

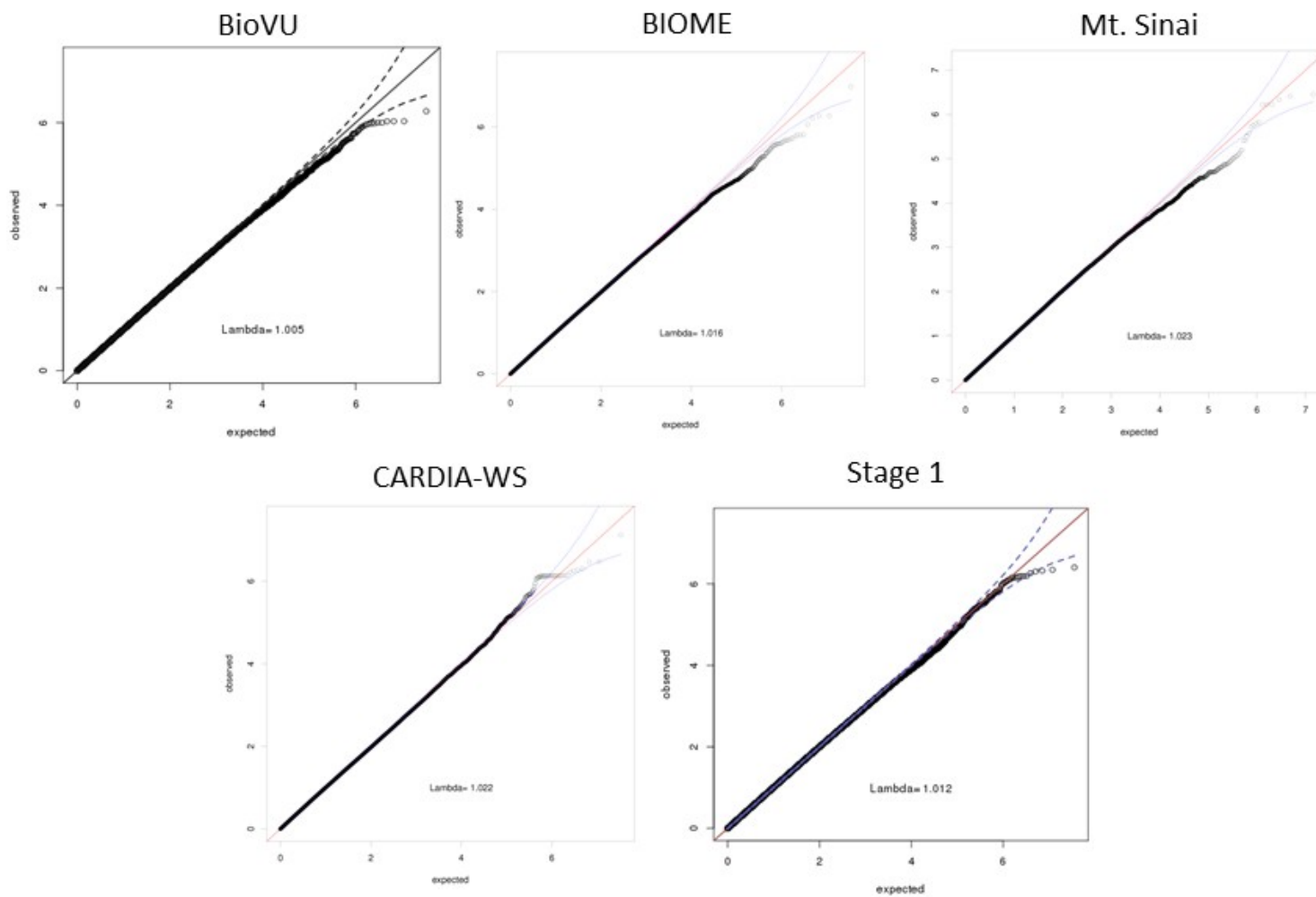
**Supplemental Table 1. Genotype, imputation and association analysis by Stage 1 study**

