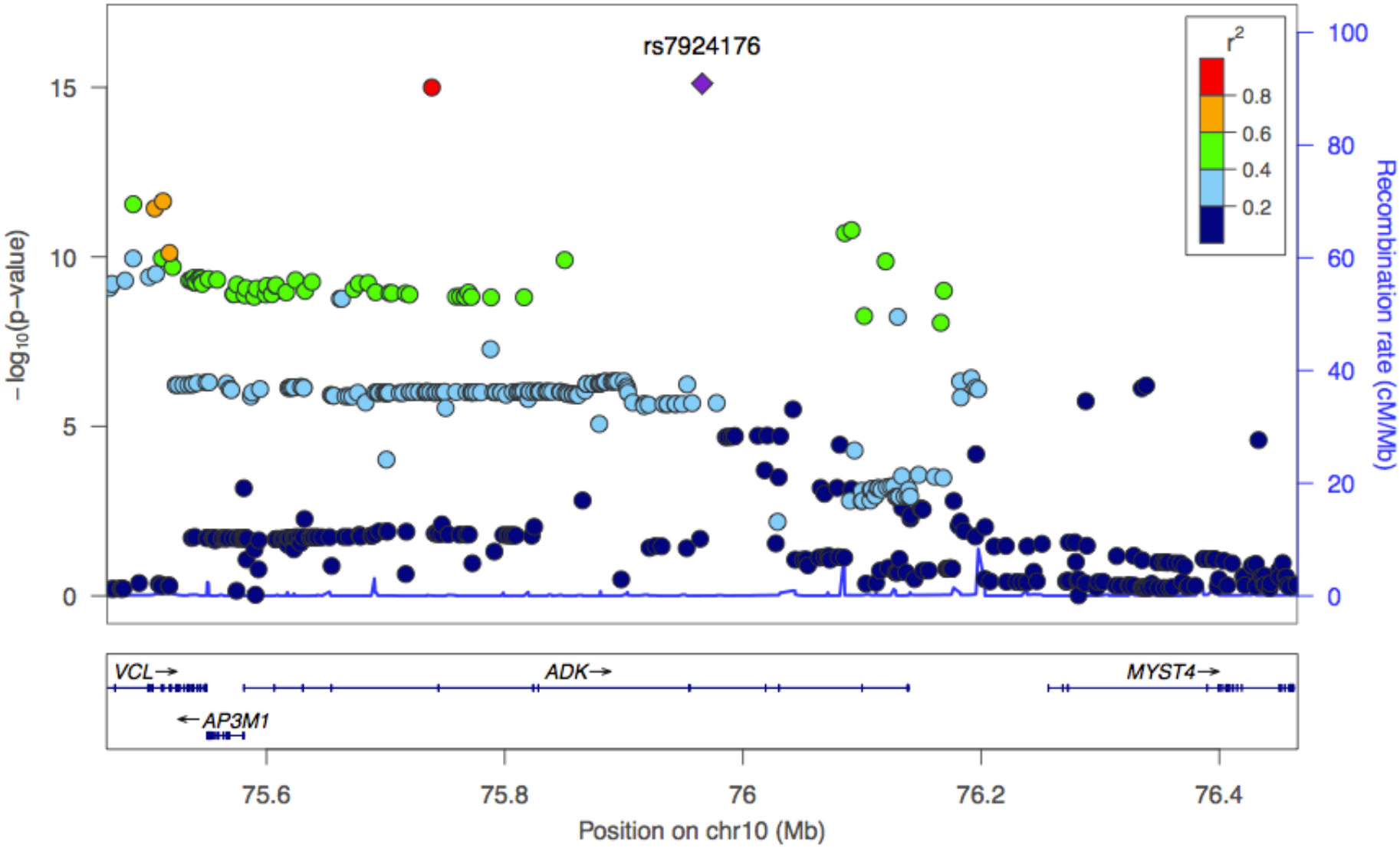
(B)


rs11796357
r²
0.8
0.6
0.4
0.2
20
15
10
5
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
FAM155B
EDA
68.5
68.6
68.7
68.8
68.9
Position on chrX (Mb)

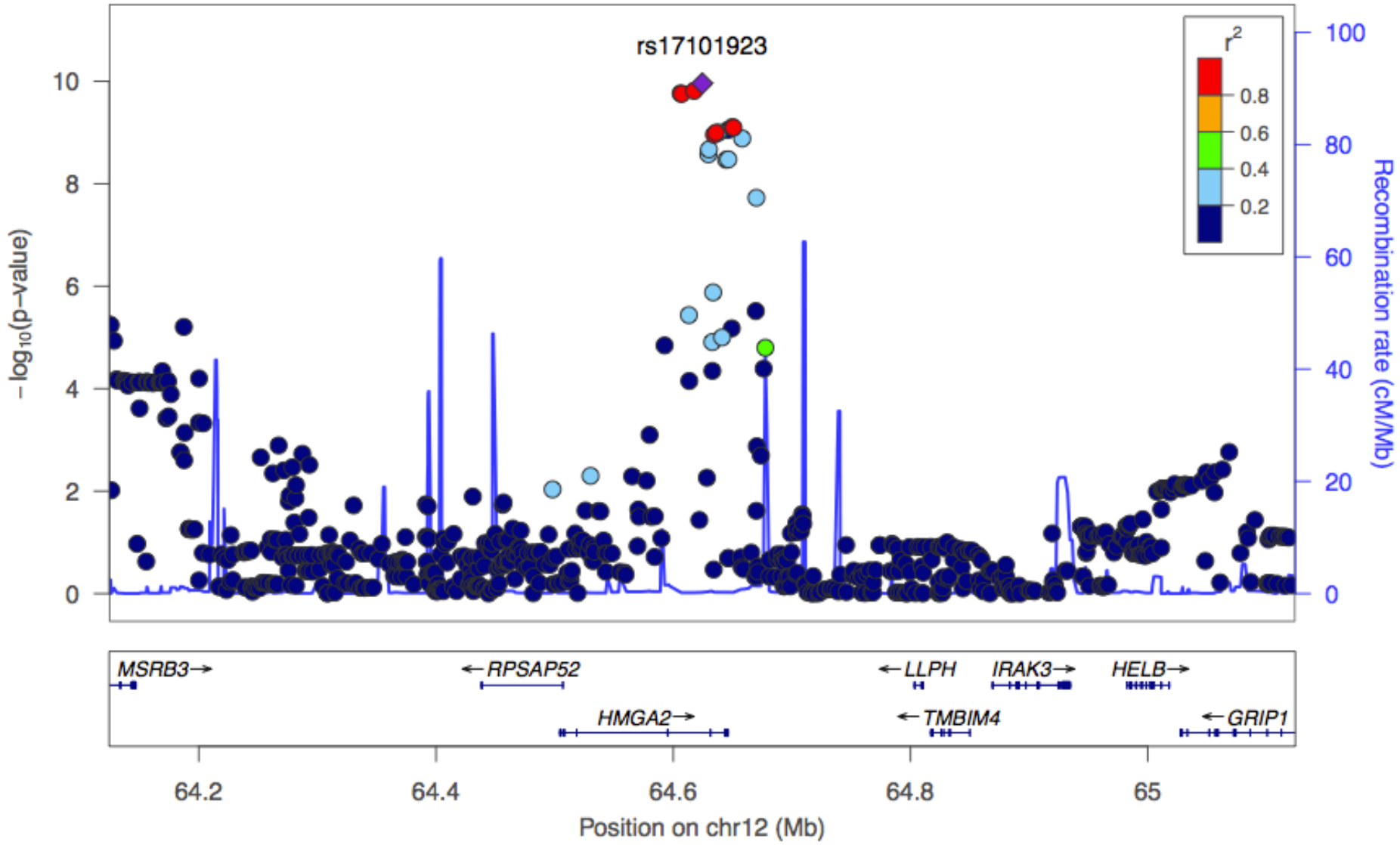
(C)


rs1994969
r²
0.8
0.6
0.4
0.2
15
10
5
0
−log10(p−value)
100
80
60
40
20
0
Recombination rate (cM/Mb)
HOXB1
PRAC
CALCOCO2
GIP
B4GALNT2
ZNF652
NGFR
HOXB2
C17orf93
ATP5G1
IGF2BP1
GNGT2
PHB
HOXB3
HOXB13
UBE2Z
ABI3
HOXB4
TTLL6
SNF8
PHOSPHO1
MIR10A
44
44.2
44.4
44.6
44.8
Position on chr17 (Mb)

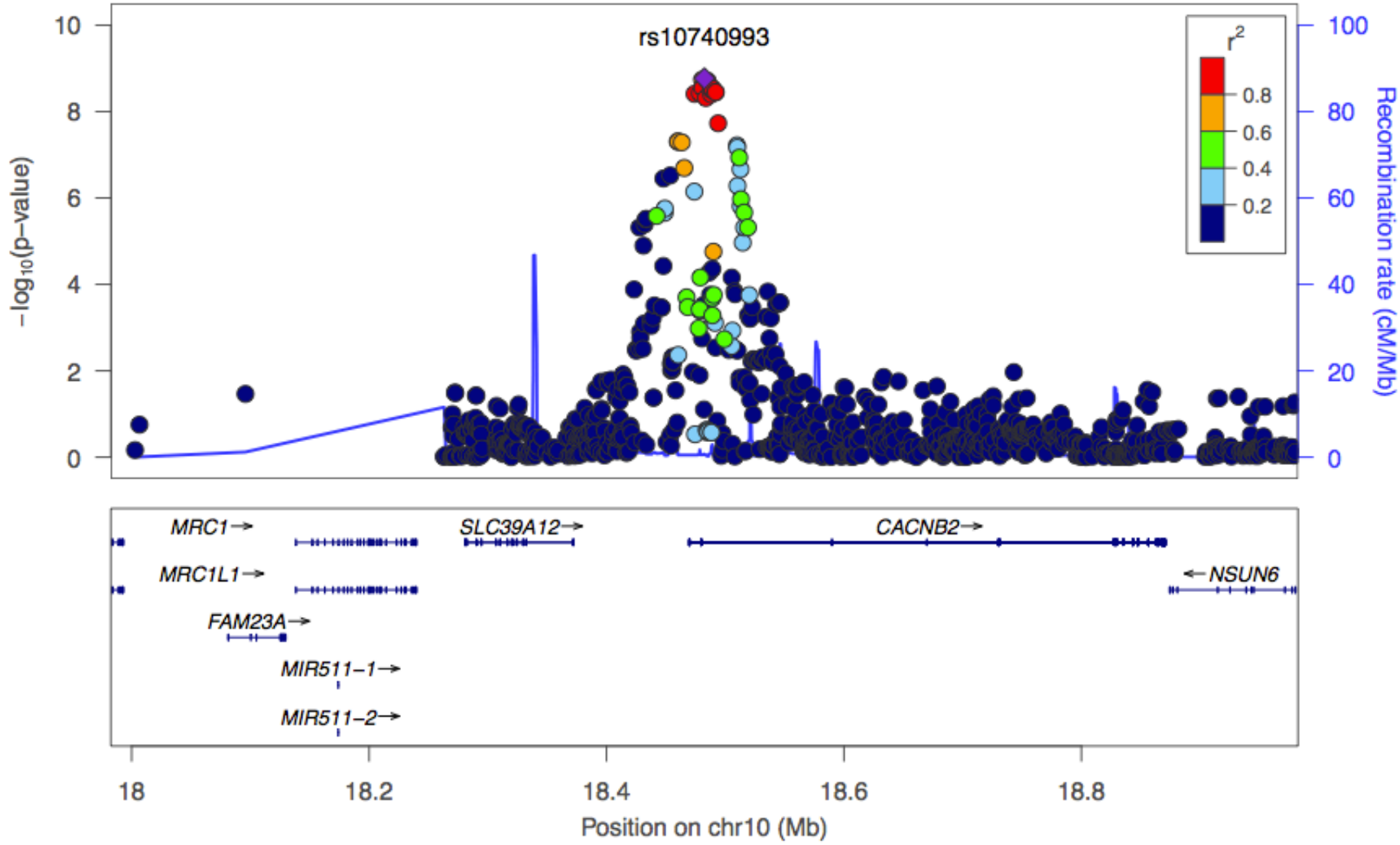
(D)


rs7924176
r²
0.8
0.6
0.4
0.2
15
10
5
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
VCL→
ADK→
MYST4→
←AP3M1
75.6
75.8
76
76.2
76.4
Position on chr10 (Mb)

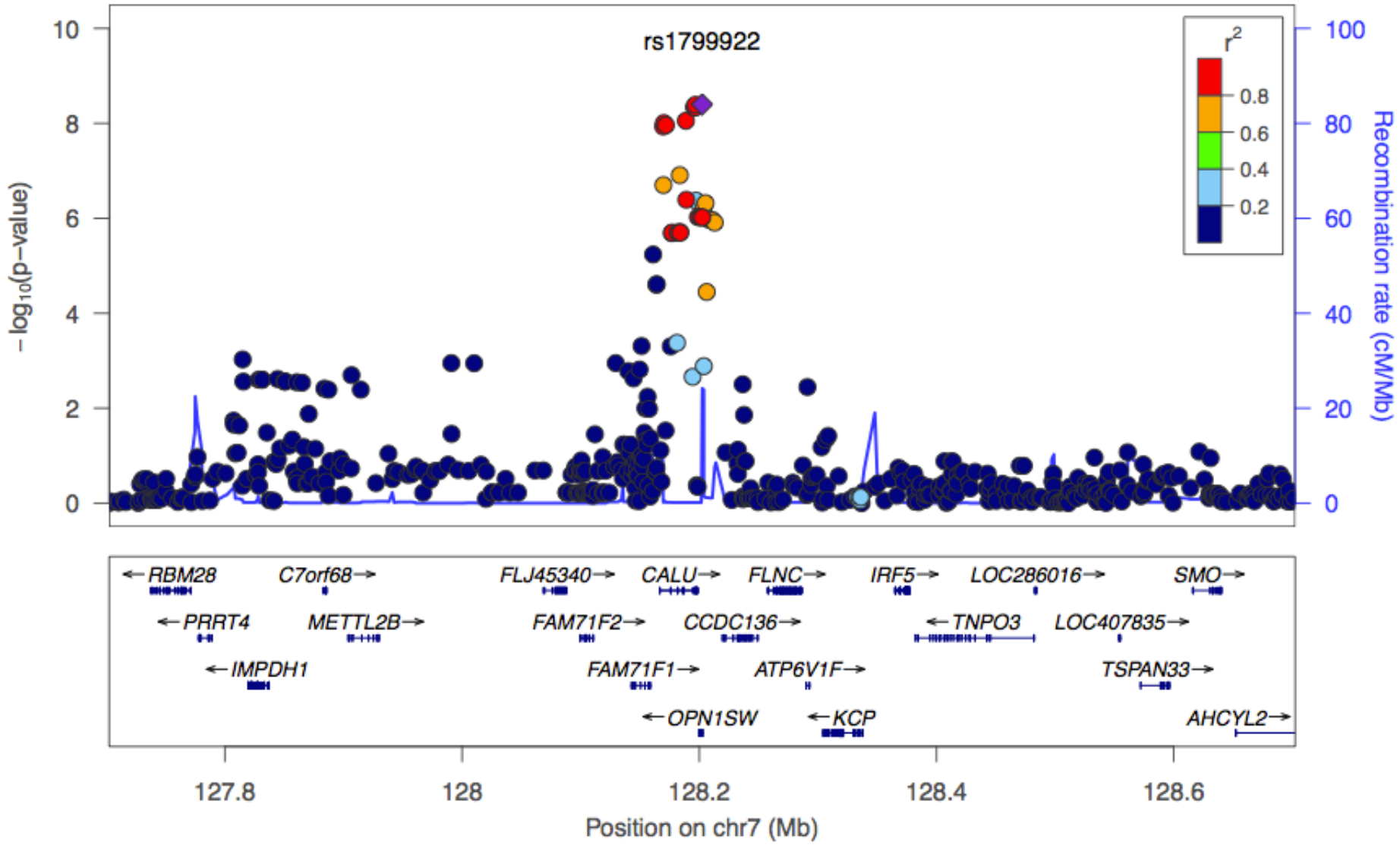
(E)


rs17101923
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
MSRB3
RPSAP52
LLPH
IRAK3
HELB
HMGA2
TMBIM4
GRIP1
64.2
64.4
64.6
64.8
65
Position on chr12 (Mb)

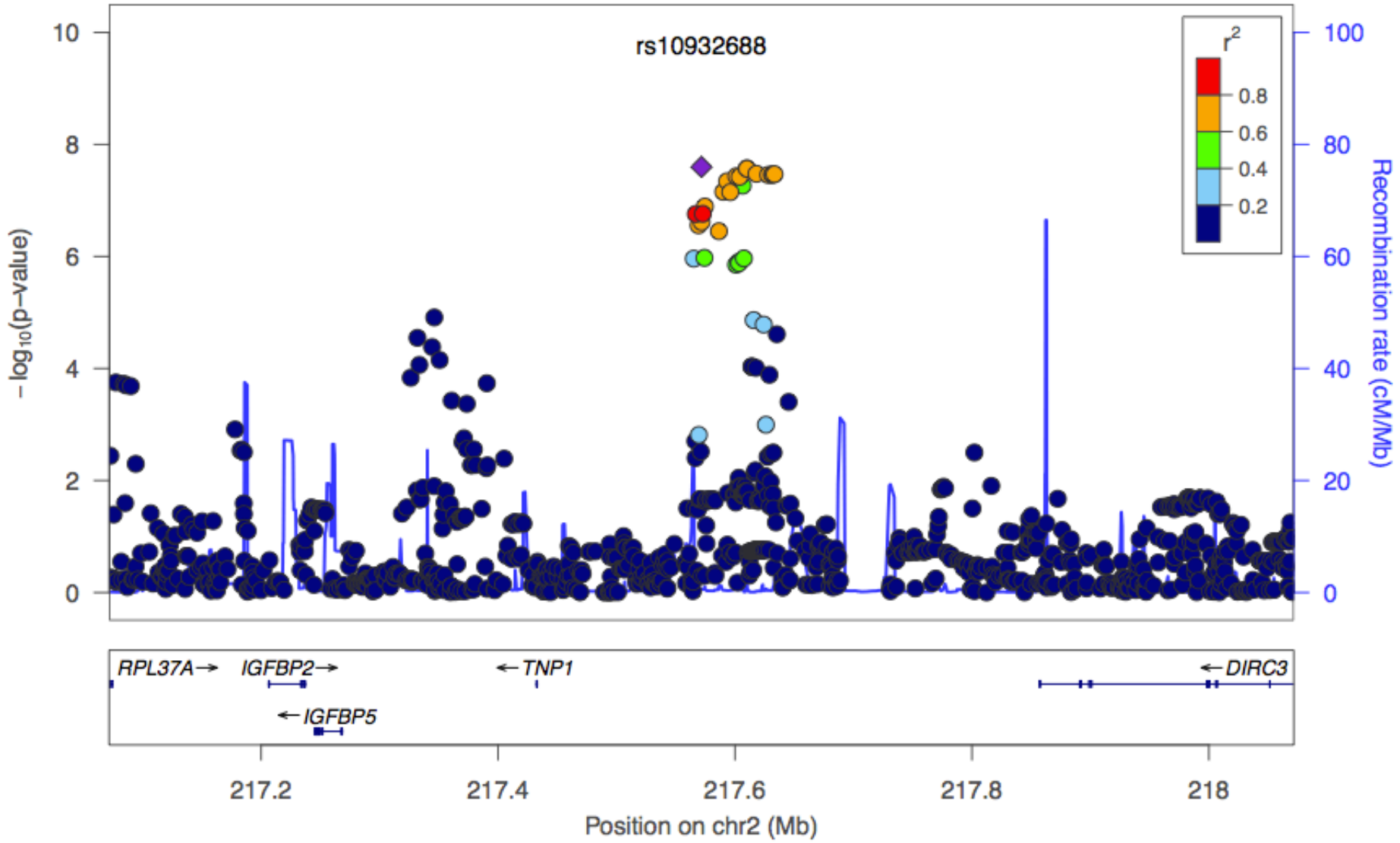
(F)


rs10740993
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
10
8
6
4
2
0
100
80
60
40
20
0
MRC1
MRC1L1
FAM23A
MIR511−1
MIR511−2
SLC39A12
CACNB2
NSUN6
18
18.2
18.4
18.6
18.8
Position on chr10 (Mb)

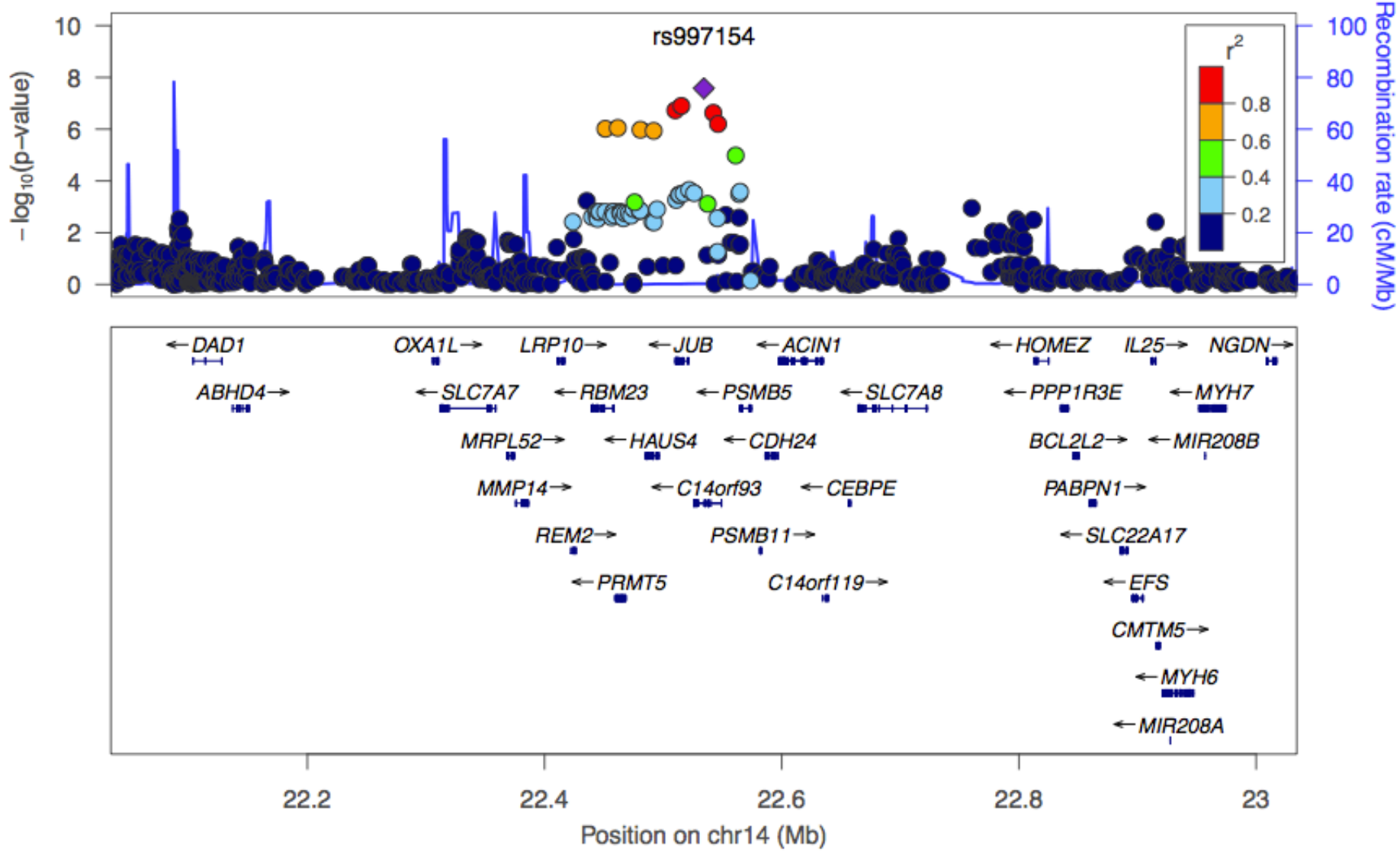
(G)


rs1799922
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
− log10(p−value)
Recombination rate (cM/Mb)
←RBM28
C7orf68→
FLJ45340→
CALU→
FLNC→
IRF5→
LOC286016→
SMO→
←PRRT4
METTL2B→
FAM71F2→
CCDC136→
←TNPO3
LOC407835→
←IMPDH1
FAM71F1→
ATP6V1F→
TSPAN33→
←OPN1SW
←KCP
AHCYL2→
127.8
128
128.2
128.4
128.6
Position on chr7 (Mb)

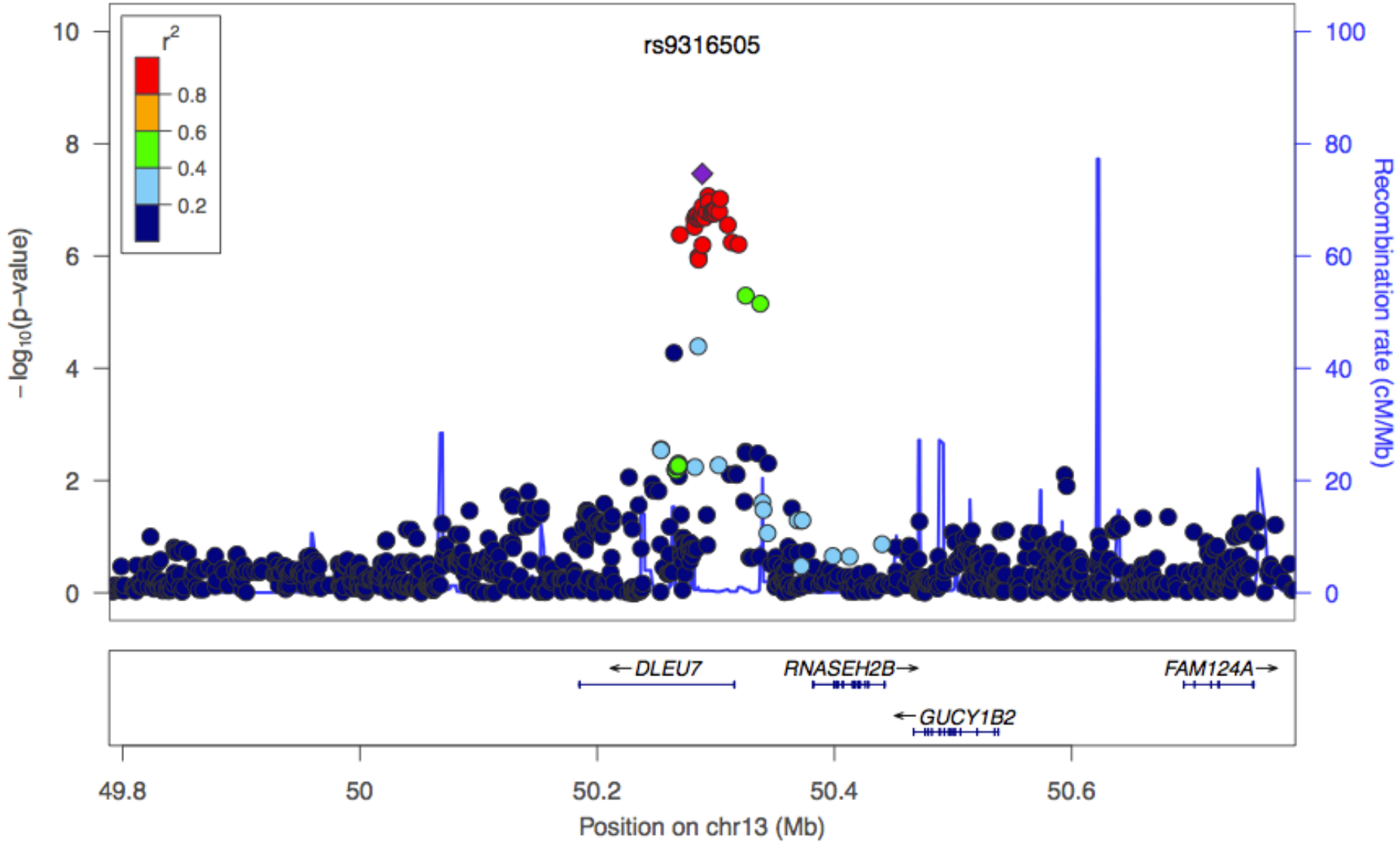
(H)


rs10932688
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
RPL37A
IGFBP2
IGFBP5
TNP1
DIRC3
217.2
217.4
217.6
217.8
218
Position on chr2 (Mb)