Study	Genotyping Platform	Before Imputation				Imputation	Post-QC SNPs	Analysis Program	Covariates	Lambda
		Calling Algorithm	N SNPs	Call Rate	SNP Call Rate					
BioVU	Affymetrix Axiom BioBank Array & Affymetrix Axiom World Array 3	Birdsuite	1,345,099	0.95	0.95	IMPUTE v2	16,616,168	SNPTest	5PCs	1.005
Mt Sinai	Illumina Omni 1M	GenomeStudio	827,762	0.95	0.95	IMPUTE v2	16,636,703	SNPTest	5PCs	1.023
BIOME	Illumina 1M	GenomeStudio	675,206	0.95	0.95	IMPUTE v2	16,781,541	SNPTest	5PCs	1.016
CARDIA	Affymetrix 6.0	Birdsuite	855,408	0.95	0.95	IMPUTE v2	16,701,587	SNPTest	5PCs	1.022

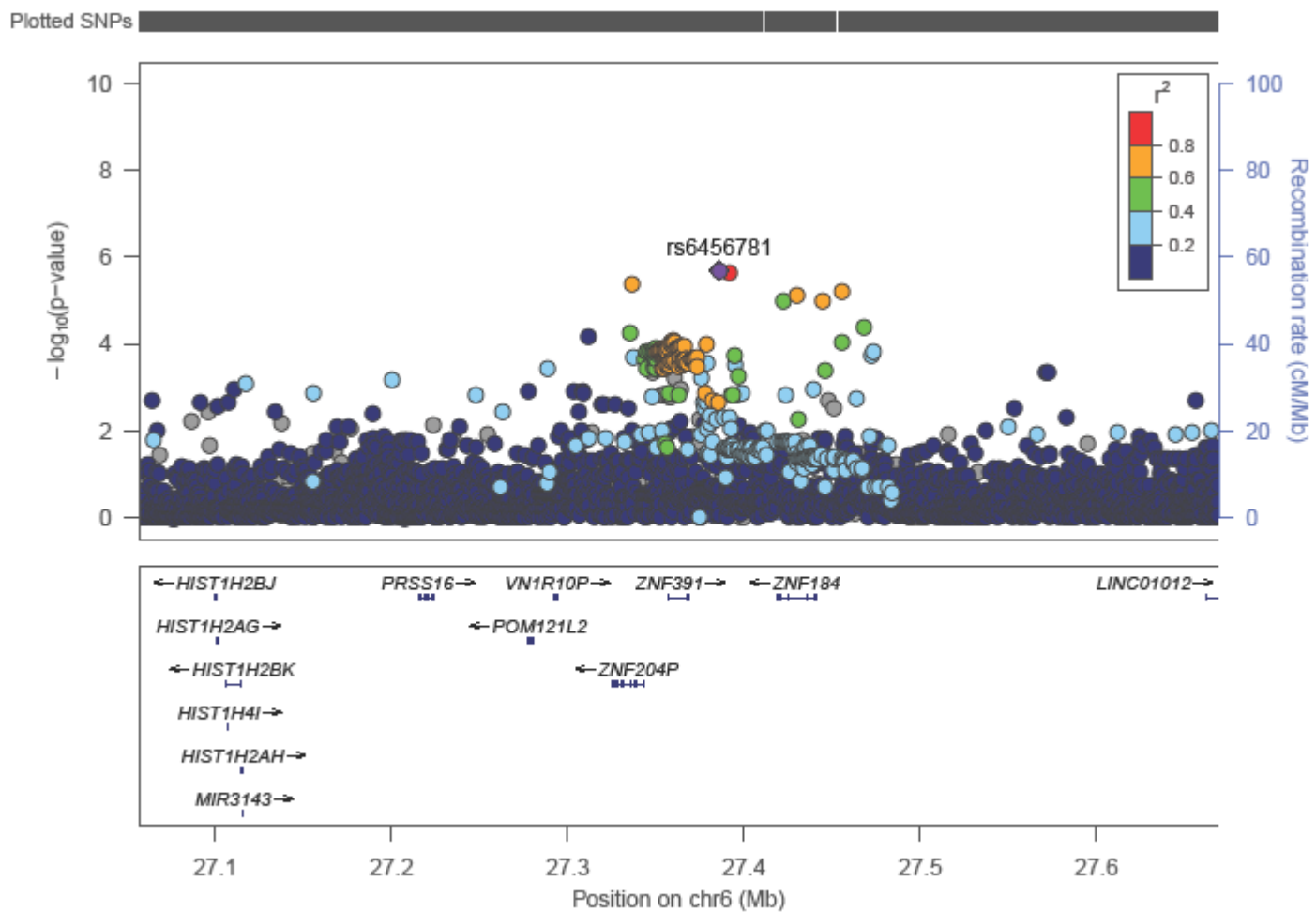
**Supplemental Table 2. Association results by stage of meta-analysis**