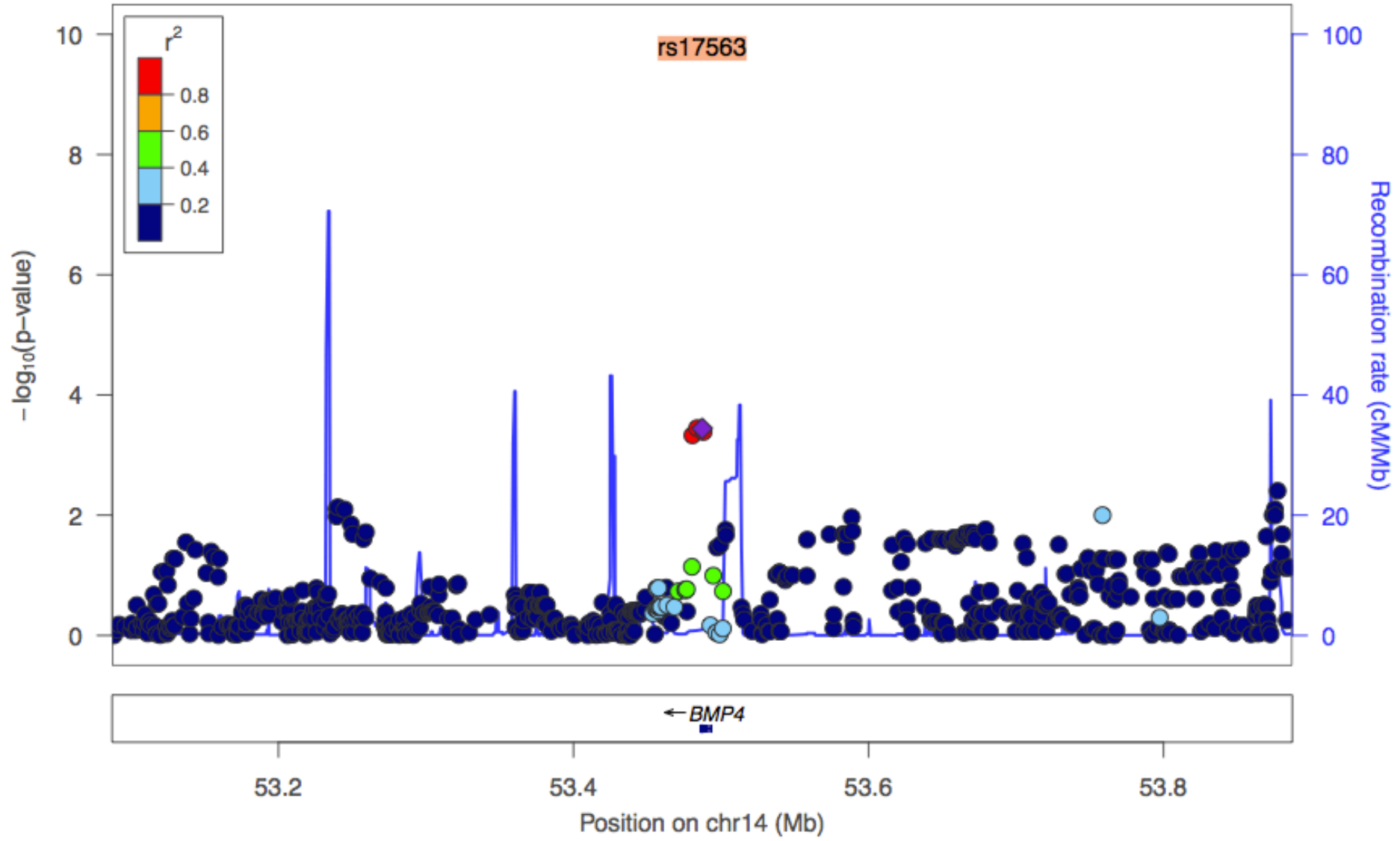
(I)


rs997154
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
DAD1
OXA1L
LRP10
JUB
ACIN1
HOMEZ
IL25
NGDN
ABHD4
SLC7A7
RBM23
PSMB5
SLC7A8
PPP1R3E
MYH7
MRPL52
HAUS4
CDH24
BCL2L2
MIR208B
MMP14
C14orf93
CEBPE
PABPN1
REM2
PSMB11
SLC22A17
PRMT5
C14orf119
EFS
CMTM5
MYH6
MIR208A
22.2
22.4
22.6
22.8
23
Position on chr14 (Mb)

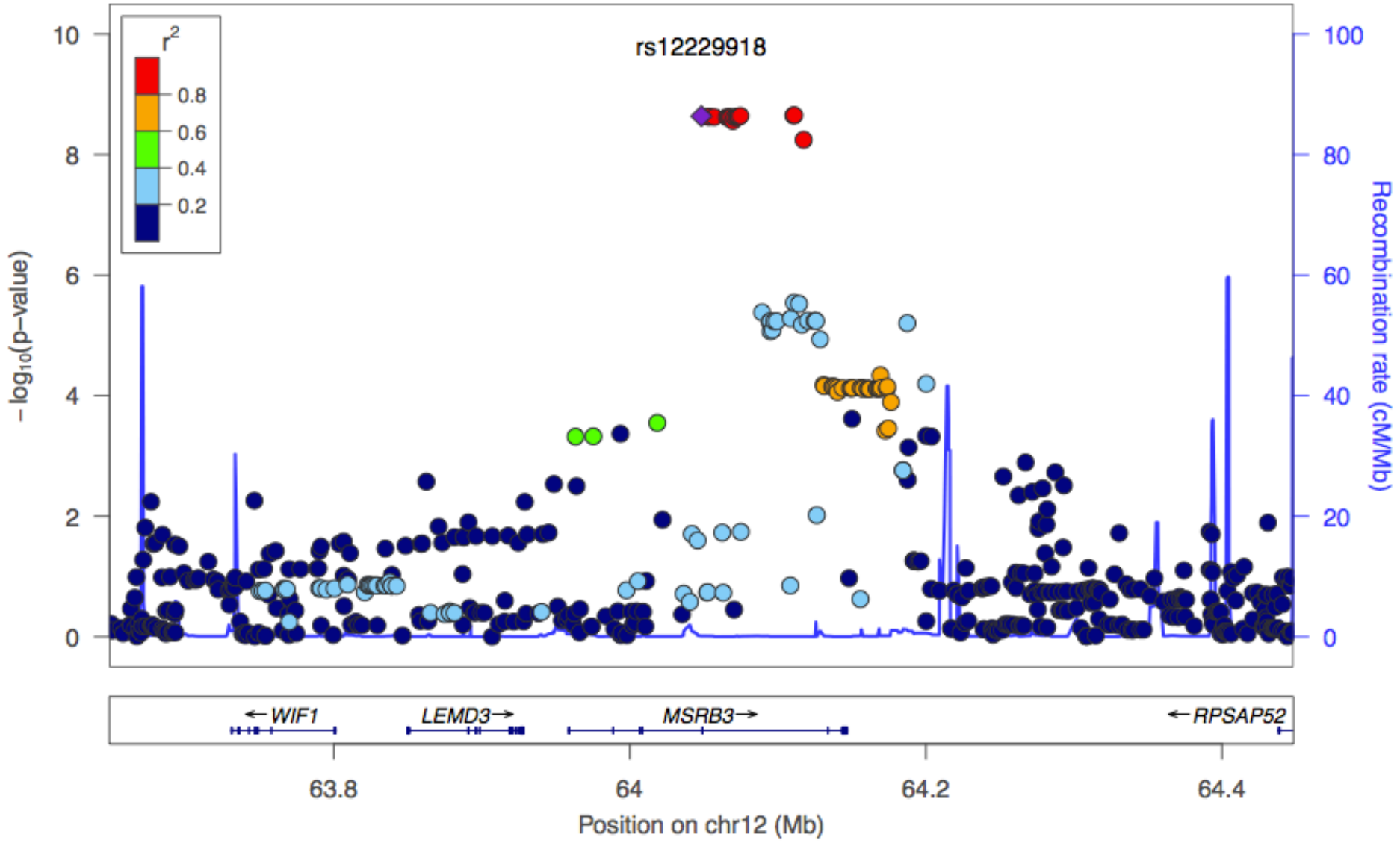
(J)


rs9316505
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
←DLEU7
RNASEH2B→
FAM124A→
←GUCY1B2
49.8
50
50.2
50.4
50.6
Position on chr13 (Mb)

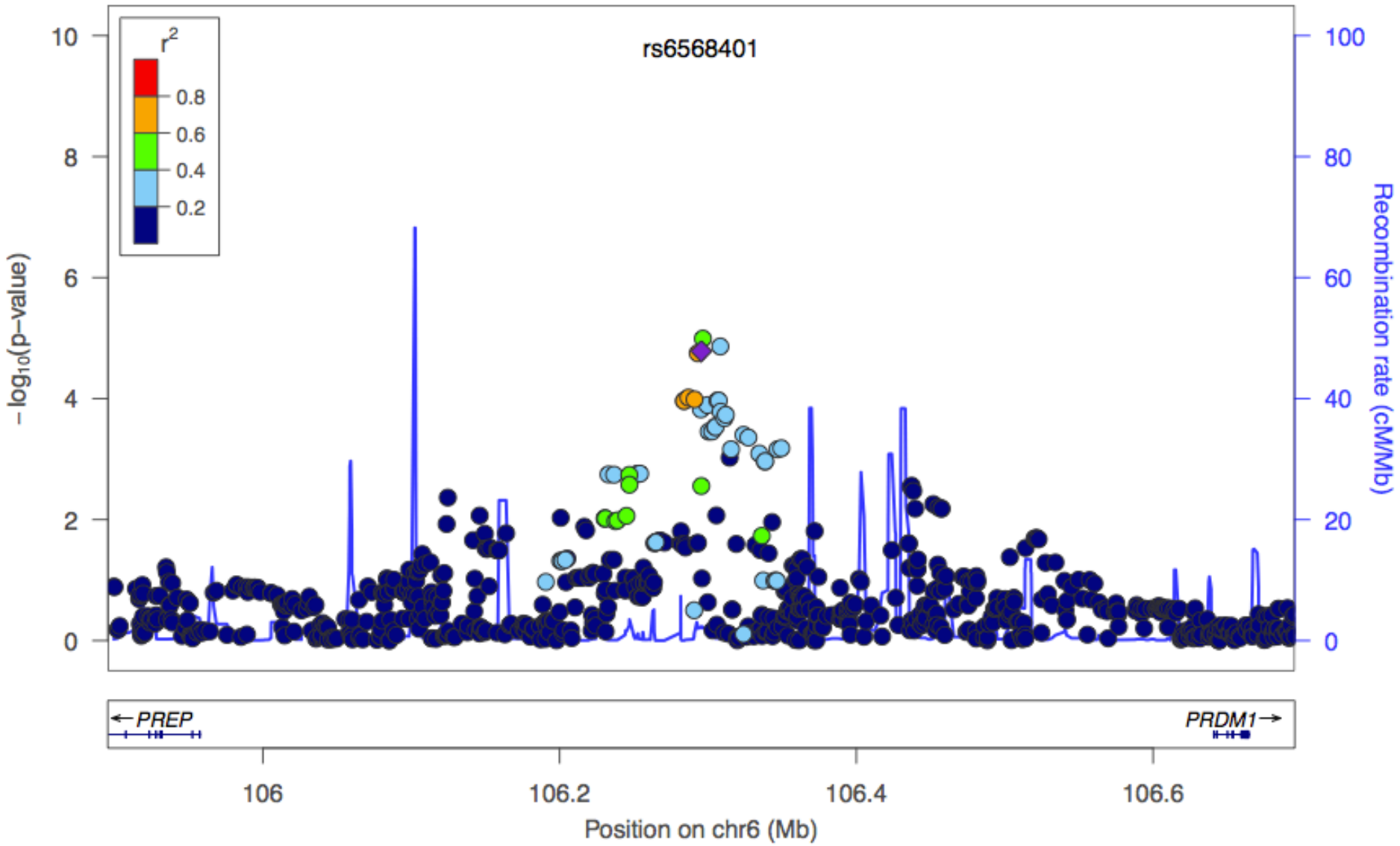
(K)


rs17563
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
←BMP4
53.2
53.4
53.6
53.8
Position on chr14 (Mb)

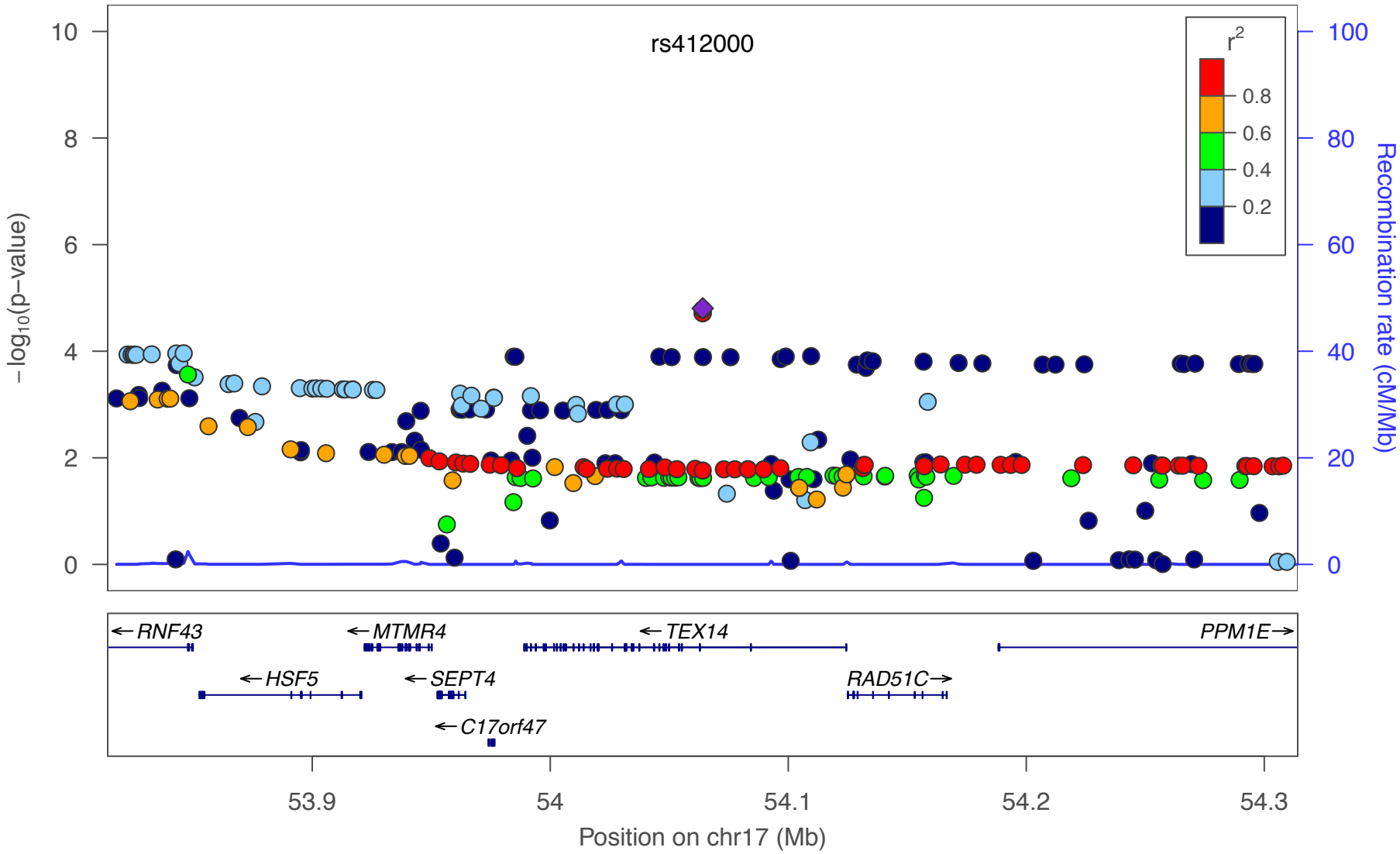
(L)

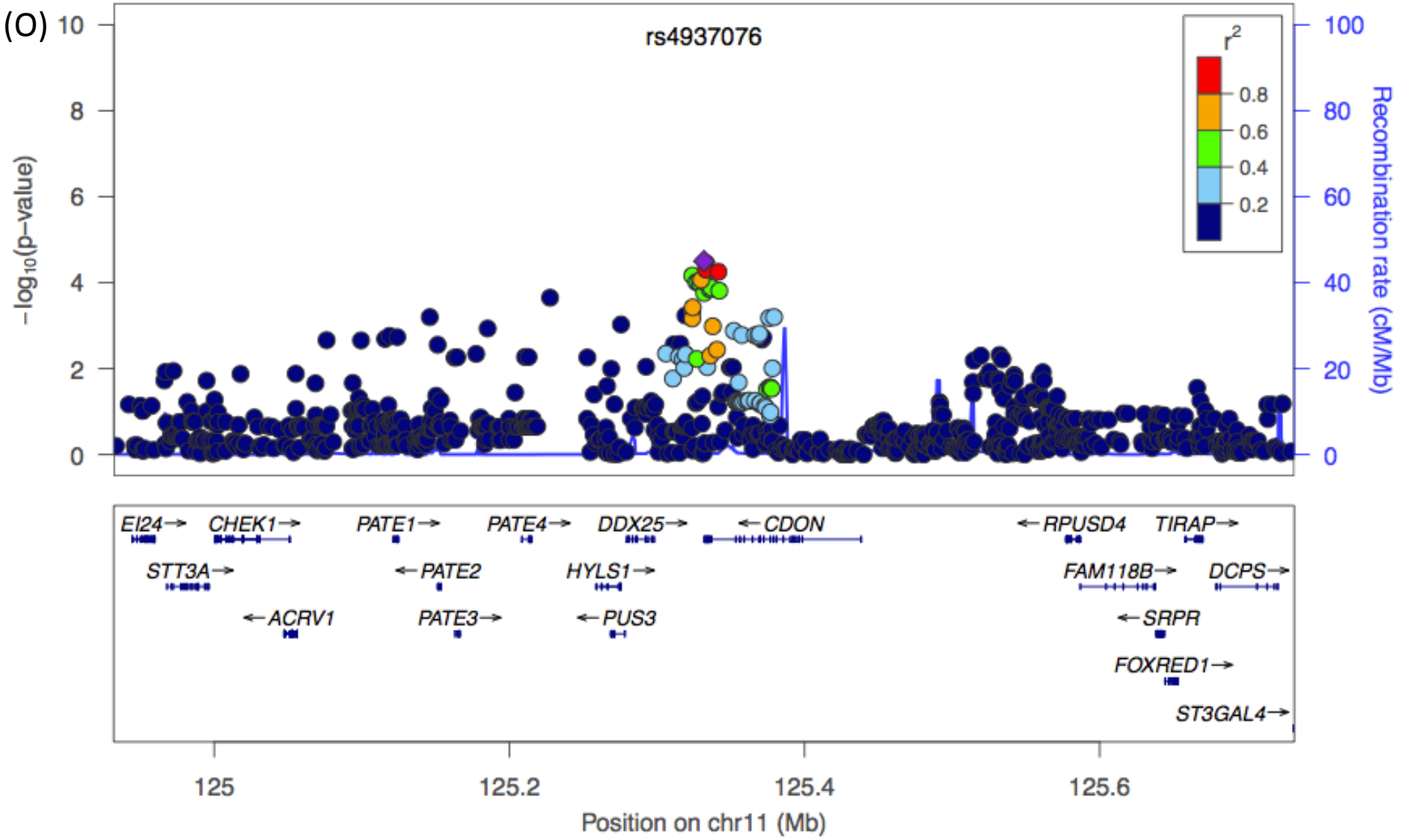

rs12229918
r²
0.8
0.6
0.4
0.2
10
8
6
4
2
0
100
80
60
40
20
0
−log10(p−value)
Recombination rate (cM/Mb)
WIF1
LEMD3
MSRB3
RPSAP52
63.8
64
64.2
64.4
Position on chr12 (Mb)

(M)

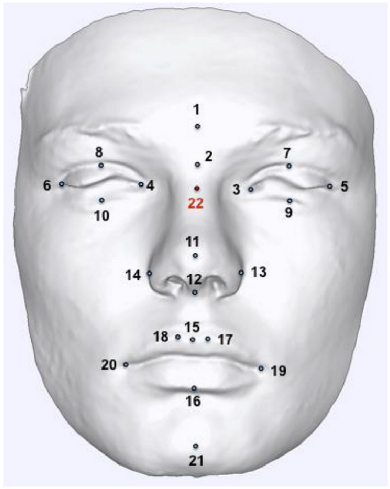

rs6568401
r²
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
PREP
PRDM1
Position on chr6 (Mb)
106
106.2
106.4
106.6

(N)


rs412000
r2
0.8
0.6
0.4
0.2
−log10(p−value)
Recombination rate (cM/Mb)
10
8
6
4
2
0
100
80
60
40
20
0
RNF43
MTMR4
TEX14
PPM1E
HSF5
SEPT4
RAD51C
C17orf47
53.9
54
54.1
54.2
54.3
Position on chr17 (Mb)



Supplementary Figure 3: Linkage disequilibrium and Association plot of loci reaching genome-wide significance for 'number of teeth' at one year in meta-analysis of ALSPAC and NFBC. (A) rs8080944 *KCNJ16-KCNJ2* region (B) rs11796357 *FAM155- EDA* gene region (C) rs1994969 IGF3BP1 gene region (D) rs7924176 ADK gene region (E) rs17101923 HMGA2 gene region (F) rs10740993 CACNB2 gene region (G) rs1799922 CALU (H) rs10932688 2q35 (I) rs997154 AJUBA gene region (J) rs9316505 DLEU7 gene region (K) rs17563 *BMP4* gene region (L) rs12229918 *MSRB3* gene region (M) rs6568401 region(N) rs412000 TEX14/RAD51C region (O) rs4937076 *CDON* gene region. The most significant SNPs in each region plotted in purple. Genes are based on Genome browser (RefSeq Genes). Arrows on genes give direction of transcription.



No	Abbreviation	Name
1	g	Glabella
2	n	Nasion
3	enL	Left endocanthion
4	enR	Right endocanthion
5	exL	Left exocanthion
6	exR	Right exocanthion
7	psL	Left palpebrale superius
8	psR	Right palpebrale superius
9	piL	Left palpebrale inferius
10	piR	Right palpebrale inferius
11	prn	Pronasale
12	sn	Subnasale
13	alL	Left alare
14	alR	Right alare
15	ls	Labiale superius
16	li	Labiale inferius
17	cphL	Left crista philtri
18	cphR	Right crista philtri
19	chL	Left cheilion
20	chR	Right cheilion
21	pg	Pogonion
22	men	Mid-endocanthion point

Forehead & Eyes		Lips & Mouth		Nose		Chin	
1-22	g-men*	12-15	sn-ls	2-22	n-men*	21-22	pg-men*
1-2	g-n	15-16	ls-li	12-22	sn-men*	21-1	pg-g
3-4	enL-enR	16-21	li-pg	2-11	n-prn	21-2	pg-n
5-6	exL-exR	15-21	ls-pg	2-12	n-sn	21-12	pg-sn
7-8	psL-psR	15-17	ls-cphL	2-13	n-alL	21-19	pg-chL
9-10	piL-piR	15-18	ls-cphR	2-14	n-alR	21-20	pg-chR
3-5	enL-exL	17-18	cphL-cphR	13-14	alL-alR		
4-6	enR-exR	19-20	chL-chR	11-12	prn-sn		
7-9	psL-piL	19-17	chL-cphL	11-13	prn-alL		
8-10	psR-piR	19-16	chL-li	11-14	prn-alR		
5-XZ	exL-xz	20-18	chR-cphR	12-13	sn-alL		
6-XZ	exR-xz	20-16	chR-li	12-14	sn-alR		
5-XY	exL-xy	15-22	ls-men*				
6-XY	exR-xy	16-22	li-men*				
5-YZ	exL-yz						
6-YZ	exR-yz						
3-XZ	enL-xz						
4-XZ	enR-xz						
3-XY	enL-xy						
4-XY	enR-xy						
3-YZ	enL-yz						
4-YZ	enR-yz						

Supplementary Figure 4: Position and Definition of the 22 Landmarks and the 54 parameters analysed in Paternoster et al. (2012): Parameters with pairs of numbers denote the direct 3D distance between pairs of landmarks. Those with “xz”, “xy” or “yz” denote the prominence of the landmark from the xz, xy, or yz planes. *”men” (point 22) denotes the midendocanthion or midintercanthal point (the midpoint between left and right endocanthi); this point does not lie on the facial surface

MARKER	GENE REGION/LOCUS	CHR	BP	A1	A2	EFFECT ALSPAC	SE ALSPAC	PVALUE ALSPAC	EFFECT NFBC	SE NFBC	PVALUE NFBC	EFFECT META	SE META	PVALUE META
rs2057579	TMEM9	1	199365898	**T**	C	-0.067	0.045	1.4x10-01	-0.176	0.036	1.3x10-06	-0.133	0.028	2.6x10-06
rs11956881	PP187	5	127951662	**C**	T	-0.26	0.091	4.4x10-03	-0.324	0.078	3.4x10-05	-0.297	0.059	5.7x10-07
rs9388501	AK127472	6	126944704	**C**	T	-0.236	0.043	2.7x10-08	-0.085	0.035	1.3x10-02	-0.145	0.027	5.9x10-08
rs10225279	CR623750	7	19099597	**T**	G	-0.19	0.043	1.0x10-05	-0.117	0.036	9.5x10-04	-0.147	0.027	8.5x10-08
rs339039	OPN1SW	7	128203797	**A**	G	-0.176	0.045	9.4x10-05	-0.149	0.043	6.0x10-04	-0.162	0.031	2.2x10-07
rs1157136	CR600271,CR593328	8	129971092	**T**	C	-0.181	0.043	2.4x10-05	-0.131	0.038	5.0x10-04	-0.153	0.028	6.5x10-08
rs10824218	ADK	10	76091222	**A**	T	-0.195	0.043	6.0x10-06	-0.086	0.036	1.6x10-02	-0.131	0.028	2.0x10-06
rs7103884	FGF3	11	69372742	**T**	C	-0.195	0.043	7.4x10-06	-0.09	0.035	1.1x10-02	-0.132	0.027	1.5x10-06
rs421007	KRT6B	12	51137112	**G**	T	-0.115	0.043	7.5x10-03	-0.132	0.035	1.5x10-04	-0.125	0.027	3.7x10-06
rs10877809	FAM19A2	12	60873839	**A**	G	-0.134	0.048	5.5x10-03	-0.177	0.046	1.3x10-04	-0.156	0.033	2.7x10-06
rs17105278	RAD51L1	14	67798232	**C**	T	-0.122	0.049	1.3x10-02	-0.157	0.039	4.4x10-05	-0.144	0.03	2.1x10-06
rs12708948	IRX5	16	53635746	**T**	C	-0.183	0.046	8.0x10-05	-0.128	0.044	3.5x10-03	-0.154	0.032	1.4x10-06
rs11860308	CES8,UNQ440/PRO873	16	65593020	**C**	T	-0.238	0.082	3.8x10-03	-0.206	0.055	1.7x10-04	-0.216	0.046	2.2x10-06
rs2429369	HSF5	17	53856419	**G**	A	-0.196	0.045	1.1x10-05	-0.118	0.037	1.3x10-03	-0.15	0.028	1.4x10-07
rs7502947	FAM33A	17	54584498	**A**	G	-0.182	0.045	4.4x10-05	-0.128	0.036	4.3x10-04	-0.15	0.028	1.1x10-07
rs1993104	FPR1	19	56932061	**C**	T	-0.107	0.049	2.8x10-02	-0.184	0.043	1.7x10-05	-0.151	0.032	2.8x10-06

Supplementary Table 1: SNPs showing suggestive association in the meta-analysis for 'age at first tooth' ($5x10^{-6}$> p >$5x10^{-8}$). Variants reported are ≥ 500kb apart. The P-value for each cohort is corrected for gestational age and sex. ALSPAC was also corrected for age at measurement. P-values were calculated using a fixed effects inverse variance meta-analysis. All alleles refer to the forward strand. Positions of SNPs reported correspond to HapMap release II build 36. The effect allele (A1) is defined as the allele associated with earlier tooth eruption

SNP	GENE REGION/LOCUS	CHR	BP	A1	A2	EFFECT ALSPAC	SE ALSPAC	PVALUE ALSPAC	EFFECT NFBC	SE NFBC	PVALUE NFBC	EFFECT META	SE META	PVALUE META
rs6704363	TMEM9	1	199363006	**A**	G	0.08	0.032	1.2x10-02	0.156	0.037	2.9x10-05	0.111	0.024	3.8x10-06
rs183780	EDAR	2	108961614	**T**	C	0.115	0.036	1.5x10-03	0.174	0.044	7.1x10-05	0.139	0.028	6.3x10-07
rs6967145	IGF2BP3	7	23483993	**G**	C	0.081	0.031	9.9x10-03	0.179	0.038	2.3x10-06	0.121	0.024	5.8x10-07
rs2390854	STK31	7	23984902	**C**	T	0.064	0.035	6.5x10-02	0.234	0.043	4.7x10-08	0.132	0.027	1.1x10-06
rs11768140	MPP6	7	24518518	**A**	G	0.119	0.038	1.7x10-03	0.148	0.042	4.8x10-04	0.132	0.028	3.1x10-06
rs1445570	PAG1	8	82002247	**A**	G	0.134	0.031	1.2x10-05	0.078	0.037	3.7x10-02	0.111	0.024	2.6x10-06
rs12379293	ZCCHC6	9	88264170	**A**	C	0.152	0.036	1.9x10-05	0.103	0.042	1.4x10-02	0.132	0.027	1.2x10-06
rs451722	BC093087	9	89011338	**G**	A	0.092	0.035	7.5x10-03	0.159	0.04	8.7x10-05	0.121	0.026	4.6x10-06
rs7103884	FGF3	11	69372742	**T**	C	0.178	0.031	1.0x10-08	0.058	0.037	1.1x10-01	0.128	0.024	6.8x10-08
rs11173690	FAM19A2	12	59671837	**C**	G	0.142	0.039	2.4x10-04	0.132	0.051	1.0x10-02	0.138	0.031	7.5x10-06
rs17732182	PPM1H	12	61312398	**T**	C	0.165	0.04	3.9x10-05	0.202	0.058	5.6x10-04	0.177	0.033	9.0x10-08
rs7146941	PAX9	14	36180966	**A**	C	0.1	0.032	1.9x10-03	0.129	0.037	4.9x10-04	0.112	0.024	3.7x10-06
rs1956529	RAD51L1	14	67858677	**C**	T	0.079	0.032	1.3x10-02	0.176	0.037	2.0x10-06	0.12	0.024	6.4x10-07
rs4131946	AF275804	16	53419975	**A**	T	0.114	0.034	8.7x10-04	0.127	0.039	1.1x10-03	0.12	0.026	3.1x10-06
rs400688	SLC25A11	17	4780674	**G**	A	0.137	0.04	6.3x10-04	0.139	0.042	9.3x10-04	0.138	0.029	2.0x10-06
rs4130668	DNAH2	17	7680389	**T**	C	0.128	0.037	6.1x10-04	0.133	0.038	4.1x10-04	0.13	0.027	8.6x10-07
rs2680700	RNF43	17	53795541	**T**	G	0.122	0.032	1.1x10-04	0.138	0.036	1.3x10-04	0.129	0.024	5.6x10-08
rs2240899	FLJ35776,DLGAP1	18	3585011	**C**	G	0.147	0.031	2.9x10-06	0.066	0.044	1.4x10-01	0.12	0.026	2.8x10-06

Supplementary Table 2: SNPs showing suggestive association in the meta-analysis for 'number of teeth' ($5x10^{-6} > p > 5x10^{-8}$) . Variants reported are ≥ 500kb apart. The P-value for each cohort is corrected for gestational age and sex. ALSPAC was also corrected for age at measurement. P-values were calculated using a fixed effects inverse variance meta-analysis. All alleles refer to the forward strand. Positions of SNPs reported correspond to HapMap release II build 36. The effect allele (A1) is defined as the allele associated with an increase in the number of teeth.