Chr	Pos	SNP	Gene	EA/RA	EAF	Stage 1 (N=1,273/1,379)			Stage 1 + 2 (N=3,399/4,764)		
						OR(95%CI)	P	Direction <sup>1</sup>	OR(95%CI)	P	Direction <sup>1</sup>
22	37728254	rs739187	CYTH4-ELFN2	T/C	0.27	1.38 (1.26 – 1.52)	6.46E-07	++++	1.23 (1.16 – 1.30)	<b>7.83E-09</b>	++++++
22	37722301	rs4821628	CYTH4-ELFN2	A/G	0.76	0.73 (0.60 – 0.86)	3.12E-06	----	0.81 (0.74 – 0.88)	<b>8.86E-09</b>	-----
22	37726660	rs713939	CYTH4-ELFN2	T/C	0.27	1.35 (1.22 – 1.50)	1.41E-06	++++	1.22 (1.15 – 1.29)	<b>1.37E-08</b>	++++++
22	37719004	rs5995416	CYTH4-ELFN2	T/C	0.29	1.35 (1.22 – 1.47)	2.49E-06	++++	1.21 (1.14 – 1.28)	<b>3.44E-08</b>	++++++
22	37717946	rs4821627	CYTH4-ELFN2	T/C	0.29	1.36 (1.23 – 1.48)	2.06E-06	++++	1.21 (1.14 – 1.27)	5.86E-08	++++++
3	5348595	rs55768811		A/T	0.91	0.78 (0.57 – 0.99)	0.018	---?	0.76 (0.66 – 0.87)	2.62E-07	---?--
8	75119342	rs6472827		T/C	0.07	0.73 (0.52 – 0.95)	0.0050	----	0.76 (0.65 – 0.86)	3.89E-07	-----
3	5346825	rs6804817		T/G	0.09	1.31 (1.11 – 1.51)	0.0076	++++	1.31 (1.20 – 1.41)	4.18E-07	++++++
3	5348095	rs62255982		T/C	0.09	1.27 (1.06 – 1.48)	0.024	+++?	1.31 (1.21 – 1.42)	4.39E-07	+++?++
22	37736406	rs34377599	CYTH4-ELFN2	G/GC	0.70	0.73 (0.60 – 0.86)	1.53E-06	----	0.78 (0.69 – 0.88)	4.62E-07	----?-
8	4441780	rs11987640		C/G	0.20	1.03 (0.82 – 1.23)	0.81	?-++	0.81 (0.73 – 0.89)	4.85E-07	?-+--+
8	4441757	rs11987636		A/G	0.20	1.03 (0.82 – 1.23)	0.81	?-++	0.81 (0.73 – 0.89)	4.94E-07	?-+--+
9	137312947	rs36048743		C/G	0.77	1.41 (1.28 – 1.55)	3.96E-07	+++	1.20 (1.09 – 1.31)	8.42E-04	+++?-
22	44357940	rs9626066		A/T	0.02	3.41 (2.94 – 3.89)	4.78E-07	+++?	1.25 (1.03 – 1.47)	0.050	+++?--
2	7474207	rs12621056		A/G	0.93	0.55 (0.32 – 0.78)	4.55E-07	----	0.96 (0.85 – 1.06)	0.42	----++

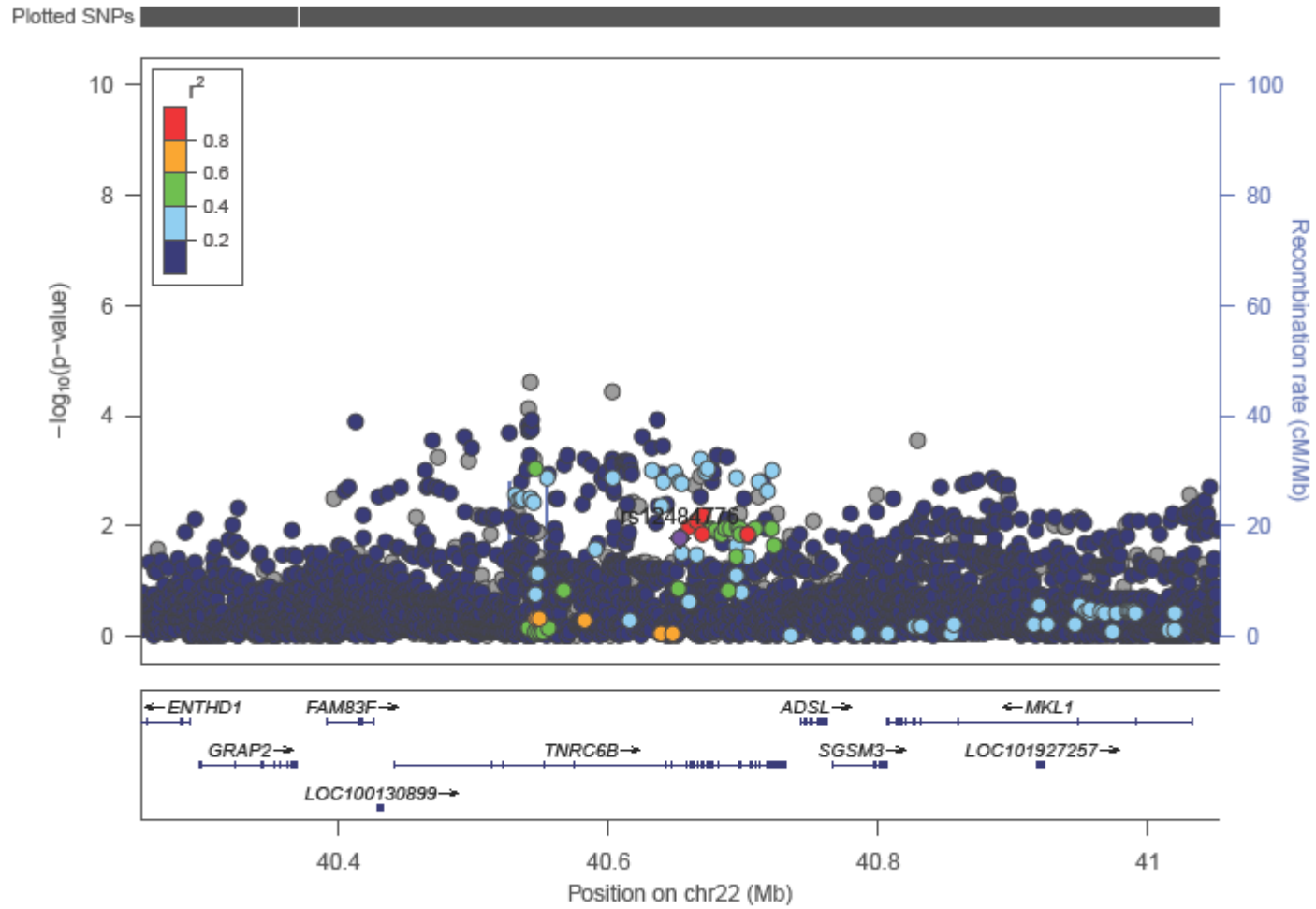
<sup>1</sup>Order of studies: BioVU, BioME, CARDIA, Mt Sinai, 23andMe, BWHS  
Full summary statistics are available upon request.