			AGE AT FIRST TOOTH			NUMBER OF TEETH		
PRIMARY SNP	**LOCUS**	**SIGNIFICANCE THRESHOLD** **CONDITIONAL ANALYSES**	**MOST STRONGLY ASSOCIATED SNP AFTER CONDITIONING ON PRIMARY SNP**	**P VALUE OF SNP BEFORE CONDITIONAL ANALYSIS**	**P VALUE OF SNP AFTER CONDITIONAL ANALYSIS**	**MOST STRONGLY ASSOCIATED SNP AFTER CONDITIONING ON PRIMARY SNP**	**P VALUE OF SNP BEFORE CONDITIONAL ANALYSIS**	**P VALUE OF SNP AFTER CONDITIONAL ANALYSIS**
rs8080944	*KCNJ2 KCNJ16*	$4.5x10^{-4}$	rs11077486	$6.201x10^{-05}$	$2.024x10^{-05}$	rs9788982	$3.413x10^{-09}$	$8.103x10^{-07}$
rs11796357	*FAM155E – EDA*	$1.0x10^{-3}$	rs2520397	$4.800x10^{-16}$	$8.449x10^{-06}$	rs2804391	$1.254x10^{-06}$	$9.654x10^{-07}$
rs17563	*BMP4*	$2.5x10^{-4}$	rs1951867	$8.000x10^{-03}$	$8.000x10^{-05}$	rs1458991	$7.854x10^{-03}$	$4.813x10^{-07}$
rs1994969	*IGF2BP1*	$6.5x10^{-4}$	rs8069452	$3.588x10^{-06}$	$8.221x10^{-06}$	rs9894411	$9.298x10^{-07}$	$1.770x10^{-05}$
rs12229918	*MSRB3*	$4.3x10^{-4}$	rs1870566	$6.000x10^{-03}$	$4.000x10^{-03}$	rs1976274	$2.348x10^{-09}$	$1.892x10^{-05}$
rs6568401	*6q21*	$3.8x10^{-4}$	rs6913299	$9.000x10^{-03}$	$4.000x10^{-03}$	rs3935361	$2.751x10^{-03}$	$3.478x10^{-03}$
rs4937076	*CDON*	$3.5x10^{-4}$	rs533239	$1.400x10^{-02}$	$1.100x10^{-02}$	rs600281	$4.994x10^{-03}$	$1.917x10^{-03}$
rs7924176	*ADK VCL AP3M1*	$1.6x10^{-3}$	rs11597376	$1.000x10^{-03}$	$6.000x10^{-03}$	rs7075347	$9.271x10^{-03}$	$7.457x10^{-02}$
rs17101923	*HMGA2*	$4.5x10^{-4}$	rs1472259	$1.222x10^{-05}$	$3.454x10^{-06}$	rs1472259	$6.322x10^{-05}$	$2.228x10^{-05}$
rs10740993	*CACNB2*	$4.9x10^{-4}$	rs12359352	$4.159x10^{-07}$	$6.377x10^{-04}$	rs7901587	$3.536x10^{-07}$	$1.000x10^{-03}$
rs1799922	*CALU/OPN1SW*	$7.7x10^{-4}$	rs3807306	$8.848x10^{-07}$	$1.337x10^{-02}$	rs339072	$4.90x10^{-04}$	$1.600x10^{-02}$
rs10932688	*2q35*	$2.7x10^{-4}$	rs12474719	$6.092x10^{-03}$	$3.627x10^{-03}$	rs12474719	$2.839x10^{-05}$	$1.000x10^{-03}$
rs997154	*AJUBA/C14orf93*	$2.5x10^{-4}$	rs1263663	$6.064x10^{-03}$	$5.274x10^{-03}$	rs178752	$1.000x10^{-03}$	$1.000x10^{-03}$
rs9316505	*DLEU7*	$1.1x10^{-4}$	rs2050936	$3.062x10^{-03}$	$8.437x10^{-03}$	rs2812245	$2.603x10^{-02}$	$4.135x10^{-02}$
rs412000	*TEX15/RAD51C*	7.2x10-4	rs3785492	$4.891x10^{-06}$	$1.955x10^{-02}$	rs7215531	$7.626x10^{-03}$	$1.238x10^{-03}$

Supplementary Table 3: Results for the conditional analysis in each genome-wide significant region.

MARKER	GENE/LOCUS	ALLELES	FREQ1	EFFECT	STDERR	PVALUE
rs17101923	*HMGA2*	**G**/T	0.19	0.1281	0.0206	4.7×10^{-10}
rs7924176	*ADK VCL AP3M1*	**A**/G	0.58	0.0937	0.0157	2.5×10^{-9}
rs10932688	2q35	**G**/C	0.72	0.0802	0.0179	7.7×10^{-6}
rs10740993	*CACNB2*	**C**/T	0.43	0.0619	0.0155	6.6×10^{-5}
rs17563	*BMP4*	**G**/A	0.39	0.0528	0.0162	0.0011
rs6568401	6q21	**C**/T	0.74	0.0586	0.0187	0.0017
rs12229918	*MSRB3*	**C**/G	0.36	0.0405	0.0162	0.0126

Supplementary Table 4: Results for pleotropic analysis of genome wide significance P<5x10-8 in meta-analysis for secondary dentition (Geller et al). All alleles refer to the forward strand. Positions of SNPs reported correspond to HapMap release II build 36. The Increaser allele is defined in bold.

HEIGHT Stage 1 & 2							ALSPAC AGE AT FIRST TOOTH				ALSPAC NUMBER OF TEETH		NFBC AGE AT FIRST TOOTH				NFBC NUMBER OF TEETH		META AGE AT FIRST TOOTH			META NUMBER OF TEETH		
SNP	CHR	POS	GENE	A1/A2	B	P	A1	A2	B	P	B	P	A1	A2	B	P	B	P	A1	B	P	A1	B	P
rs425277	1	2059032	PRKCZ	T/C	0.022	2.1x10-08	C	T	-0.019	6.9x10-01	0.013	6.9x10-01	T	C	0.047	2.3x10-01	0.024	5.4x10-01	T	0.036	2.3x10-01	C	0.002	9.3x10-01
rs2284746	1	17179262	MFAP2	C/G	-0.04	3.9x10-29	C	G	0.002	9.6x10-01	-0.001	9.6x10-01	G	C	0.023	5.2x10-01	0.017	6.4x10-01	G	-0.013	6.4x10-01	C	-0.008	7.3x10-01
rs1738475	1	23409478	HTR1D	C/G	0.025	3.0x10-12	C	G	-0.012	7.8x10-01	-0.033	2.9x10-01	G	C	0.024	5.0x10-01	-0.004	9.1x10-01	C	-0.019	4.9x10-01	C	-0.018	4.5x10-01
rs4601530	1	24916698	CLIC4	T/C	-0.028	2.2x10-12	C	T	-0.012	8.0x10-01	0.045	2.0x10-01	T	C	0.078	3.7x10-02	-0.054	1.7x10-01	T	0.054	7.1x10-02	T	-0.049	6.1x10-02
rs7532866	1	26614131	LIN28	A/G	0.021	3.4x10-08	A	G	0.014	7.6x10-01	-0.003	9.3x10-01	G	A	0.002	9.6x10-01	-0.010	8.0x10-01	A	0.004	8.8x10-01	G	0.003	9.2x10-01
rs2154319	1	41518357	SCMH1	T/C	-0.03	1.8x10-12	C	T	-0.003	9.6x10-01	-0.005	8.9x10-01	T	C	-0.032	4.9x10-01	-0.001	9.9x10-01	C	-0.016	6.3x10-01	T	0.003	9.2x10-01
rs17391694	1	78396214	GIPC2	T/C	0.042	1.7x10-11	C	T	0.156	9.9x10-03	-0.069	1.1x10-01	T	C	-0.012	8.7x10-01	-0.010	8.9x10-01	T	-0.096	3.8x10-02	T	0.049	1.9x10-01
rs6699417	1	88896031	PKN2	T/C	0.021	5.0x10-09	C	T	-0.034	4.3x10-01	0.048	1.2x10-01	T	C	0.017	6.4x10-01	-0.045	2.4x10-01	T	0.024	3.8x10-01	T	-0.047	5.1x10-02
rs10874746	1	93096559	RPL5	T/C	-0.024	6.7x10-11	C	T	0.020	6.6x10-01	0.065	4.1x10-02	T	C	0.108	2.5x10-03	-0.064	8.4x10-02	C	0.058	3.8x10-02	T	-0.064	7.4x10-03
rs9428104	1	118657110	SPAG17	A/G	-0.041	5.6x10-23	A	G	-0.012	8.1x10-01	-0.017	6.3x10-01	G	A	-0.007	8.7x10-01	0.102	1.6x10-02	A	-0.001	9.8x10-01	A	-0.051	5.7x10-02
rs11205277	1	148159496	SF3B4	A/G	-0.046	4.8x10-32	A	G	0.054	4.2x10-01	-0.050	2.9x10-01	G	A	-0.004	9.2x10-01	-0.008	8.4x10-01	A	0.016	6.3x10-01	A	-0.015	6.1x10-01
rs17346452	1	170319910	DNM3	T/C	-0.04	1.4x10-23	C	T	-0.012	8.0x10-01	-0.004	9.0x10-01	T	C	0.046	2.8x10-01	0.011	8.0x10-01	T	0.031	3.3x10-01	T	0.007	8.0x10-01
rs1325598	1	175058872	PAPPA2	A/G	-0.022	1.1x10-09	A	G	0.101	1.8x10-02	-0.028	3.5x10-01	G	A	-0.057	1.0x10-01	0.055	1.2x10-01	A	0.075	5.7x10-03	A	-0.040	8.9x10-02
rs1046934	1	182290152	TSEN15	A/C	-0.044	2.1x10-31	A	C	0.038	4.0x10-01	-0.038	2.4x10-01	C	A	-0.027	4.5x10-01	-0.013	7.3x10-01	A	0.031	2.7x10-01	A	-0.016	5.1x10-01
rs10863936	1	210304421	DTL	A/G	-0.021	1.9x10-09	A	G	-0.051	2.3x10-01	0.011	7.2x10-01	G	A	-0.036	3.0x10-01	0.009	8.1x10-01	G	0.001	9.6x10-01	A	0.003	9.1x10-01
rs6684205	1	216676325	TGFB2	A/G	-0.028	1.5x10-12	A	G	0.072	1.4x10-01	-0.031	3.8x10-01	G	A	-0.035	3.5x10-01	-0.029	4.7x10-01	A	0.049	1.0x10-01	A	-0.005	8.6x10-01
rs11118346	1	217810342	LYPLAL1	T/C	-0.025	1.9x10-12	C	T	0.000	1.0x10+00	-0.013	6.6x10-01	T	C	0.065	6.0x10-02	-0.026	4.6x10-01	T	0.040	1.4x10-01	C	-0.003	8.8x10-01
rs10799445	1	225978506	JMJD4	A/C	0.032	2.4x10-13	A	C	0.127	1.4x10-02	-0.067	6.8x10-02	C	A	0.013	7.3x10-01	-0.028	4.8x10-01	A	0.037	2.3x10-01	A	-0.023	3.9x10-01
rs4665736	2	25041103	DNAJC27	T/C	0.029	7.3x10-16	C	T	0.022	6.1x10-01	0.047	1.3x10-01	T	C	0.044	2.1x10-01	-0.016	6.6x10-01	C	0.018	5.1x10-01	T	-0.034	1.5x10-01
rs6714546	2	33214929	LTBP1	A/G	-0.026	1.6x10-09	A	G	-0.015	7.6x10-01	-0.008	8.2x10-01	G	A	-0.025	5.5x10-01	0.087	4.6x10-02	G	0.007	8.1x10-01	A	-0.037	1.6x10-01
rs17511102	2	37814117	CDC42EP3	A/T	-0.06	1.6x10-18	A	T	-0.137	1.2x10-01	0.007	9.1x10-01	T	A	-0.040	5.6x10-01	0.071	3.3x10-01	A	-0.029	6.0x10-01	T	-0.026	5.8x10-01
rs2341459	2	44621706	C2orf34	T/C	0.025	7.9x10-10	C	T	0.002	9.6x10-01	0.015	6.8x10-01	T	C	-0.080	2.5x10-02	-0.016	6.6x10-01	T	-0.054	6.5x10-02	T	-0.015	5.5x10-01
rs12474201	2	46774789	SOCS5	A/G	0.028	2.6x10-13	A	G	-0.026	5.7x10-01	-0.006	8.6x10-01	G	A	-0.076	4.9x10-02	0.061	1.3x10-01	G	0.033	2.7x10-01	A	-0.027	2.8x10-01
rs3791675	2	55964813	EFEMP1	T/C	-0.053	2.5x10-35	C	T	-0.060	2.4x10-01	0.052	1.5x10-01	T	C	0.014	7.3x10-01	-0.006	8.9x10-01	T	0.032	3.2x10-01	T	-0.032	2.4x10-01
rs11684404	2	88705737	EIF2AK3	T/C	-0.028	9.9x10-14	C	T	0.070	1.2x10-01	-0.077	1.8x10-02	T	C	-0.005	8.8x10-01	0.037	3.1x10-01	T	-0.030	2.8x10-01	T	0.060	1.4x10-02
rs7567288	2	134151294	NCKAP5	T/C	-0.032	2.1x10-12	C	T	0.032	5.6x10-01	-0.030	4.5x10-01	T	C	-0.018	6.5x10-01	-0.037	3.6x10-01	T	-0.022	4.8x10-01	C	-0.003	9.3x10-01
rs7567851	2	178392966	PDE11A	C/G	0.037	3.3x10-08	C	G	-0.011	8.9x10-01	0.053	3.6x10-01	G	C	-0.063	4.0x10-01	0.053	4.9x10-01	G	0.029	6.0x10-01	C	0.015	7.4x10-01
rs1351164	2	217980143	TNS1	T/C	0.034	2.1x10-14	C	T	-0.039	4.8x10-01	0.038	3.2x10-01	T	C	0.096	1.5x10-02	-0.003	9.3x10-01	T	0.076	1.7x10-02	T	-0.022	4.4x10-01
rs12470505	2	219616613	CCDC108/IHH	T/G	0.041	8.9x10-12	G	T	-0.089	2.1x10-01	0.007	8.9x10-01	T	G	0.045	4.8x10-01	0.000	1.0x10+00	T	0.065	1.7x10-01	T	-0.004	9.2x10-01
rs2629046	2	224755988	SERPINE2	T/C	0.024	7.9x10-12	C	T	-0.139	1.3x10-03	0.041	1.8x10-01	T	C	0.029	4.0x10-01	0.023	5.2x10-01	T	0.072	7.9x10-03	T	-0.014	5.6x10-01
rs2580816	2	232506210	NPPC	T/C	-0.045	5.8x10-22	C	T	0.022	6.9x10-01	-0.004	9.3x10-01	T	C	-0.059	2.6x10-01	0.082	1.3x10-01	T	-0.041	2.7x10-01	T	0.030	3.4x10-01
rs12694997	2	241911659	"SEPT2"	A/G	-0.024	1.2x10-08	A	G	0.012	8.2x10-01	-0.028	4.5x10-01	G	A	-0.041	3.2x10-01	-0.008	8.5x10-01	A	0.030	3.6x10-01	A	-0.013	6.5x10-01
rs2597513	3	13530836	HDAC11	T/C	-0.036	7.4x10-10	C	T	0.056	4.2x10-01	0.035	4.8x10-01	T	C	-0.085	1.9x10-01	0.037	5.9x10-01	T	-0.072	1.3x10-01	T	-0.010	8.0x10-01
rs13088462	3	51046753	DOCK3	T/C	-0.052	3.8x10-10	C	T	-0.110	2.6x10-01	0.119	8.3x10-02	T	C	0.117	1.2x10-01	-0.065	4.1x10-01	T	0.115	5.4x10-02	T	-0.095	6.4x10-02