**Supplemental Figure 1. African American quantile-quantile plot by cohort and for meta-analysis**

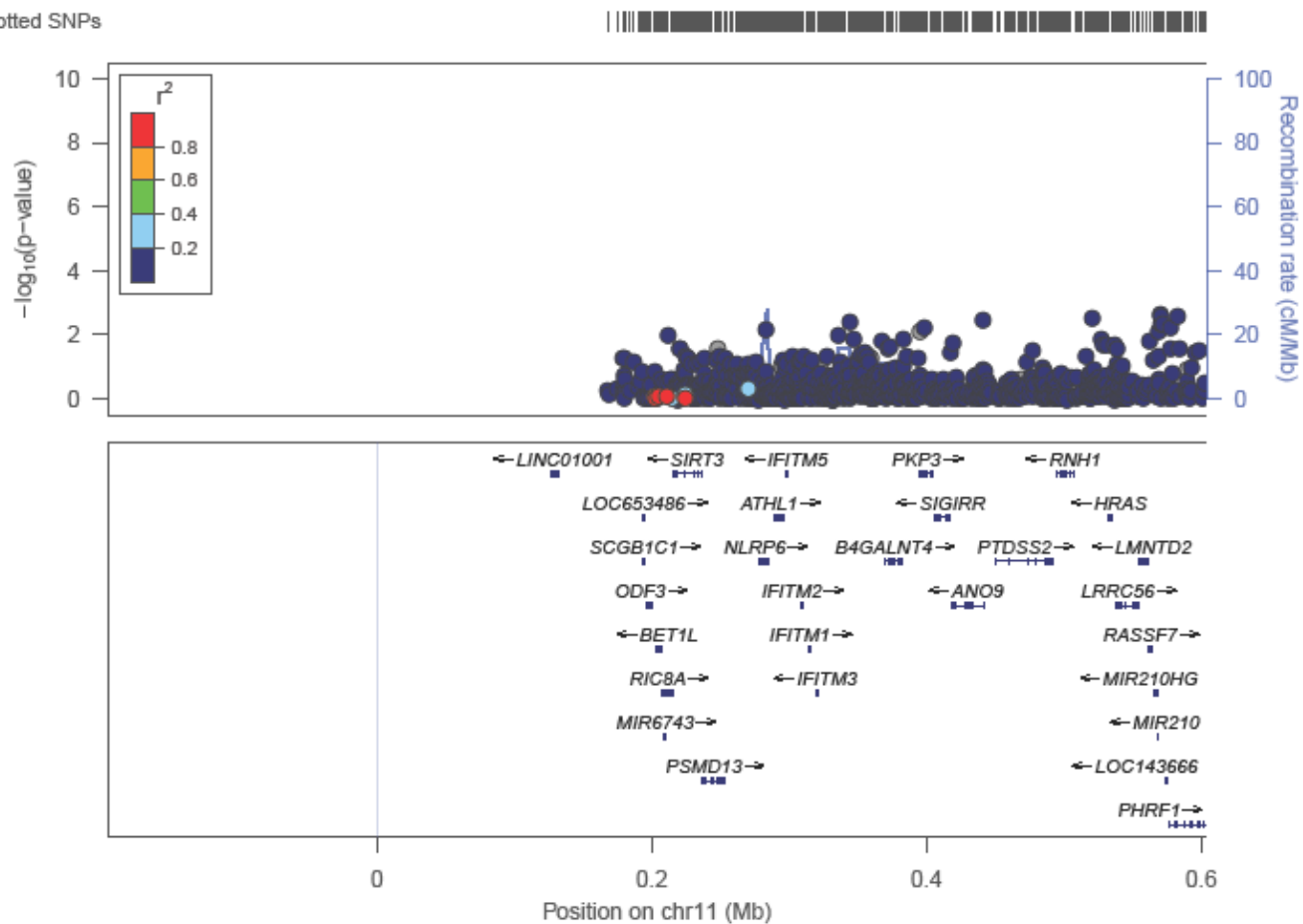


Supplementary Figure 2. LocusZoom plot displaying suggestive association near ZNF391.

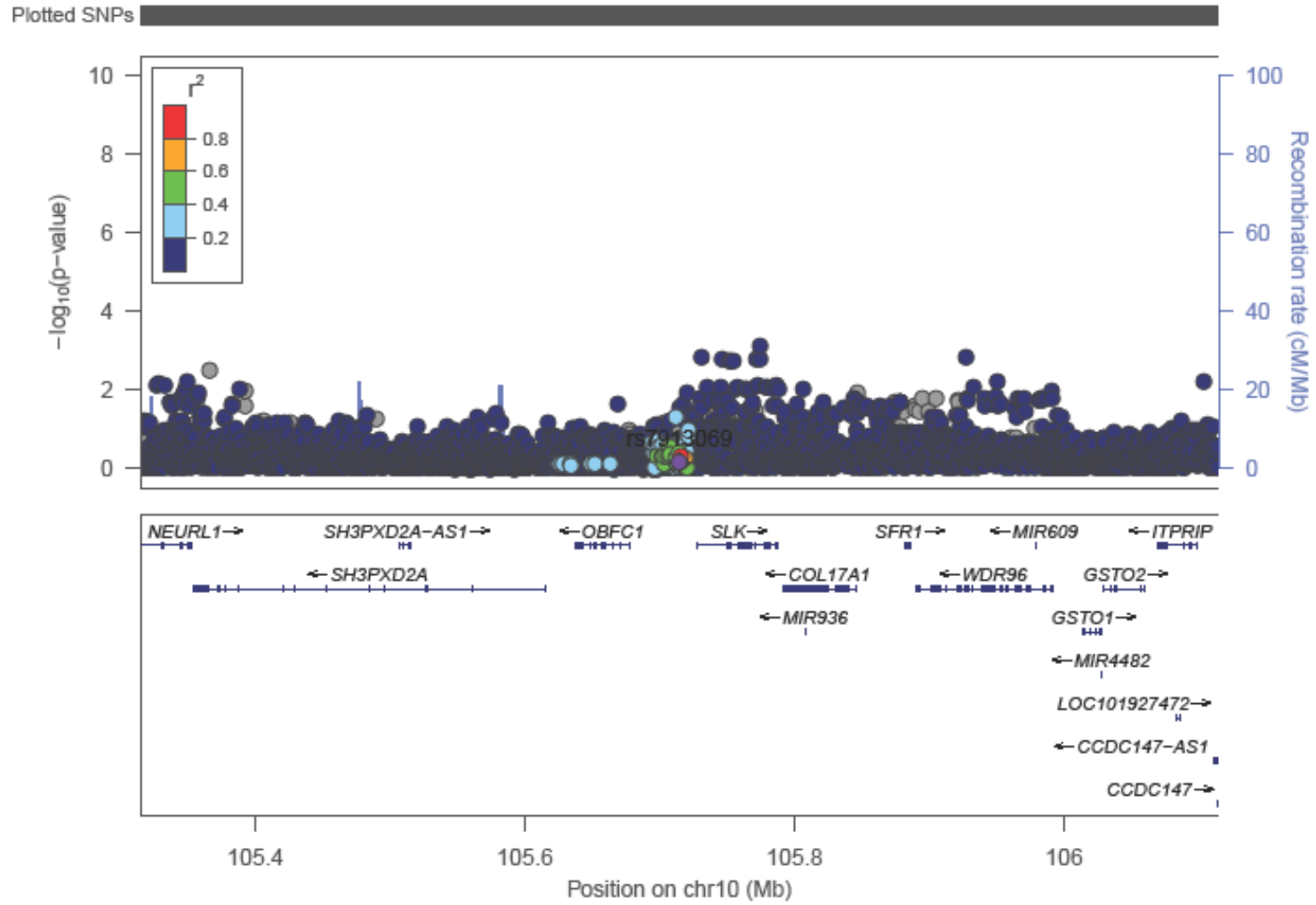


**Supplementary Figure 3. LocusZoom plot displaying previously identified region *TNRC6B* (rs12484776)**