rs2336725	3	53093779	RTF1	T/C	-0.027	9.7x10-13	C	T	0.040	3.5x10-01	0.010	7.4x10-01	T	C	0.025	5.1x10-01	0.021	6.1x10-01	T	-0.003	9.1x10-01	C	0.001	9.5x10-01
rs9835332	3	56642722	C3orf63	C/G	-0.026	5.3x10-13	C	G	-0.028	5.1x10-01	0.028	3.5x10-01	G	C	0.020	5.7x10-01	-0.053	1.4x10-01	C	-0.023	3.9x10-01	C	0.039	9.6x10-02
rs17806888	3	67499012	SUCLG2	T/C	0.036	2.1x10-09	C	T	0.046	4.8x10-01	0.000	1.0x10+00	T	C	-0.118	2.1x10-01	0.056	5.7x10-01	T	-0.070	1.9x10-01	C	0.010	8.1x10-01
rs9863706	3	72520103	RYBP	T/C	-0.031	4.1x10-13	C	T	0.033	5.3x10-01	-0.020	5.9x10-01	T	C	0.019	6.7x10-01	-0.010	8.3x10-01	T	-0.004	9.2x10-01	T	0.009	7.7x10-01
rs6439167	3	130533446	C3orf47	T/C	-0.034	8.9x10-15	C	T	-0.049	3.4x10-01	0.028	4.5x10-01	T	C	0.030	5.1x10-01	-0.017	7.3x10-01	T	0.038	2.6x10-01	T	-0.024	4.2x10-01
rs9844666	3	137456906	PCCB	A/G	-0.024	3.5x10-09	A	G	0.024	6.2x10-01	-0.022	5.3x10-01	G	A	-0.036	3.8x10-01	-0.022	6.1x10-01	A	0.031	3.3x10-01	A	-0.005	8.6x10-01
rs724016	3	142588260	ZBTB38	A/G	-0.07	3.1x10-86	A	G	-0.009	8.4x10-01	-0.028	3.6x10-01	G	A	0.015	6.7x10-01	0.039	2.8x10-01	A	-0.013	6.5x10-01	A	-0.033	1.6x10-01
rs572169	3	173648421	GHSR	T/C	0.033	2.8x10-18	C	T	-0.076	1.0x10-01	0.088	7.7x10-03	T	C	-0.058	1.2x10-01	0.017	6.6x10-01	C	-0.006	8.3x10-01	T	-0.043	8.6x10-02
rs720390	3	187031377	IGF2BP2	A/G	0.029	1.9x10-14	A	G	-0.012	7.9x10-01	-0.016	6.1x10-01	G	A	0.017	6.4x10-01	-0.005	9.0x10-01	A	-0.015	5.9x10-01	A	-0.008	7.6x10-01
rs2247341	4	1671115	SLBP/FGFR3	A/G	0.025	1.5x10-11	A	G	-0.050	2.7x10-01	0.031	3.5x10-01	G	A	-0.045	2.0x10-01	0.034	3.6x10-01	G	0.010	7.2x10-01	A	0.002	9.3x10-01
rs6449353	4	17642586	LCORL	T/C	0.075	7.1x10-46	C	T	-0.067	2.9x10-01	-0.008	8.6x10-01	T	C	-0.050	4.0x10-01	0.025	6.8x10-01	T	0.005	9.0x10-01	T	0.014	7.0x10-01
rs17081935	4	57518233	POLR2B	T/C	0.03	3.7x10-11	C	T	0.002	9.8x10-01	0.022	5.8x10-01	T	C	0.077	6.1x10-02	-0.051	2.3x10-01	C	0.049	1.4x10-01	T	-0.035	2.2x10-01
rs7697556	4	73734177	ADAMTS3	T/C	0.028	2.0x10-14	C	T	0.009	8.4x10-01	0.028	3.6x10-01	T	C	0.029	4.2x10-01	-0.076	3.7x10-02	C	0.014	6.2x10-01	T	-0.048	4.1x10-02
rs788867	4	82369030	PRKG2/BMP3	T/G	-0.043	8.9x10-28	G	T	0.063	1.8x10-01	-0.045	1.7x10-01	T	G	0.056	1.2x10-01	-0.018	6.4x10-01	G	0.012	6.9x10-01	T	0.018	4.8x10-01
rs10010325	4	106325802	TET2	A/C	0.024	3.9x10-11	A	C	0.017	6.9x10-01	-0.036	2.3x10-01	C	A	-0.003	9.2x10-01	0.043	2.4x10-01	A	0.009	7.4x10-01	A	-0.039	9.2x10-02
rs7689420	4	145787802	HHIP	T/C	-0.073	6.2x10-51	C	T	0.022	7.0x10-01	-0.051	2.1x10-01	T	C	-0.076	9.0x10-02	0.057	2.3x10-01	T	-0.055	1.2x10-01	T	0.054	8.1x10-02
rs955748	4	184452669	WWC2	A/G	-0.023	4.4x10-08	A	G	-0.002	9.7x10-01	-0.032	3.6x10-01	G	A	0.037	3.6x10-01	-0.029	4.8x10-01	A	-0.023	4.7x10-01	A	-0.007	8.0x10-01
rs1173727	5	32866278	NPR3	T/C	0.034	1.6x10-21	C	T	0.034	4.4x10-01	-0.037	2.4x10-01	T	C	0.021	5.4x10-01	-0.035	3.4x10-01	T	0.000	9.9x10-01	T	0.007	7.7x10-01
rs11958779	5	55037656	SLC38A9	A/G	-0.027	1.8x10-12	A	G	-0.014	7.7x10-01	-0.003	9.2x10-01	G	A	-0.029	4.3x10-01	0.056	1.5x10-01	G	0.013	6.6x10-01	A	-0.026	3.1x10-01
rs10037512	5	88390431	MEF2C	T/C	0.032	2.0x10-18	C	T	0.027	5.3x10-01	-0.012	7.0x10-01	T	C	0.038	2.8x10-01	0.021	5.7x10-01	C	0.012	6.7x10-01	T	0.016	5.1x10-01
rs13177718	5	108141243	FER	T/C	-0.04	3.0x10-08	C	T	0.022	7.9x10-01	0.057	3.3x10-01	T	C	0.081	3.1x10-01	-0.007	9.3x10-01	C	0.031	6.0x10-01	T	-0.040	3.9x10-01
rs1582931	5	122685098	CEP120	A/G	-0.023	1.5x10-10	A	G	-0.064	1.6x10-01	0.051	1.1x10-01	G	A	0.057	1.2x10-01	-0.066	8.0x10-02	A	-0.060	3.5x10-02	A	0.058	1.9x10-02
rs274546	5	131727766	SLC22A5	A/G	-0.029	7.3x10-16	A	G	-0.013	7.7x10-01	0.032	3.1x10-01	G	A	-0.037	2.9x10-01	0.005	8.9x10-01	G	0.018	5.2x10-01	A	0.016	5.0x10-01
rs526896	5	134384604	PITX1	T/G	0.03	2.3x10-13	G	T	-0.017	7.4x10-01	-0.035	3.3x10-01	T	G	-0.048	2.5x10-01	0.034	4.3x10-01	G	-0.022	5.0x10-01	T	0.035	2.1x10-01
rs4282339	5	168188818	SLIT3	A/G	-0.036	6.6x10-16	A	G	-0.018	7.3x10-01	0.024	5.2x10-01	G	A	-0.021	6.2x10-01	-0.028	5.3x10-01	G	0.005	8.7x10-01	A	0.026	3.7x10-01
rs12153391	5	171136043	FBXW11	A/C	-0.03	3.6x10-12	A	C	-0.043	3.9x10-01	0.025	5.0x10-01	C	A	0.096	1.6x10-02	-0.077	6.4x10-02	A	-0.076	1.6x10-02	A	0.047	8.4x10-02
rs889014	5	172916720	BOD1	T/C	-0.03	9.4x10-16	C	T	-0.054	2.3x10-01	0.002	9.6x10-01	T	C	0.038	2.8x10-01	0.033	3.6x10-01	T	0.044	1.1x10-01	C	0.014	5.7x10-01
rs422421	5	176449932	FGFR4/NSD1	T/C	-0.031	1.1x10-12	C	T	-0.035	5.0x10-01	-0.021	5.7x10-01	T	C	-0.009	8.5x10-01	0.049	3.3x10-01	T	0.011	7.6x10-01	T	0.031	3.0x10-01
rs6879260	5	179663620	GFPT2	T/C	-0.022	1.6x10-09	C	T	0.003	9.4x10-01	0.069	2.8x10-02	T	C	0.035	3.1x10-01	-0.015	6.8x10-01	C	0.021	4.5x10-01	T	-0.046	5.3x10-02
rs3812163	6	7670759	BMP6	A/T	-0.036	1.2x10-23	A	T	-0.018	6.8x10-01	0.046	1.3x10-01	T	A	-0.051	1.4x10-01	0.059	1.0x10-01	T	0.024	3.8x10-01	A	0.002	9.3x10-01
rs1047014	6	19949472	ID4	T/C	-0.032	1.8x10-13	C	T	0.058	2.4x10-01	0.015	6.6x10-01	T	C	0.009	8.4x10-01	-0.021	6.4x10-01	T	-0.019	5.5x10-01	T	-0.018	5.2x10-01
rs806794	6	26308656	Histone cluster	A/G	0.052	1.2x10-39	A	G	0.097	4.7x10-02	-0.029	4.0x10-01	G	A	0.017	6.2x10-01	-0.053	1.4x10-01	A	0.025	2.8x10-02	G	0.011	2.5x10-02
rs3129109	6	29192211	OR2J3	T/C	-0.032	2.4x10-17	C	T	0.015	7.4x10-01	-0.037	2.5x10-01	T	C	0.021	5.6x10-01	-0.045	2.3x10-01	C	0.007	8.1x10-01	T	0.003	9.1x10-01
rs2256183	6	31488508	MICA	A/G	0.04	7.8x10-29	A	G	0.003	9.4x10-01	-0.012	6.9x10-01	G	A	-0.047	1.8x10-01	0.077	3.6x10-02	A	0.030	2.8x10-01	A	-0.039	9.8x10-02
rs6457620	6	32771977	HLA locus	C/G	-0.029	2.1x10-16	C	G	0.062	1.4x10-01	-0.028	3.5x10-01	G	C	-0.025	4.8x10-01	0.020	5.9x10-01	C	0.040	2.7x10-02	C	-0.025	2.3x10-02
rs2780226	6	34307070	HMGA1	T/C	-0.076	8.1x10-28	C	T	0.097	2.0x10-01	0.012	8.2x10-01	T	C	-0.019	8.1x10-01	0.046	5.7x10-01	T	-0.058	2.8x10-01	C	0.006	8.9x10-01
rs6457821	6	35510783	PPARD/FANCE	A/C	-0.104	2.1x10-12	A	C	0.012	9.4x10-01	0.051	6.4x10-01	-	-	-	-	-	-	A	0.012	9.4x10-01	A	0.051	6.4x10-01

rs310405	6	81857081	FAM46A	A/G	0.026	2.2x10-13	A	G	0.010	8.1x10-01	-0.018	5.6x10-01	G	A	-0.019	6.0x10-01	0.046	2.2x10-01	A	0.015	5.8x10-01	A	-0.029	2.2x10-01
rs7759938	6	105485647	LIN28B	T/C	-0.045	8.3x10-31	C	T	0.027	5.7x10-01	0.004	8.9x10-01	T	C	-0.062	9.1x10-02	0.010	8.0x10-01	T	-0.048	9.3x10-02	C	0.002	9.4x10-01
rs1046943	6	109890634	ZBTB24	A/G	0.02	2.5x10-08	A	G	0.053	2.3x10-01	-0.042	1.8x10-01	G	A	-0.003	9.4x10-01	-0.007	8.5x10-01	A	0.022	4.2x10-01	G	-0.021	3.7x10-01
rs961764	6	117628849	VGLL2	C/G	-0.024	1.3x10-11	C	G	-0.117	6.7x10-03	0.080	9.8x10-03	G	C	0.011	7.6x10-01	0.034	3.6x10-01	C	-0.053	5.1x10-02	C	0.033	1.7x10-01
rs1490384	6	126892853	C6orf173	T/C	0.034	3.9x10-21	C	T	0.235	3.6x10-08	-0.035	2.4x10-01	T	C	-0.083	1.8x10-02	0.036	3.2x10-01	T	-0.144	1.0x10-07	T	0.036	1.2x10-01
rs6569648	6	130390812	L3MBTL3	T/C	-0.04	1.1x10-21	C	T	0.115	2.1x10-02	-0.033	3.5x10-01	T	C	-0.054	2.0x10-01	-0.009	8.3x10-01	T	-0.080	1.4x10-02	T	0.016	5.6x10-01
rs7763064	6	142838982	GPR126	A/G	-0.048	1.1x10-33	A	G	-0.047	3.2x10-01	0.032	3.5x10-01	G	A	0.048	2.4x10-01	-0.100	1.7x10-02	A	-0.047	1.2x10-01	A	0.058	2.6x10-02
rs543650	6	152152636	ESR1	T/G	-0.034	1.2x10-17	G	T	-0.022	6.2x10-01	0.006	8.6x10-01	T	G	0.017	6.3x10-01	-0.013	7.1x10-01	T	0.019	4.9x10-01	T	-0.009	7.0x10-01
rs9456307	6	158849430	TULP4	A/T	-0.048	2.2x10-09	A	T	0.155	7.9x10-02	-0.079	2.1x10-01	T	A	-0.086	4.8x10-01	0.068	5.9x10-01	A	0.131	6.6x10-02	A	-0.077	1.7x10-01
rs798489	7	2768329	GNA12	T/C	-0.048	1.9x10-33	C	T	0.018	7.1x10-01	-0.048	1.6x10-01	T	C	0.022	5.6x10-01	0.028	4.7x10-01	C	0.007	8.1x10-01	T	0.039	1.3x10-01
rs4470914	7	19583047	TWISTNB	T/C	0.029	9.2x10-10	C	T	0.007	8.9x10-01	0.020	6.0x10-01	T	C	0.072	1.6x10-01	-0.074	1.6x10-01	C	0.034	3.5x10-01	T	-0.038	2.1x10-01
rs12534093	7	23469499	IGF2BP3	A/T	-0.034	2.0x10-14	A	T	0.103	4.7x10-02	-0.094	9.8x10-03	T	A	-0.100	2.3x10-02	0.159	4.8x10-04	A	0.101	2.6x10-03	A	-0.120	2.7x10-05
rs1708299	7	28156471	JAZF1	A/G	0.04	5.8x10-25	A	G	0.019	6.8x10-01	0.000	9.9x10-01	G	A	-0.057	1.3x10-01	0.014	7.2x10-01	A	0.043	1.5x10-01	A	-0.006	8.1x10-01
rs6959212	7	38094851	STARD3NL	T/C	-0.024	1.6x10-09	C	T	-0.011	8.0x10-01	0.000	1.0x10+00	T	C	0.015	7.2x10-01	0.036	4.0x10-01	T	0.013	6.7x10-01	C	0.013	6.1x10-01
rs42235	7	92086012	CDK6	T/C	0.057	7.7x10-47	C	T	0.012	7.9x10-01	0.067	4.7x10-02	T	C	-0.033	4.1x10-01	-0.076	7.0x10-02	T	-0.025	4.3x10-01	T	-0.070	7.2x10-03
rs822552	7	148281567	PDIA4	C/G	-0.025	2.6x10-08	C	G	0.010	8.5x10-01	-0.036	3.6x10-01	G	C	-0.028	5.6x10-01	0.051	2.9x10-01	C	0.020	5.7x10-01	C	-0.042	1.7x10-01
rs2110001	7	150147955	TMEM176A	C/G	-0.031	3.3x10-13	C	G	-0.009	8.5x10-01	0.016	6.4x10-01	G	C	0.002	9.6x10-01	-0.025	5.3x10-01	C	-0.005	8.7x10-01	C	0.020	4.5x10-01
rs1013209	8	24172249	ADAM28	T/C	-0.025	1.6x10-09	C	T	0.009	8.6x10-01	-0.023	5.3x10-01	T	C	-0.004	9.1x10-01	0.031	4.3x10-01	T	-0.006	8.5x10-01	T	0.027	3.2x10-01
rs7460090	8	57356717	SDR16C5	T/C	0.058	8.2x10-27	C	T	0.034	6.1x10-01	-0.074	1.1x10-01	T	C	-0.076	1.3x10-01	0.098	6.7x10-02	T	-0.061	1.3x10-01	T	0.084	1.7x10-02
rs6473015	8	78341040	PEX2	A/C	-0.029	6.9x10-13	A	C	0.044	3.5x10-01	-0.026	4.4x10-01	C	A	0.058	1.7x10-01	-0.075	8.9x10-02	C	-0.013	6.9x10-01	C	0.011	6.7x10-01
rs6470764	8	130794847	GSDMC	T/C	-0.05	1.7x10-28	C	T	-0.124	2.0x10-02	0.125	8.0x10-04	T	C	-0.032	5.5x10-01	0.002	9.7x10-01	T	0.047	2.1x10-01	T	-0.086	5.8x10-03
rs12680655	8	135706519	ZFAT	C/G	0.028	1.6x10-14	C	G	0.031	4.8x10-01	0.003	9.2x10-01	G	C	-0.008	8.1x10-01	0.070	5.1x10-02	C	0.017	5.3x10-01	G	-0.028	2.3x10-01
rs7864648	9	16358732	BNC2	T/G	0.022	2.1x10-08	G	T	0.026	6.1x10-01	-0.012	7.3x10-01	T	G	-0.030	4.2x10-01	0.033	3.9x10-01	T	-0.028	3.4x10-01	T	0.022	4.0x10-01
rs11144688	9	77732106	PCSK5	A/G	-0.049	9.6x10-12	A	G	-0.074	5.0x10-01	0.008	9.2x10-01	G	A	0.061	4.9x10-01	0.113	2.1x10-01	A	-0.066	3.4x10-01	G	-0.044	4.6x10-01
rs7853377	9	85742025	C9orf64	A/G	-0.024	4.5x10-08	A	G	0.006	9.1x10-01	-0.050	1.9x10-01	G	A	0.063	1.6x10-01	-0.072	1.2x10-01	G	-0.034	3.2x10-01	A	-0.002	9.6x10-01
rs8181166	9	88306448	ZCCHC6	C/G	0.026	2.7x10-12	C	G	-0.034	4.3x10-01	0.078	1.2x10-02	G	C	0.039	2.7x10-01	-0.084	2.2x10-02	C	-0.037	1.8x10-01	C	0.080	7.0x10-04
rs2778031	9	90025546	SPIN1	T/C	0.031	9.0x10-13	C	T	0.068	1.8x10-01	0.031	3.9x10-01	T	C	0.085	6.4x10-02	-0.015	7.5x10-01	C	0.016	6.4x10-01	T	-0.025	3.8x10-01
rs9969804	9	94468941	IPPK	A/C	0.03	7.7x10-17	A	C	0.023	6.0x10-01	0.011	7.1x10-01	C	A	0.038	2.7x10-01	-0.027	4.4x10-01	C	-0.014	5.9x10-01	A	0.018	4.3x10-01
rs1257763	9	95933766	PTPDC1	A/G	0.069	9.9x10-10	A	G	-0.075	5.8x10-01	0.022	8.2x10-01	G	A	0.165	1.8x10-01	-0.110	4.0x10-01	A	-0.124	1.7x10-01	A	0.053	5.0x10-01
rs473902	9	97296056	PTCH1/FANCC	T/G	0.065	2.3x10-17	G	T	-0.033	7.5x10-01	0.012	8.7x10-01	T	G	0.077	2.8x10-01	-0.015	8.4x10-01	T	0.063	2.9x10-01	T	-0.014	8.0x10-01
rs7027110	9	108638867	ZNF462	A/G	0.031	2.3x10-13	A	G	0.030	5.5x10-01	0.031	3.9x10-01	G	A	-0.130	2.3x10-03	0.073	9.8x10-02	A	0.088	6.8x10-03	G	-0.010	7.2x10-01
rs1468758	9	112846903	LPAR1	T/C	-0.026	1.4x10-09	C	T	0.036	4.7x10-01	-0.048	1.8x10-01	T	C	-0.040	3.4x10-01	0.004	9.3x10-01	T	-0.039	2.3x10-01	T	0.030	2.7x10-01
rs751543	9	118162163	PAPPA	T/C	0.026	6.5x10-10	C	T	0.066	2.0x10-01	-0.025	5.0x10-01	T	C	0.036	3.9x10-01	0.027	5.4x10-01	T	-0.005	8.8x10-01	T	0.026	3.6x10-01

rs11599750	10	101795432	CPN1	T/C	-0.028	1.6x10-13	C	T	-0.022	6.1x10-01	0.011	7.2x10-01	T	C	-0.016	6.8x10-01	-0.002	9.5x10-01	T	0.001	9.8x10-01	T	-0.008	7.5x10-01
rs2237886	11	2767307	KCNQ1	T/C	0.046	2.2x10-13	C	T	0.044	5.3x10-01	-0.032	5.2x10-01	T	C	-0.078	2.2x10-01	0.129	5.1x10-02	T	-0.062	1.9x10-01	T	0.068	9.0x10-02
rs7926971	11	12654616	TEAD1	A/G	-0.023	4.4x10-10	A	G	0.011	7.9x10-01	-0.006	8.5x10-01	G	A	-0.033	3.4x10-01	-0.004	9.2x10-01	A	0.024	3.7x10-01	A	-0.002	9.4x10-01
rs1330	11	17272605	NUCB2	T/C	0.022	4.9x10-09	C	T	0.044	3.2x10-01	0.001	9.8x10-01	T	C	0.043	2.5x10-01	-0.027	4.8x10-01	C	0.008	7.9x10-01	T	-0.012	6.4x10-01
rs10838801	11	48054856	PTPRJ/SLC39A13	A/G	-0.027	3.5x10-12	A	G	-0.009	8.5x10-01	-0.013	6.9x10-01	G	A	-0.049	2.0x10-01	0.009	8.3x10-01	G	0.026	3.8x10-01	A	-0.011	6.5x10-01
rs1814175	11	49515748	FOLH1	T/C	0.022	1.6x10-08	C	T	0.012	7.9x10-01	0.014	6.7x10-01	T	C	-0.021	5.6x10-01	-0.001	9.8x10-01	T	-0.018	5.3x10-01	T	-0.008	7.3x10-01
rs5017948	11	51270794	OR4A5	A/T	0.027	3.1x10-08	A	T	-0.062	2.6x10-01	0.018	6.5x10-01	T	A	0.081	9.6x10-02	0.010	8.4x10-01	A	-0.073	4.7x10-02	A	0.007	8.2x10-01
rs3782089	11	65093395	SSSCA1	T/C	-0.058	3.6x10-13	C	T	-0.050	5.5x10-01	0.064	2.8x10-01	T	C	-0.139	5.2x10-02	0.032	6.7x10-01	C	-0.058	2.8x10-01	T	-0.027	5.6x10-01
rs7112925	11	66582736	RHOD	T/C	-0.023	9.0x10-10	C	T	0.000	1.0x10+00	0.033	3.0x10-01	T	C	0.004	9.2x10-01	0.007	8.6x10-01	C	0.002	9.4x10-01	T	-0.017	4.8x10-01
rs634552	11	74959700	SERPINH1	T/G	0.039	3.5x10-13	G	T	-0.190	2.6x10-03	0.071	1.1x10-01	T	G	-0.029	5.3x10-01	0.011	8.2x10-01	T	0.046	2.1x10-01	T	-0.032	3.2x10-01
rs494459	11	118079885	TREH	T/C	0.02	1.7x10-08	C	T	0.085	5.1x10-02	-0.020	5.3x10-01	T	C	0.029	4.1x10-01	-0.022	5.4x10-01	T	-0.016	5.6x10-01	T	0.002	9.4x10-01
rs654723	11	128091365	FLI1	A/C	0.025	3.6x10-11	A	C	0.107	1.8x10-02	-0.041	2.0x10-01	C	A	-0.031	4.3x10-01	0.007	8.6x10-01	A	0.063	3.2x10-02	A	-0.028	2.7x10-01
rs2856321	12	11747040	ETV6	A/G	-0.029	4.5x10-15	A	G	-0.038	3.9x10-01	0.039	2.2x10-01	G	A	0.013	7.1x10-01	-0.040	2.8x10-01	A	-0.023	4.1x10-01	A	0.040	1.0x10-01
rs10770705	12	20748734	SLCO1C1	A/C	0.033	8.0x10-18	A	C	0.004	9.4x10-01	-0.004	9.1x10-01	C	A	-0.041	2.9x10-01	0.062	1.2x10-01	A	0.026	3.9x10-01	A	-0.027	2.8x10-01
rs2638953	12	28425682	CCDC91	C/G	0.032	6.7x10-17	C	G	-0.023	6.1x10-01	0.006	8.6x10-01	G	C	0.014	6.9x10-01	-0.035	3.7x10-01	C	-0.018	5.3x10-01	C	0.018	4.8x10-01
rs2066807	12	55026949	STAT2	C/G	-0.054	1.0x10-13	C	G	0.095	2.8x10-01	-0.108	8.1x10-02	G	C	0.018	8.3x10-01	-0.017	8.3x10-01	C	0.034	5.7x10-01	C	-0.062	2.1x10-01
rs1351394	12	64638093	HMGA2	T/C	0.06	1.7x10-65	C	T	0.149	5.5x10-04	-0.151	9.8x10-07	T	C	-0.128	2.6x10-04	0.134	2.4x10-04	T	-0.136	5.3x10-07	T	0.144	1.0x10-09
rs10748128	12	68113925	FRS2	T/G	0.038	2.1x10-20	G	T	-0.107	1.8x10-02	0.023	4.7x10-01	T	G	-0.004	9.2x10-01	-0.018	6.7x10-01	T	0.046	1.3x10-01	T	-0.022	4.0x10-01
rs11107116	12	92502635	SOCS2	T/G	0.052	1.4x10-34	G	T	0.006	9.1x10-01	0.034	3.5x10-01	T	G	-0.016	6.9x10-01	0.007	8.6x10-01	T	-0.012	7.0x10-01	T	-0.016	5.5x10-01
rs7971536	12	100897919	CCDC53/GNPTAB	A/T	-0.028	8.2x10-14	A	T	-0.013	7.7x10-01	0.025	4.3x10-01	T	A	-0.008	8.2x10-01	0.004	9.1x10-01	A	0.000	9.9x10-01	A	0.013	5.8x10-01
rs11830103	12	122389499	SBNO1	A/G	-0.035	3.9x10-15	A	G	-0.003	9.6x10-01	0.000	9.9x10-01	G	A	-0.057	1.7x10-01	0.073	9.4x10-02	G	0.035	2.9x10-01	A	-0.032	2.7x10-01
rs7332115	13	32045548	PDS5B/BRCA2	T/G	-0.023	5.5x10-10	G	T	-0.099	2.6x10-02	0.033	2.9x10-01	T	G	-0.042	2.3x10-01	0.056	1.2x10-01	T	0.012	6.6x10-01	G	0.005	8.3x10-01
rs3118905	13	50003335	DLEU7	A/G	-0.056	1.1x10-45	A	G	-0.009	8.4x10-01	0.014	6.8x10-01	G	A	-0.033	3.8x10-01	0.029	4.6x10-01	G	0.017	5.6x10-01	G	-0.005	8.5x10-01
rs7319045	13	90822575	GPC5	A/G	0.025	1.2x10-11	A	G	-0.046	3.0x10-01	0.059	6.2x10-02	G	A	-0.001	9.8x10-01	-0.036	3.4x10-01	A	-0.018	5.3x10-01	A	0.049	4.1x10-02
rs1950500	14	23900690	NFATC4	T/C	0.034	2.2x10-18	C	T	-0.066	1.5x10-01	0.008	8.0x10-01	T	C	-0.007	8.6x10-01	-0.022	5.8x10-01	T	0.023	4.4x10-01	T	-0.014	5.9x10-01
rs2093210	14	60027032	SIX6	T/C	-0.032	6.2x10-17	C	T	0.027	5.5x10-01	-0.036	2.6x10-01	T	C	-0.017	6.7x10-01	-0.057	1.7x10-01	T	-0.021	4.8x10-01	T	0.001	9.6x10-01
rs1570106	14	67882868	RAD51L1	T/C	-0.026	8.1x10-09	C	T	0.136	1.2x10-02	-0.119	2.2x10-03	T	C	-0.126	3.5x10-03	0.164	2.4x10-04	T	-0.130	1.2x10-04	T	0.139	2.3x10-06
rs862034	14	74060499	LTBP2	A/G	-0.028	7.3x10-14	A	G	0.001	9.7x10-01	-0.020	5.2x10-01	G	A	-0.034	3.5x10-01	0.010	7.9x10-01	A	0.021	4.6x10-01	A	-0.016	5.0x10-01
rs7155279	14	91555634	TRIP11	T/G	-0.024	1.4x10-10	G	T	-0.033	4.6x10-01	-0.028	3.9x10-01	T	G	0.010	8.0x10-01	-0.037	3.4x10-01	T	0.019	5.1x10-01	T	0.001	9.6x10-01
rs16964211	15	49317787	CYP19A1	A/G	-0.05	1.7x10-09	A	G	-0.122	2.4x10-01	-0.035	6.3x10-01	G	A	-0.077	2.6x10-01	-0.028	7.0x10-01	G	0.017	7.7x10-01	A	-0.003	9.6x10-01
rs7178424	15	60167551	C2CD4A	T/C	-0.021	5.6x10-09	C	T	0.010	8.2x10-01	0.010	7.5x10-01	T	C	0.034	3.5x10-01	-0.011	7.8x10-01	C	0.016	5.7x10-01	T	-0.010	6.7x10-01
rs10152591	15	67835211	TLE3	A/C	0.041	2.7x10-10	A	C	0.015	8.2x10-01	0.019	6.9x10-01	C	A	0.060	4.3x10-01	-0.001	9.9x10-01	C	-0.018	7.2x10-01	A	0.014	7.3x10-01
rs12902421	15	69948457	MYO9A	T/C	-0.062	2.9x10-08	C	T	-0.001	1.0x10+00	0.100	2.6x10-01	T	C	0.054	7.0x10-01	-0.029	8.4x10-01	T	0.024	8.0x10-01	T	-0.081	2.9x10-01

rs4965598	15	98577137	ADAMTS17	T/C	-0.028	4.3x10-13	C	T	-0.017	7.1x10-01	0.001	9.6x10-01	T	C	0.071	7.9x10-02	-0.094	2.6x10-02	T	0.047	1.2x10-01	T	-0.036	1.6x10-01
rs11648796	16	732191	NARFL	A/G	-0.034	1.2x10-13	A	G	0.048	3.8x10-01	-0.045	2.5x10-01	G	A	-0.016	6.8x10-01	0.002	9.6x10-01	A	0.027	4.0x10-01	A	-0.025	3.9x10-01
rs26868	16	2189377	CASKIN1	A/T	0.034	9.0x10-17	A	T	-0.032	4.6x10-01	0.039	2.1x10-01	T	A	-0.012	7.5x10-01	-0.015	6.9x10-01	A	-0.007	8.2x10-01	A	0.030	2.2x10-01
rs1659127	16	14295806	MKL2	A/G	0.027	1.1x10-11	A	G	0.088	6.5x10-02	-0.008	8.1x10-01	G	A	-0.009	8.2x10-01	-0.012	7.7x10-01	A	0.040	1.8x10-01	G	0.000	9.9x10-01
rs8052560	16	87304743	CTU2/GALNS	A/C	0.029	3.3x10-08	A	C	-0.025	6.7x10-01	0.039	3.4x10-01	C	A	0.017	7.6x10-01	-0.045	4.3x10-01	A	-0.021	6.1x10-01	A	0.041	2.2x10-01
rs4640244	17	21224816	KCNJ12	A/G	0.024	2.3x10-08	A	G	0.046	2.9x10-01	-0.037	2.4x10-01	G	A	-0.060	1.4x10-01	0.059	1.6x10-01	A	0.053	7.4x10-02	A	-0.045	7.6x10-02
rs3110496	17	24941897	ANKRD13B	A/G	-0.022	7.3x10-09	A	G	-0.021	6.5x10-01	-0.021	5.2x10-01	G	A	-0.042	2.2x10-01	0.022	5.5x10-01	G	0.019	4.9x10-01	A	-0.021	3.8x10-01
rs3764419	17	26188149	ATAD5/RNF135	A/C	-0.035	1.8x10-21	A	C	0.015	7.3x10-01	0.020	5.2x10-01	C	A	-0.013	7.2x10-01	0.054	1.4x10-01	A	0.014	6.2x10-01	C	-0.011	6.4x10-01
rs17780086	17	27367395	LRRC37B	A/G	0.028	2.6x10-08	A	G	0.014	8.3x10-01	-0.017	7.2x10-01	G	A	-0.049	3.6x10-01	0.134	1.7x10-02	A	0.035	4.0x10-01	A	-0.064	7.3x10-02
rs1043515	17	34175722	PIP4K2B	A/G	-0.023	2.9x10-10	A	G	0.102	1.8x10-02	-0.080	9.1x10-03	G	A	-0.023	5.1x10-01	0.055	1.2x10-01	A	0.053	4.7x10-02	A	-0.069	2.9x10-03
rs4986172	17	40571807	ACBD4	T/C	-0.032	2.3x10-16	C	T	-0.022	6.3x10-01	0.044	1.8x10-01	T	C	0.002	9.6x10-01	0.013	7.1x10-01	T	0.009	7.4x10-01	T	-0.018	4.5x10-01
rs2072153	17	44745013	ZNF652	C/G	0.021	3.5x10-08	C	G	-0.005	9.2x10-01	0.026	4.4x10-01	G	C	0.065	9.7x10-02	-0.061	1.3x10-01	C	-0.040	1.8x10-01	C	0.040	1.2x10-01
rs4605213	17	46599746	NME2	C/G	0.021	2.7x10-08	C	G	-0.053	2.5x10-01	0.021	5.2x10-01	G	C	0.034	3.8x10-01	-0.025	5.3x10-01	C	-0.042	1.6x10-01	C	0.023	3.7x10-01
rs227724	17	52133816	NOG	A/T	-0.03	7.4x10-15	A	T	-0.167	3.1x10-04	0.028	3.9x10-01	T	A	0.034	3.4x10-01	0.048	2.0x10-01	A	-0.085	3.0x10-03	T	-0.005	8.5x10-01
rs2079795	17	56851431	TBX2	T/C	0.04	2.1x10-24	C	T	0.014	7.6x10-01	-0.006	8.4x10-01	T	C	0.025	5.4x10-01	-0.014	7.3x10-01	C	0.008	7.9x10-01	C	-0.001	9.6x10-01
rs2665838	17	59320197	CSH1/GH1	C/G	-0.042	5.1x10-25	C	G	0.002	9.8x10-01	-0.021	5.6x10-01	G	C	0.000	1.0	-0.040	3.5x10-01	C	0.001	9.8x10-01	G	0.004	8.8x10-01
rs11867479	17	65601802	KCNJ16/KCNJ2	T/C	0.025	1.5x10-10	C	T	-0.030	4.9x10-01	0.031	3.3x10-01	T	C	0.074	9.0x10-02	-0.132	3.6x10-03	T	0.053	9.2x10-02	T	-0.064	1.3x10-02
rs4800452	18	18981609	CABLES1	T/C	0.051	4.2x10-30	C	T	0.018	7.3x10-01	0.018	6.3x10-01	T	C	-0.035	4.0x10-01	0.010	8.1x10-01	T	-0.029	3.8x10-01	T	-0.006	8.4x10-01
rs9967417	18	45213498	DYM	C/G	-0.038	9.3x10-25	C	G	0.008	8.5x10-01	-0.030	3.3x10-01	G	C	0.030	4.6x10-01	0.002	9.6x10-01	G	-0.012	6.8x10-01	C	-0.020	4.2x10-01
rs17782313	18	56002077	MC4R	T/C	-0.028	3.8x10-11	C	T	0.146	3.6x10-03	-0.069	5.2x10-02	T	C	0.001	9.9x10-01	-0.036	4.5x10-01	T	-0.066	5.2x10-02	T	0.031	2.7x10-01
rs12982744	19	2128193	DOT1L	C/G	-0.03	3.4x10-16	C	G	-0.023	6.0x10-01	-0.023	4.5x10-01	G	C	-0.010	8.0x10-01	-0.044	2.6x10-01	C	-0.004	8.8x10-01	G	0.003	9.1x10-01
rs7507204	19	3379834	NFIC	C/G	0.036	4.3x10-16	C	G	-0.012	8.3x10-01	0.005	9.0x10-01	G	C	-0.002	9.7x10-01	-0.049	2.5x10-01	C	-0.003	9.3x10-01	C	0.026	3.8x10-01
rs891088	19	7135762	INSR	A/G	-0.029	2.4x10-12	A	G	-0.029	5.5x10-01	0.038	2.8x10-01	G	A	-0.025	5.1x10-01	0.002	9.7x10-01	G	0.004	8.9x10-01	A	0.021	4.2x10-01
rs4072910	19	8550031	ADAMTS10	C/G	-0.031	3.6x10-13	C	G	0.017	7.2x10-01	0.033	3.3x10-01	G	C	-0.002	9.5x10-01	-0.009	8.2x10-01	C	0.008	7.9x10-01	C	0.023	3.7x10-01
rs2279008	19	17144303	MYO9B	T/C	0.025	2.5x10-08	C	T	0.031	5.3x10-01	0.029	4.1x10-01	T	C	-0.079	2.9x10-02	0.002	9.5x10-01	T	-0.062	3.4x10-02	T	-0.014	5.7x10-01
rs17318596	19	46628935	ATP5SL	A/G	0.032	5.0x10-16	A	G	-0.015	7.6x10-01	0.009	8.0x10-01	G	A	0.037	3.6x10-01	-0.040	3.3x10-01	A	-0.028	3.7x10-01	A	0.022	4.1x10-01
rs1741344	20	4049800	SMOX	T/C	-0.023	3.3x10-09	C	T	0.065	1.5x10-01	-0.030	3.5x10-01	T	C	0.046	2.4x10-01	0.011	7.9x10-01	T	-0.002	9.4x10-01	T	0.023	3.6x10-01
rs2145272	20	6574218	BMP2	A/G	-0.039	2.1x10-24	A	G	0.037	4.1x10-01	0.024	4.6x10-01	G	A	-0.077	4.8x10-02	-0.011	7.8x10-01	A	0.060	4.2x10-02	A	0.019	4.5x10-01
rs7274811	20	31796842	ZNF341	T/G	-0.041	5.9x10-22	G	T	-0.091	6.2x10-02	0.018	6.0x10-01	T	G	0.038	3.5x10-01	-0.071	9.3x10-02	T	0.059	5.6x10-02	T	-0.039	1.4x10-01
rs143384	20	33489170	GDF5	A/G	-0.063	1.0x10-58	A	G	0.005	9.2x10-01	0.052	1.2x10-01	G	A	-0.037	3.1x10-01	0.019	6.3x10-01	A	0.025	3.9x10-01	A	0.021	4.0x10-01
rs237743	20	47336426	ZNFX1	A/G	0.041	1.3x10-20	A	G	-0.100	5.0x10-02	0.089	1.4x10-02	G	A	0.016	7.0x10-01	-0.018	6.7x10-01	A	-0.049	1.3x10-01	A	0.060	3.1x10-02
rs2834442	21	34612656	KCNE2	A/T	0.026	5.1x10-12	A	T	0.022	6.3x10-01	0.002	9.5x10-01	T	A	0.033	3.7x10-01	-0.050	1.8x10-01	T	-0.011	7.0x10-01	A	0.022	3.7x10-01
rs4821083	22	31386341	SYN3	T/C	0.031	3.1x10-10	C	T	-0.042	4.9x10-01	0.044	3.1x10-01	T	C	-0.053	2.8x10-01	-0.034	5.0x10-01	C	-0.016	6.8x10-01	T	-0.040	2.3x10-01

Supplementary Table 5: 180 robustly associated height variants from the Lango-Allen et al. (2010) Giant Consortium meta-analysis examining the degree to which these SNPs were associated with 'age at first tooth' and 'number of teeth'. A1 refers to the effect allele in all studies.

		Pathway P value thresholds					
P-value criterion for SNPs	Number of genes	P<0.05		P<0.01		P<0.001	
		Number of pathways	P value	Number of pathways	P value	Number of pathways	P value
0.0001	118	70	0.017	19	0.049	4	0.053
0.0005	262	49	0.174	16	0.089	2	0.159
0.001	410	73	0.063	16	0.110	3	0.086
0.005	1358	157	0.004	50	0.002	11	0.004

(A) Number of significantly over-represented pathways in the 'age at first tooth' GWAS.

		Pathway P value thresholds					
P-value criterion for SNPs	Number of genes	P<0.05		P<0.01		P<0.001	
		Number of pathways	P value	Number of pathways	P value	Number of pathways	P value
0.0001	90	25	0.196	6	0.258	1	0.255
0.0005	254	26	0.546	5	0.542	1	0.355
0.001	408	56	0.146	13	0.167	0	1.000
0.005	1272	60	0.273	17	0.130	0	1.000

(B) Number of significantly over-represented pathways in the 'number of teeth' GWAS.

Supplementary Table 6: Summary statistics from ALIGATOR analyses for (a) the 'time to first tooth' GWAS and (b) the 'number of teeth' GWAS . The first column gives the P-value criteria (left-most column) GWAS threshold. The second column displays the number of genes with one or more SNPs with a p-value less than the labelled threshold. Third column displays number of pathways with a p-value less than the labelled threshold, the adjacent P value indicates whether this number is significantly greater than that expected by chance, similarly for the subsequent columns.