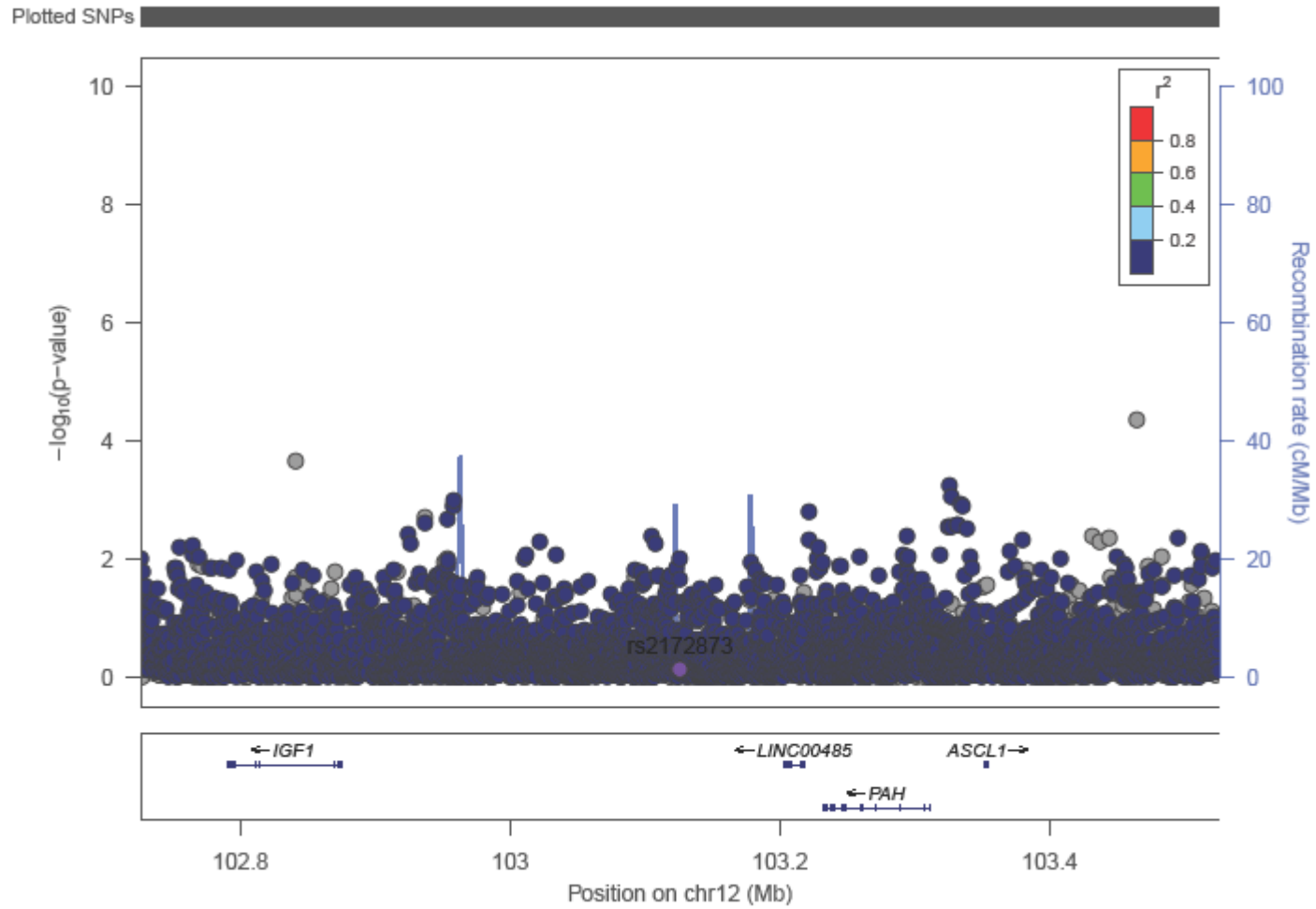
Plotted SNPs



Supplementary Figure 4. LocusZoom plot displaying **BET1L (rs2280543)**:

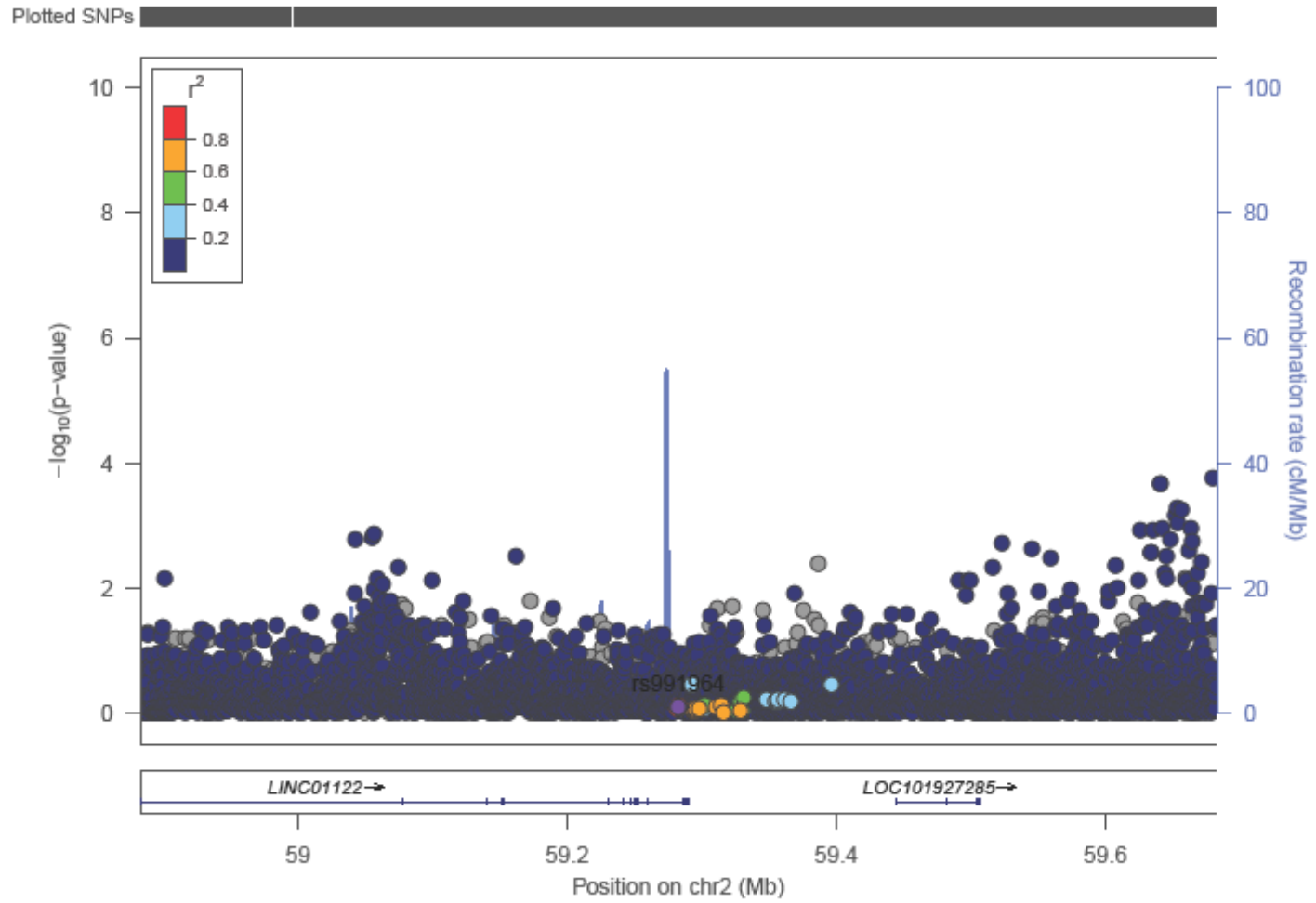


Supplementary Figure 5. LocusZoom plot displaying OBFC1 – SLK (rs7913069):



Supplementary Figure 6. LocusZoom plot displaying **Rs2172873**:





Supplementary Figure 7. LocusZoom plot displaying **Rs991964**: