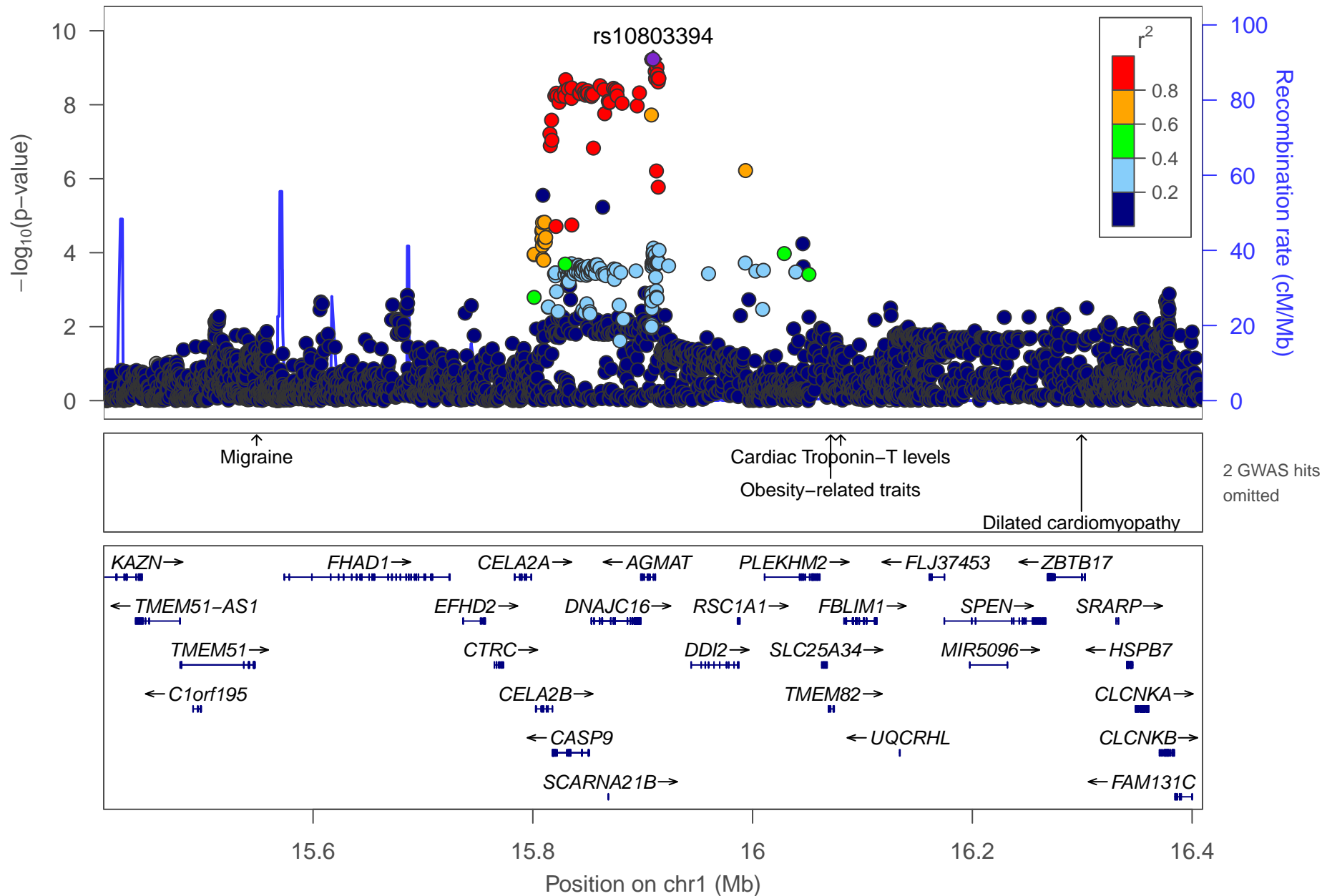
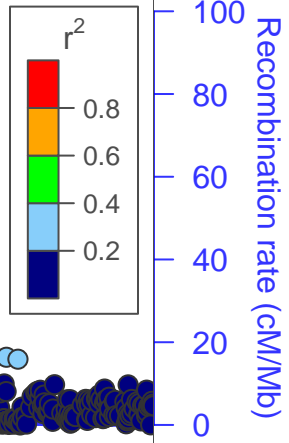
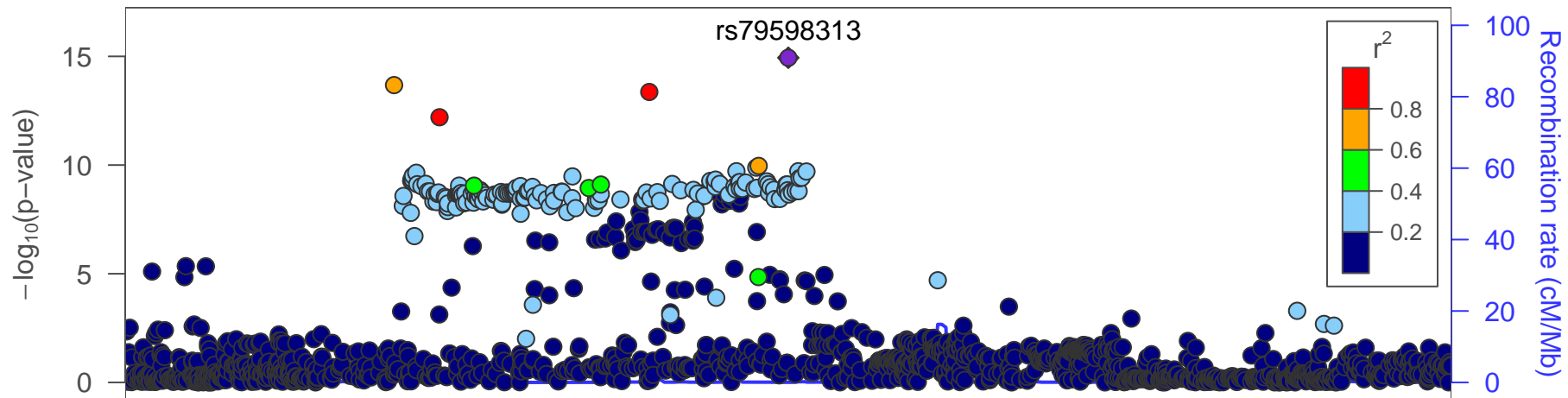


Supplementary Data Set: Regional association plots of 183 genome-wide significant loci from trans-ethnic meta-analysis.

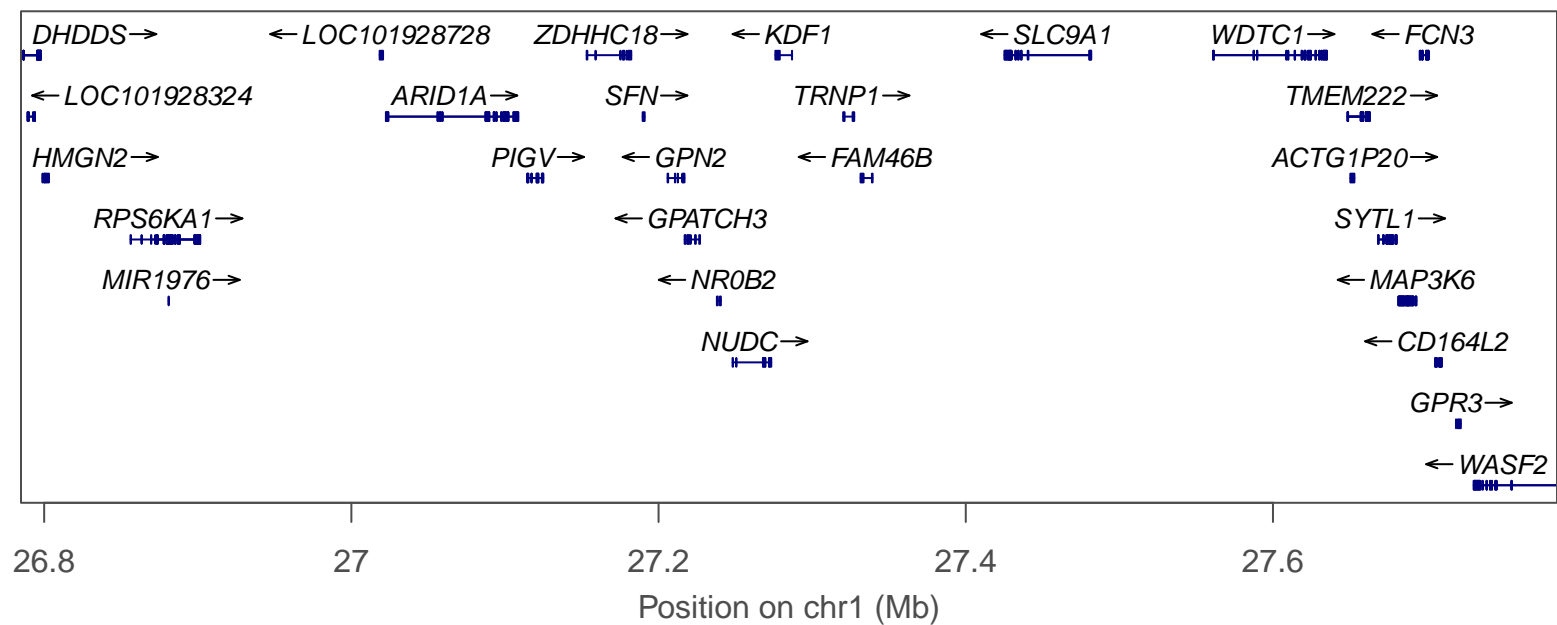
Regional association plots are shown for all genome-wide significant loci from trans-ethnic meta-analysis (n=457,690). The y-axis shows $-\log_{10}$ (two-sided nominal p-value) from the meta-analysis using inverse variance weighted fixed effect method. Correlation (r^2) with the index SNP was estimated based on the 1000 Genomes EUR reference samples. Plots were generated using the stand-alone version 1.3 of LocusZoom (Pruim, R.J. *et al. Bioinformatics* 26, 2336-7, 2010). Genetic positions refer to GRCh37/hg19 coordinates. Zoomed in versions of pages 19, 21, 52, 54, 57, 69, 71, 93, 115, and 119 are appended at the end of the document.





HDL cholesterol
 LDL cholesterol
 Triglycerides

Estradiol plasma levels (br)



26.8

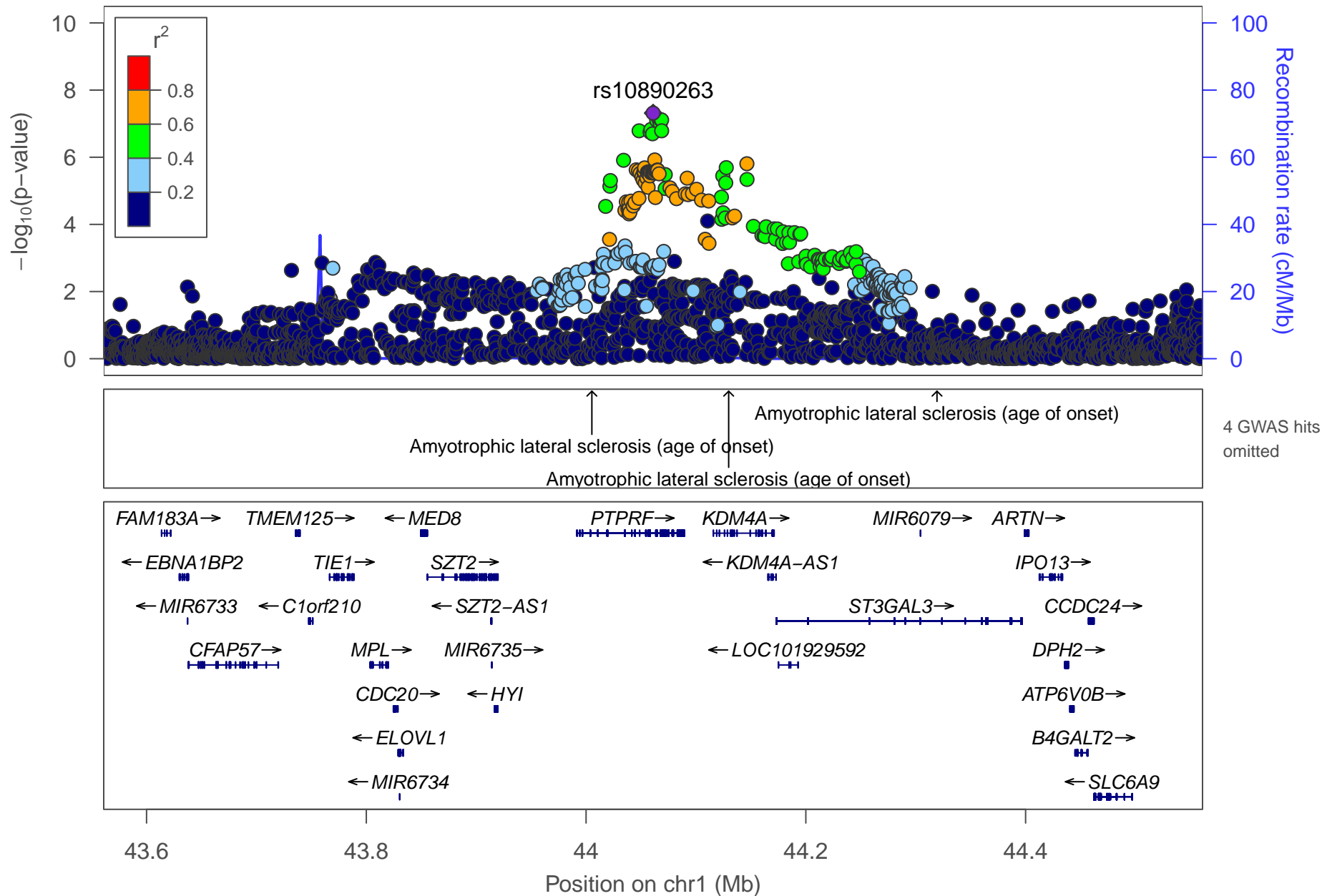
27

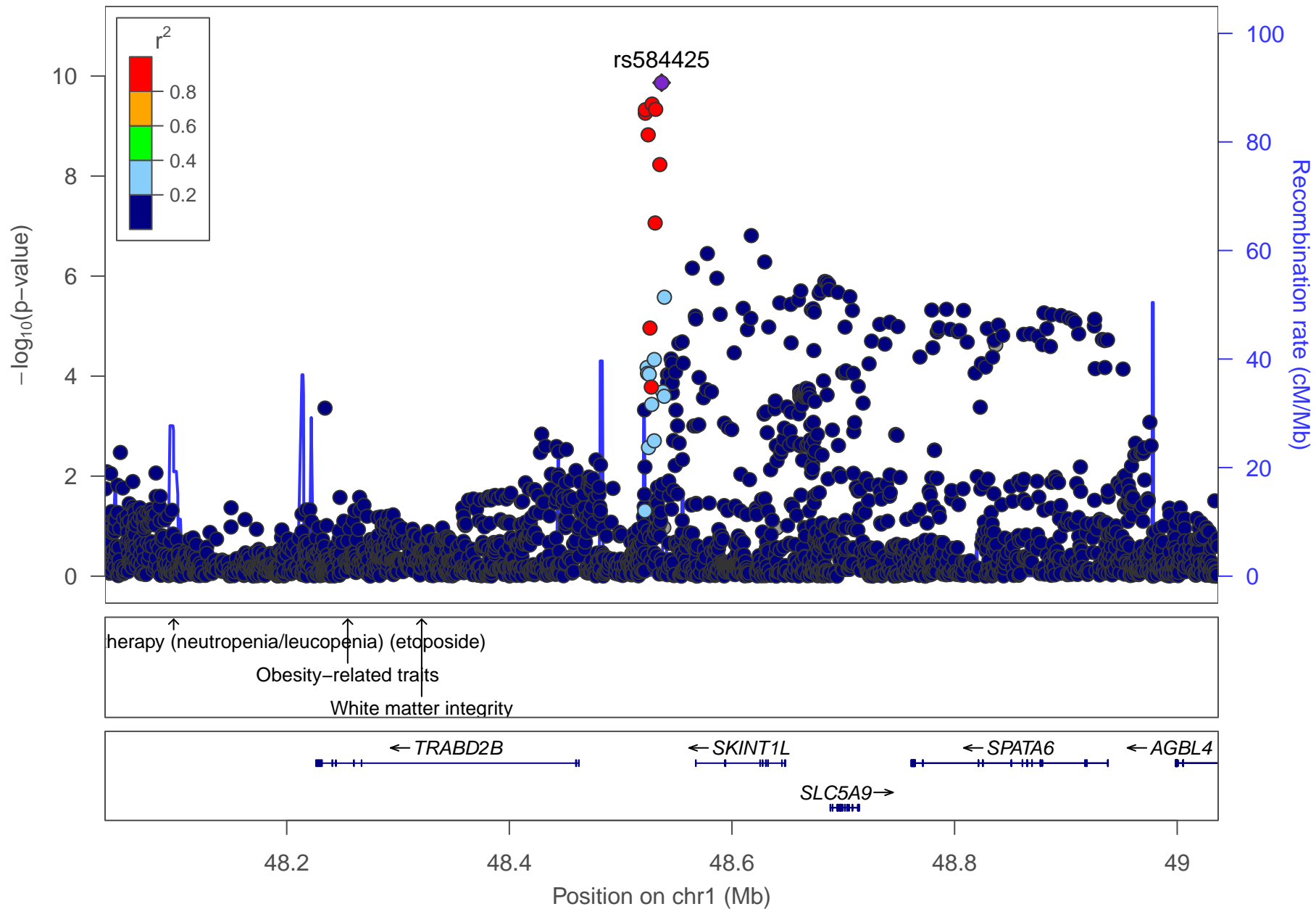
27.2

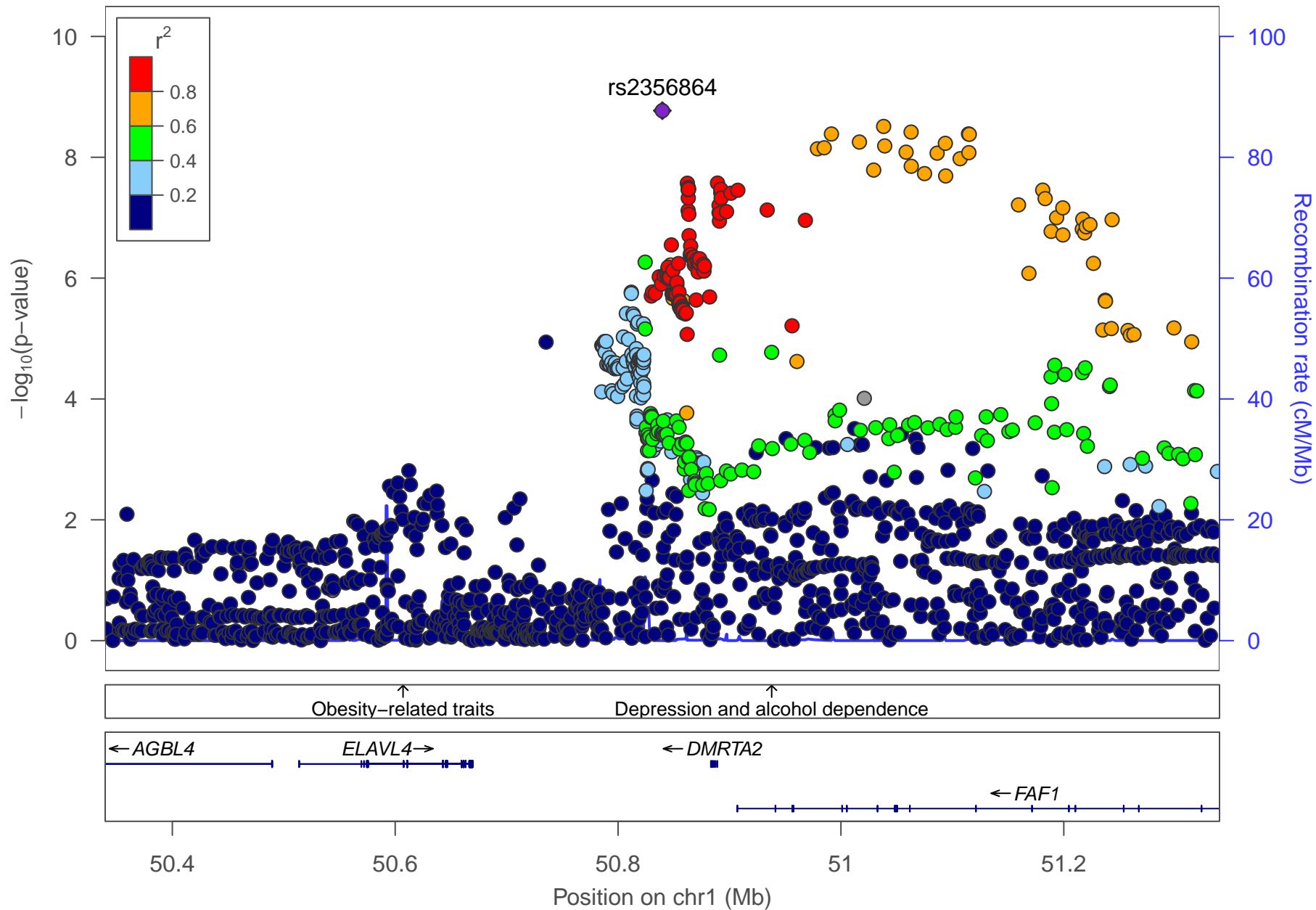
27.4

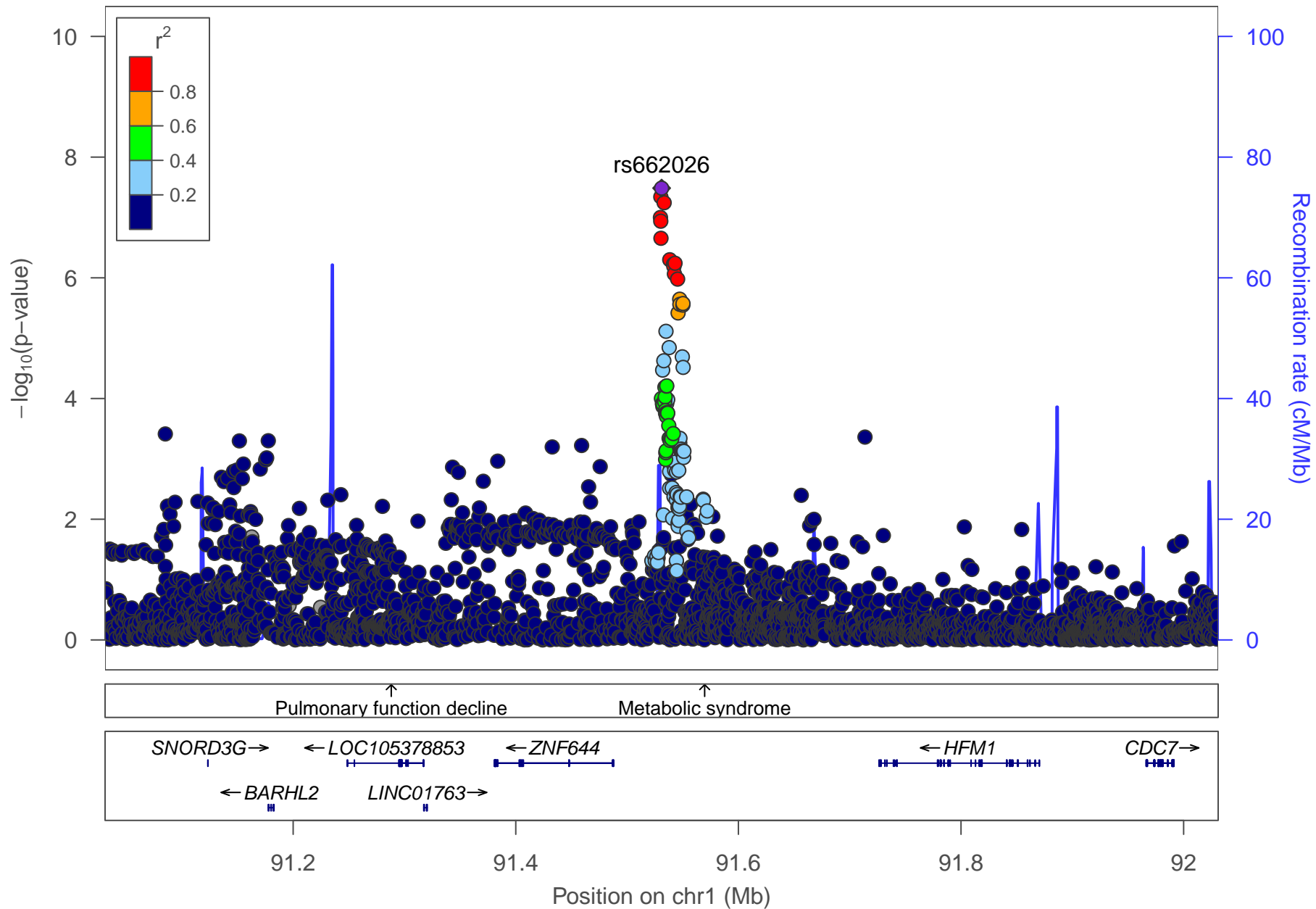
27.6

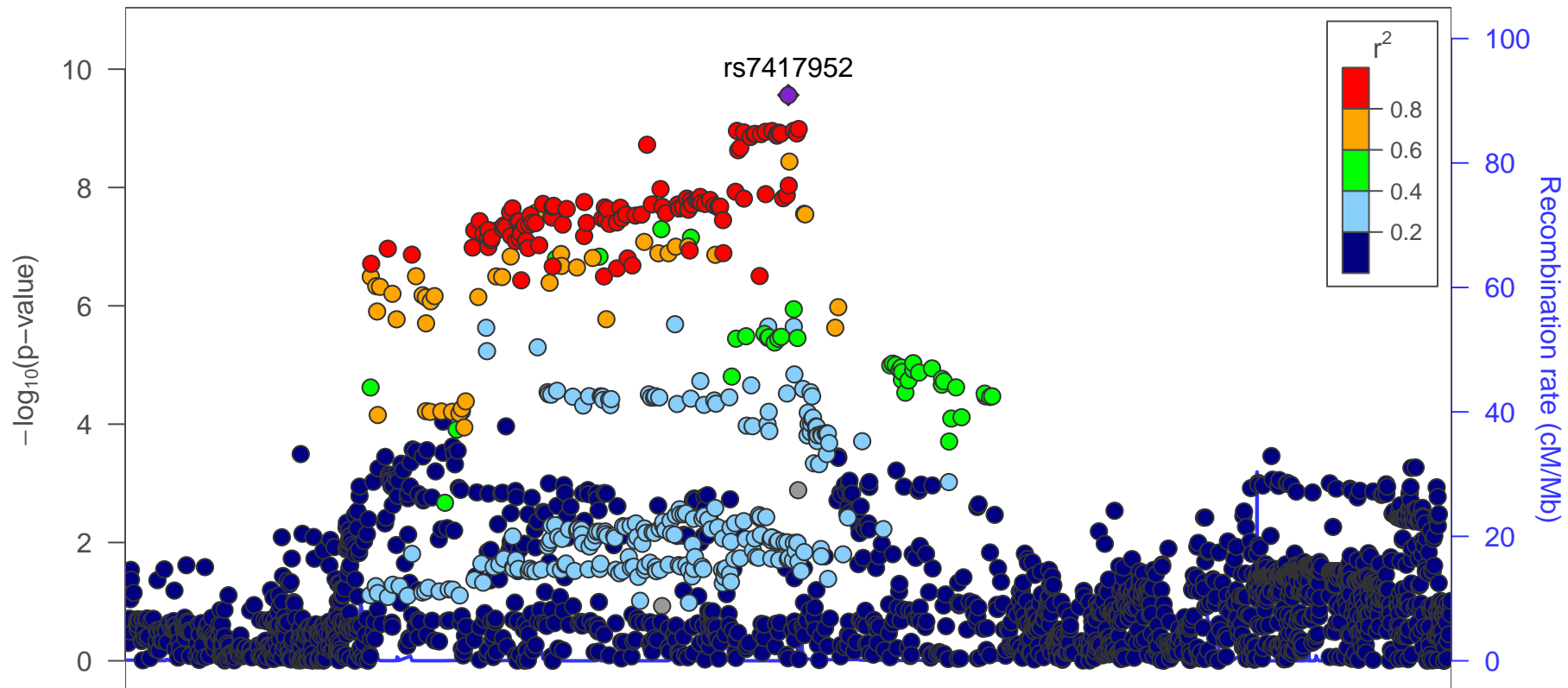
Position on chr1 (Mb)



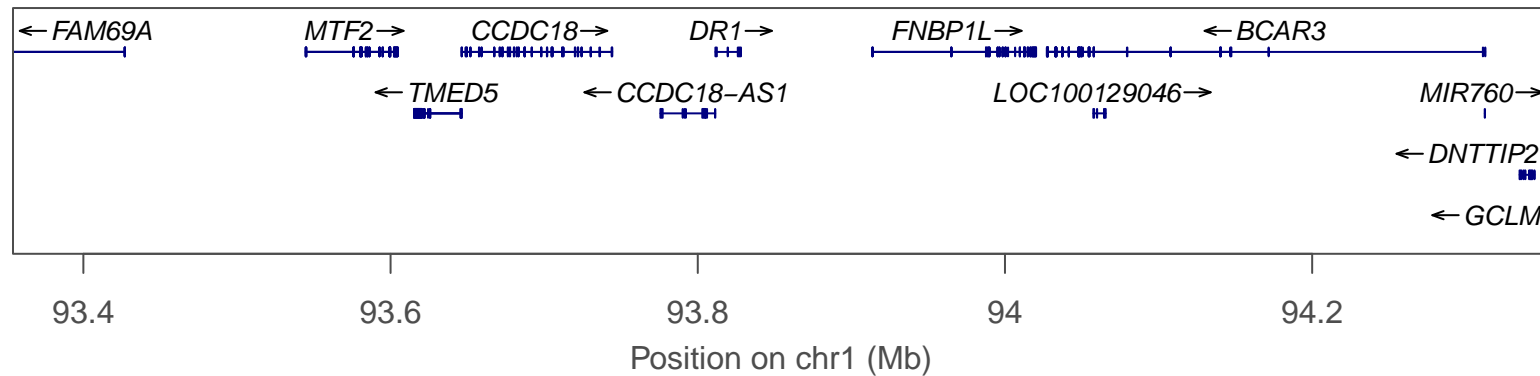


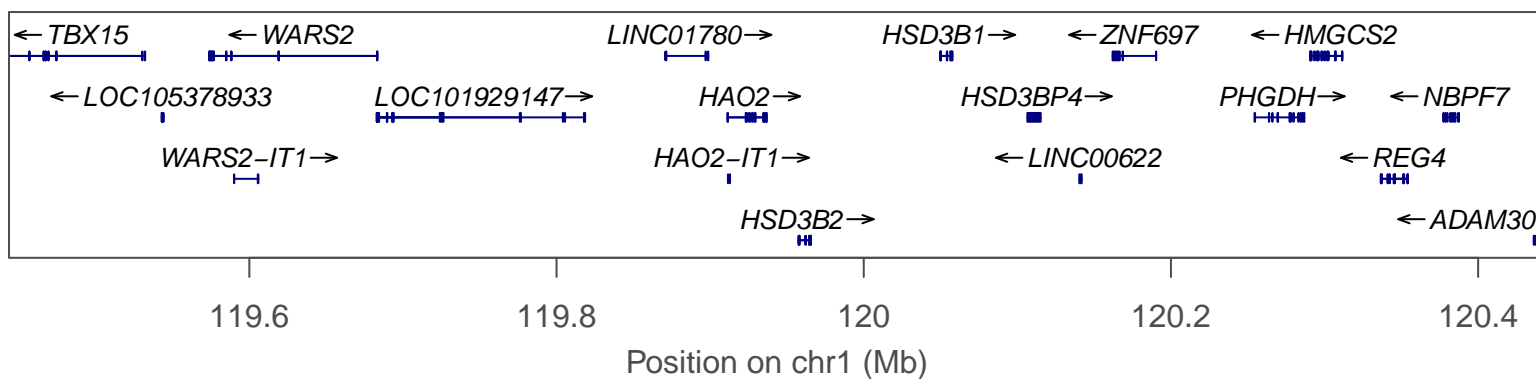
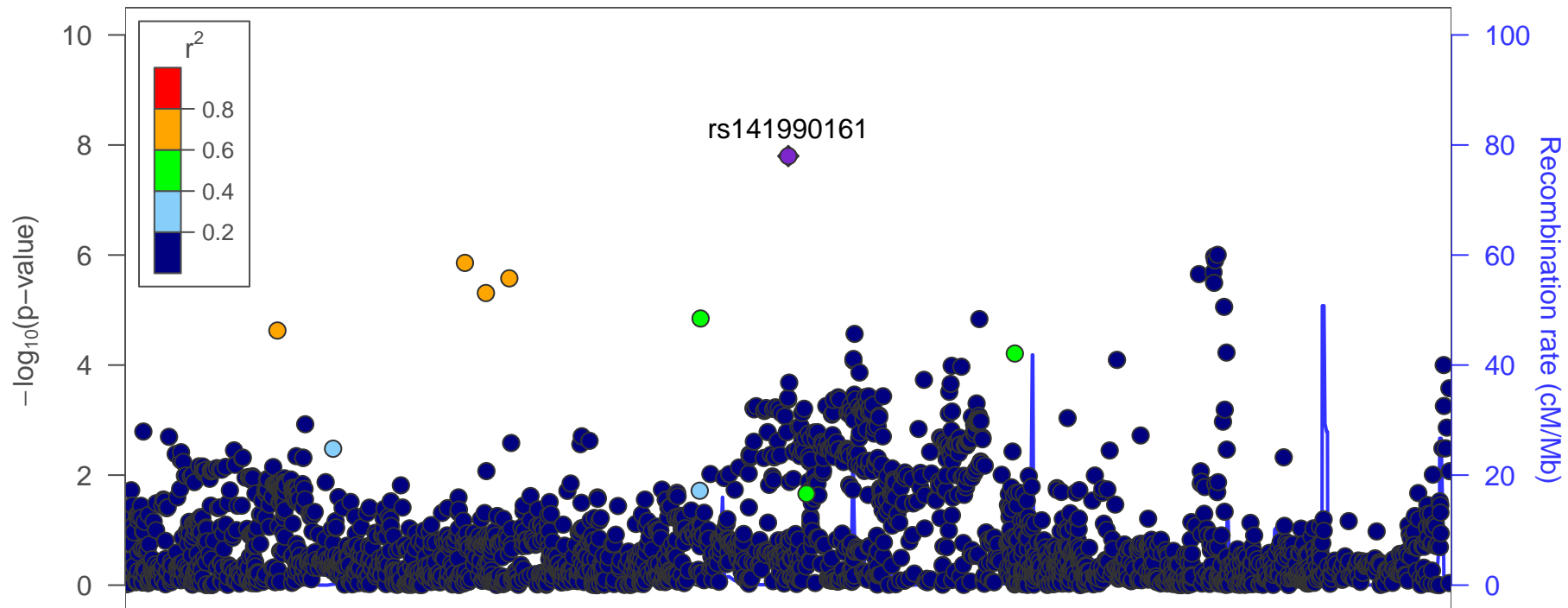


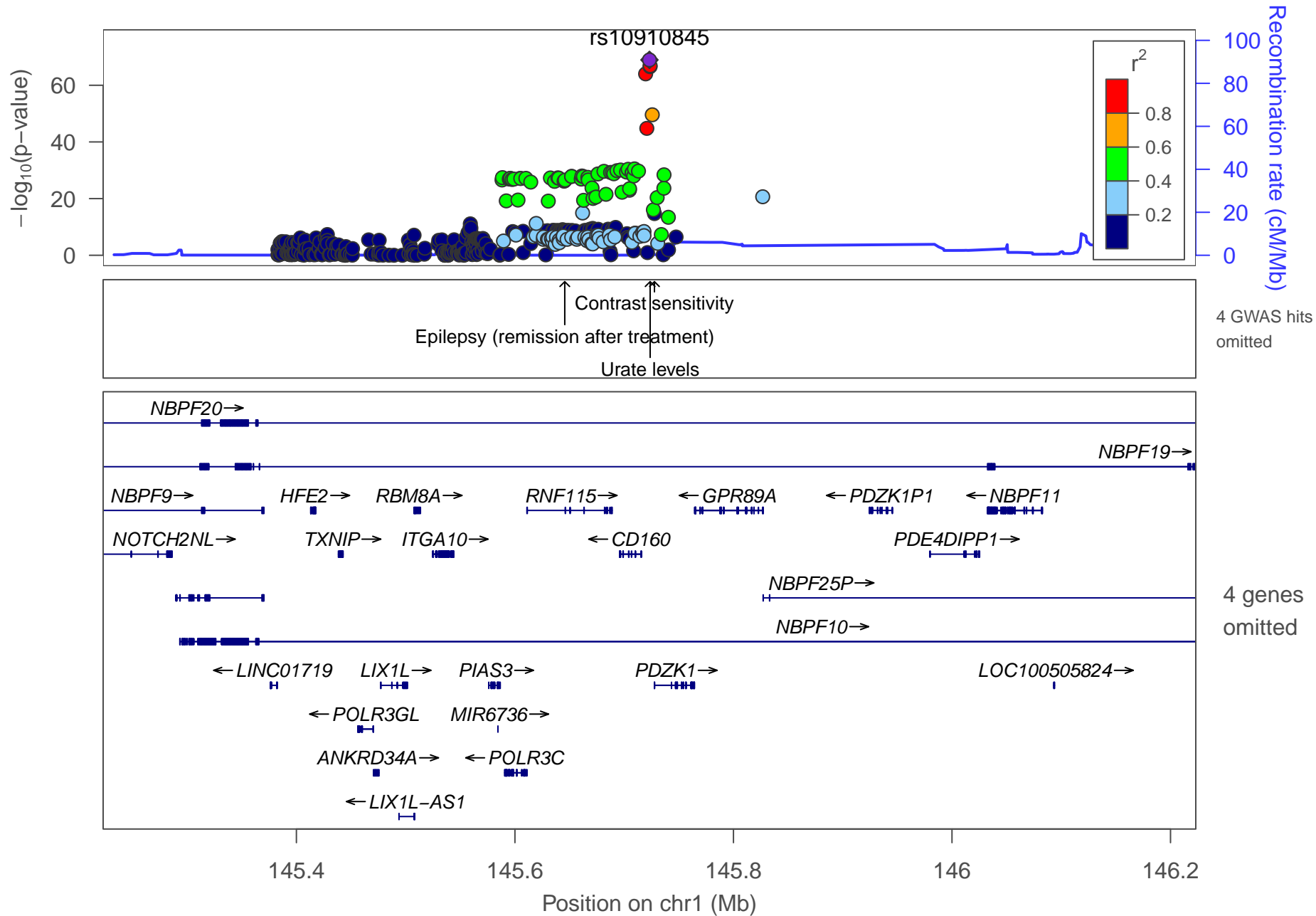


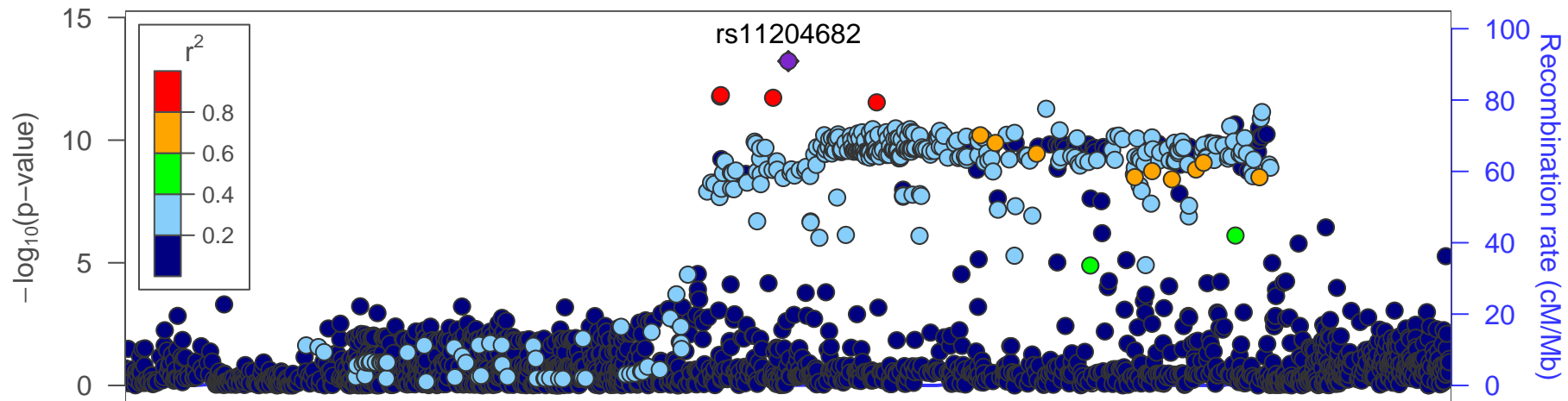


↑
border and schizophrenia

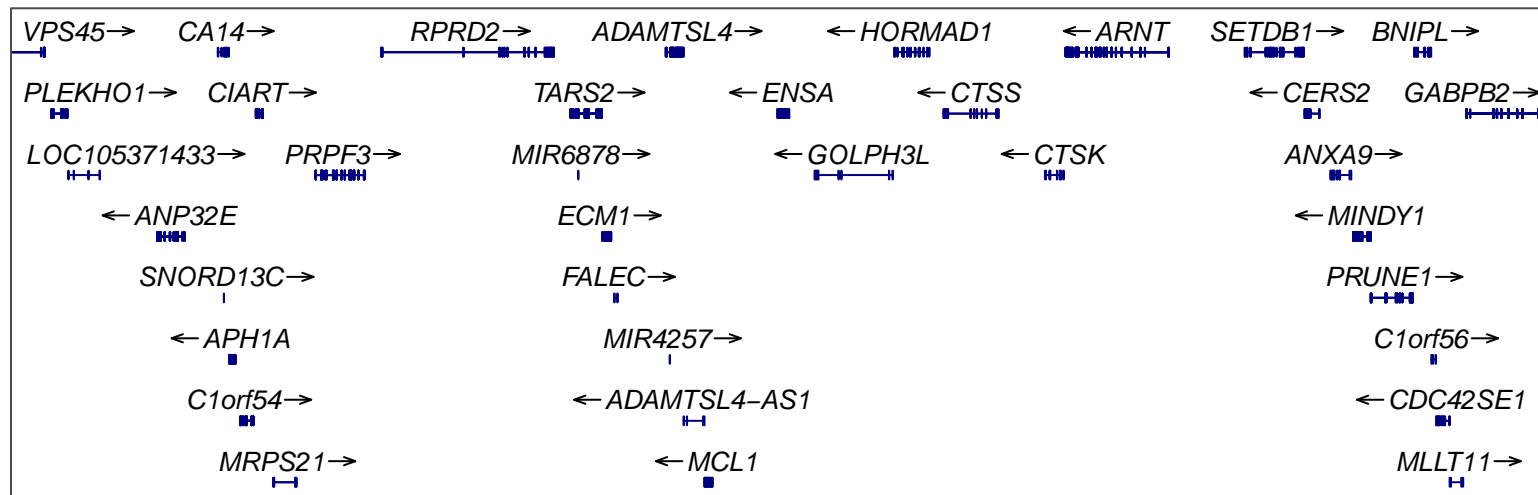






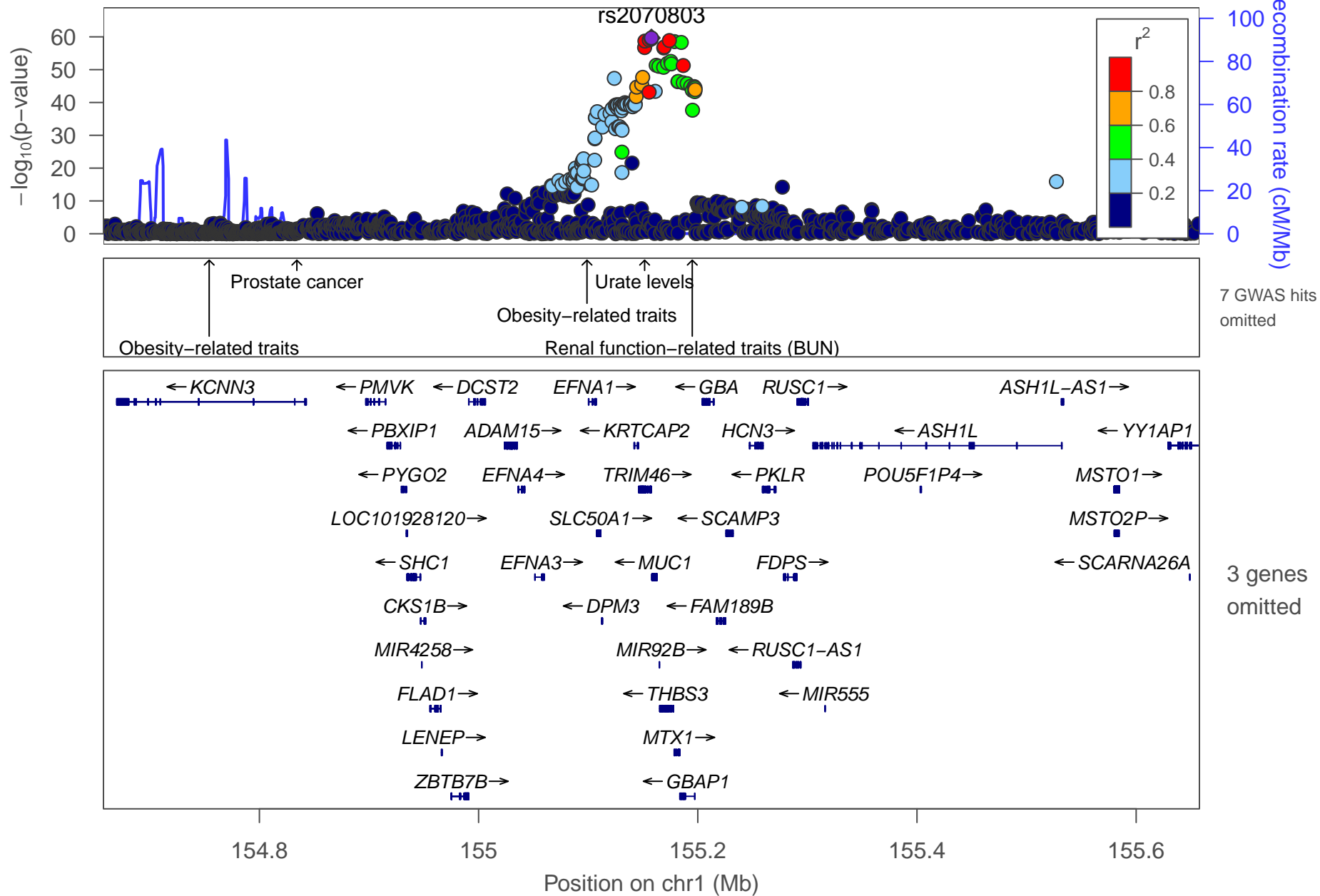


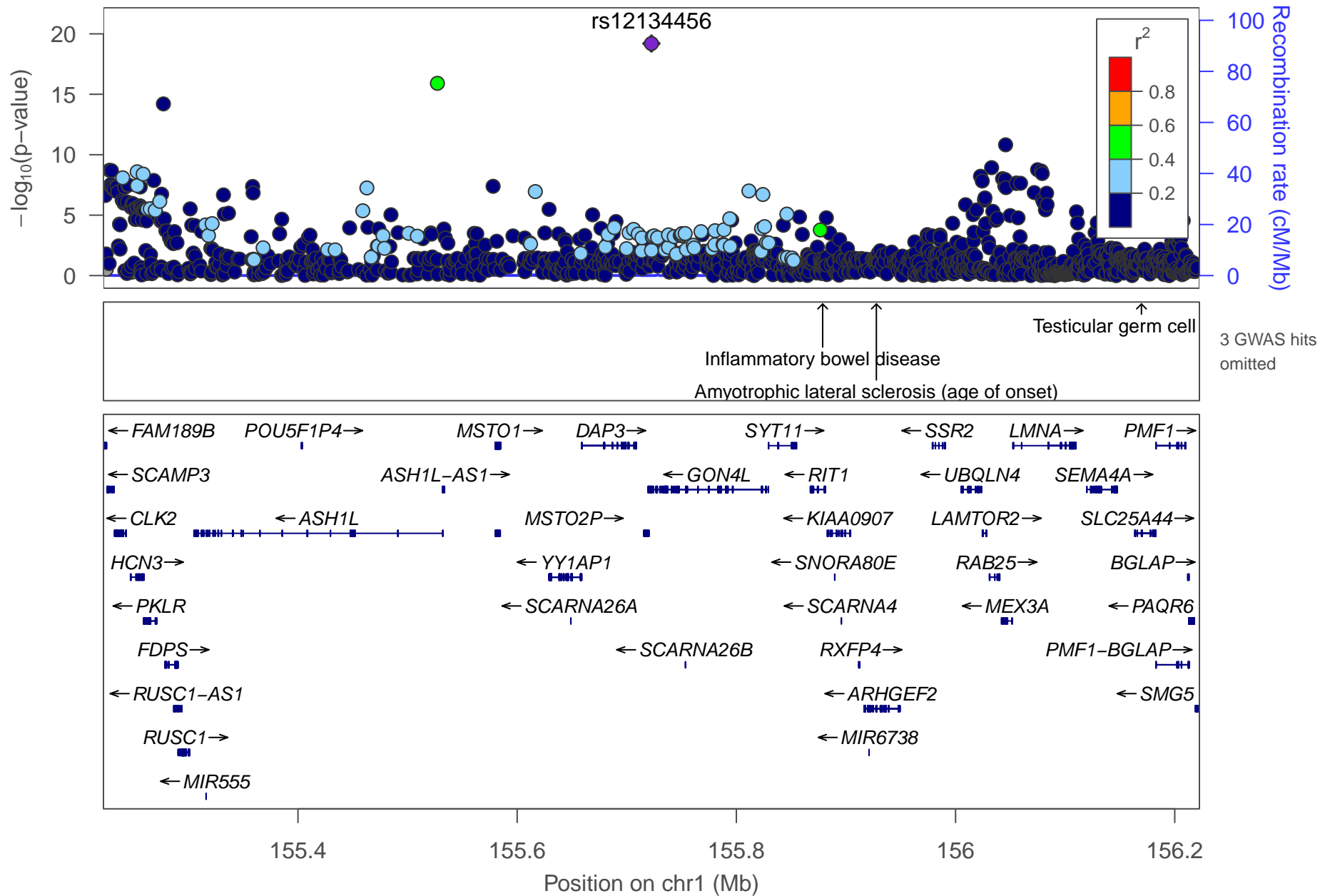
Illicit drug use ↑
 Fat body mass ↑
 LDL cholesterol ↑
 Rhegmatogenous retinal detachment ↑
 4 GWAS hits omitted
 bit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia (combined)

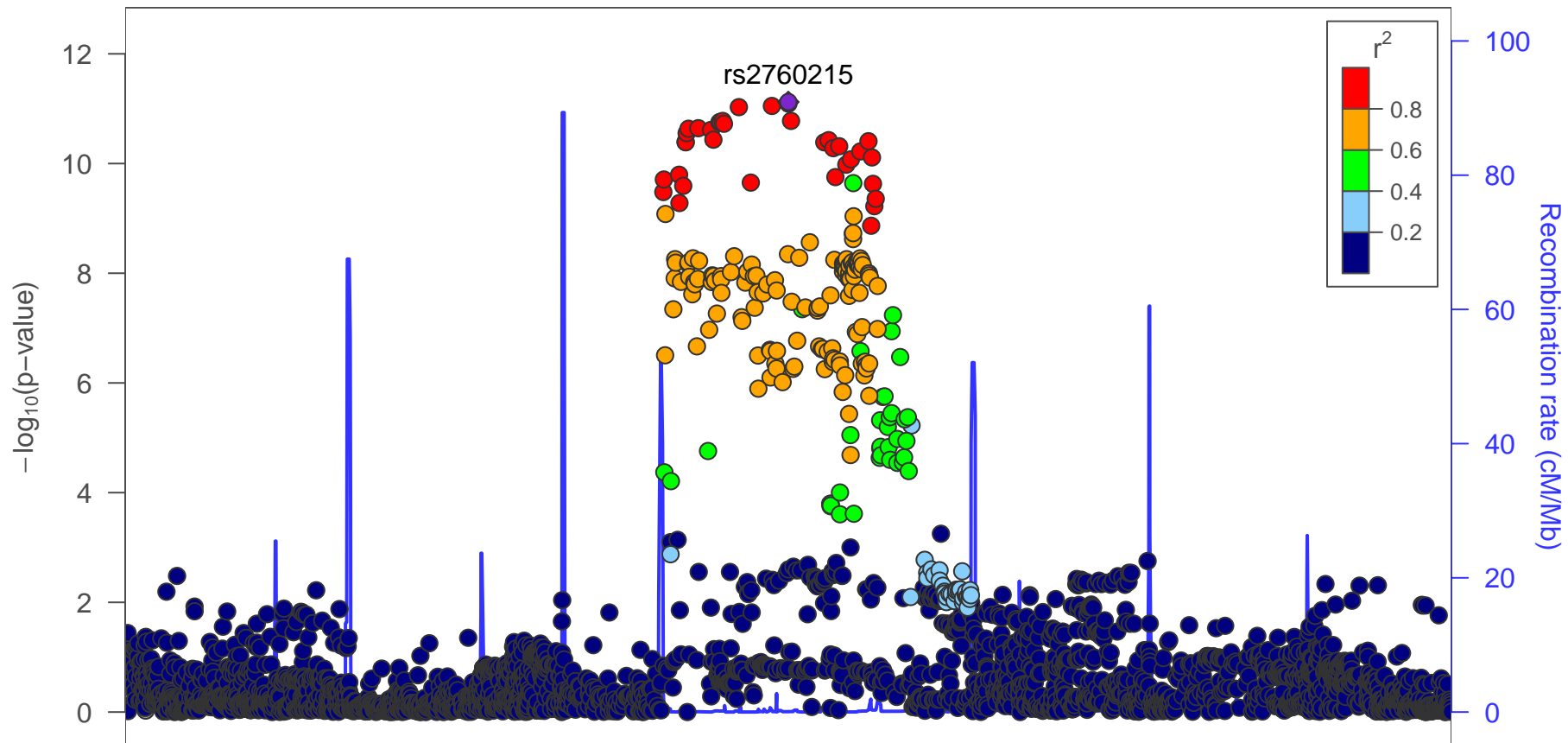


150.2 150.4 150.6 150.8 151

Position on chr1 (Mb)



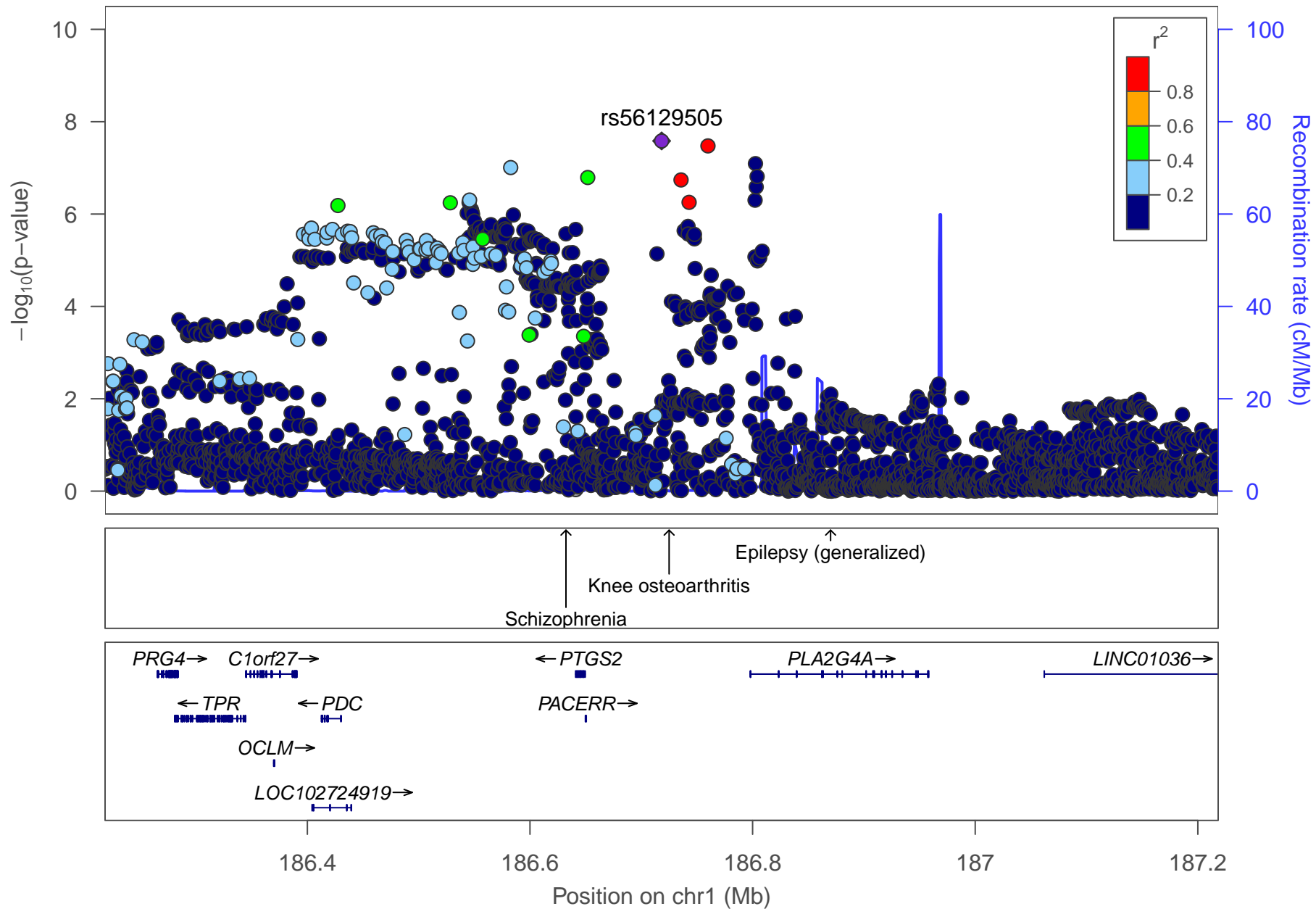


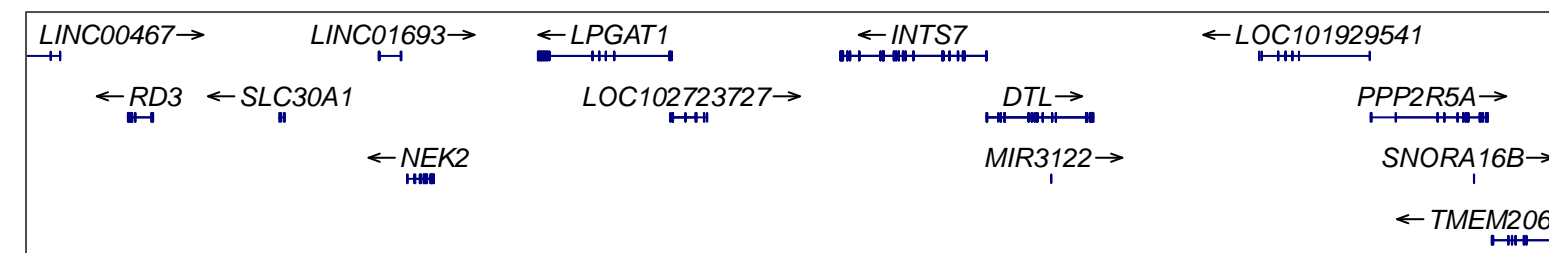
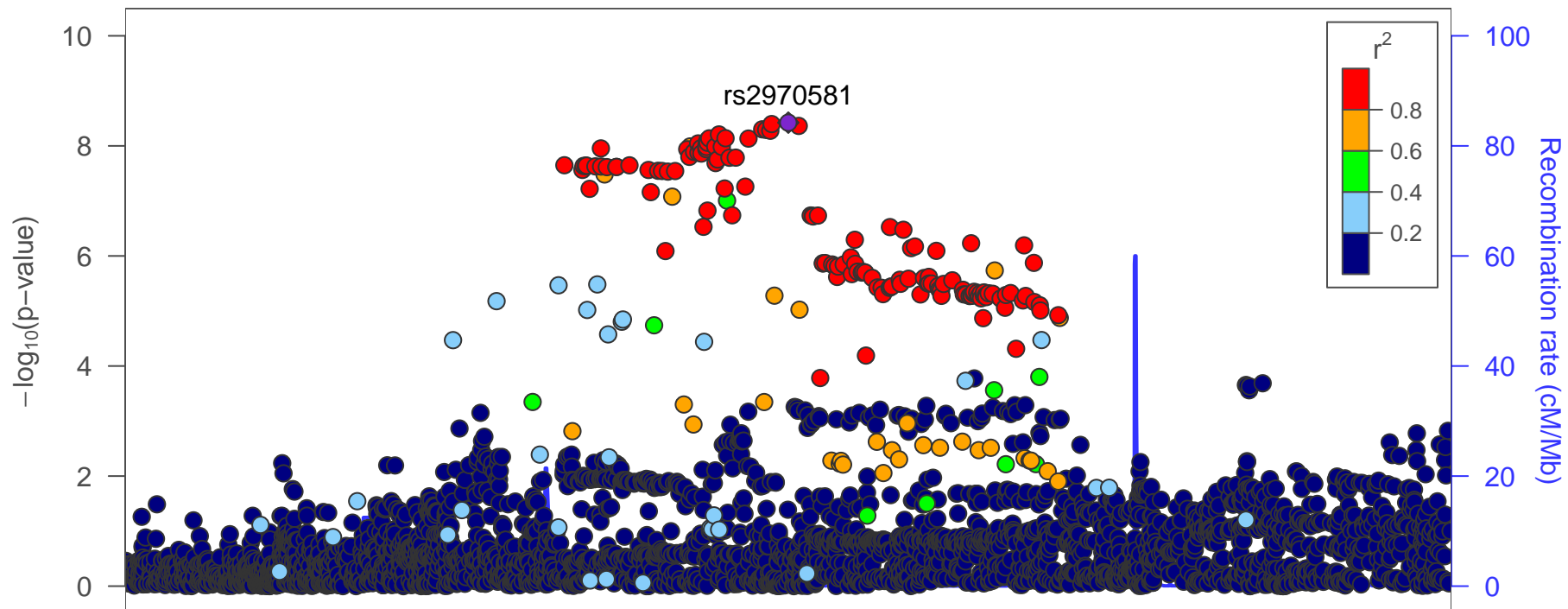


↑ Sex hormone-binding globulin levels



163.2 163.4 163.6 163.8 164
 Position on chr1 (Mb)





211.6

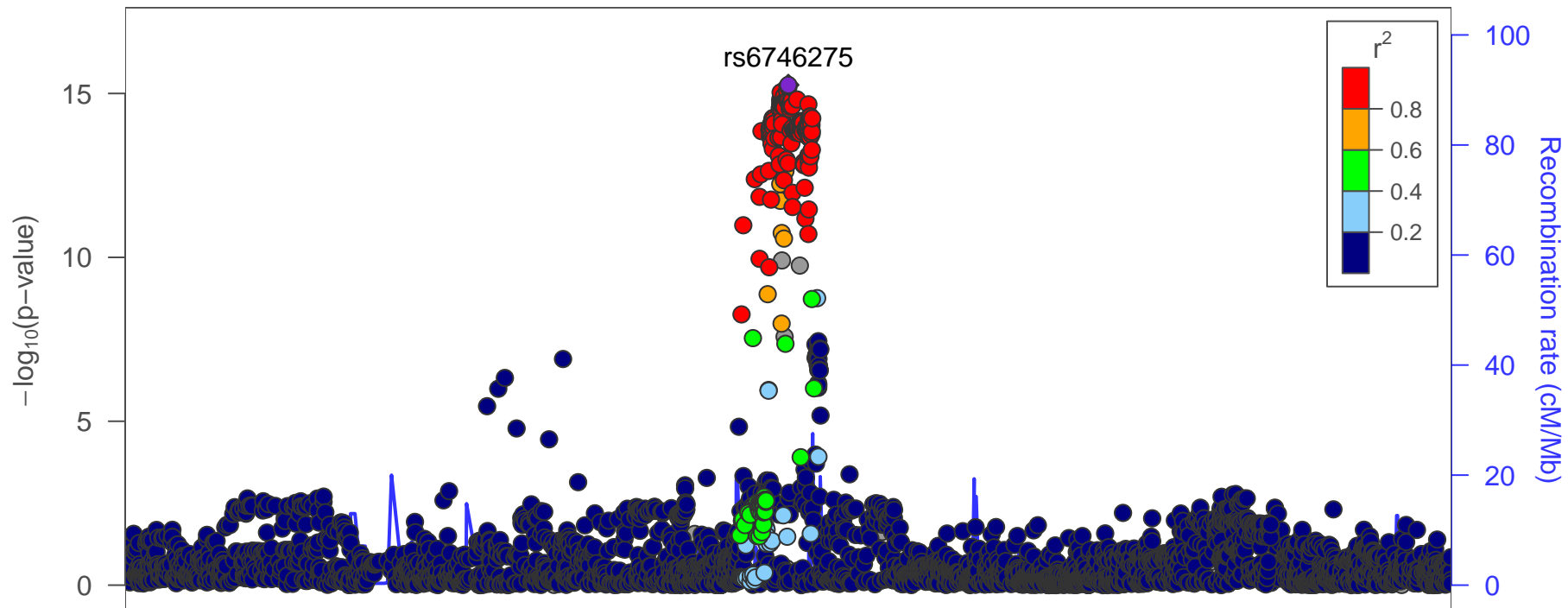
211.8

212

212.2

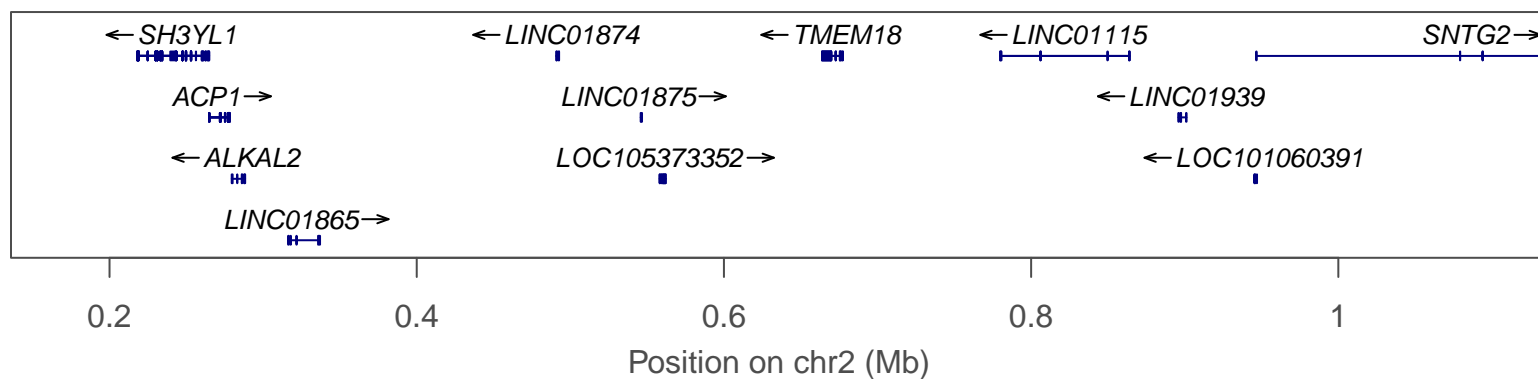
212.4

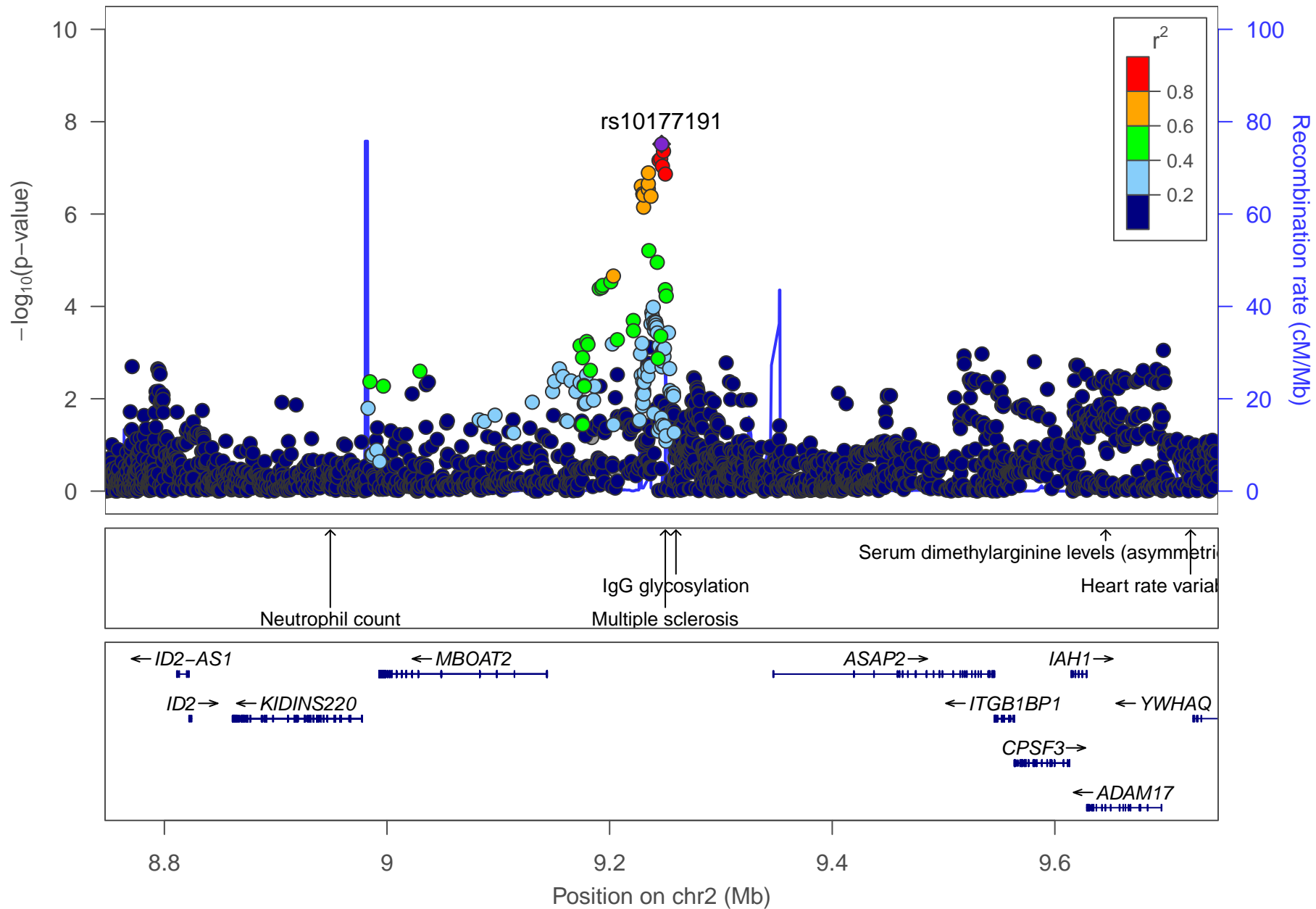
Position on chr1 (Mb)

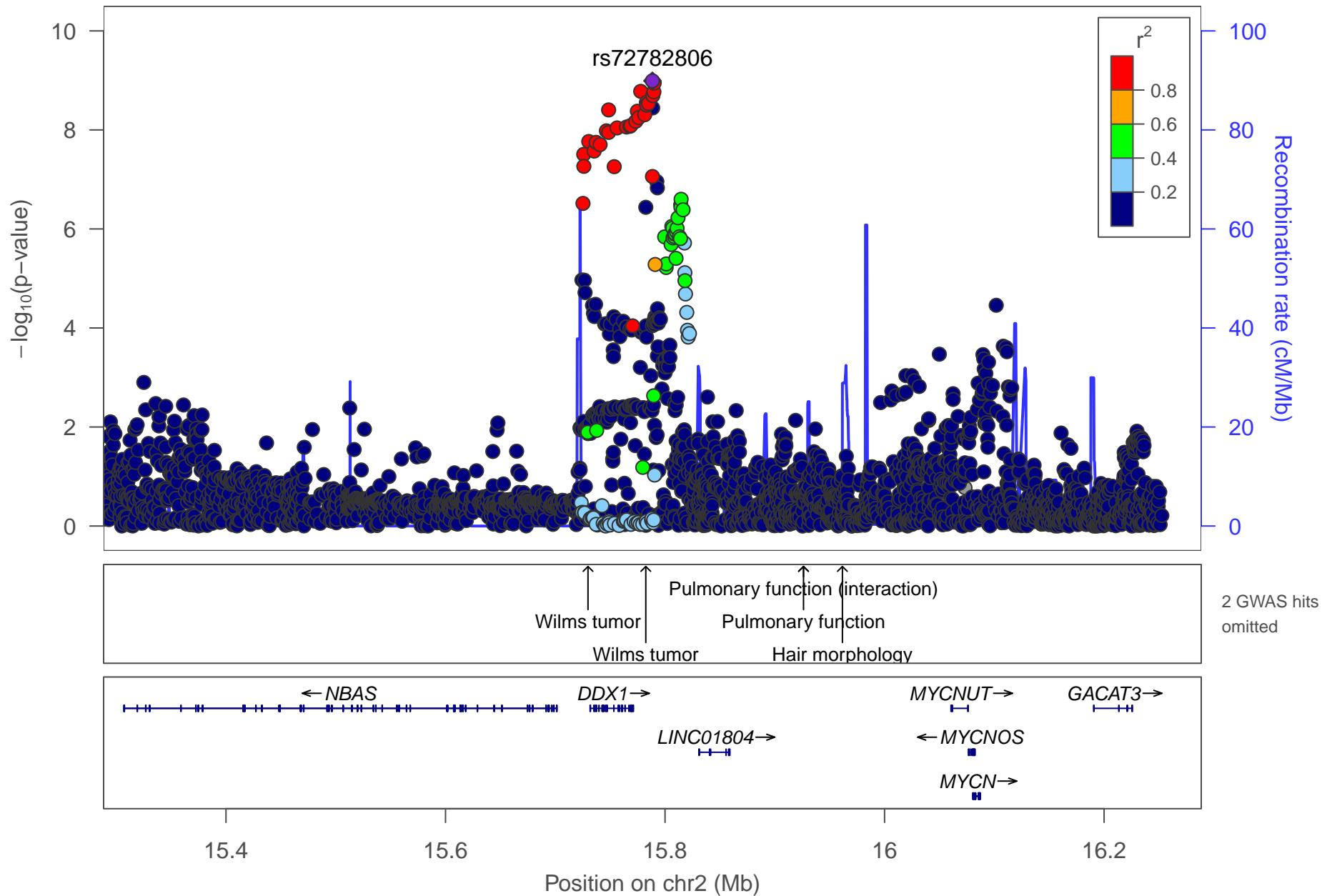


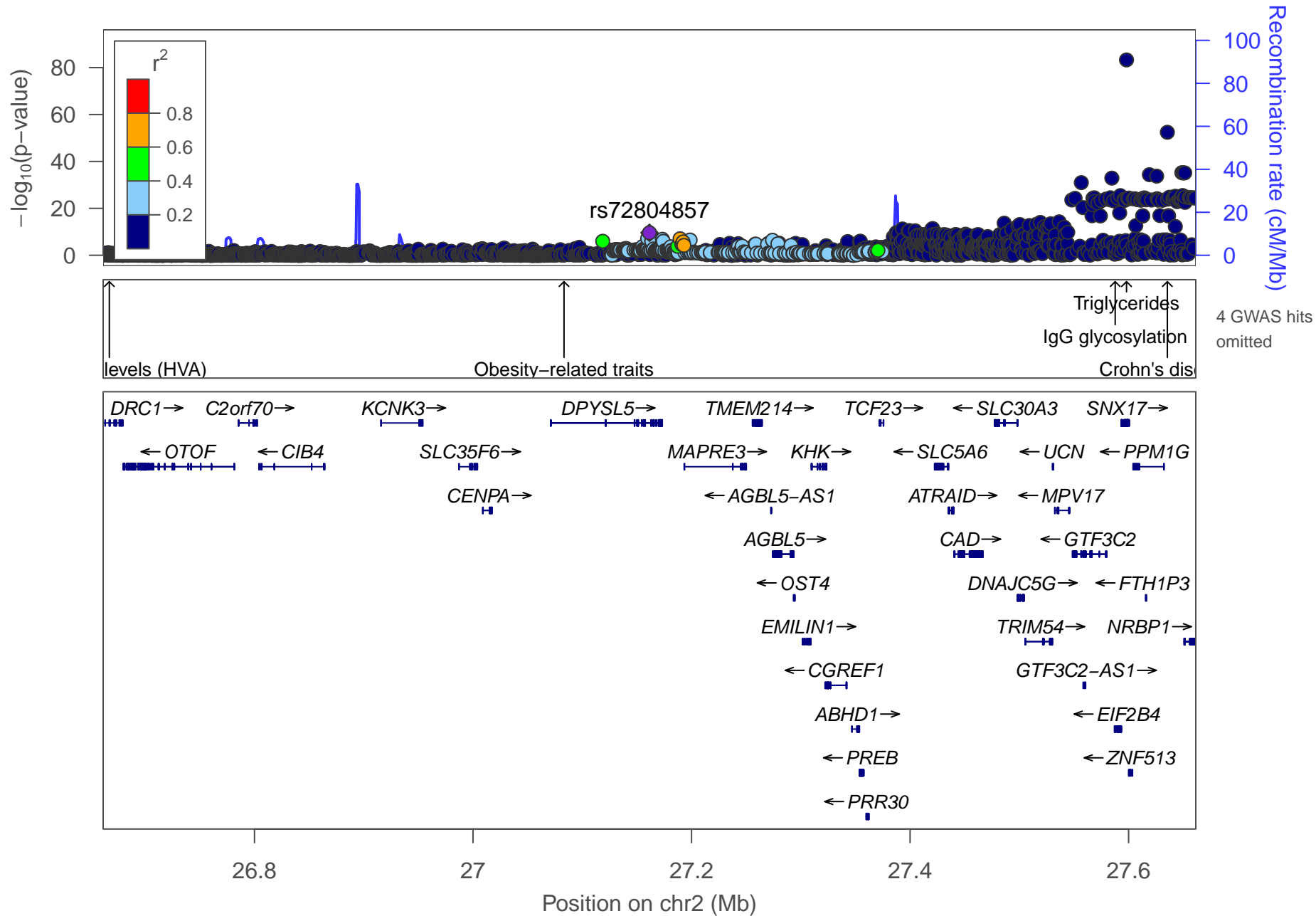
Body mass index
 Body mass index
 Adverse response to chemotherapy (neutropenia/leucopenia) (doxorubicin)

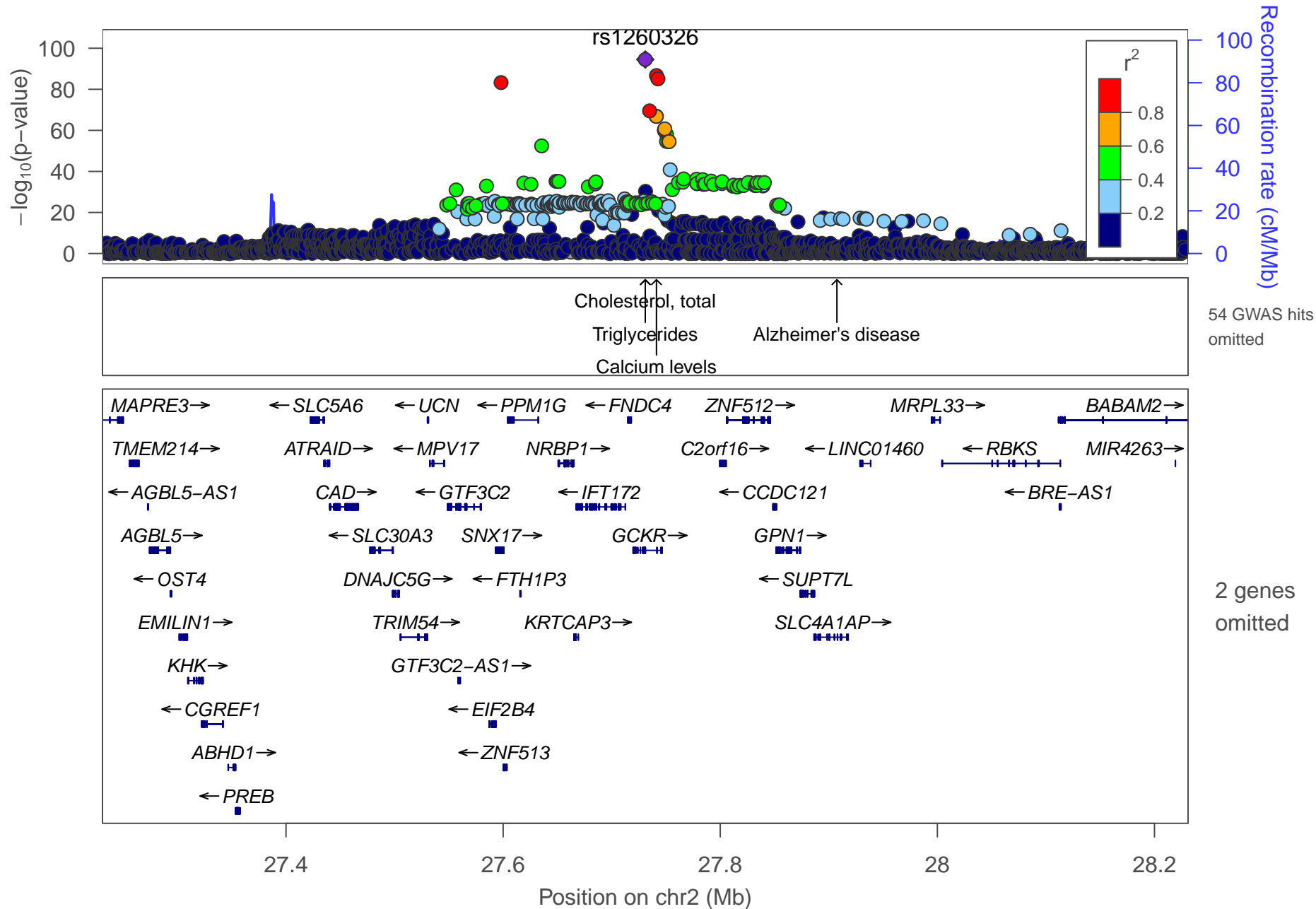
13 GWAS hits omitted

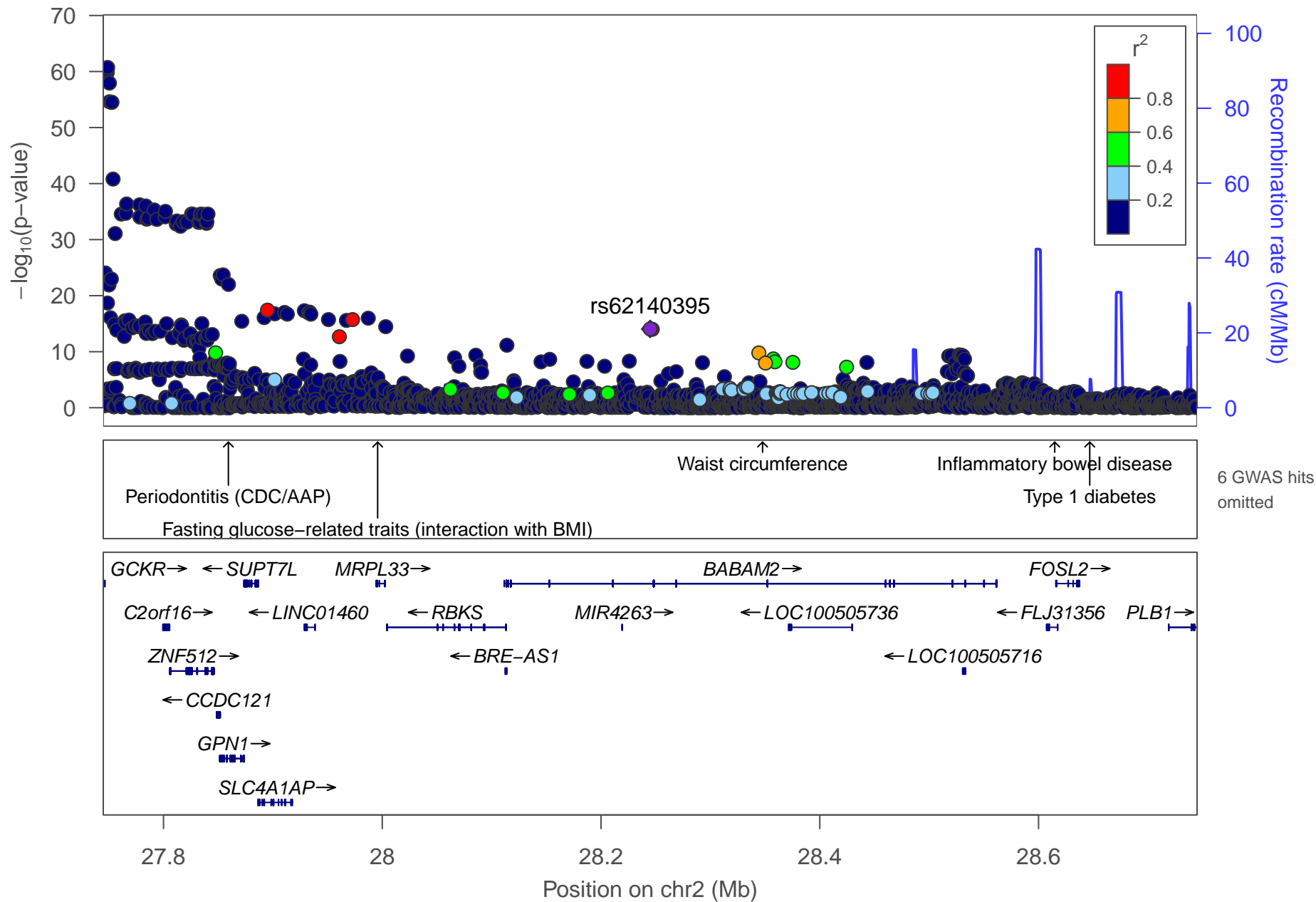


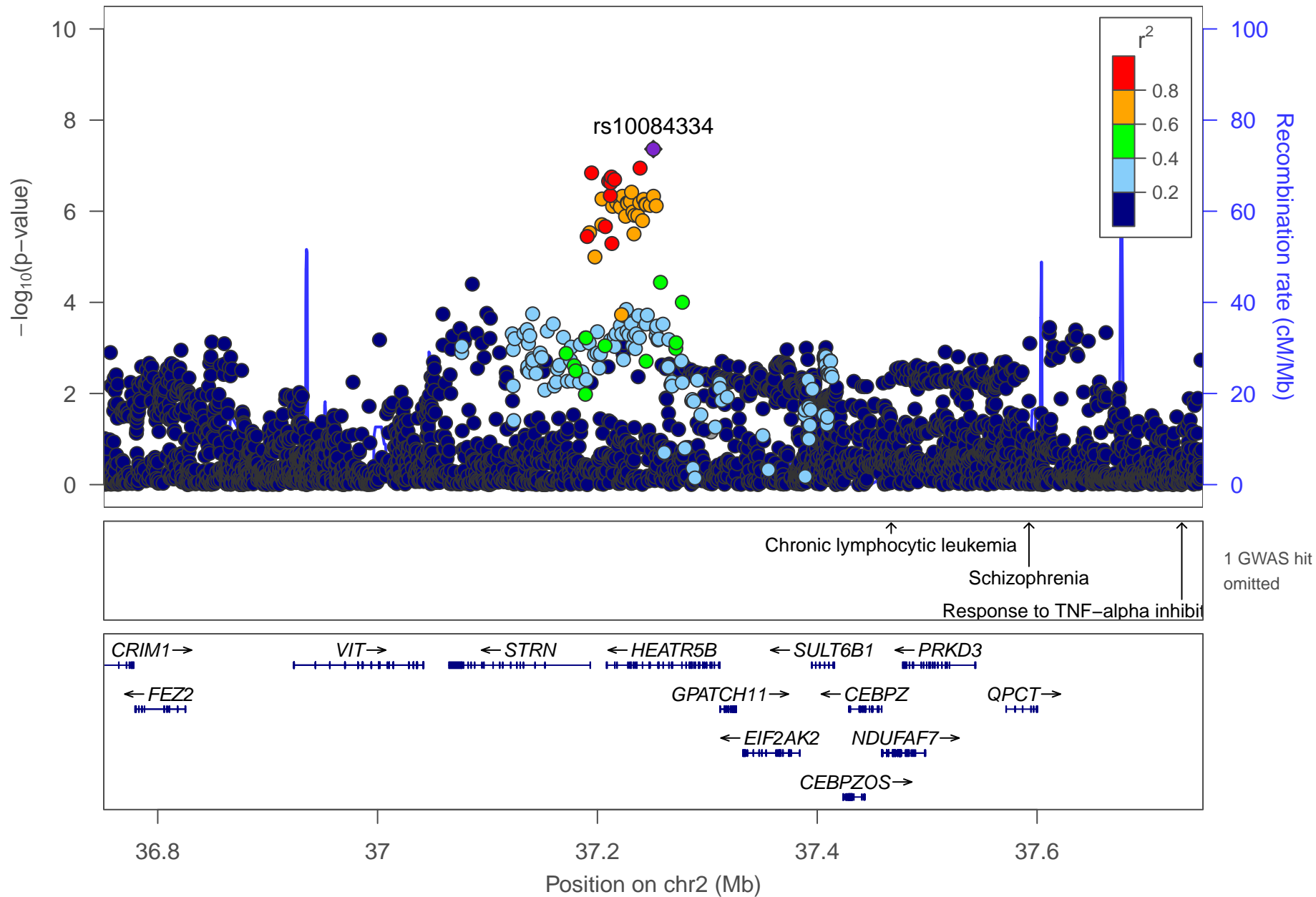


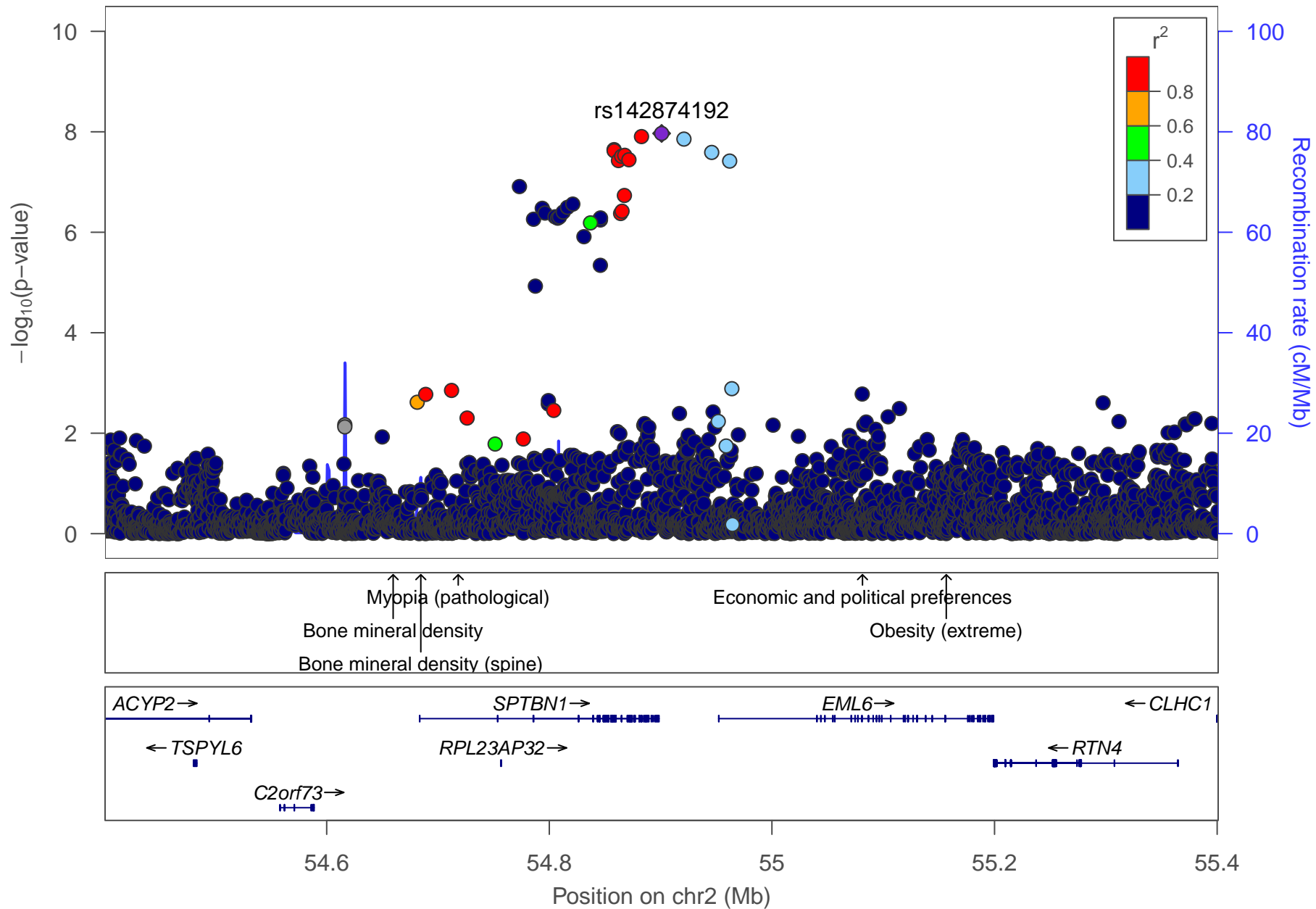


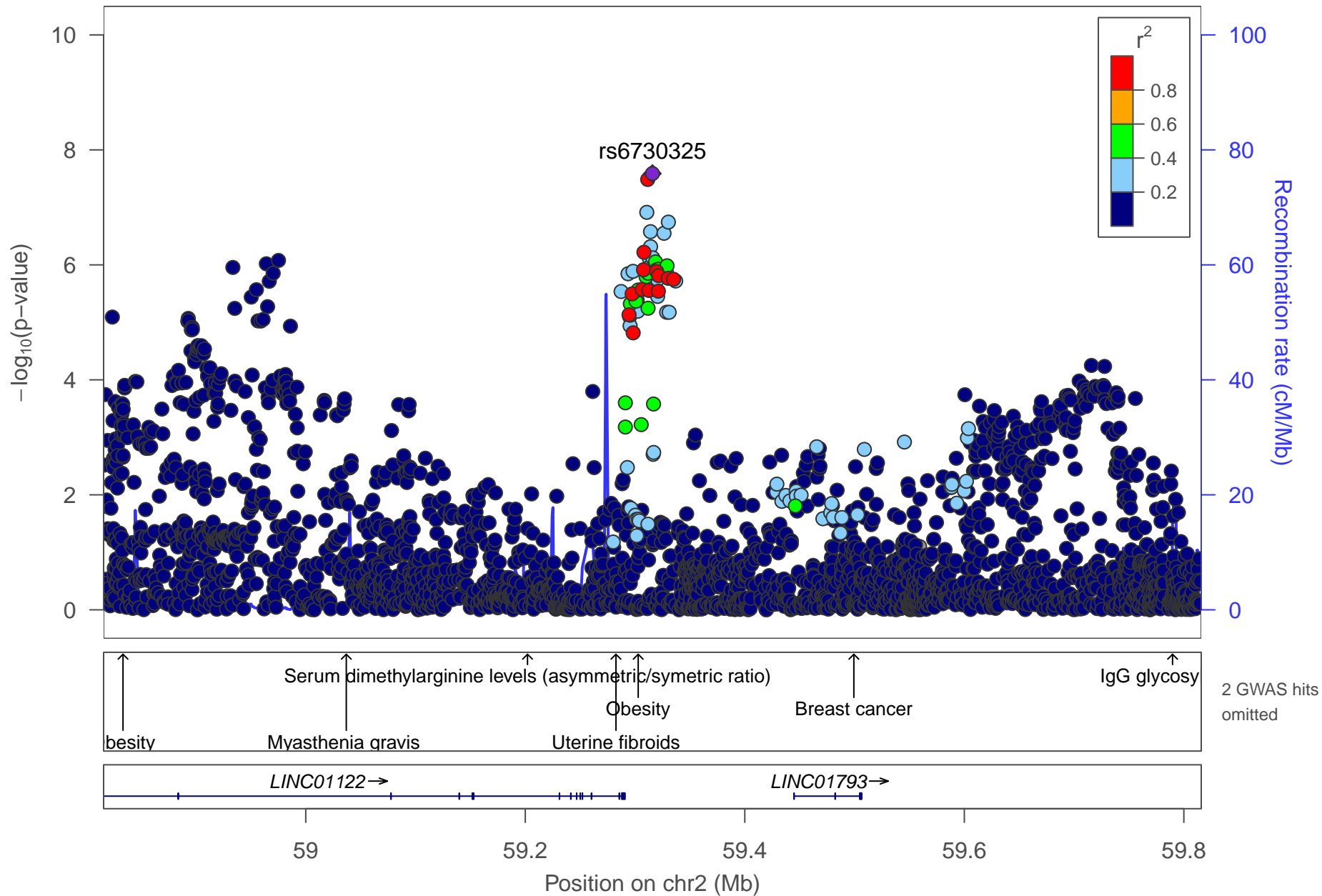


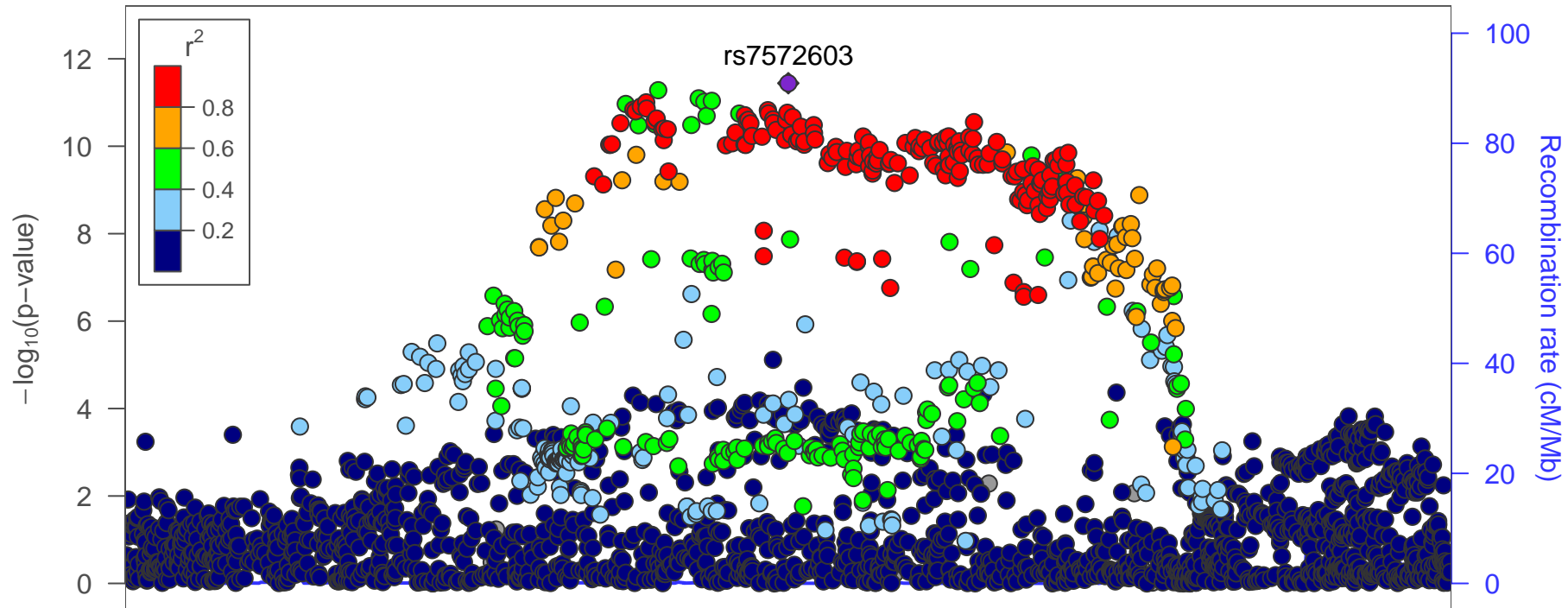






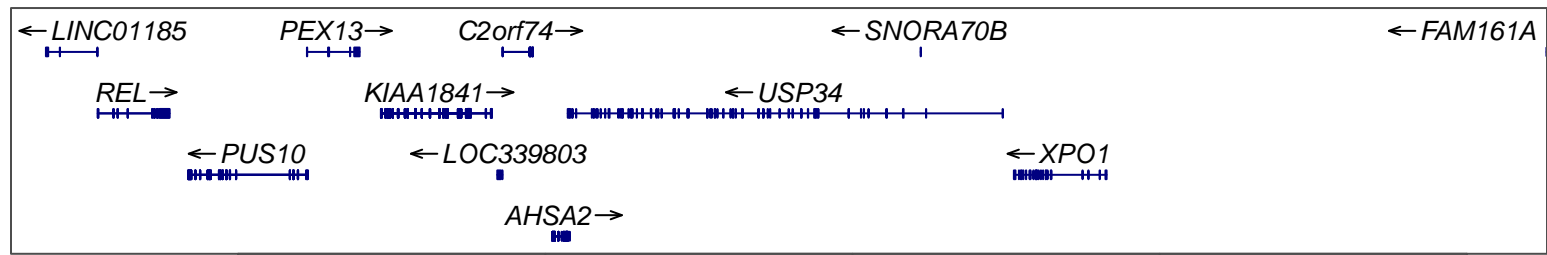




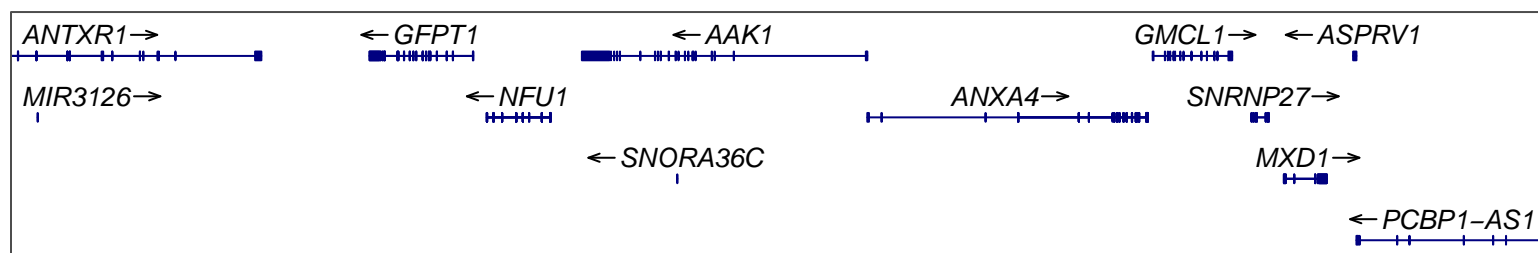
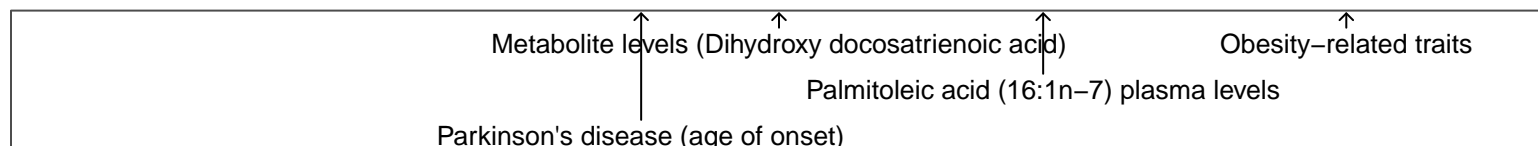
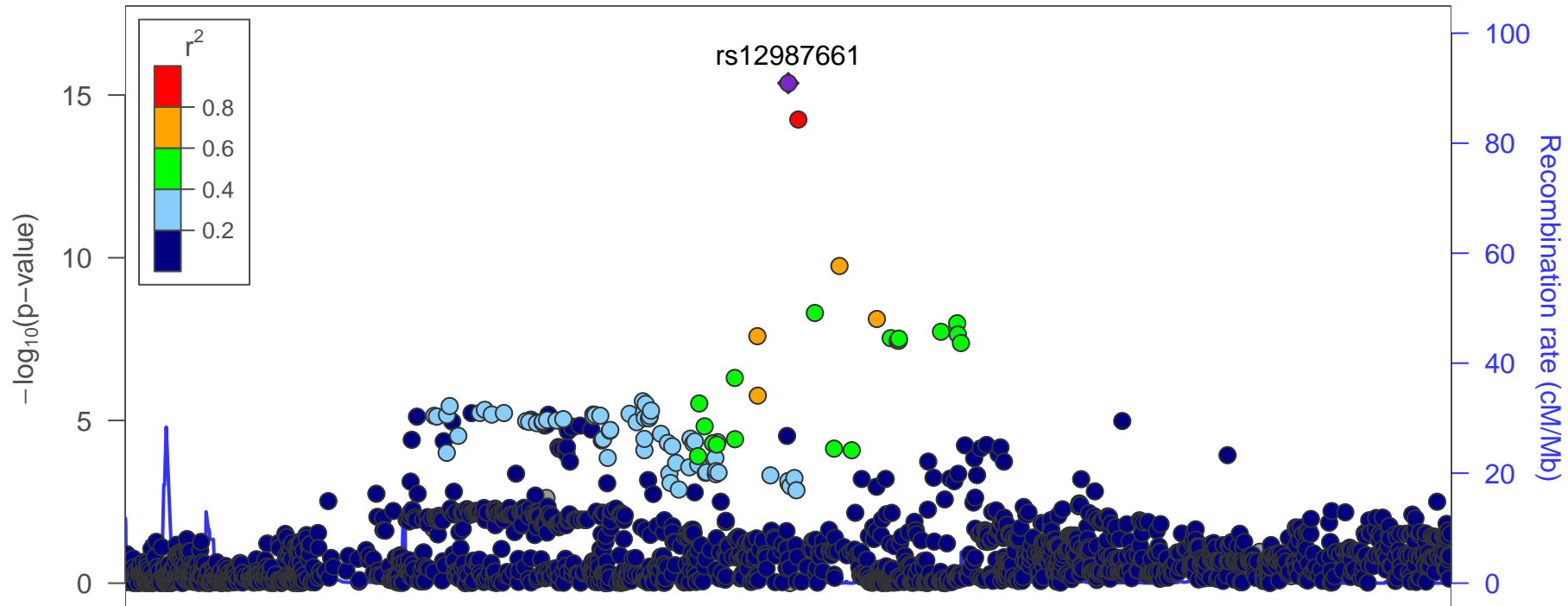


↑ s lymphoma
 ↑ Inflammatory bowel disease
 Homeostasis model assessment of beta-cell function (HOMA- β)
 ↑ Tuberculosis

12 GWAS hits omitted

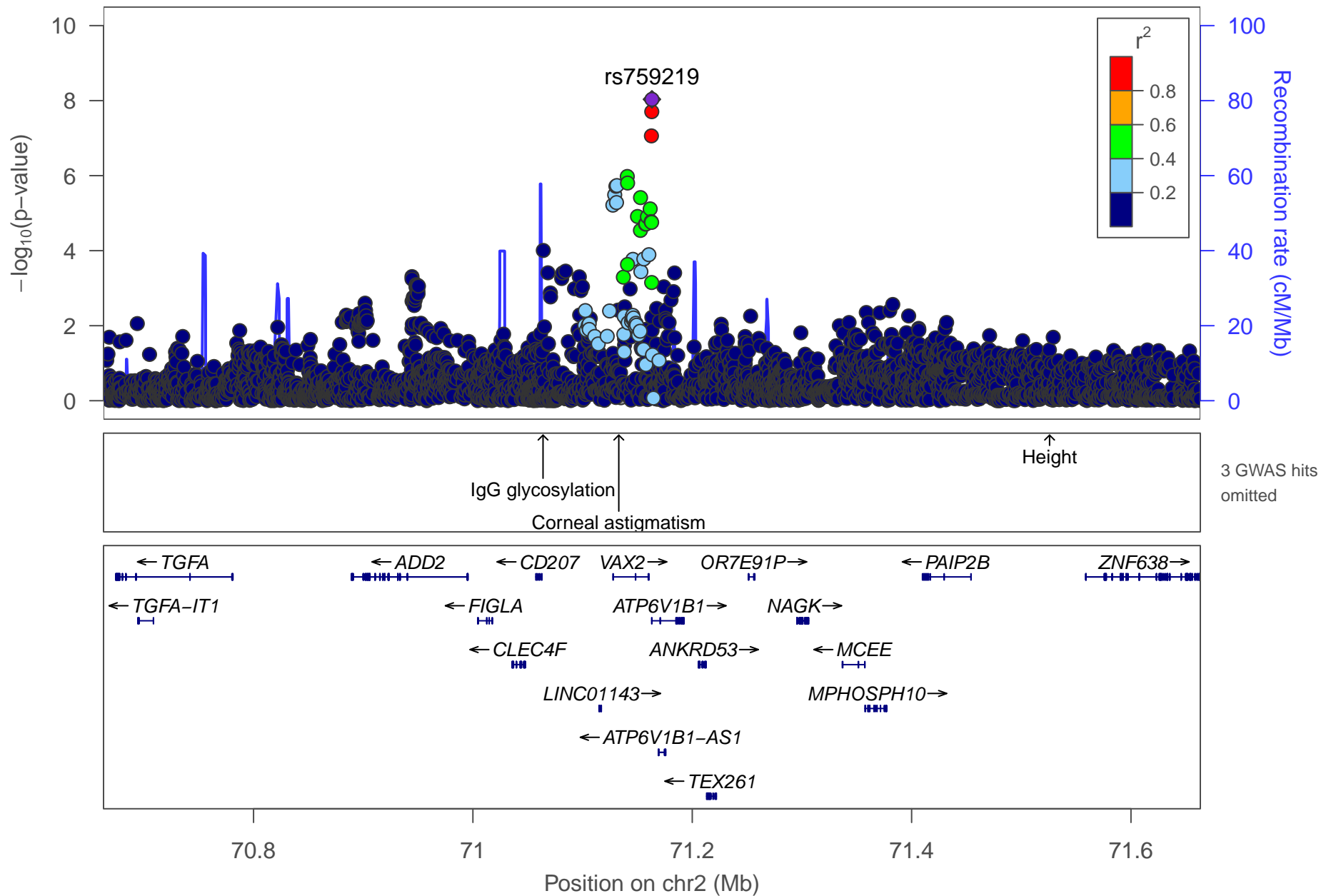


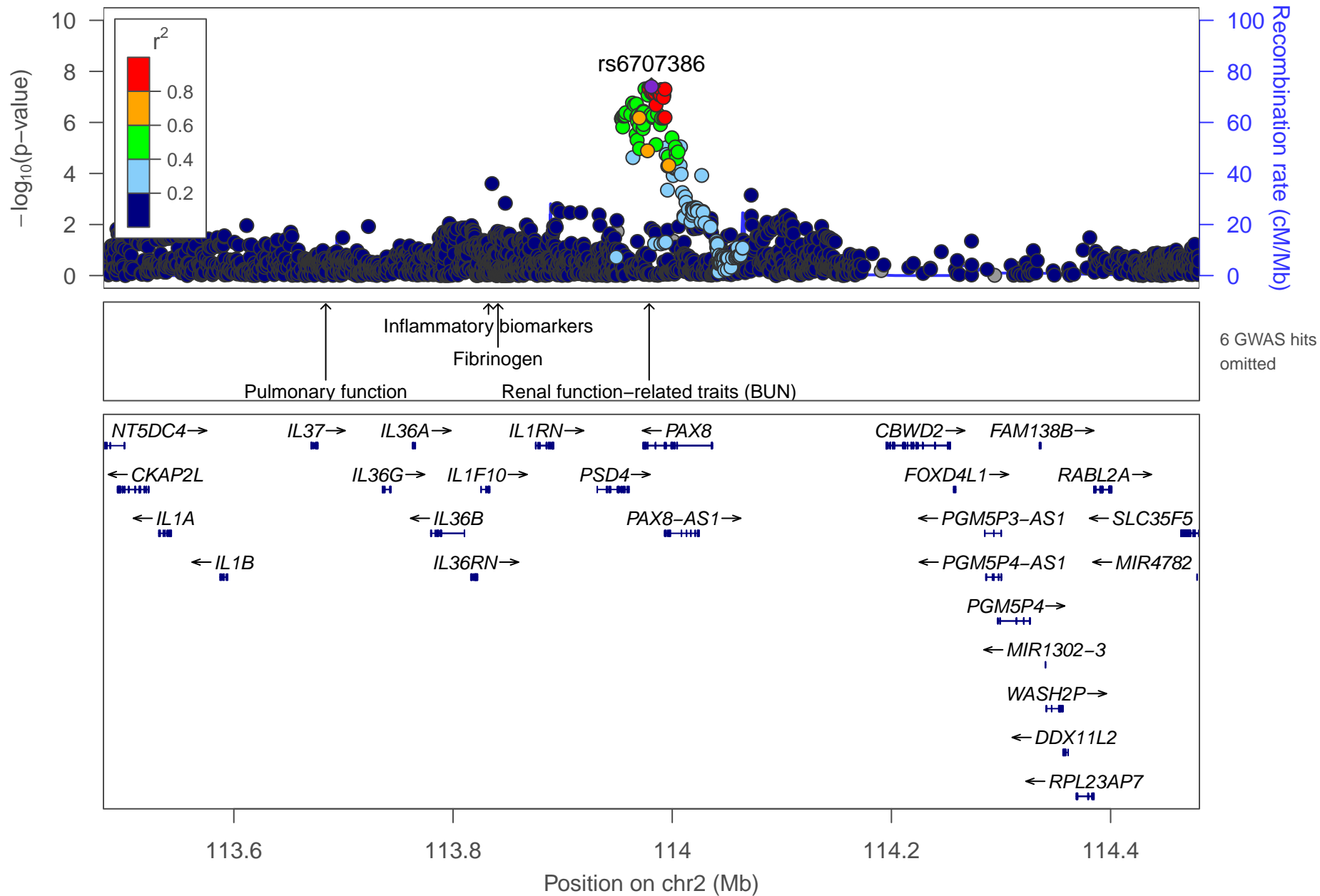
61.2 61.4 61.6 61.8 62
 Position on chr2 (Mb)

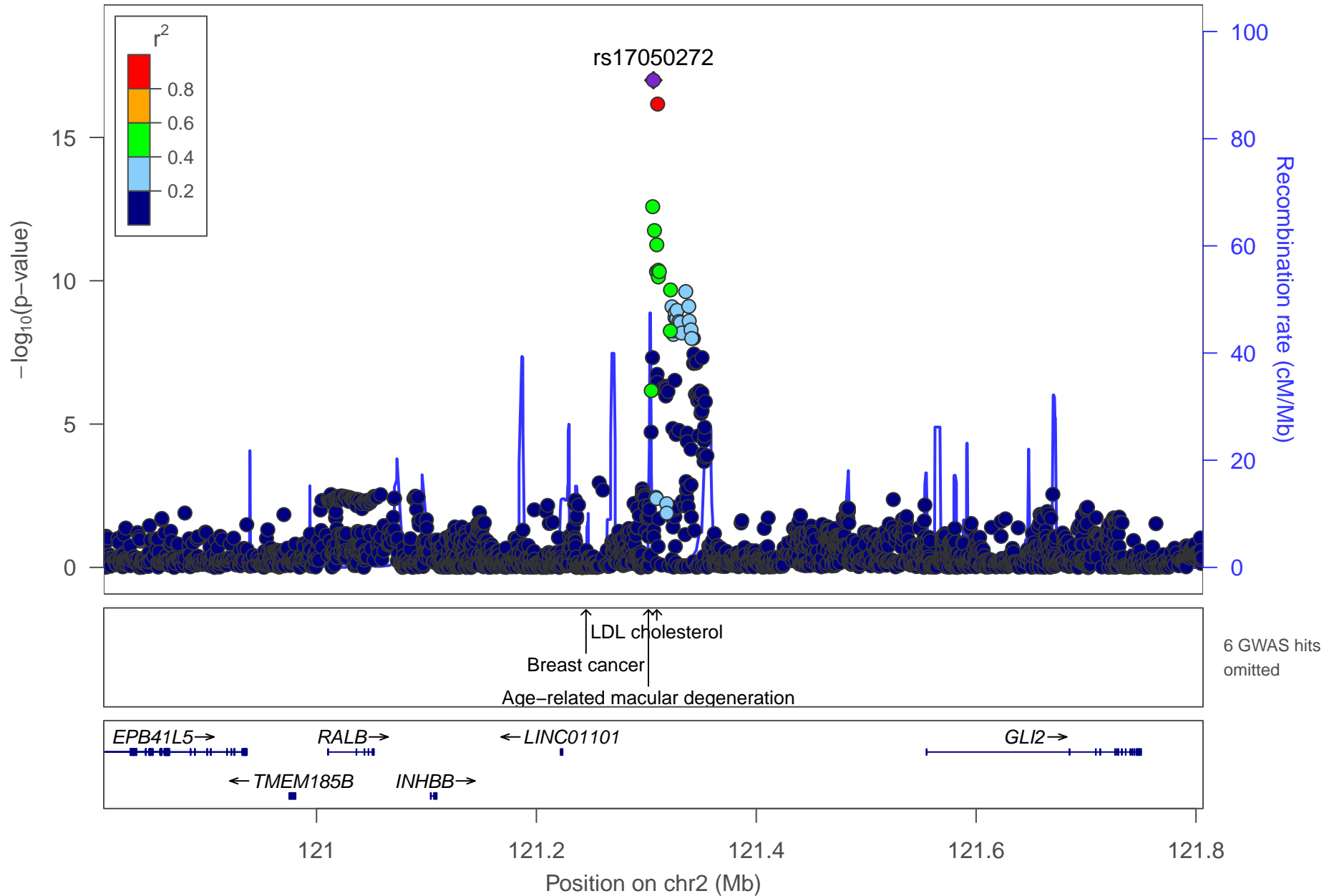


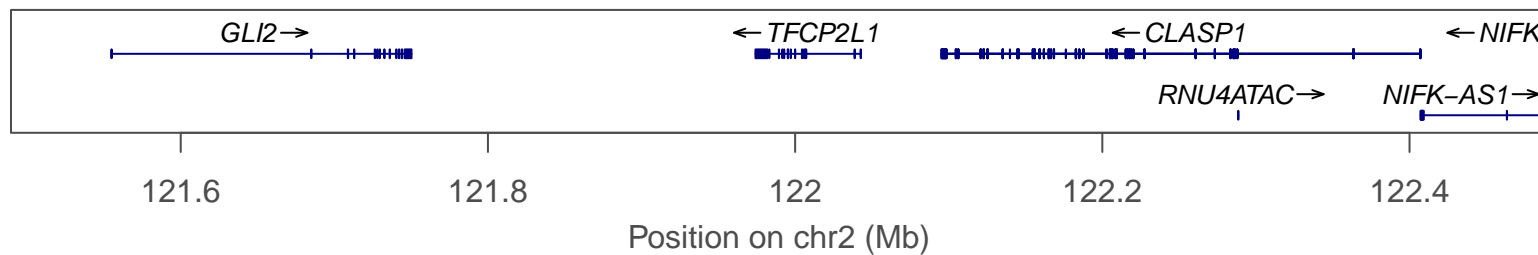
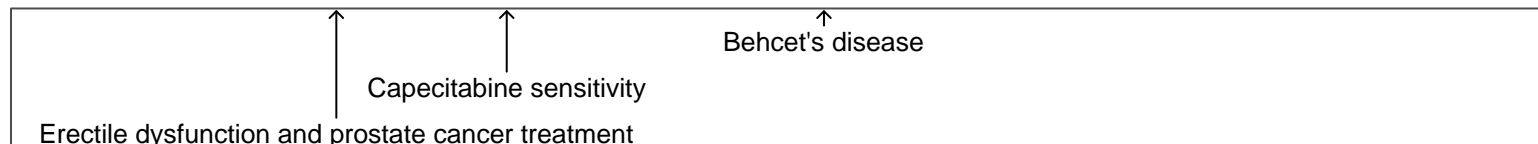
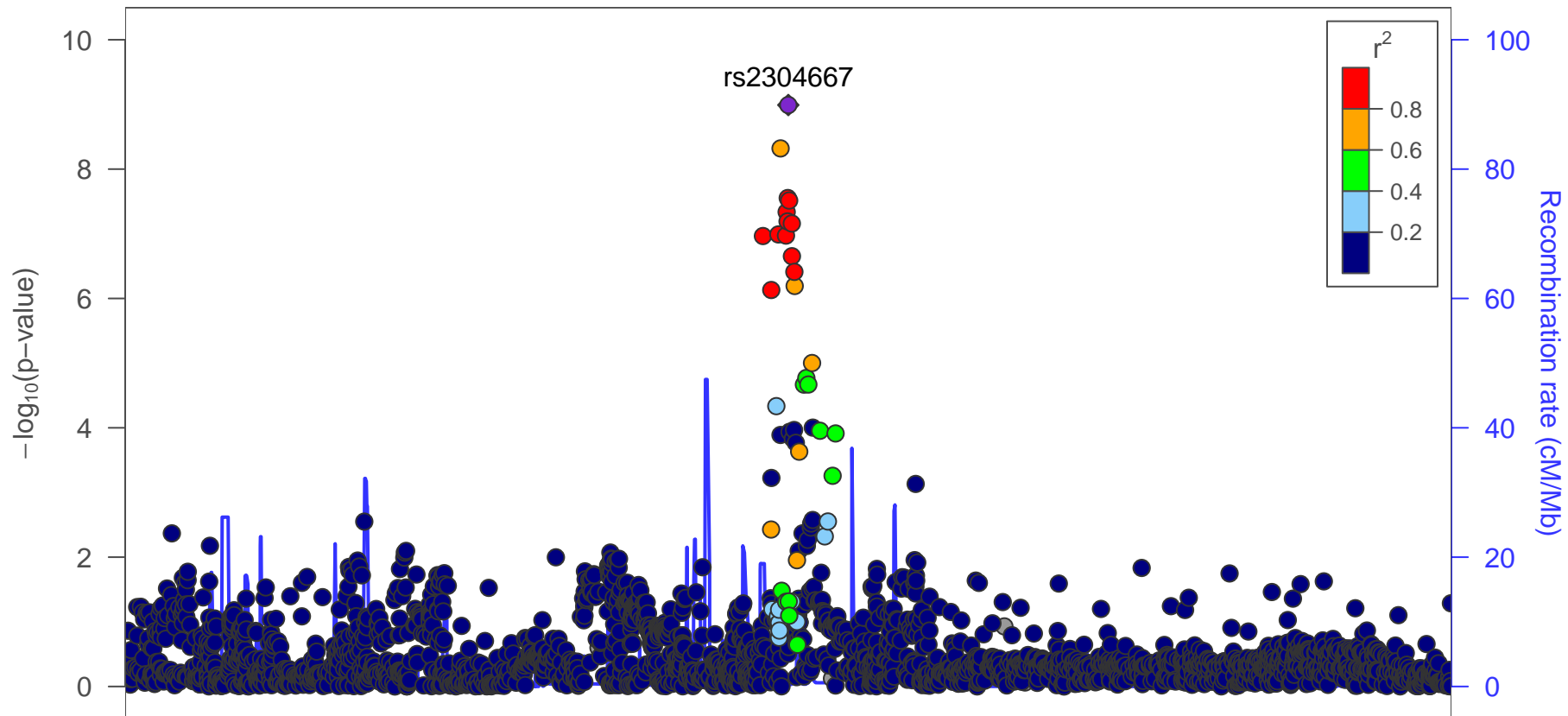
69.4 69.6 69.8 70 70.2

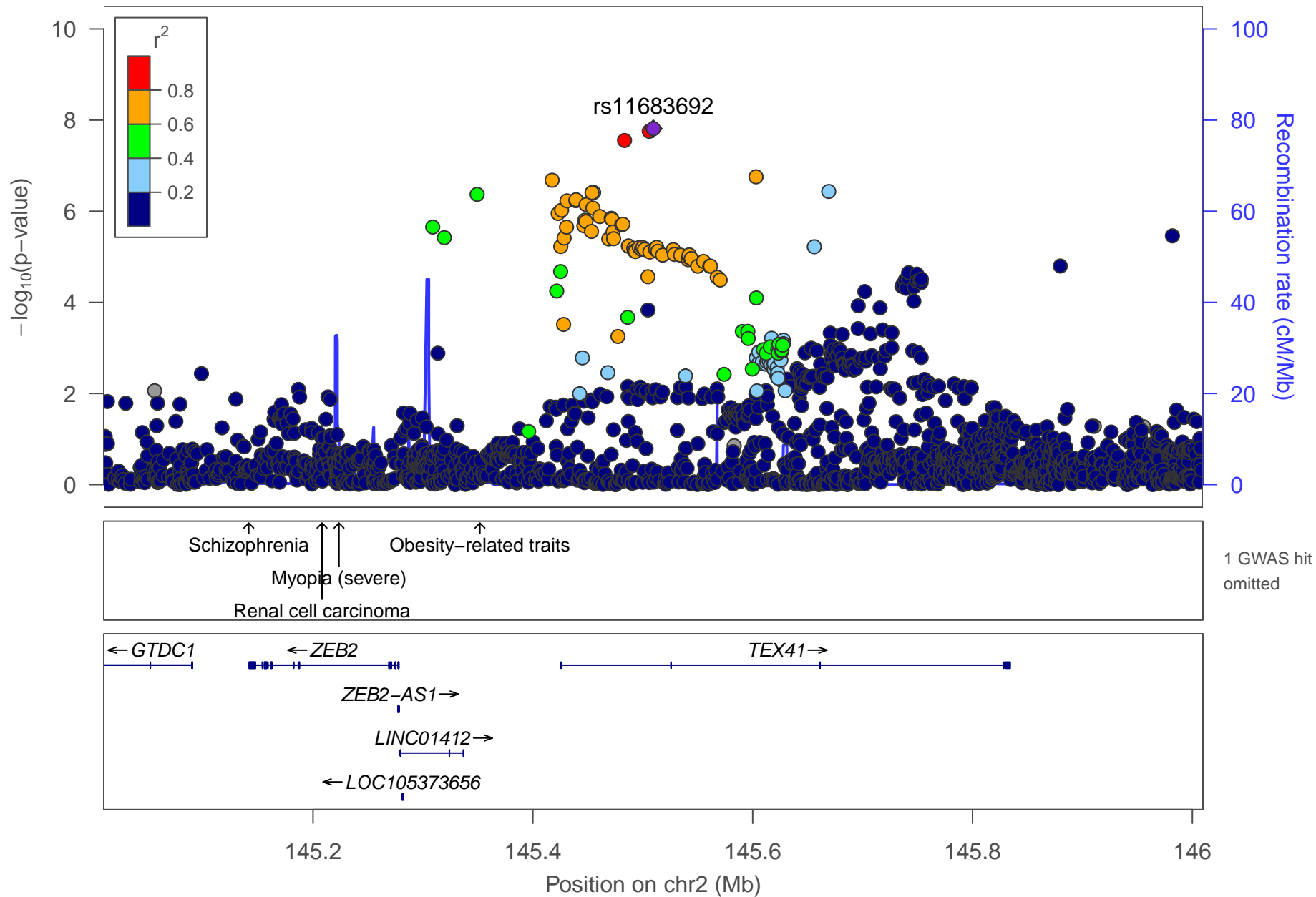
Position on chr2 (Mb)

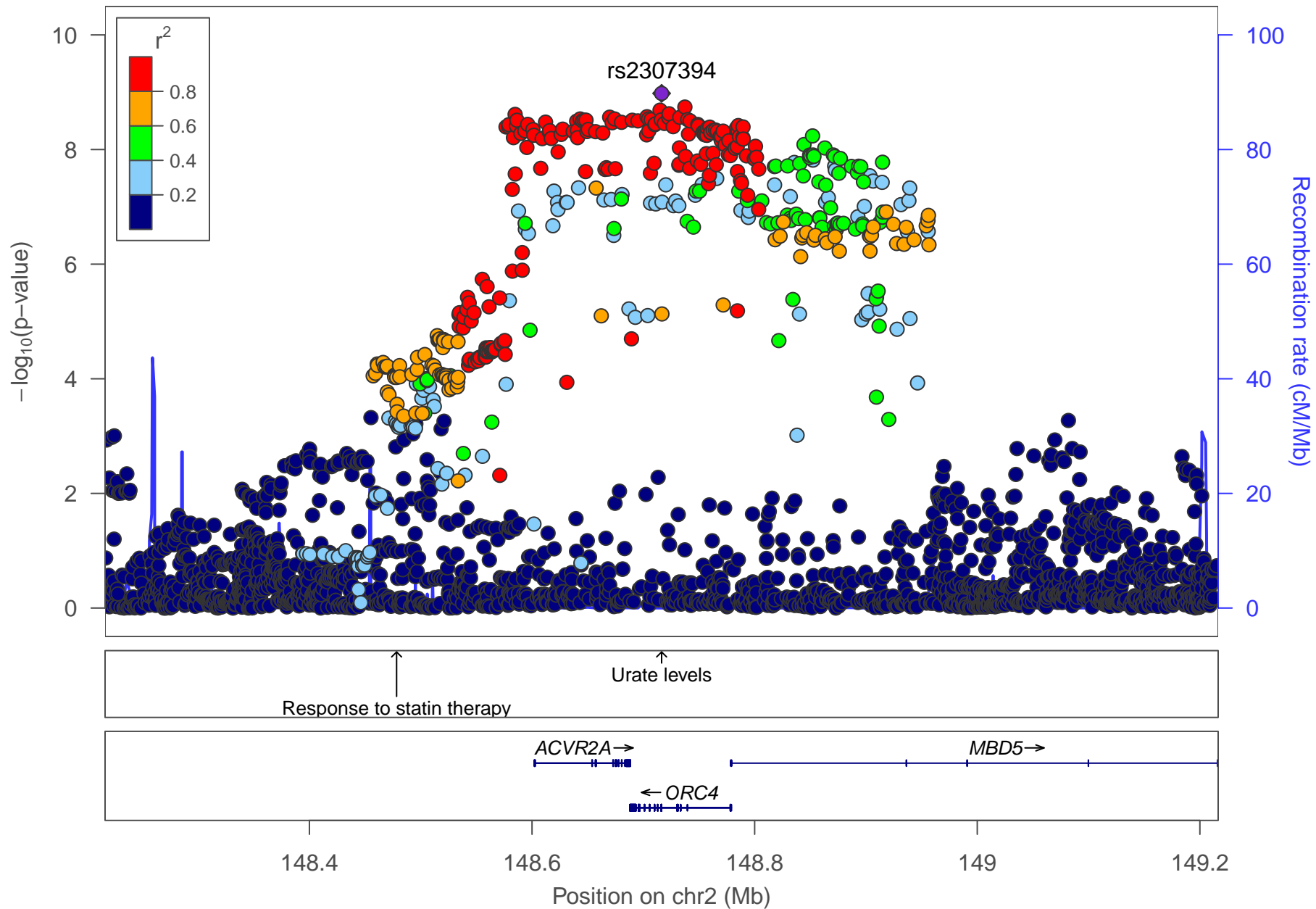


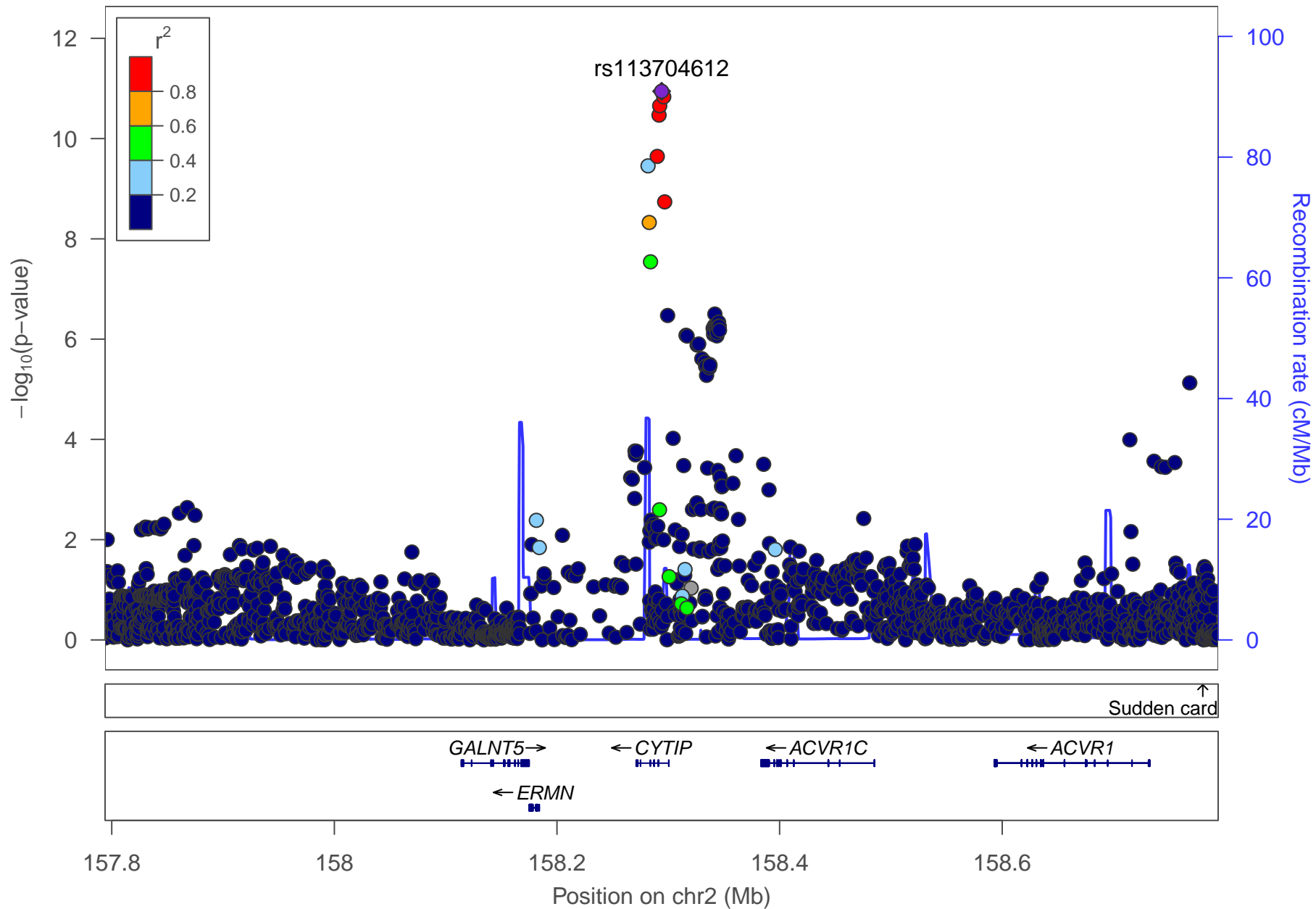


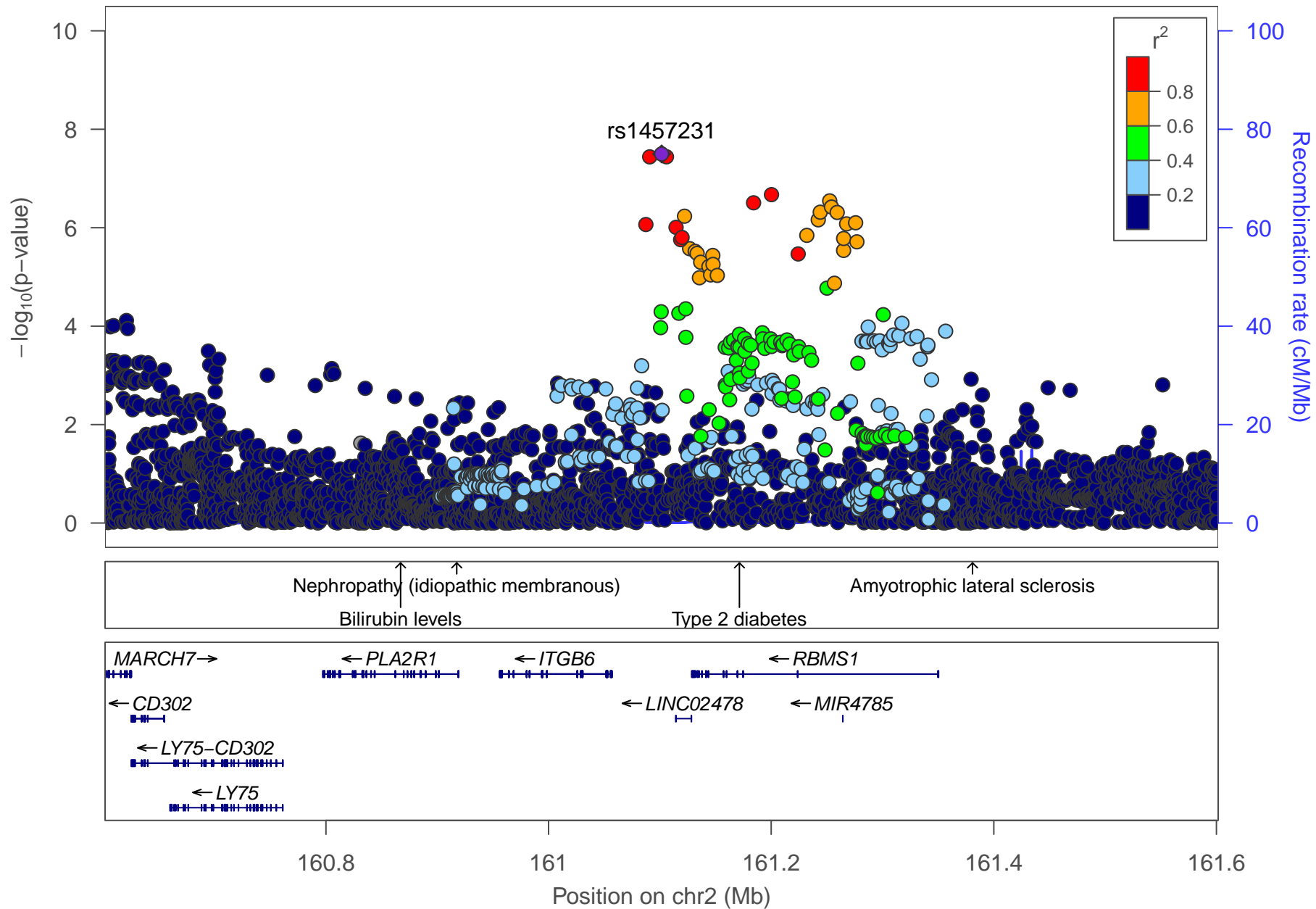


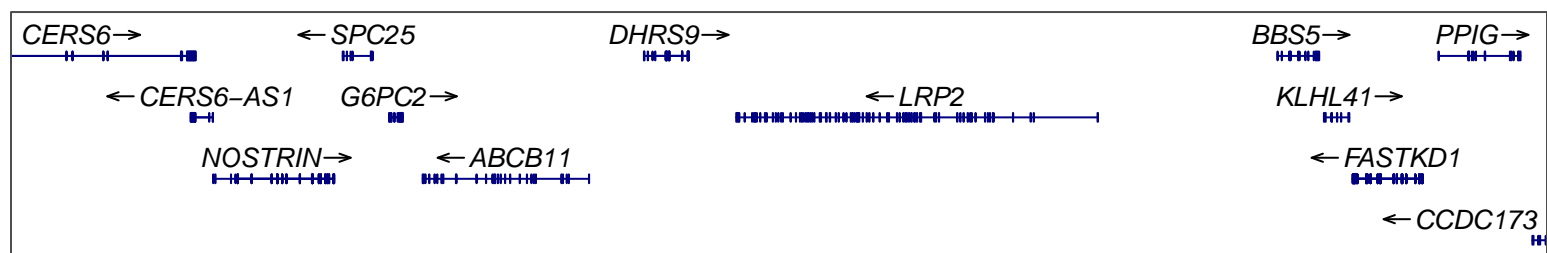
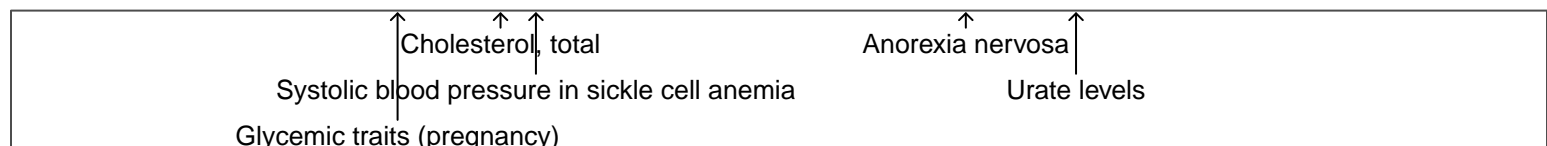
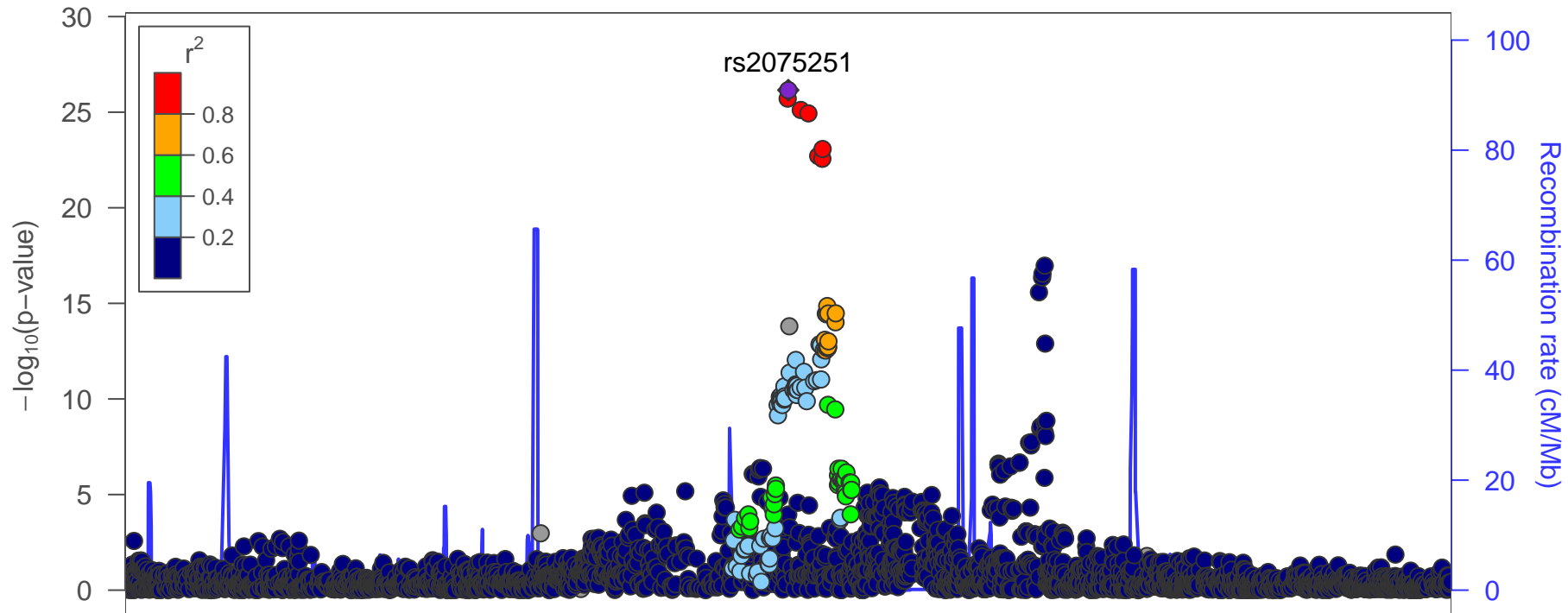






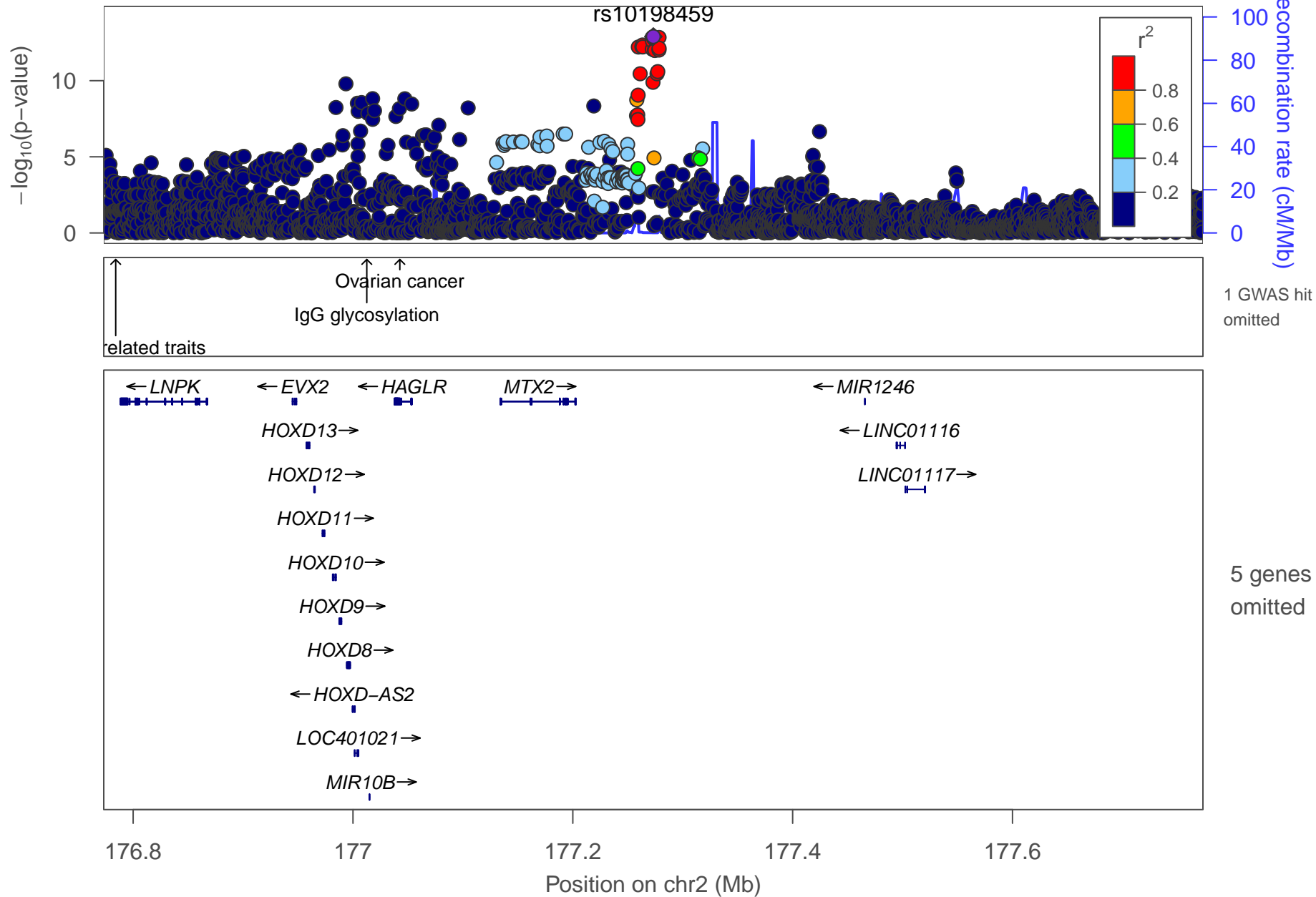


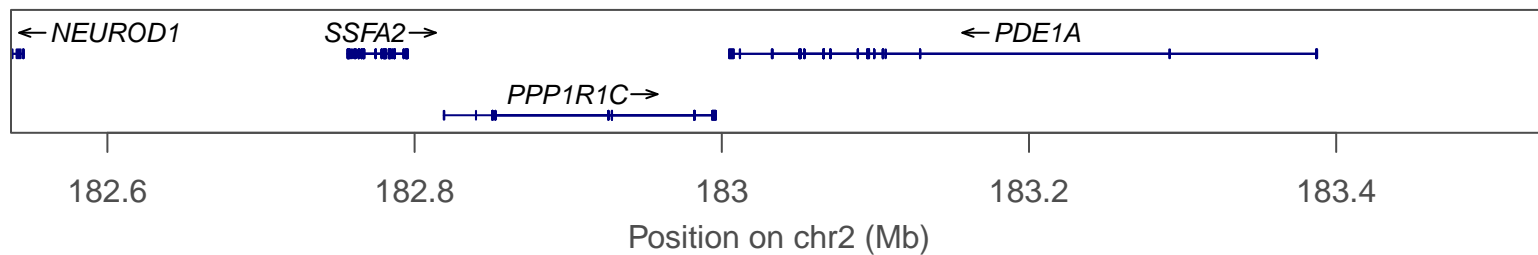
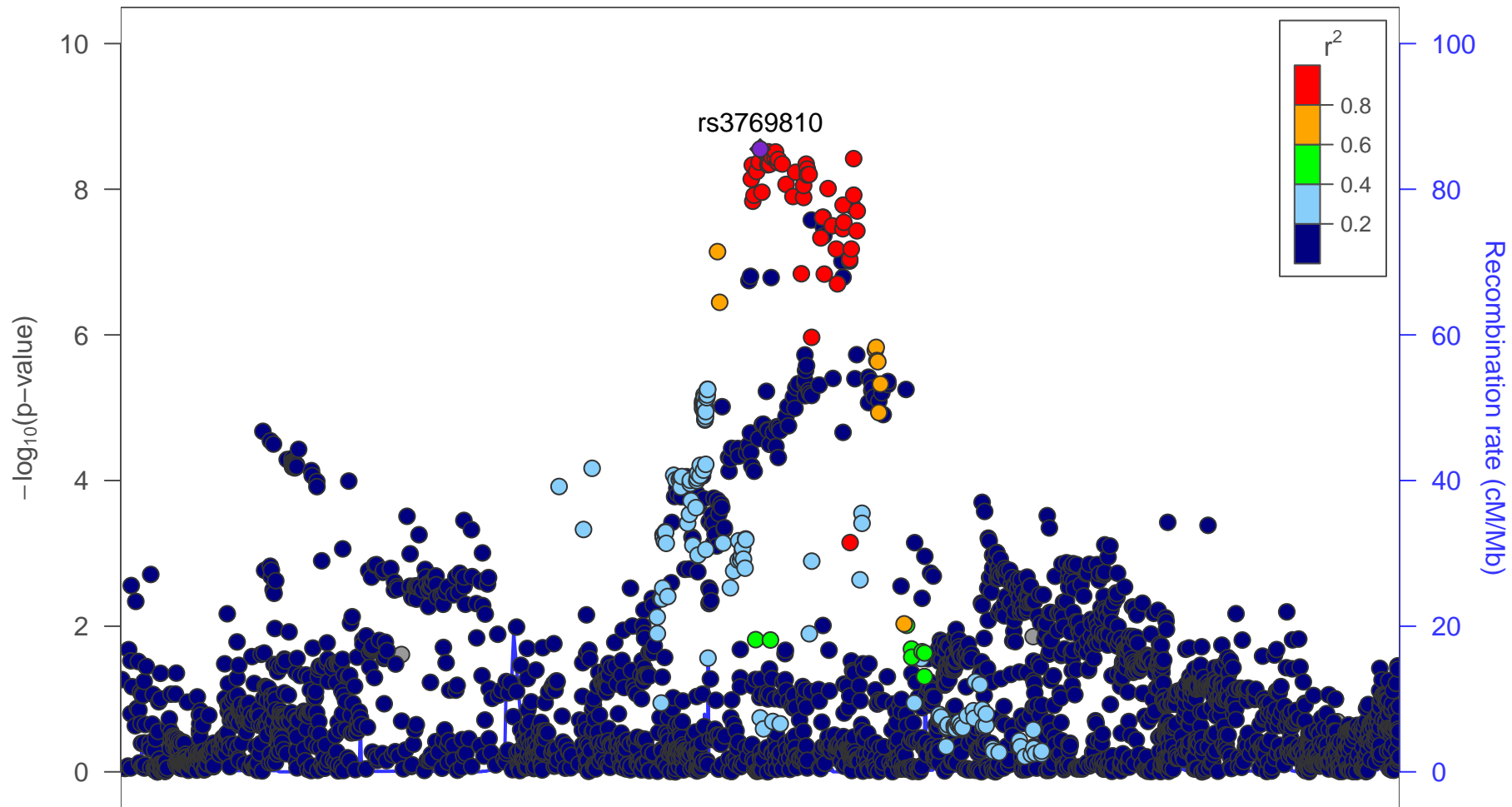


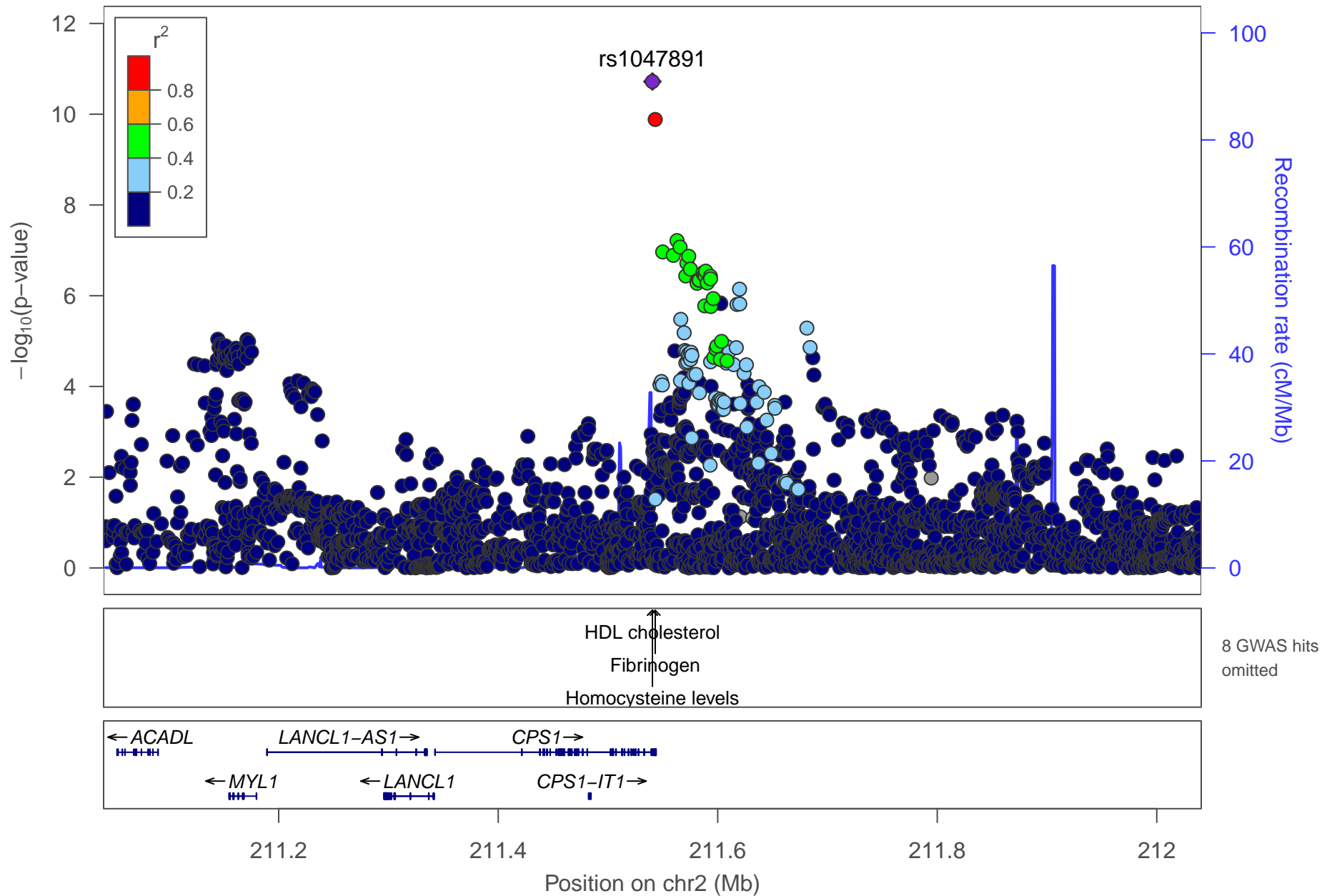


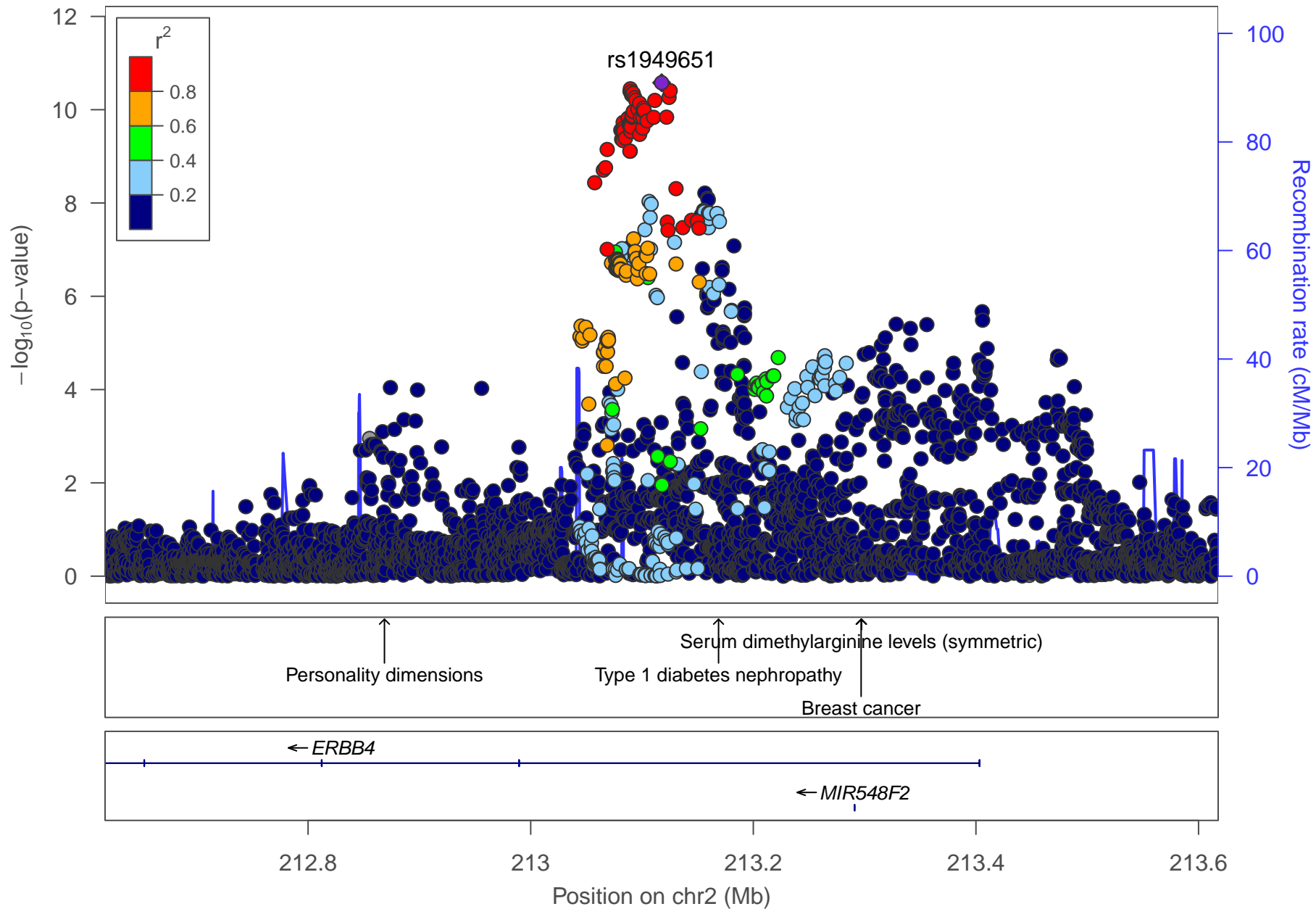
169.6 169.8 170 170.2 170.4

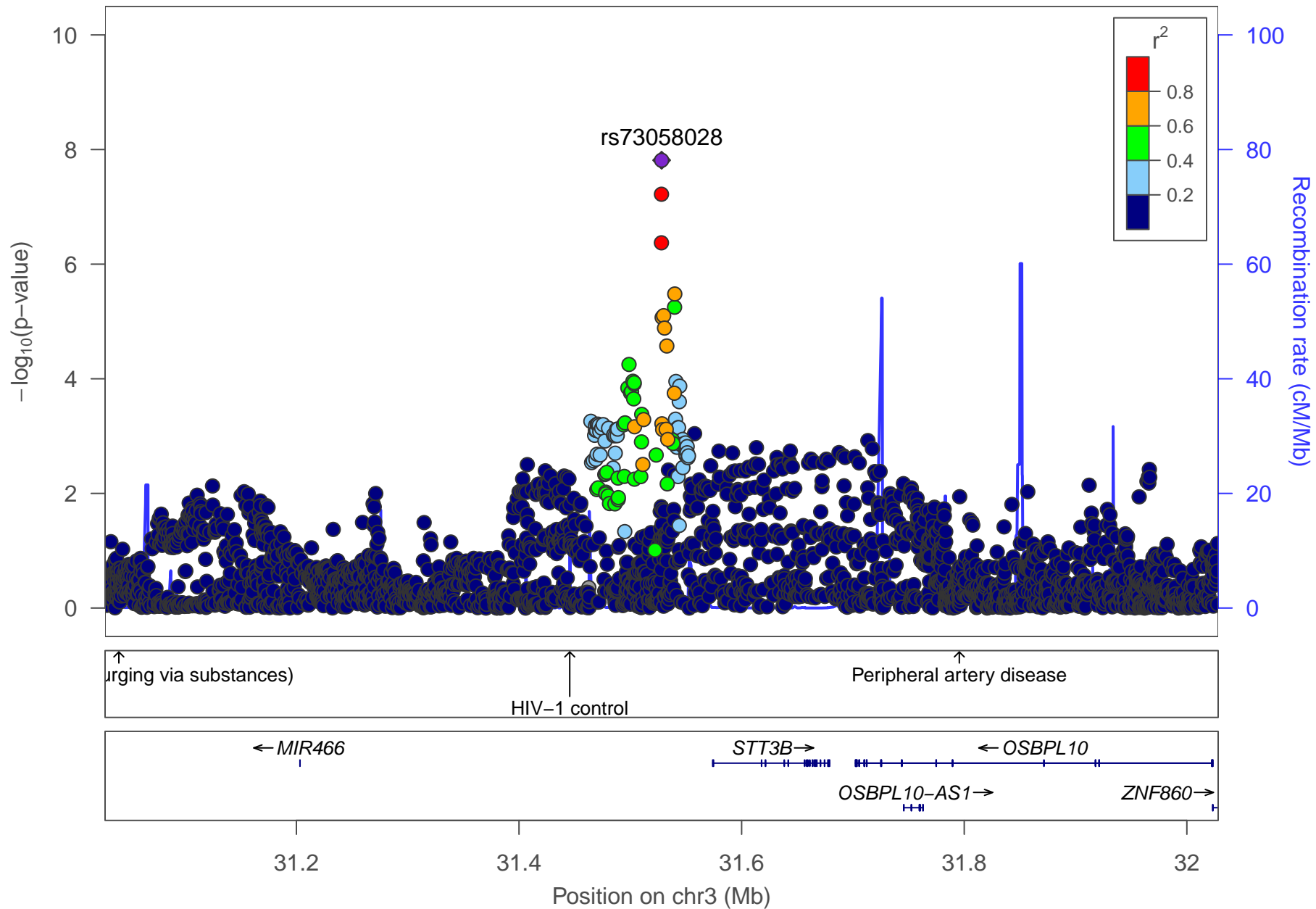
Position on chr2 (Mb)

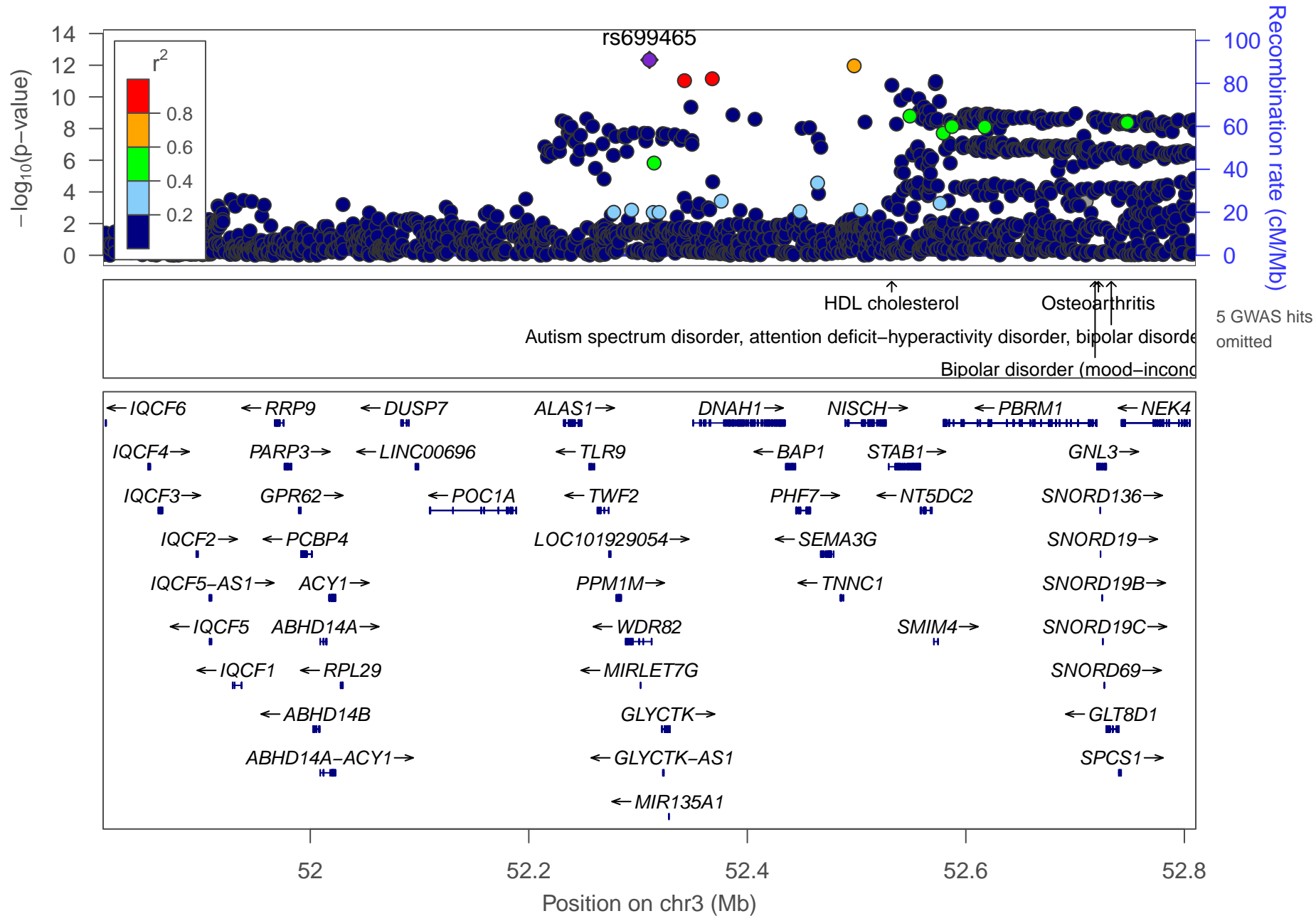


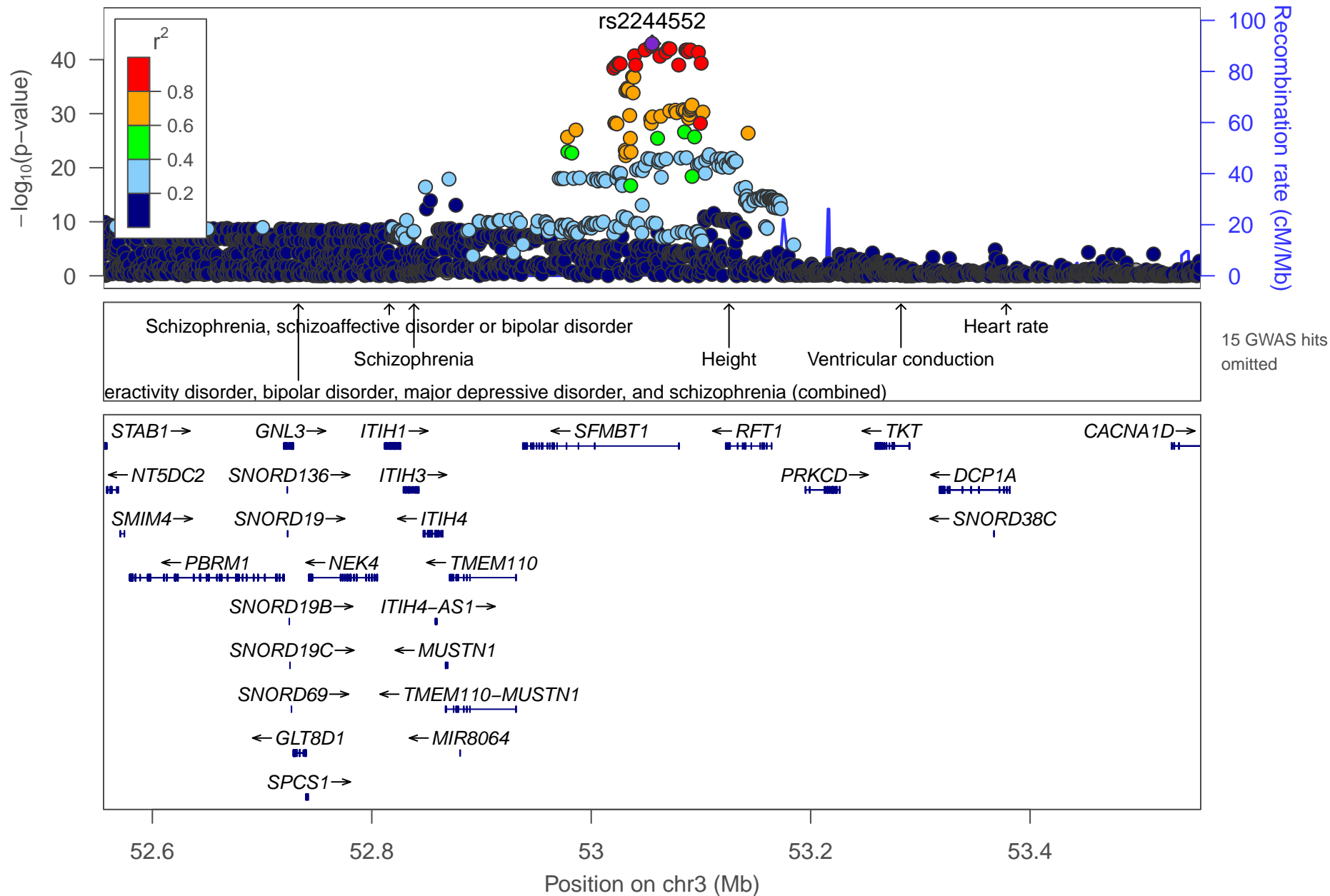


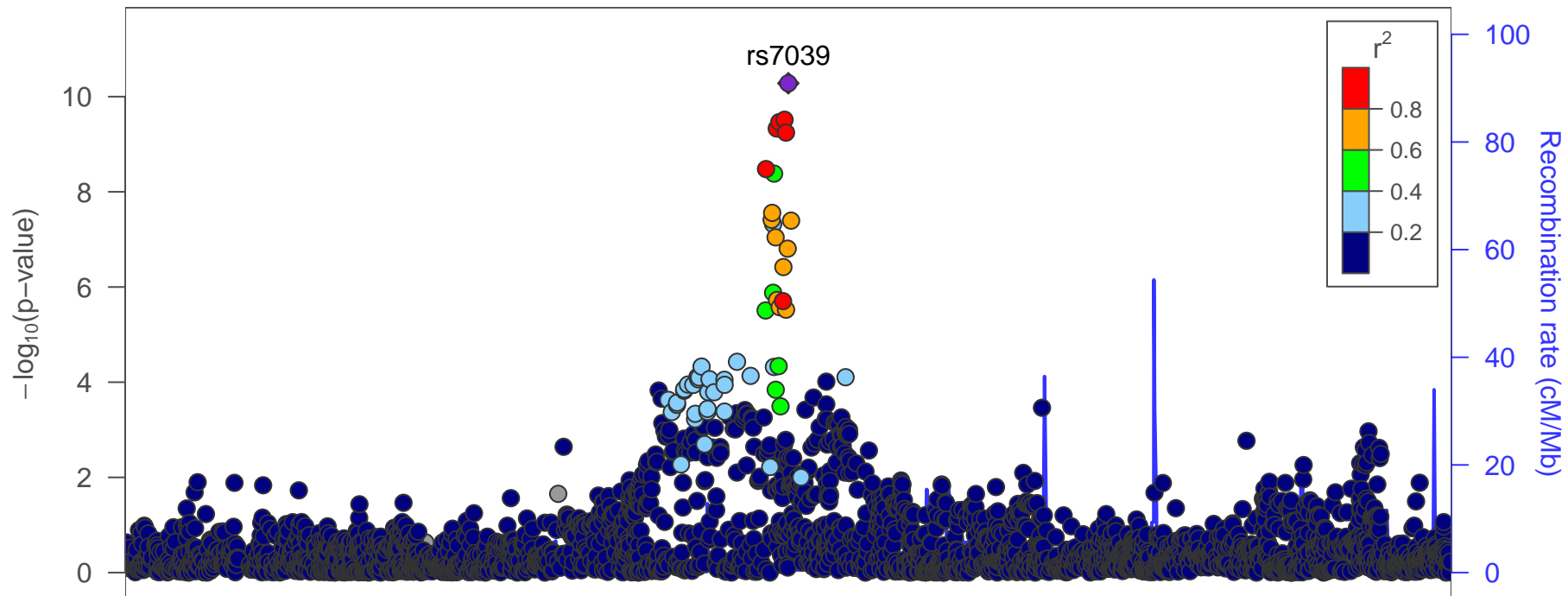






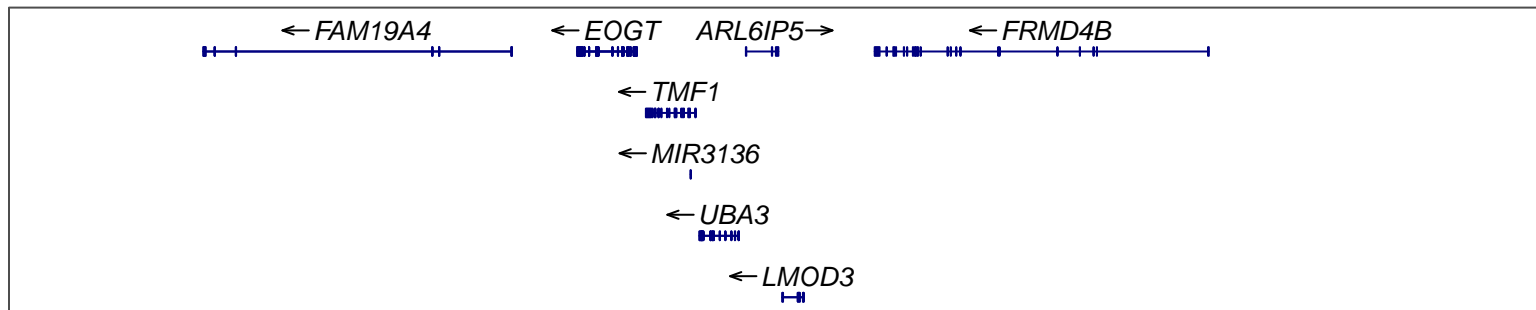






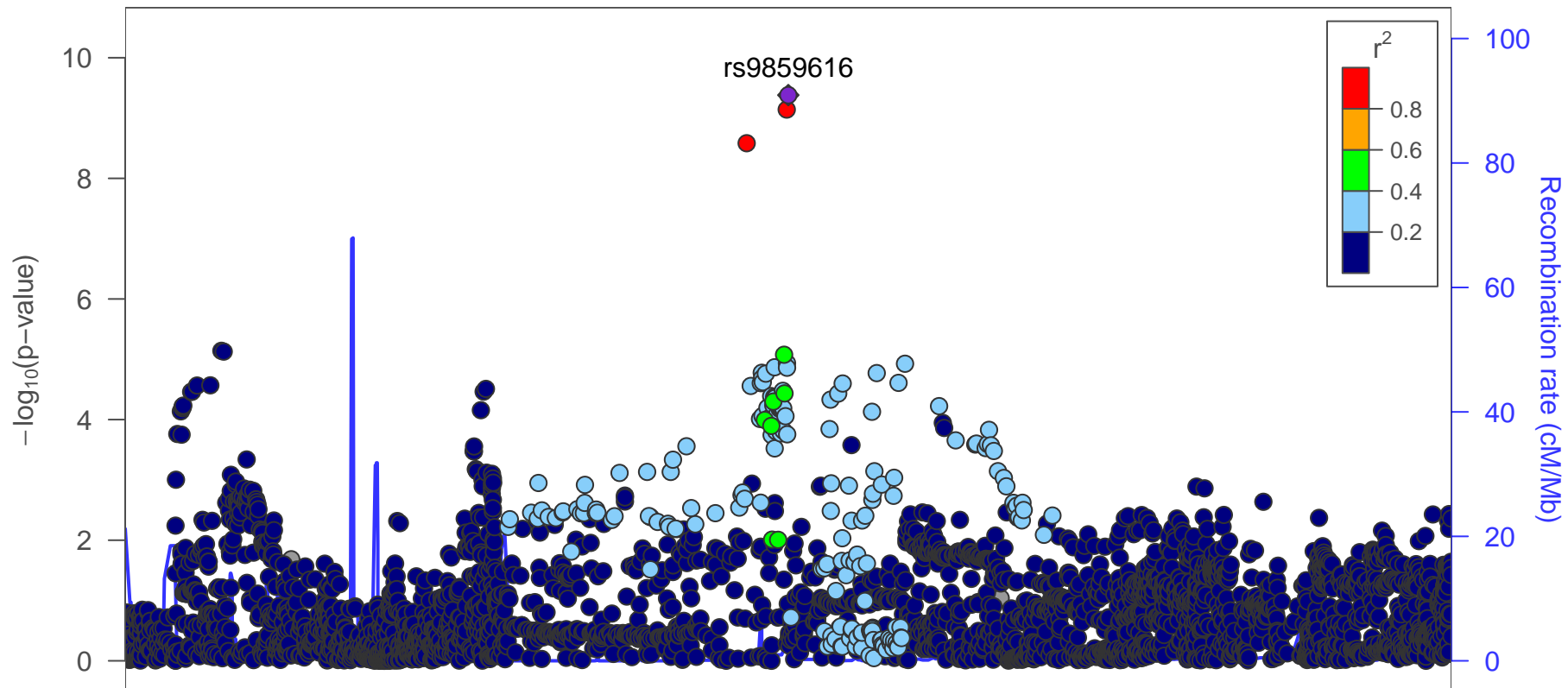
Alzheimer's disease (late onset) Hip geometry

Celiac disease

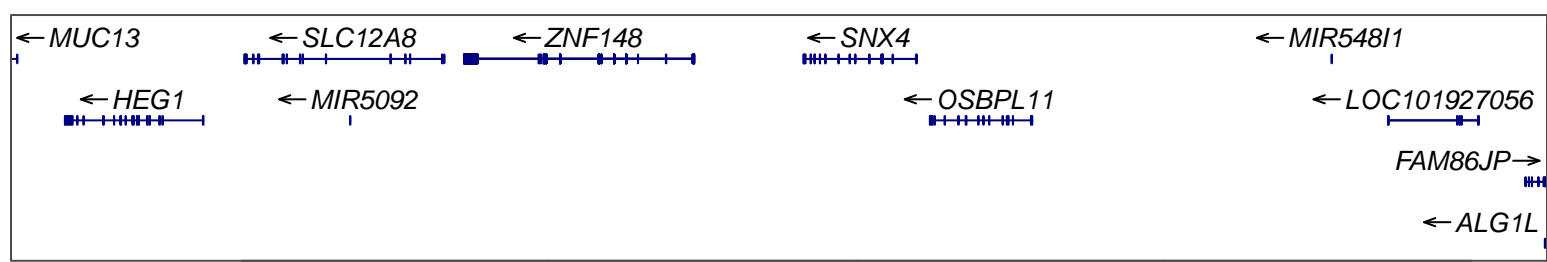


68.8 69 69.2 69.4 69.6

Position on chr3 (Mb)

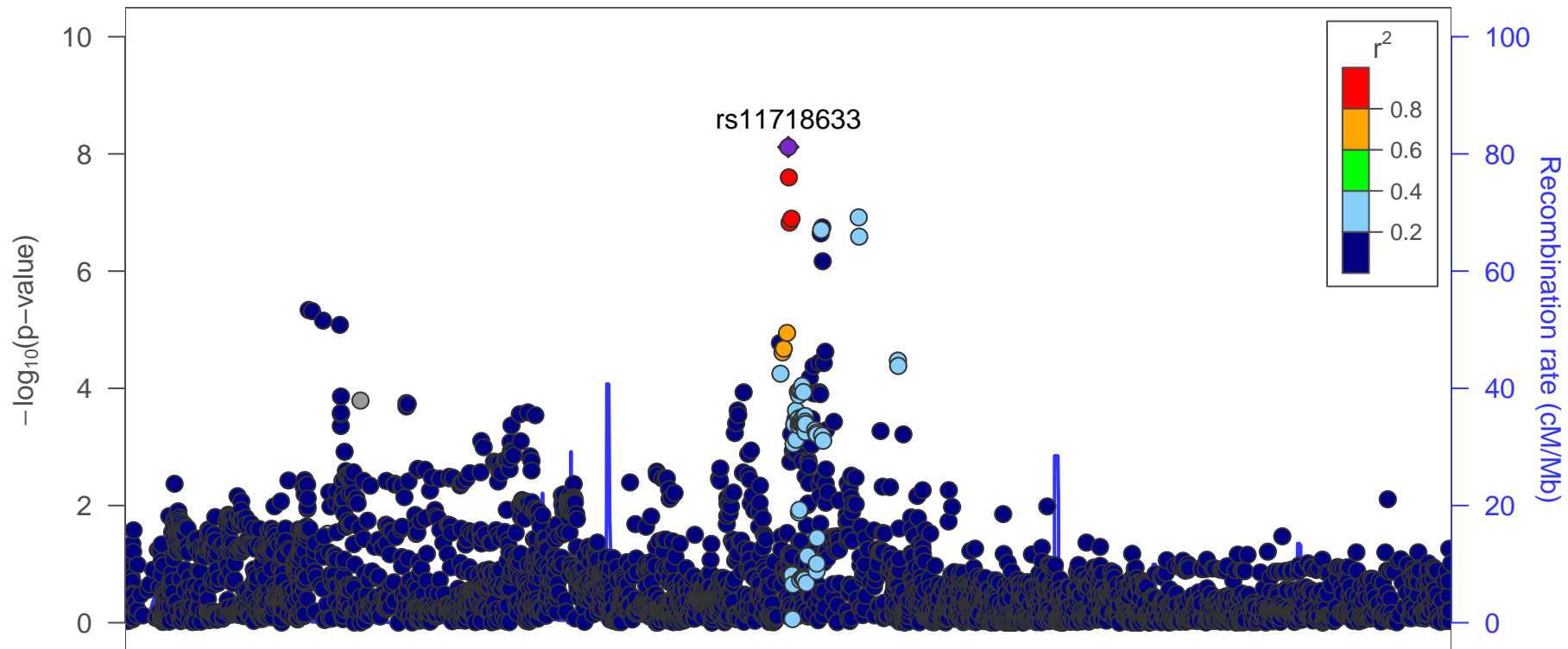


Metabolite levels (HVA/5- ↑)

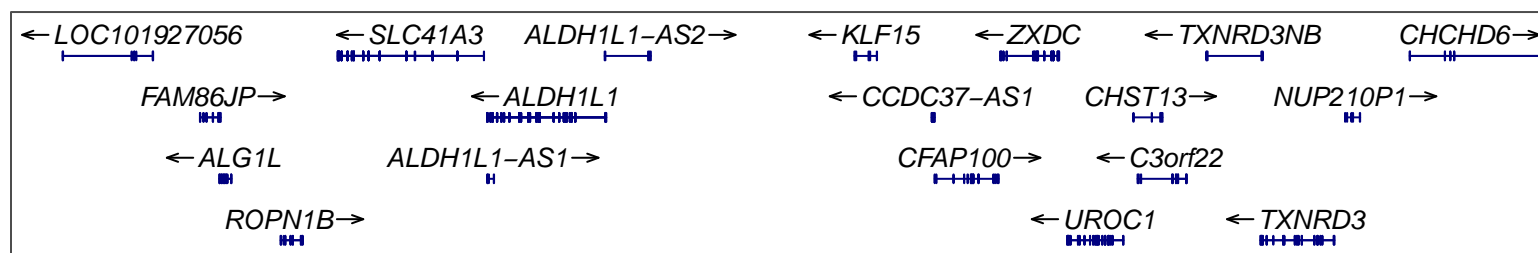


124.8 125 125.2 125.4 125.6

Position on chr3 (Mb)

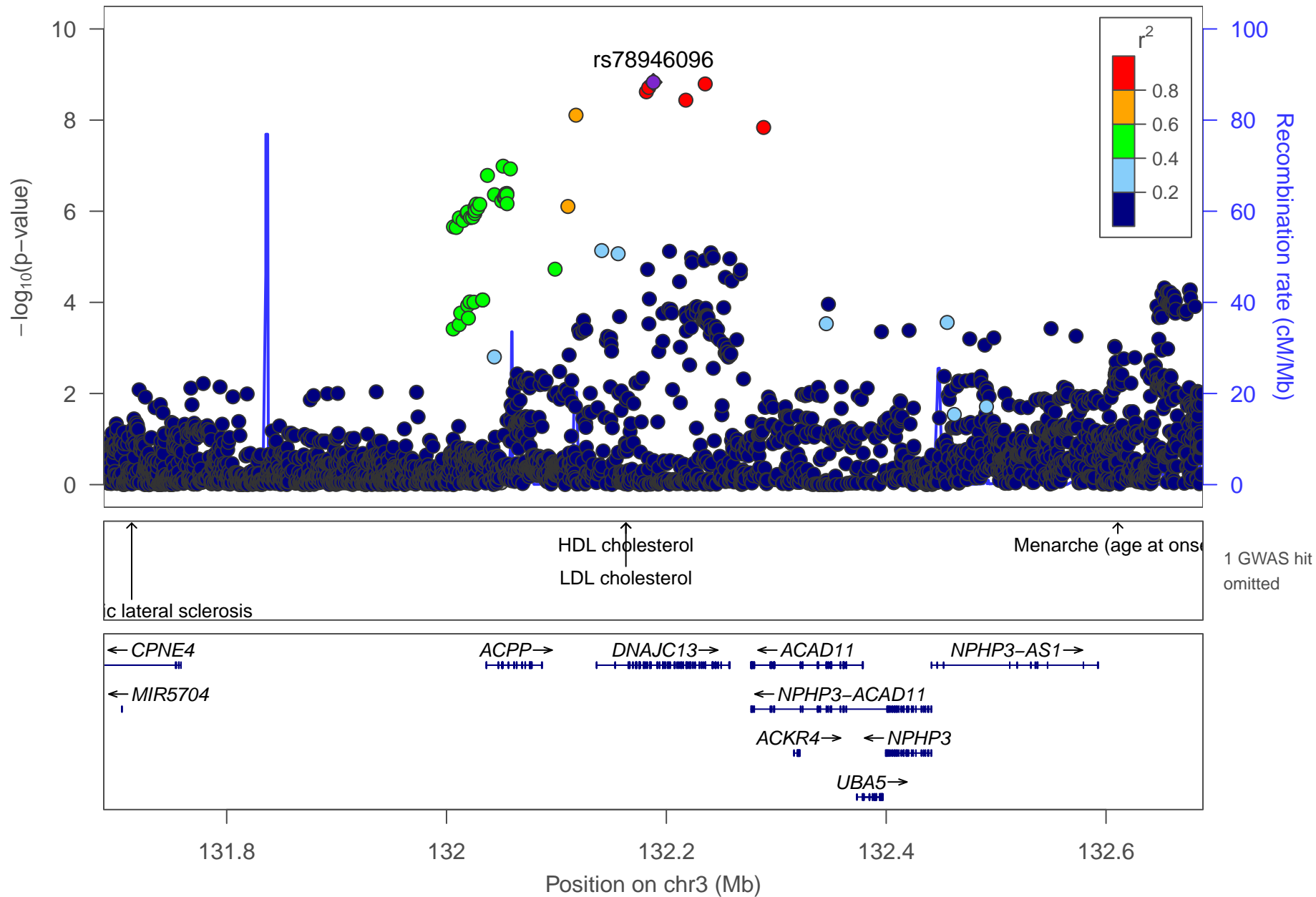


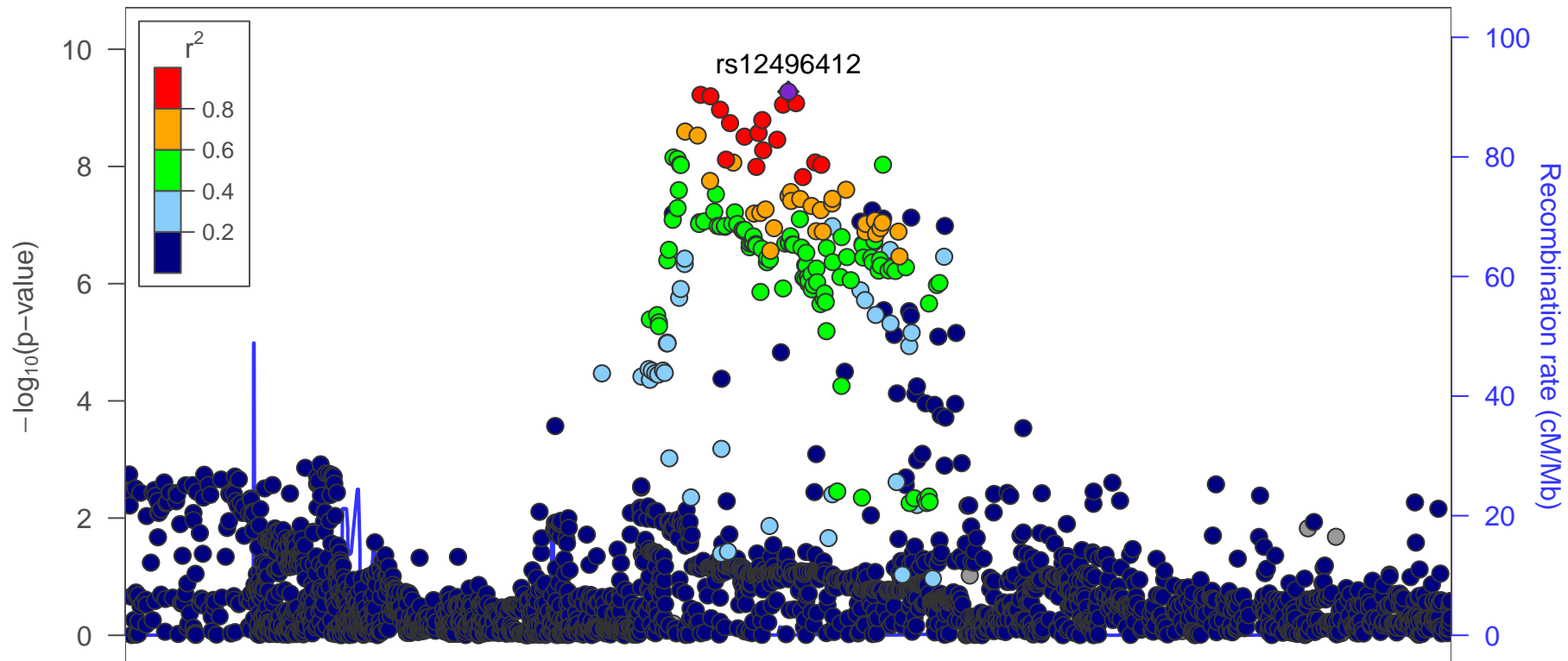
ite levels (HVA/5-HIAA ratio) ↑ Metabolite levels



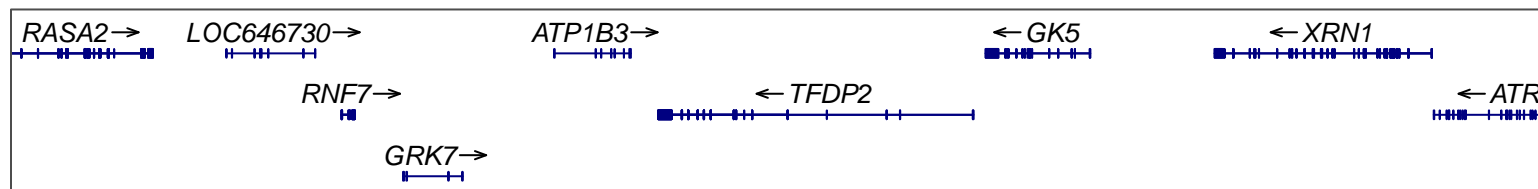
125.6 125.8 126 126.2 126.4

Position on chr3 (Mb)

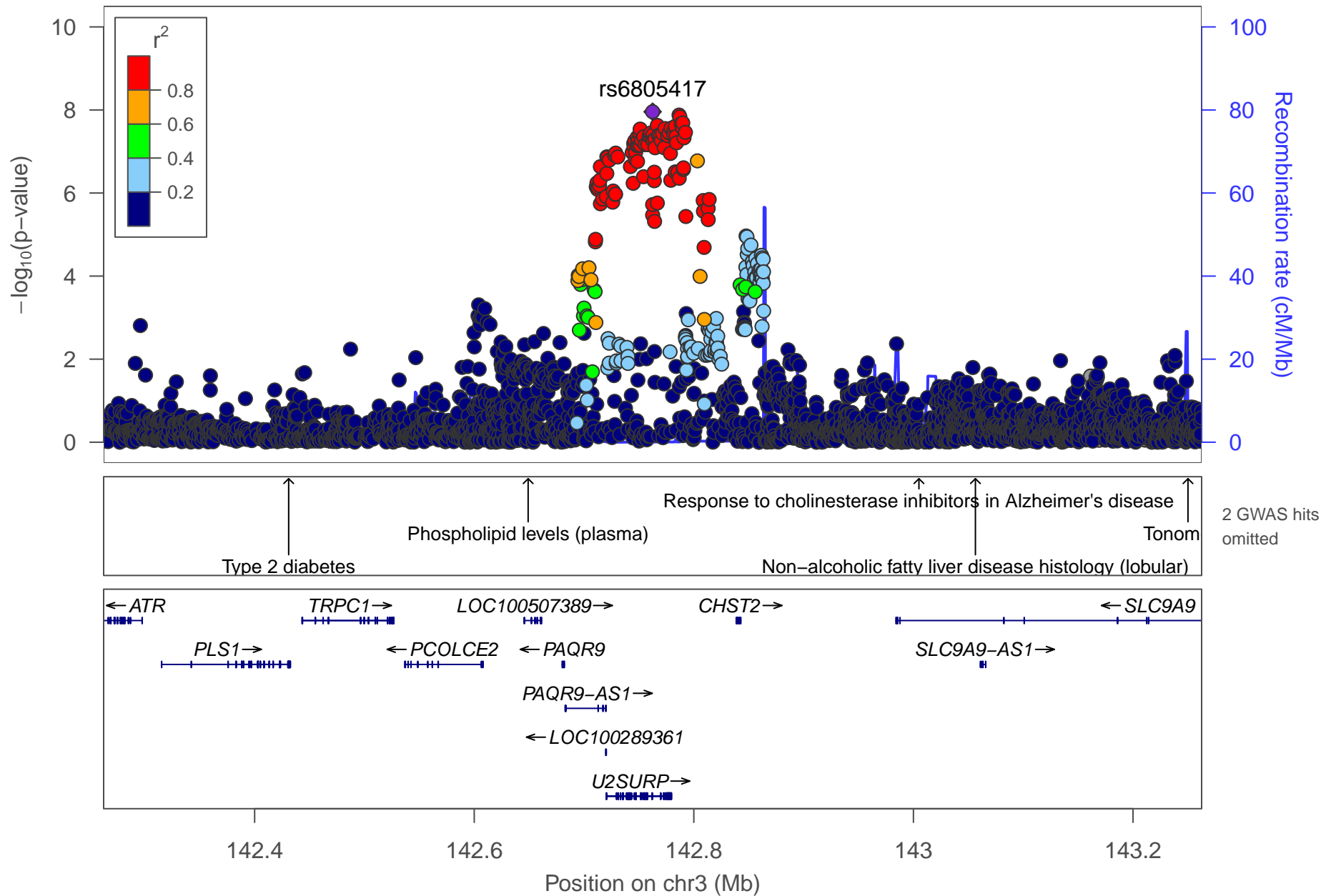


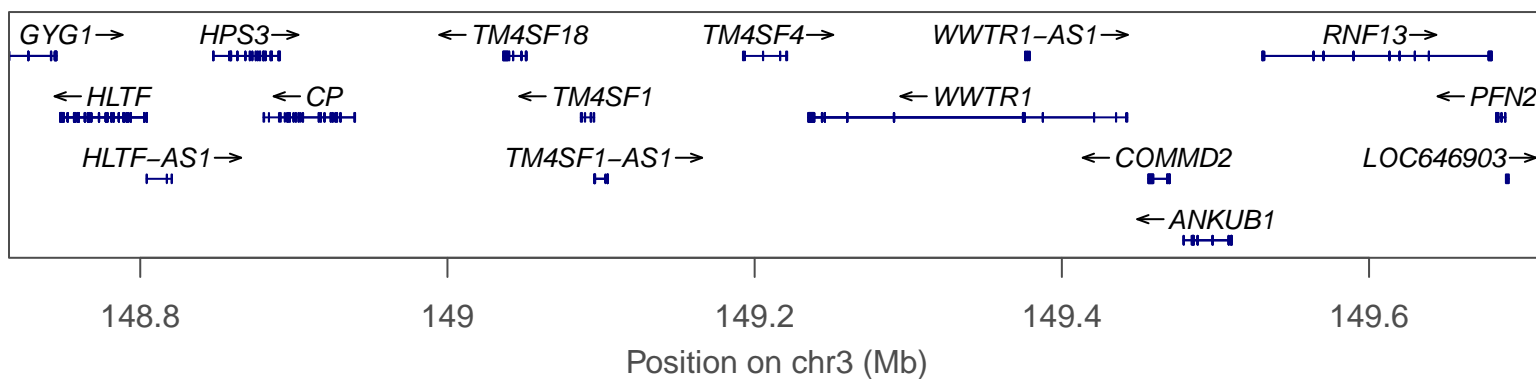
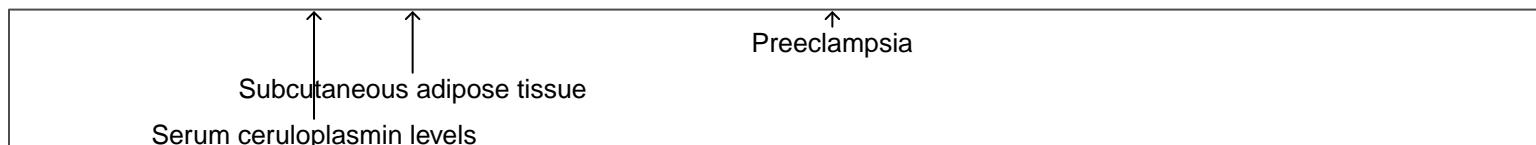
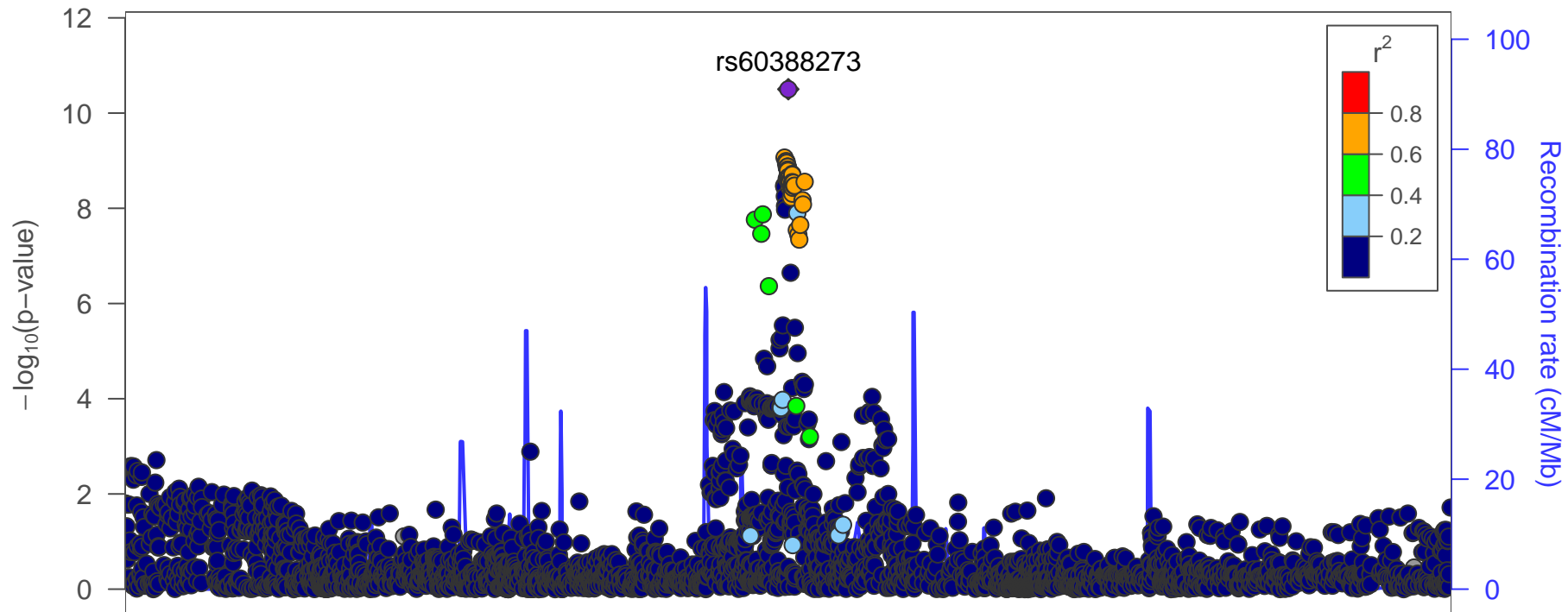


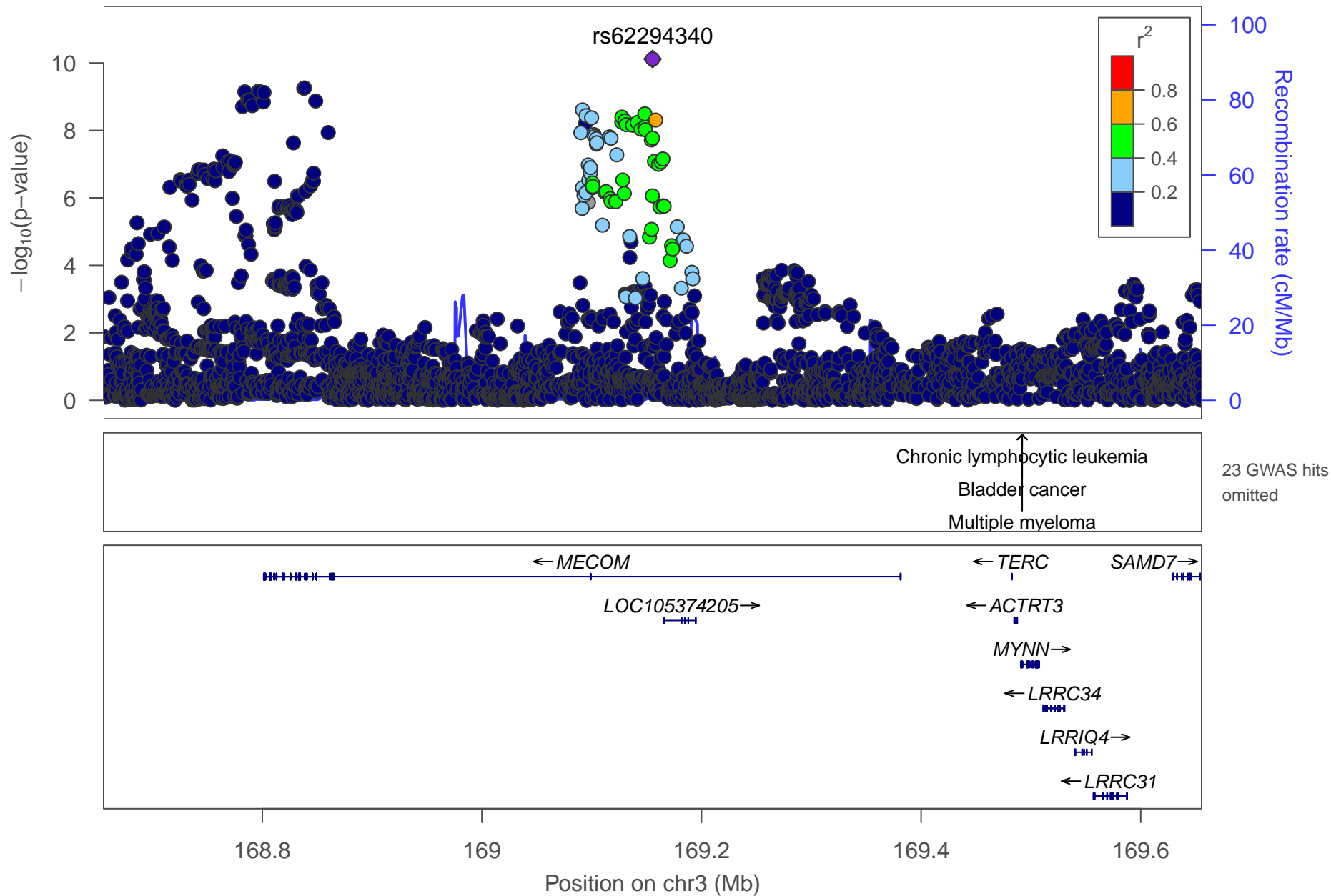
↑ Coronary artery calcification
 ↑ Hepatitis C induced liver fibrosis
 ↑ Chronic kidney disease
 ↑ Food cell traits

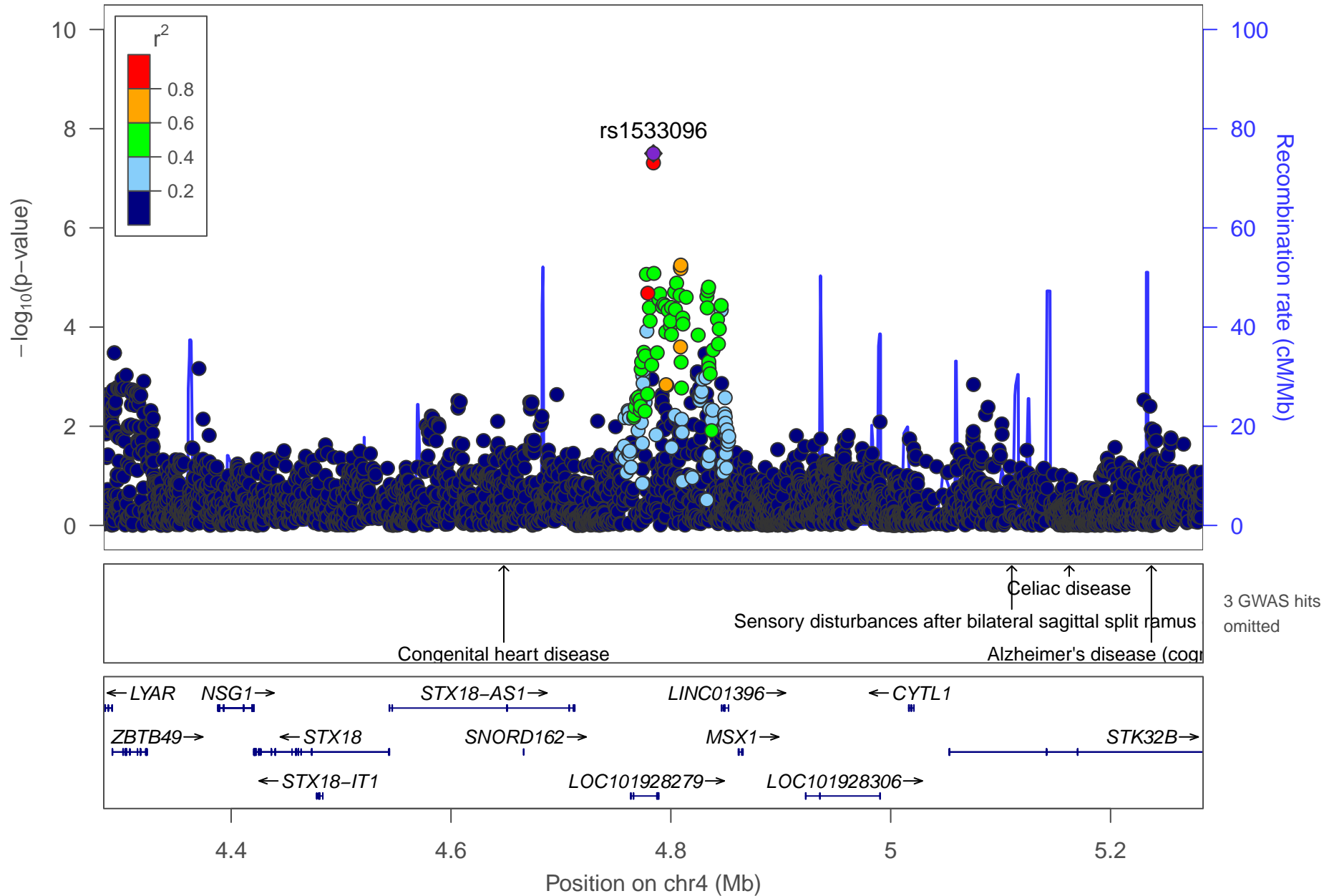


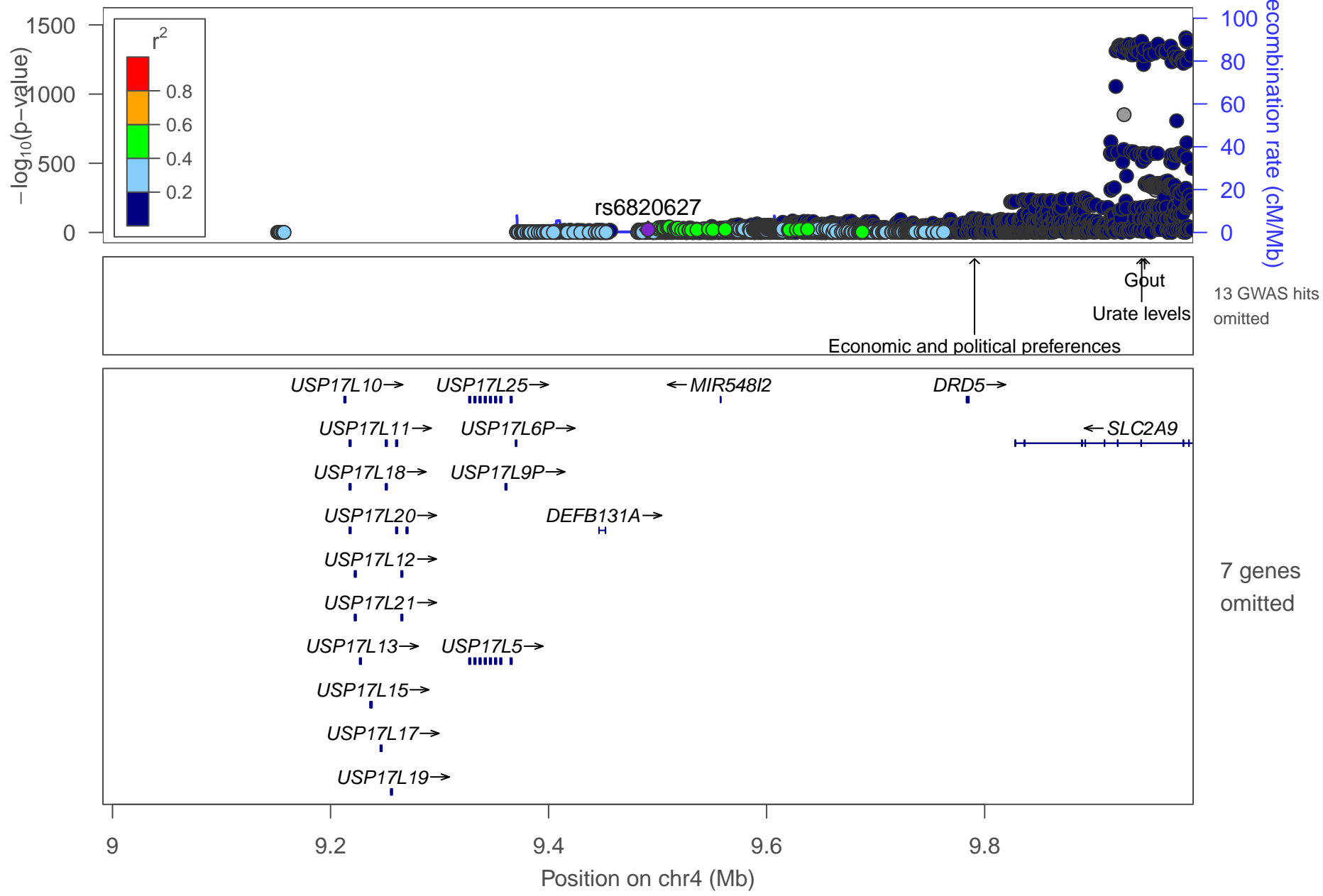
141.4 141.6 141.8 142 142.2
 Position on chr3 (Mb)

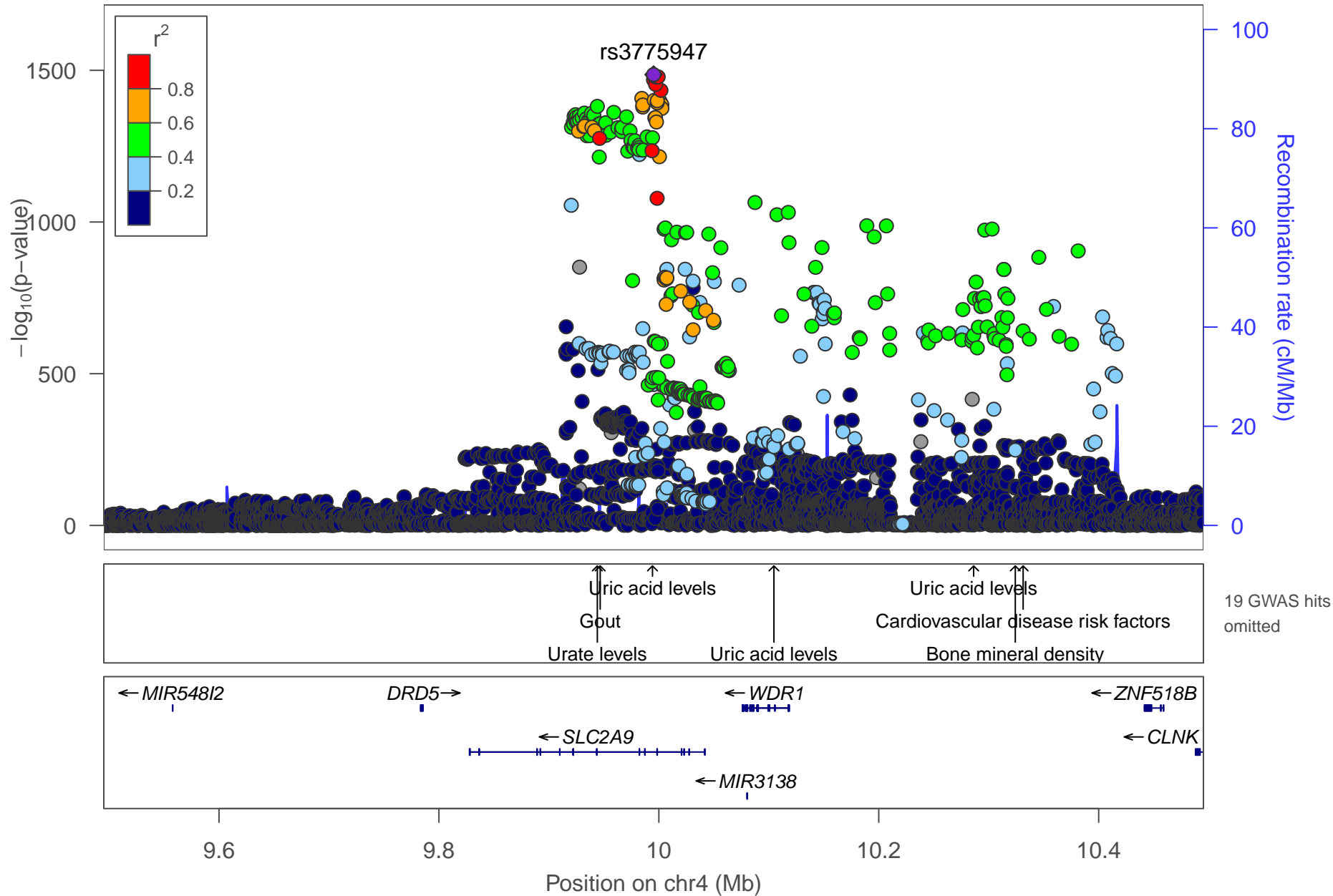


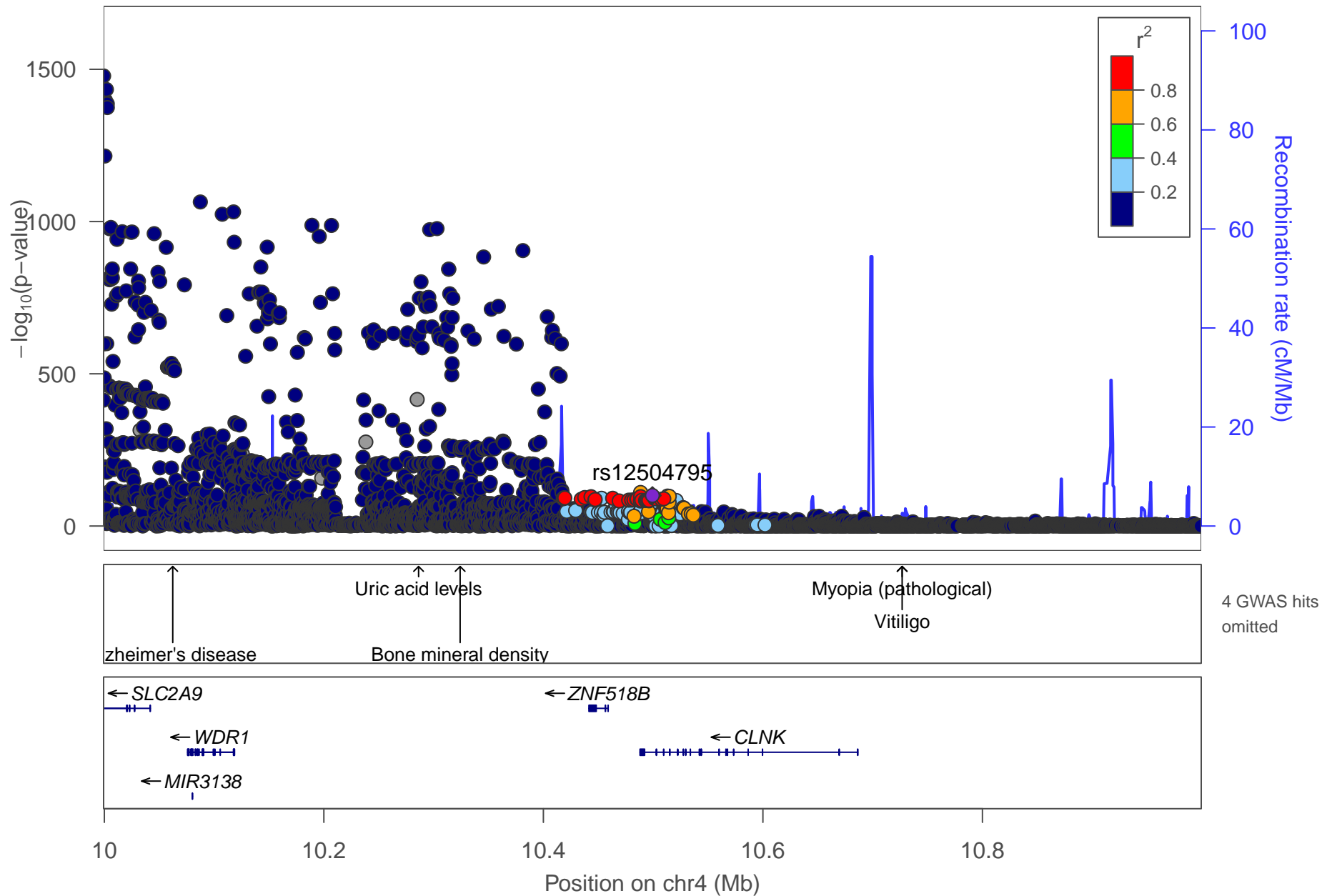


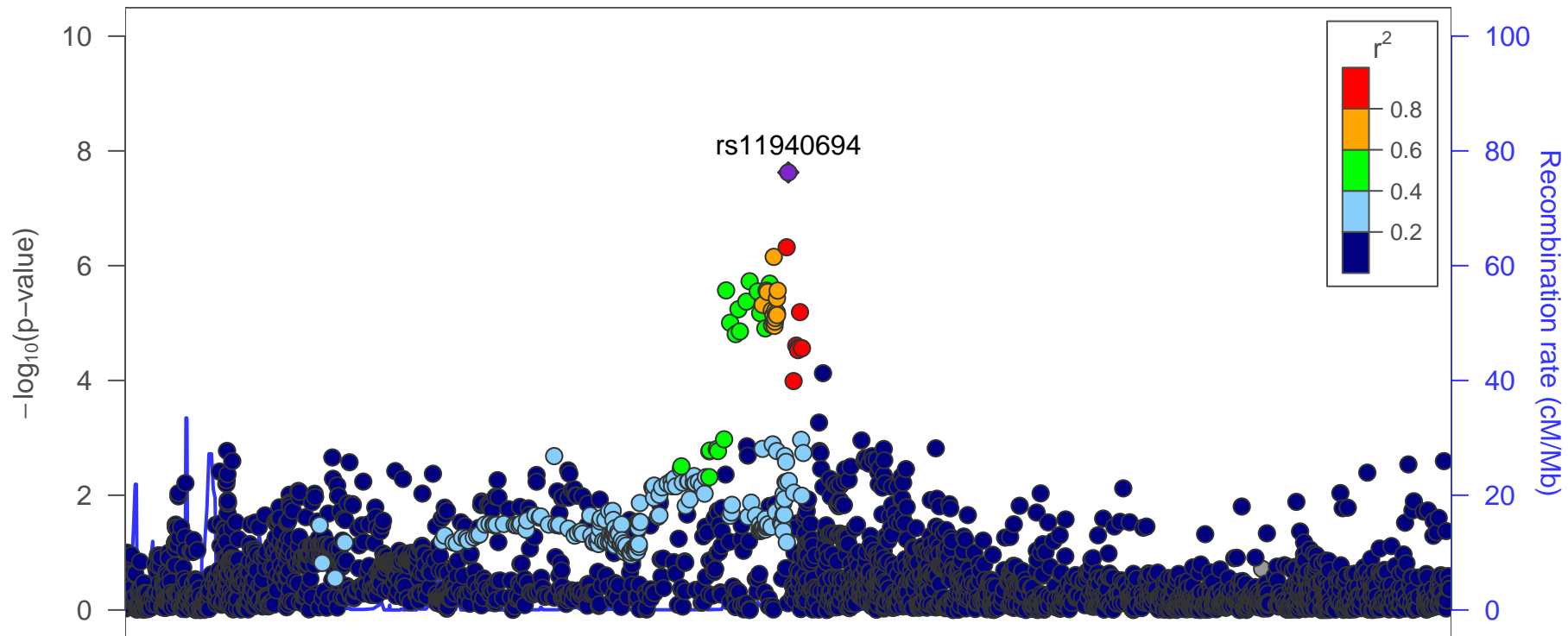




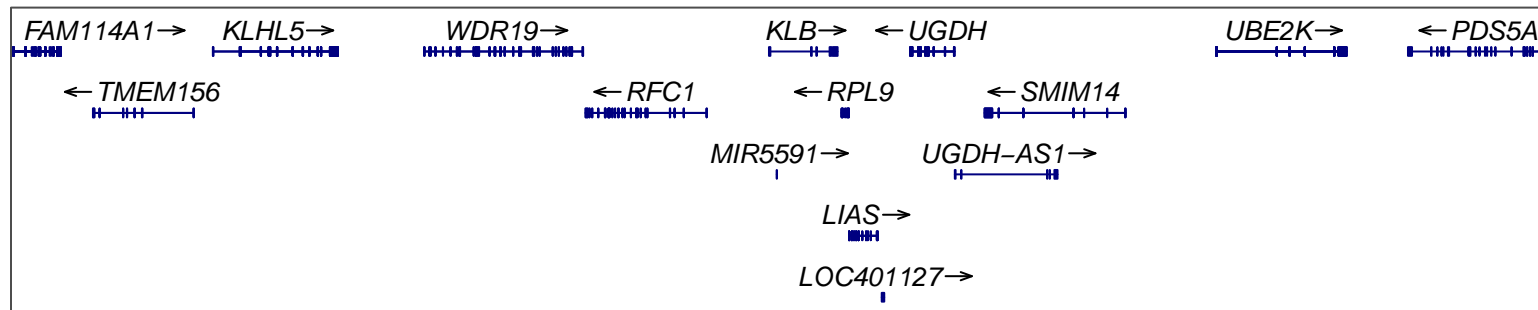






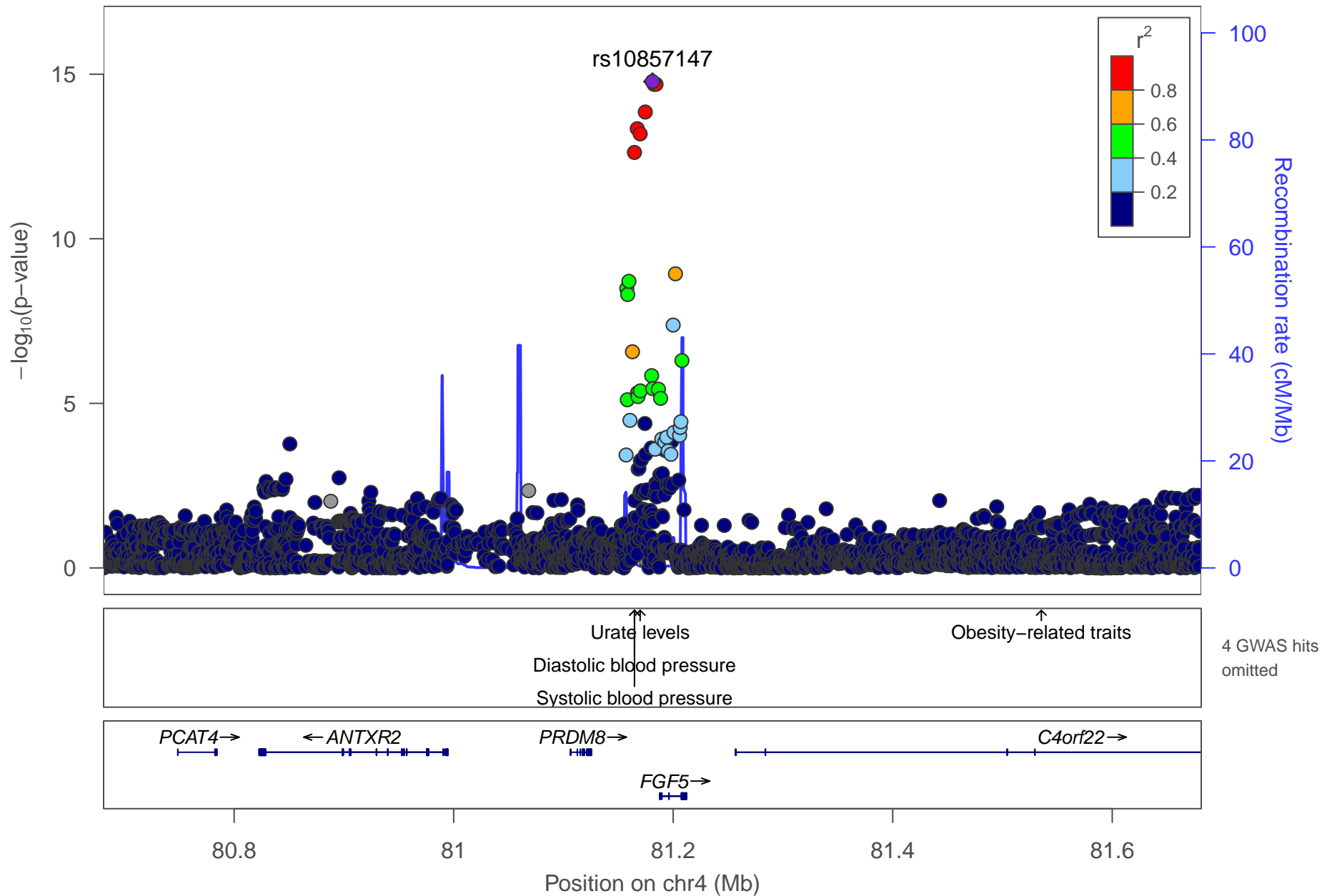


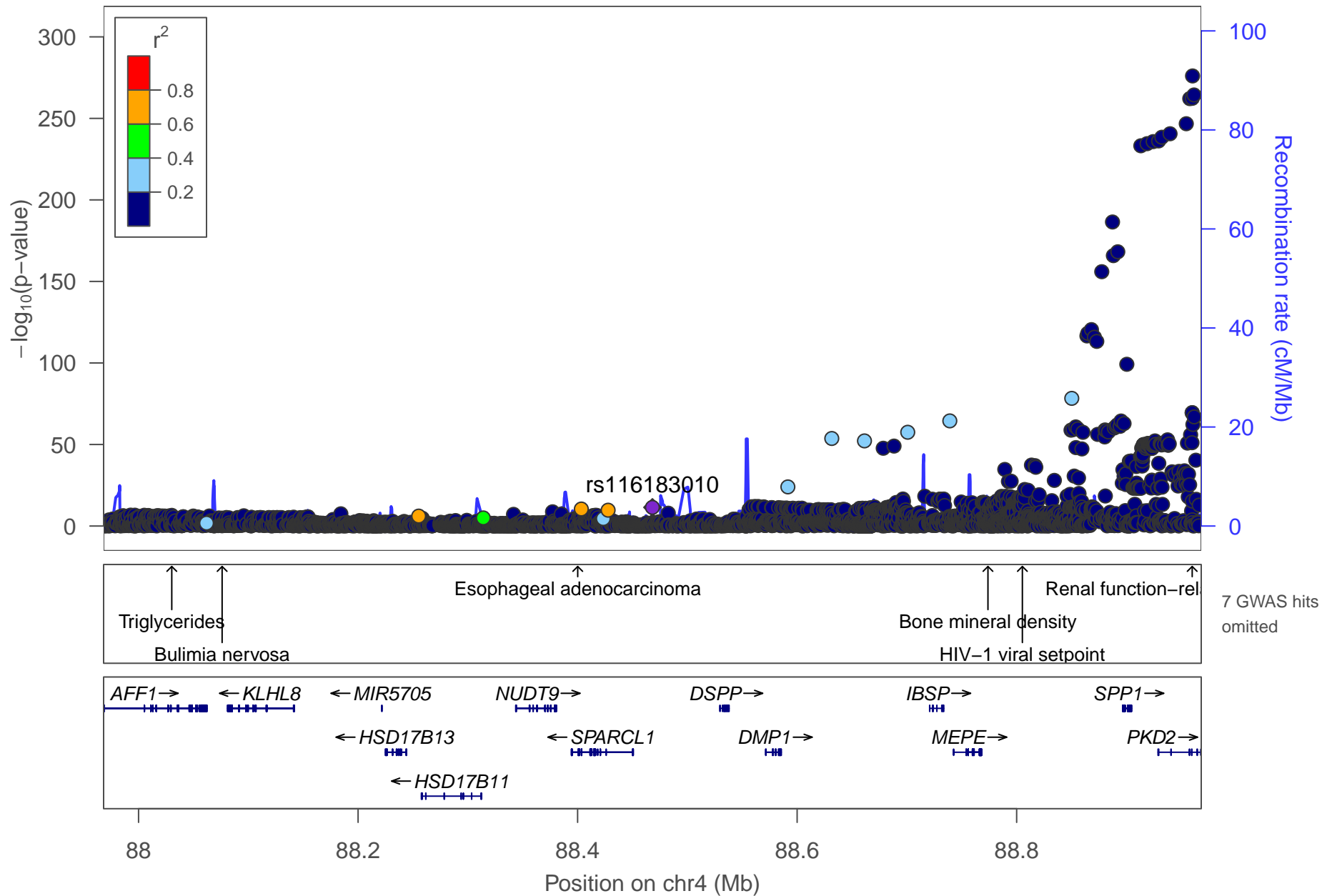
↑
 Asthma (childhood onset)

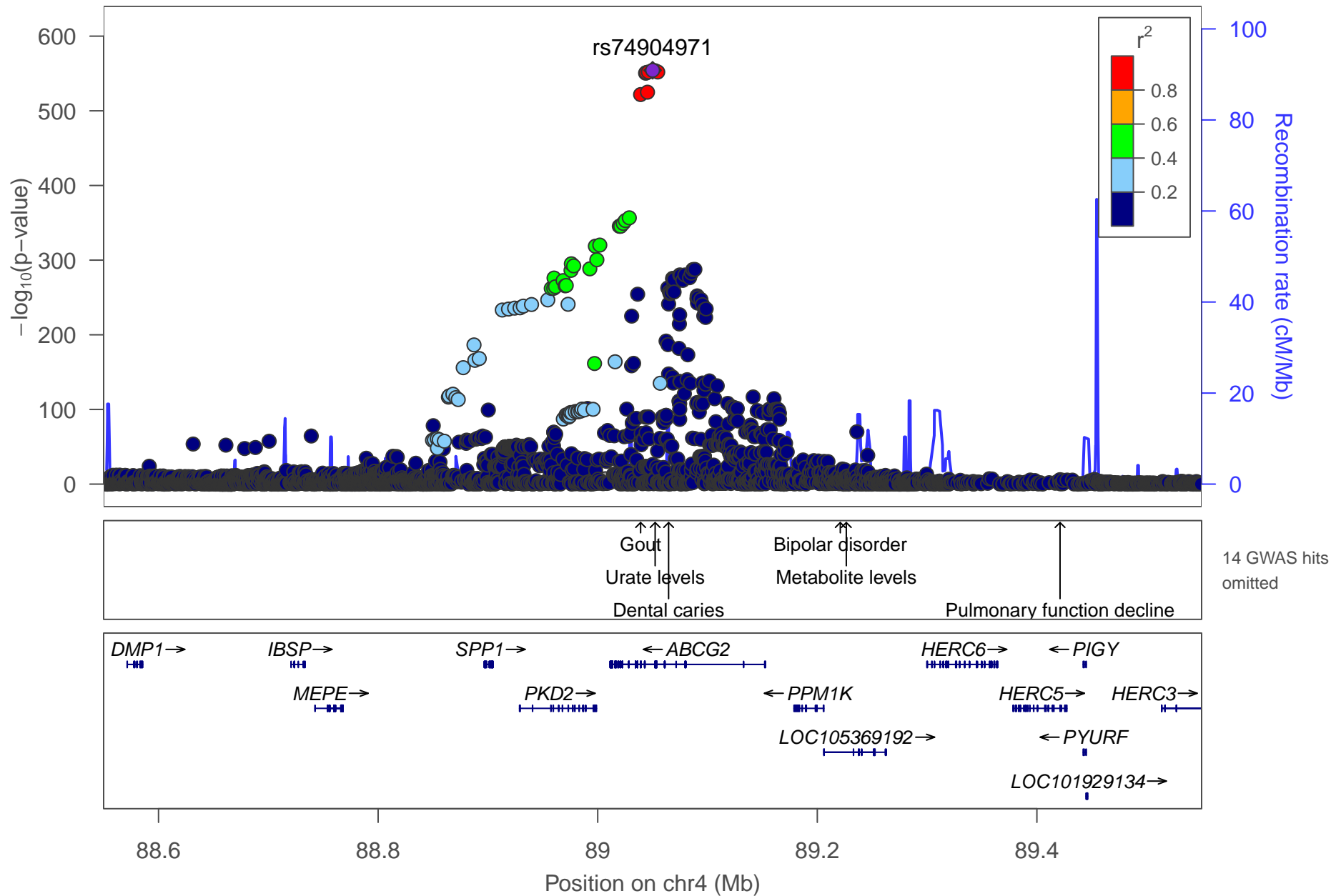


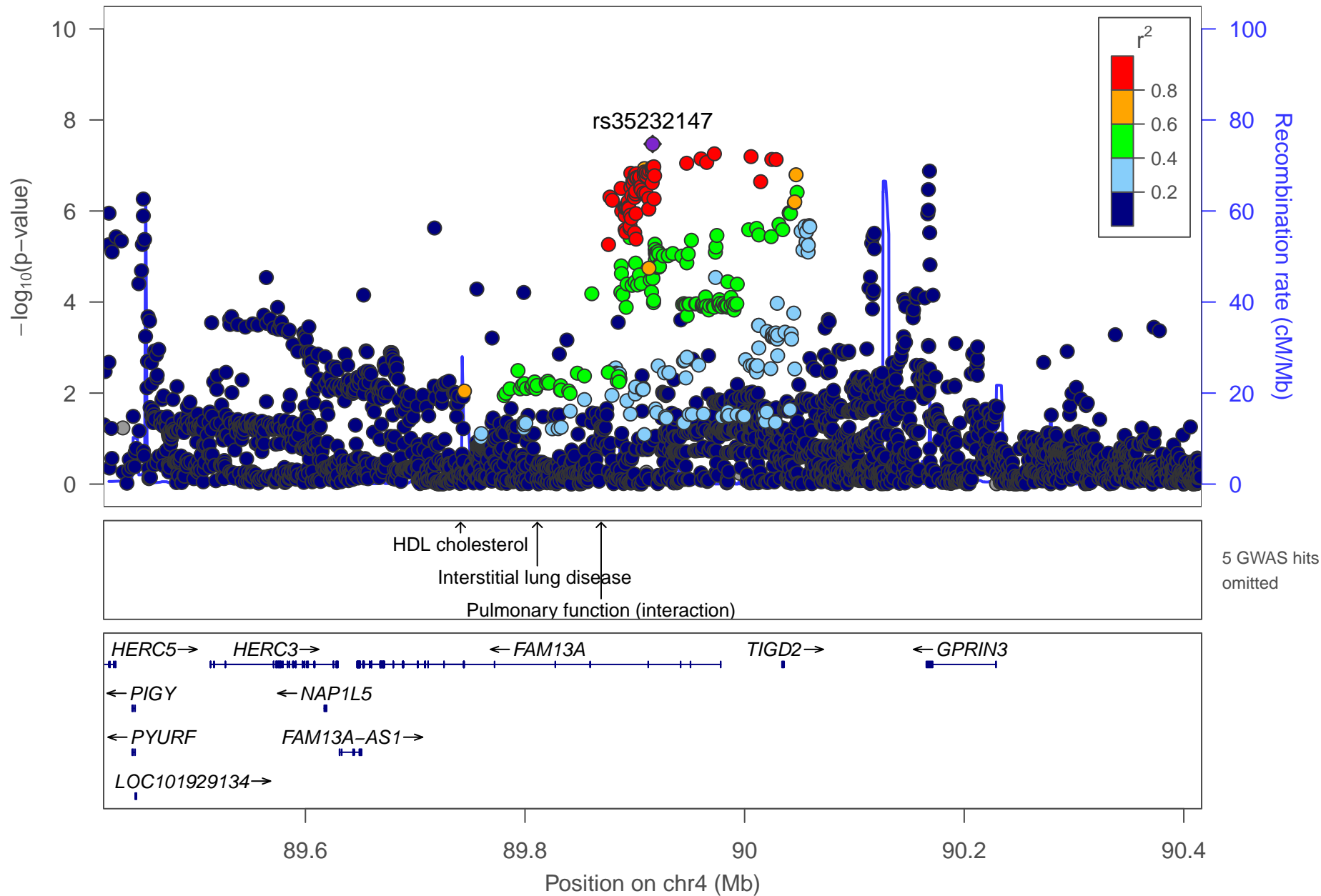
39 39.2 39.4 39.6 39.8

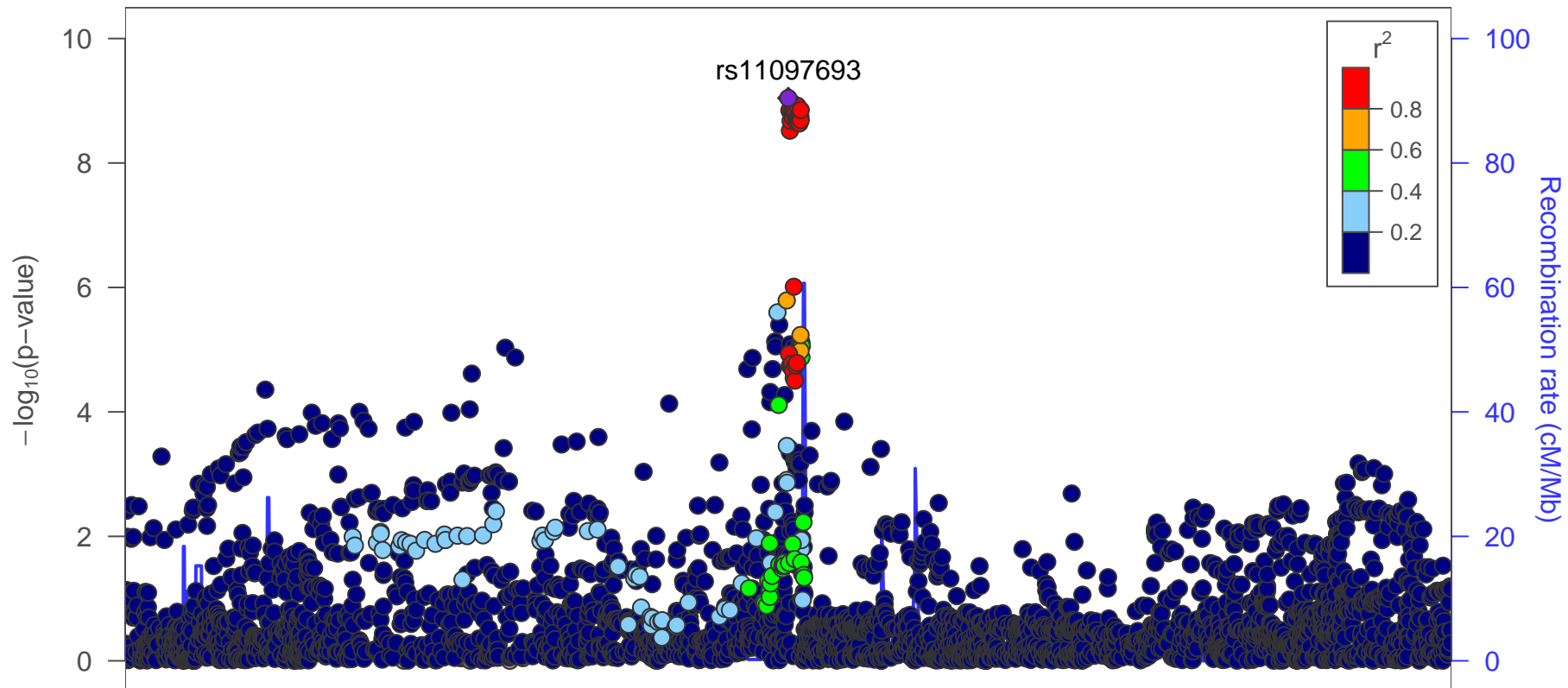
Position on chr4 (Mb)



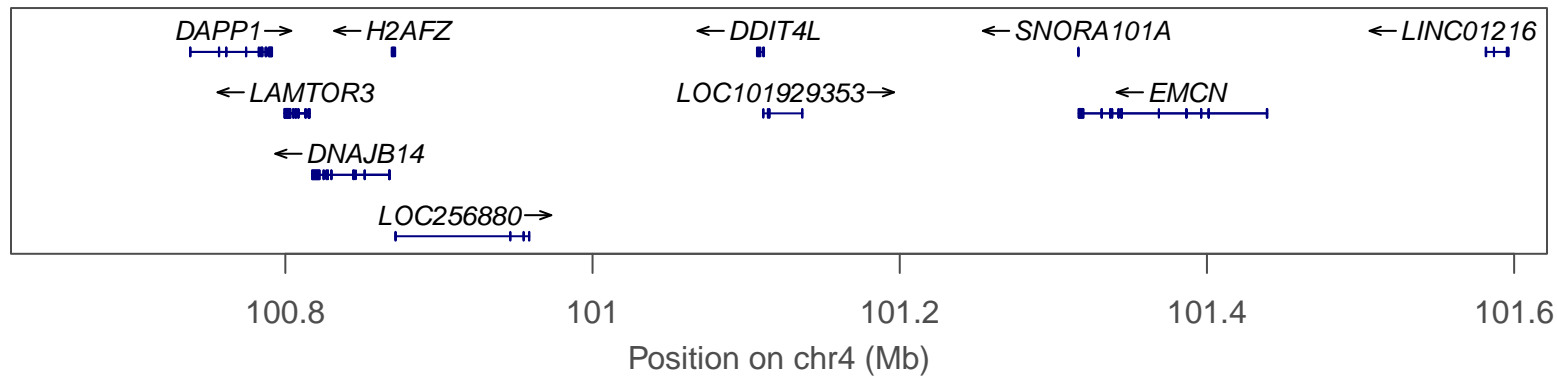


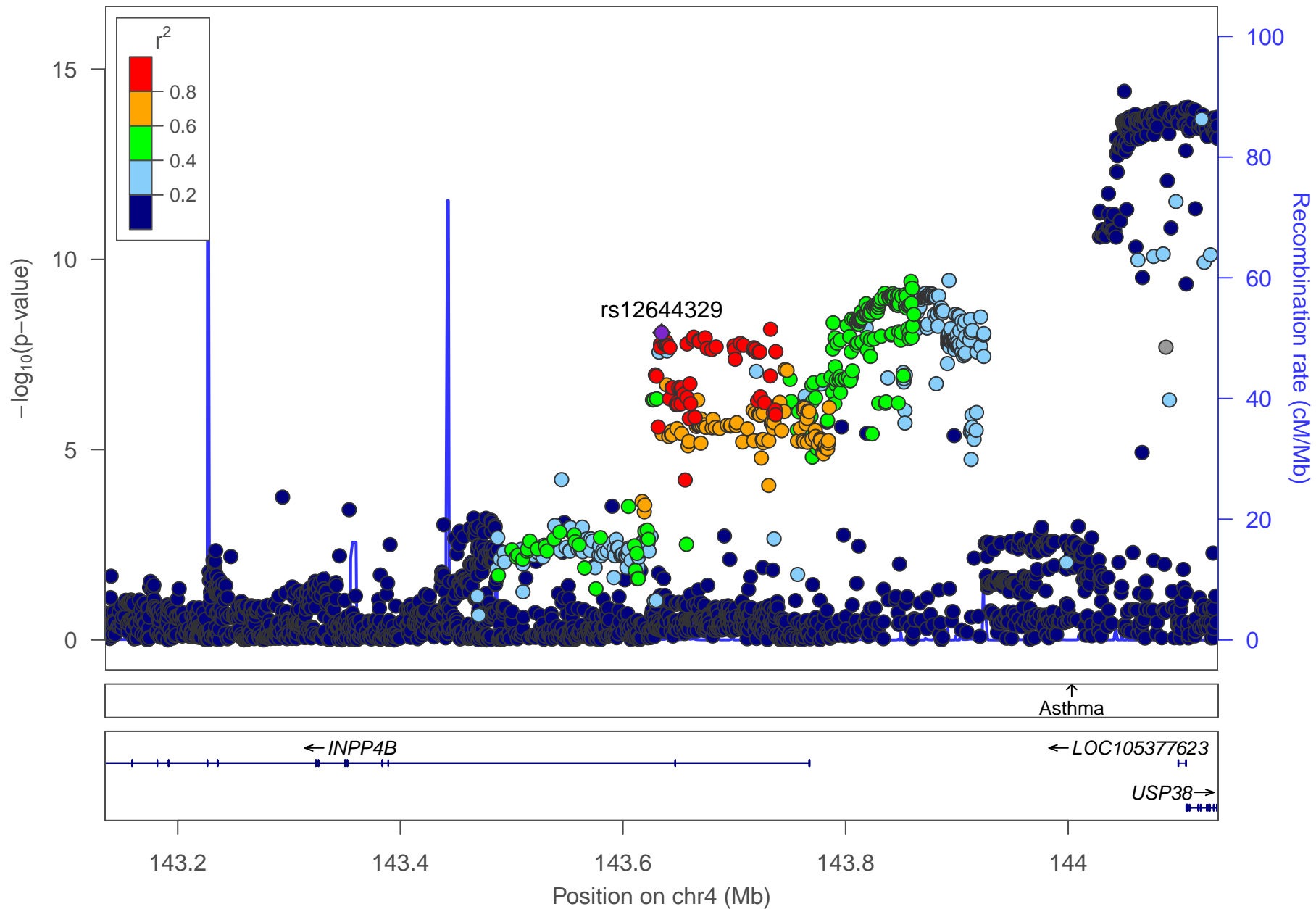


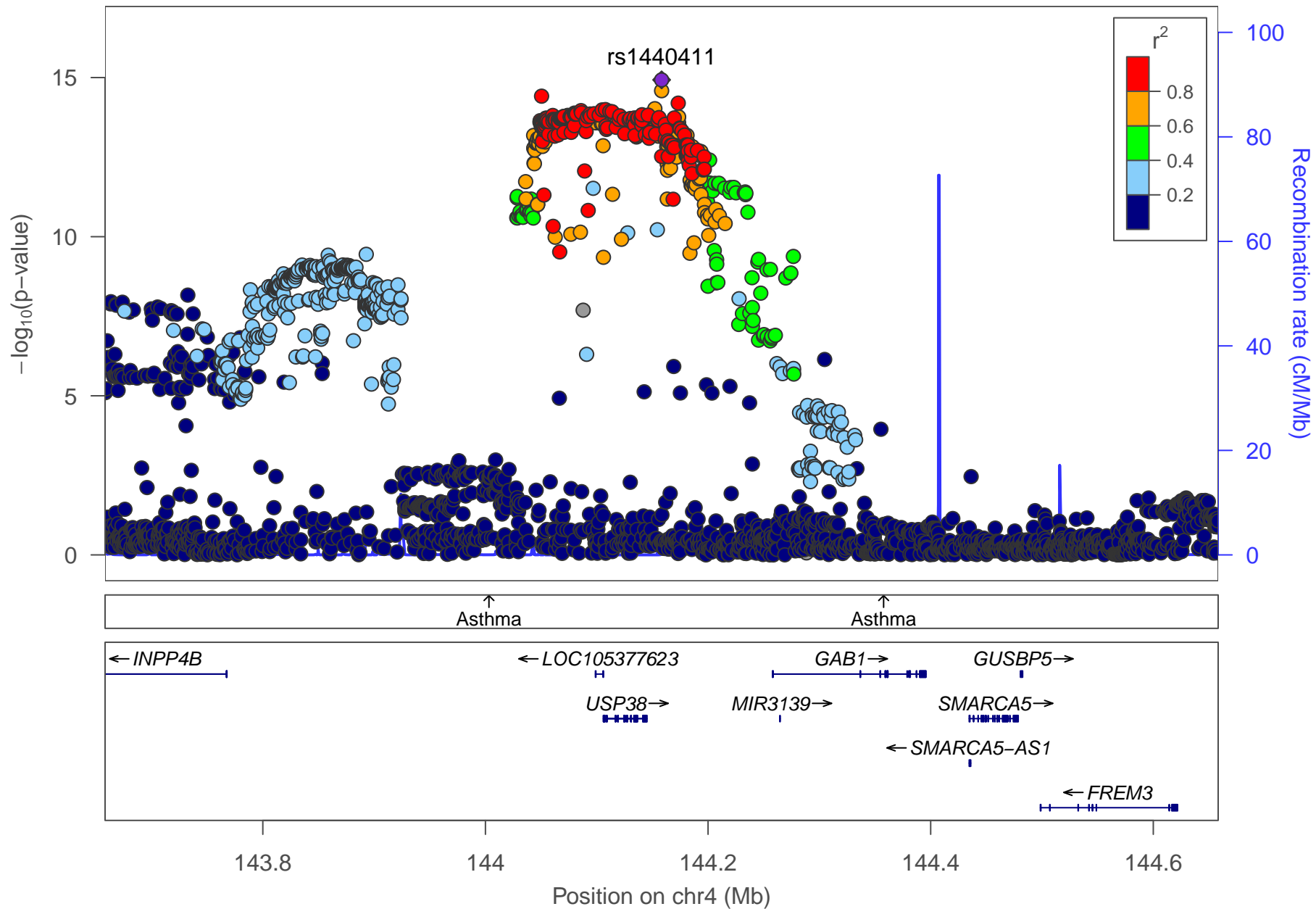


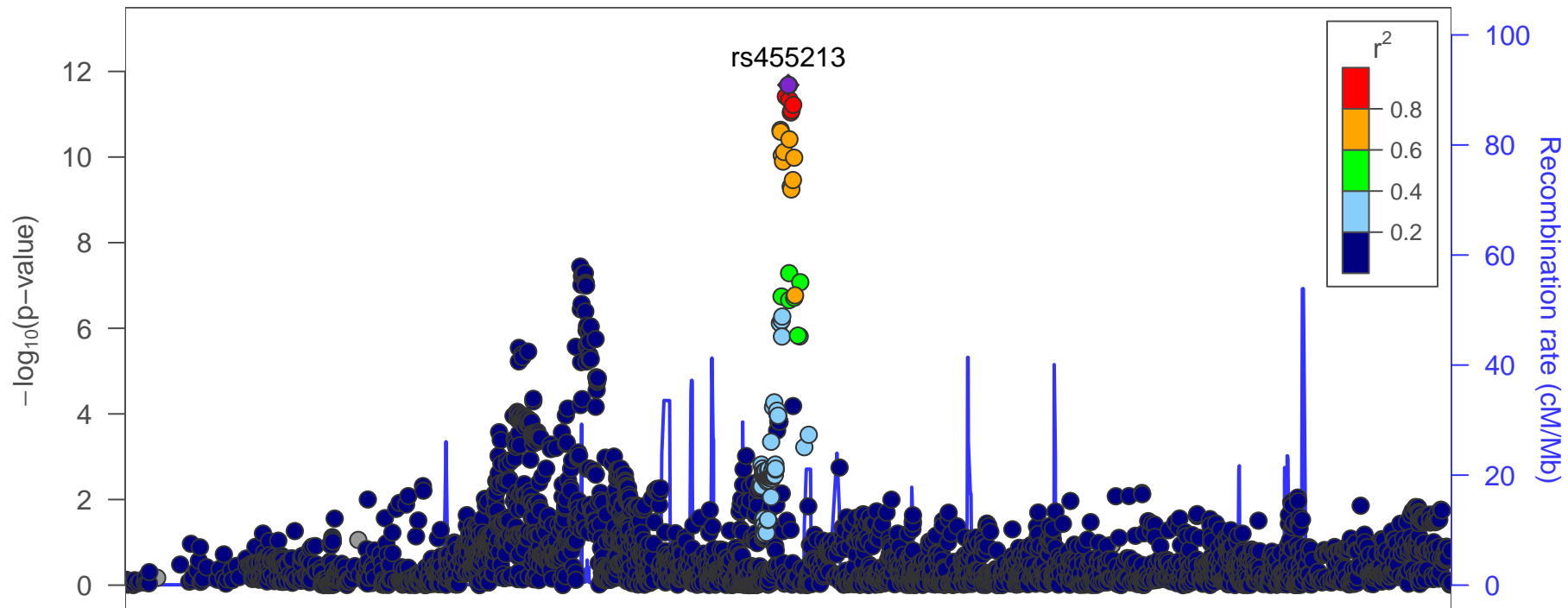


↑
 nse to antipsychotic treatment

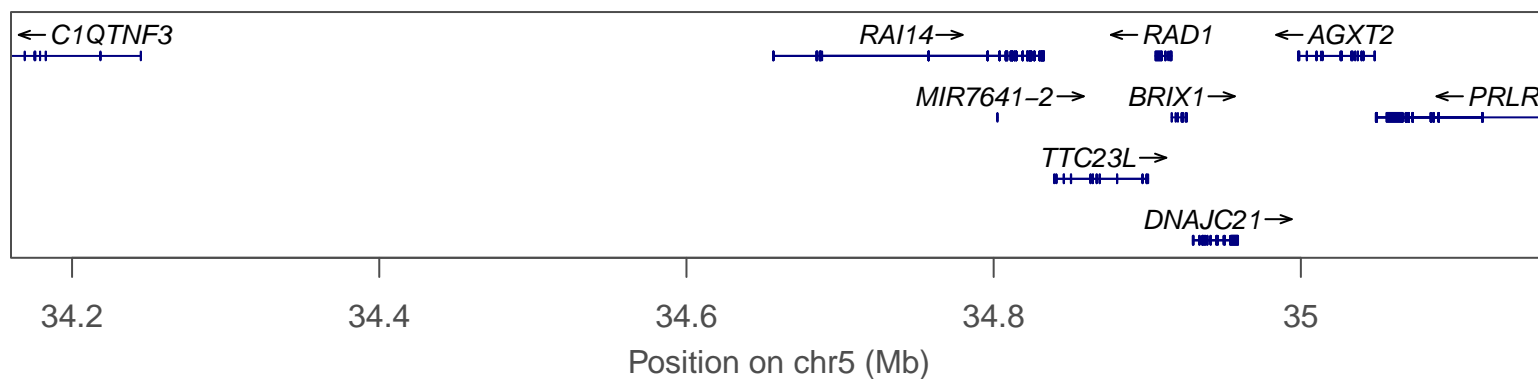


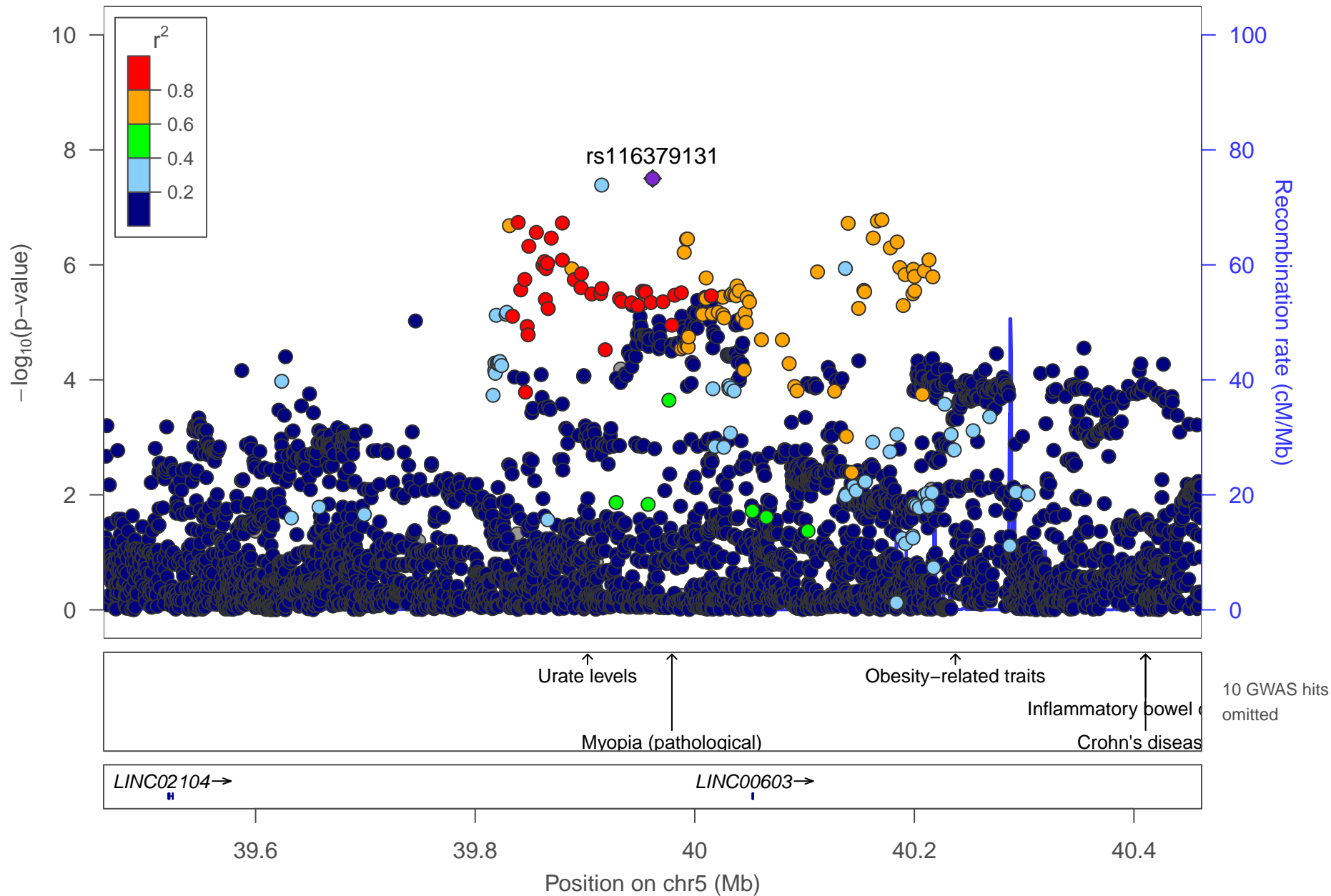


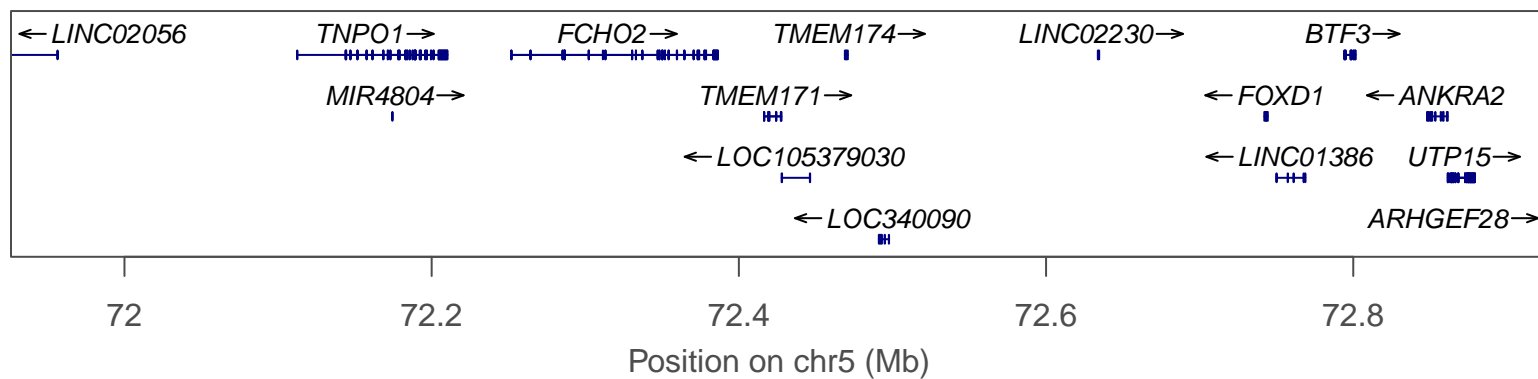
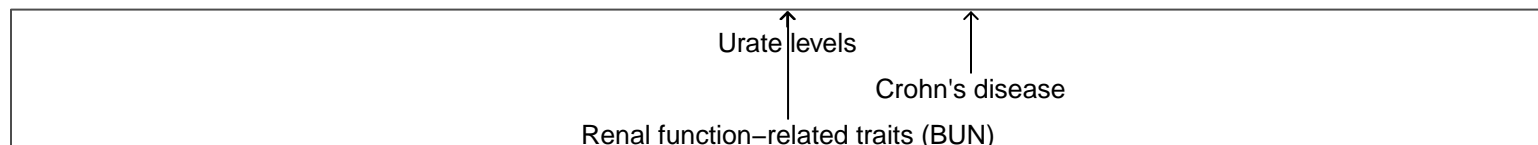
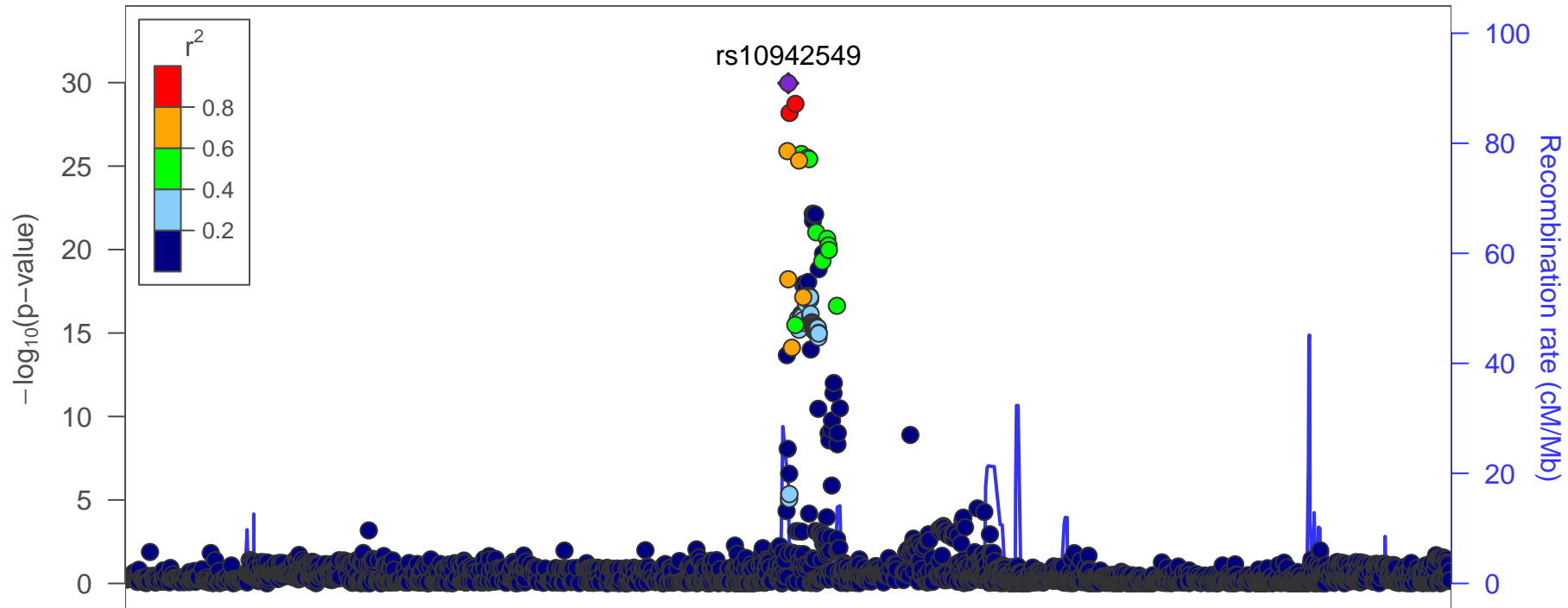


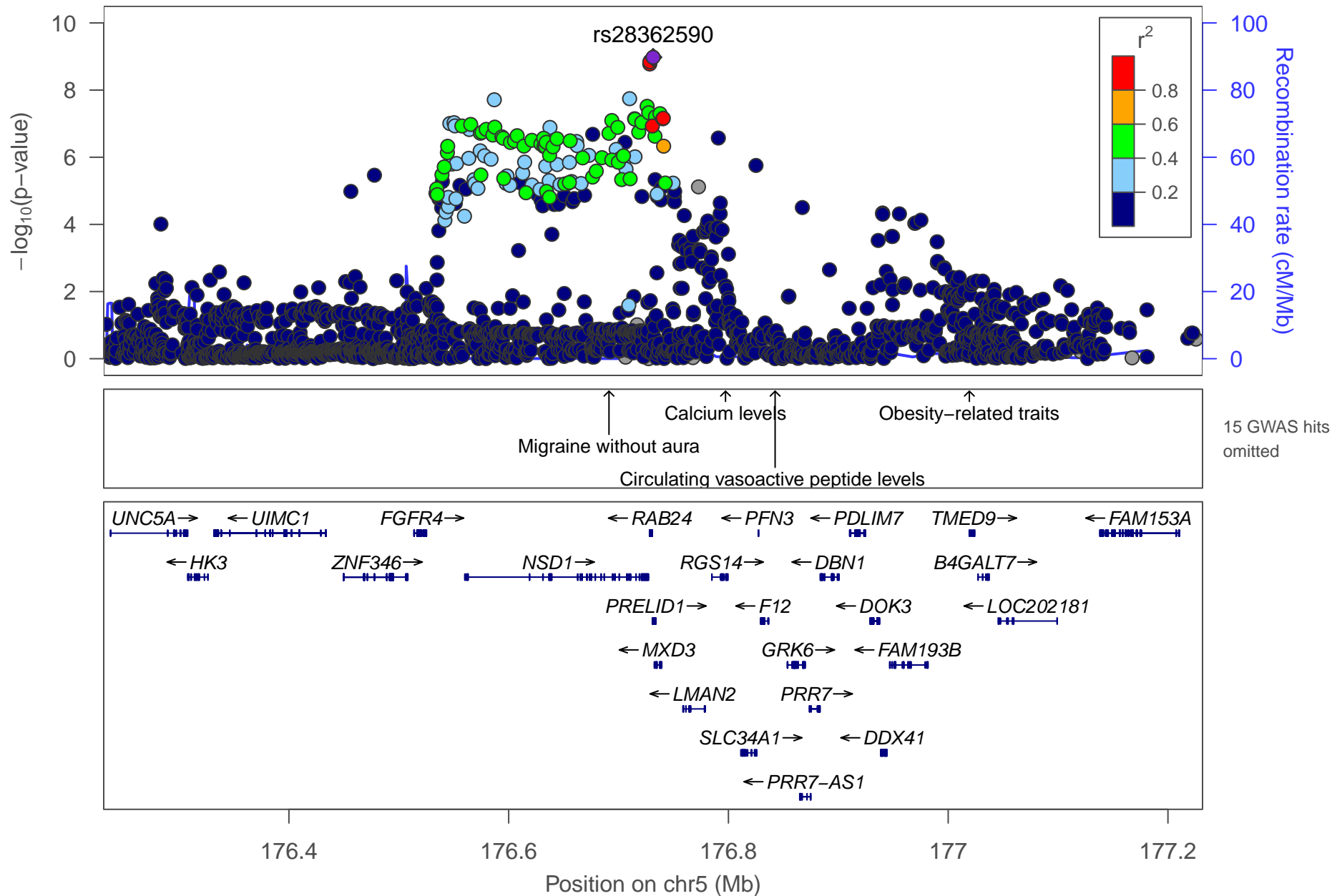


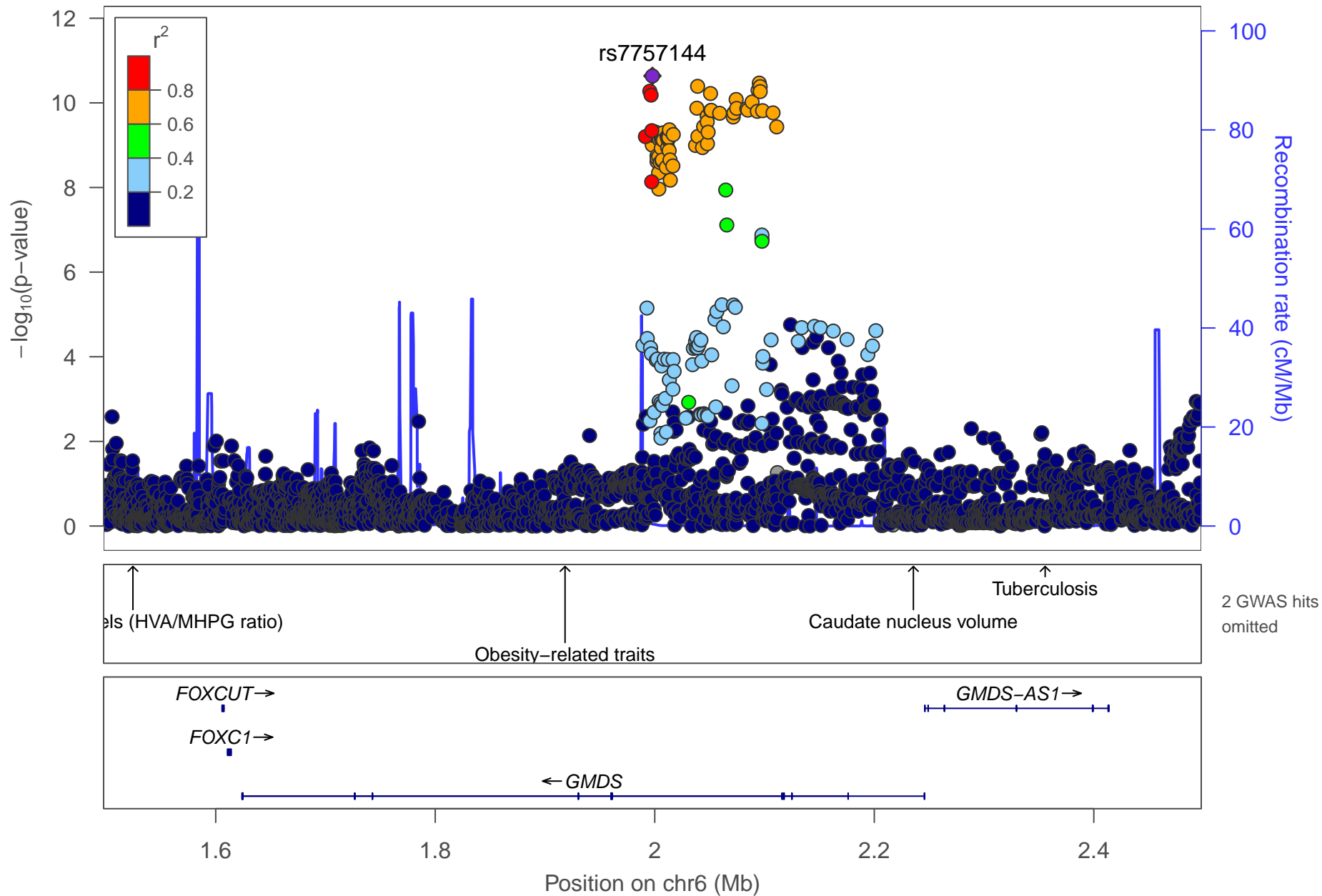
Serum dimethylarginine levels (asymr) 4 GWAS hits omitted
 Serum dimethylarginine levels (asymmetric/s)
 Serum dimethylarginine levels (symm)

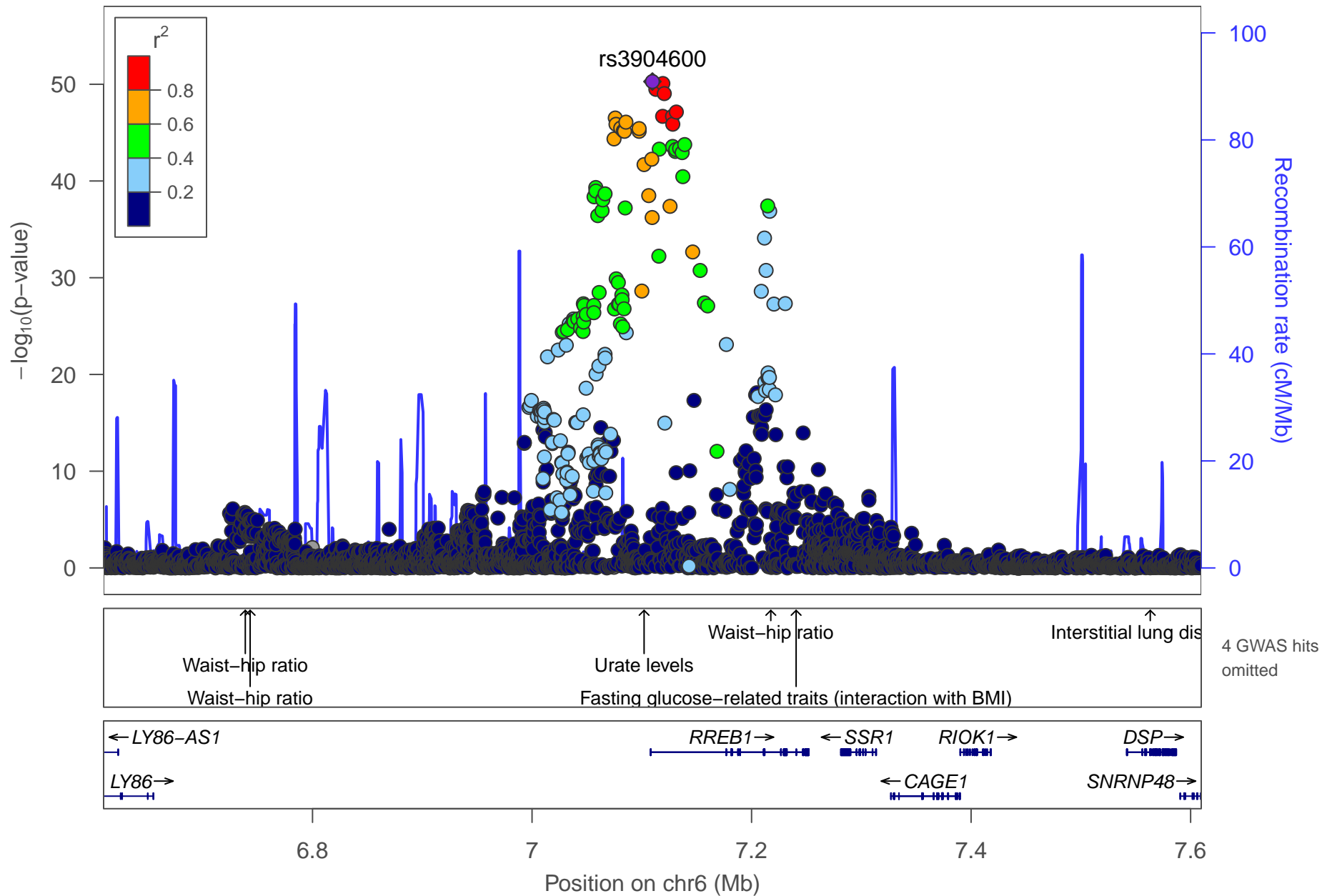


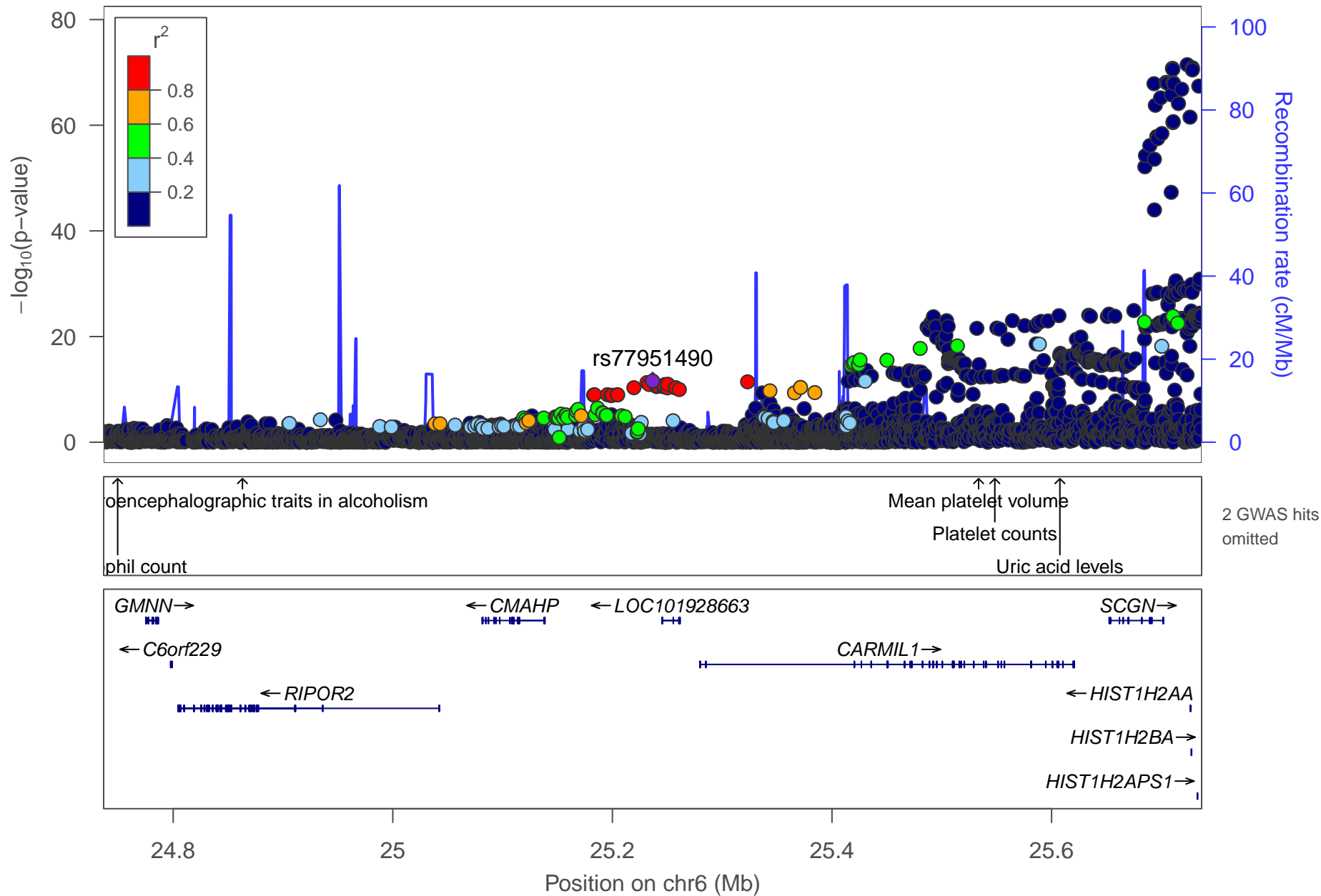


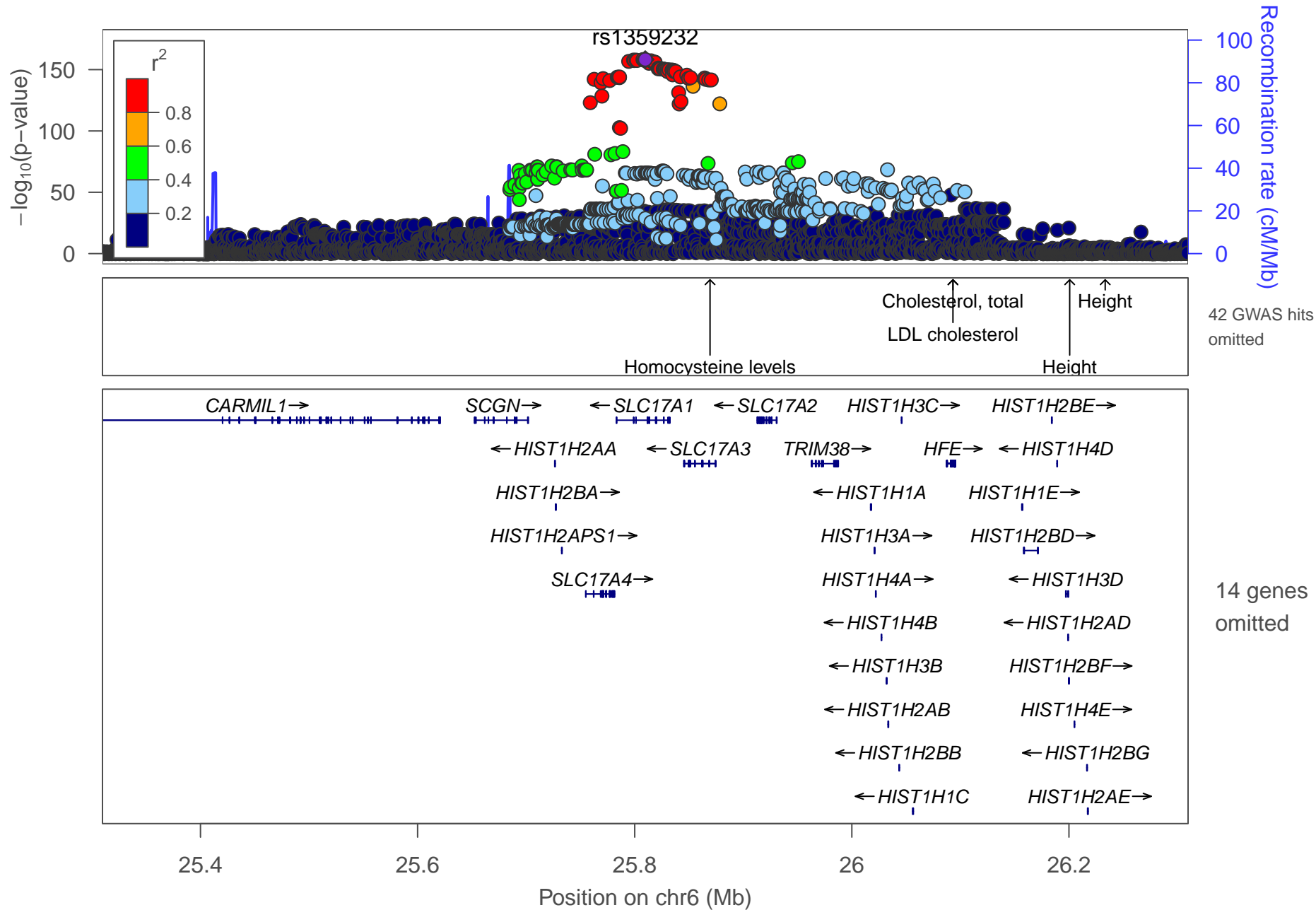


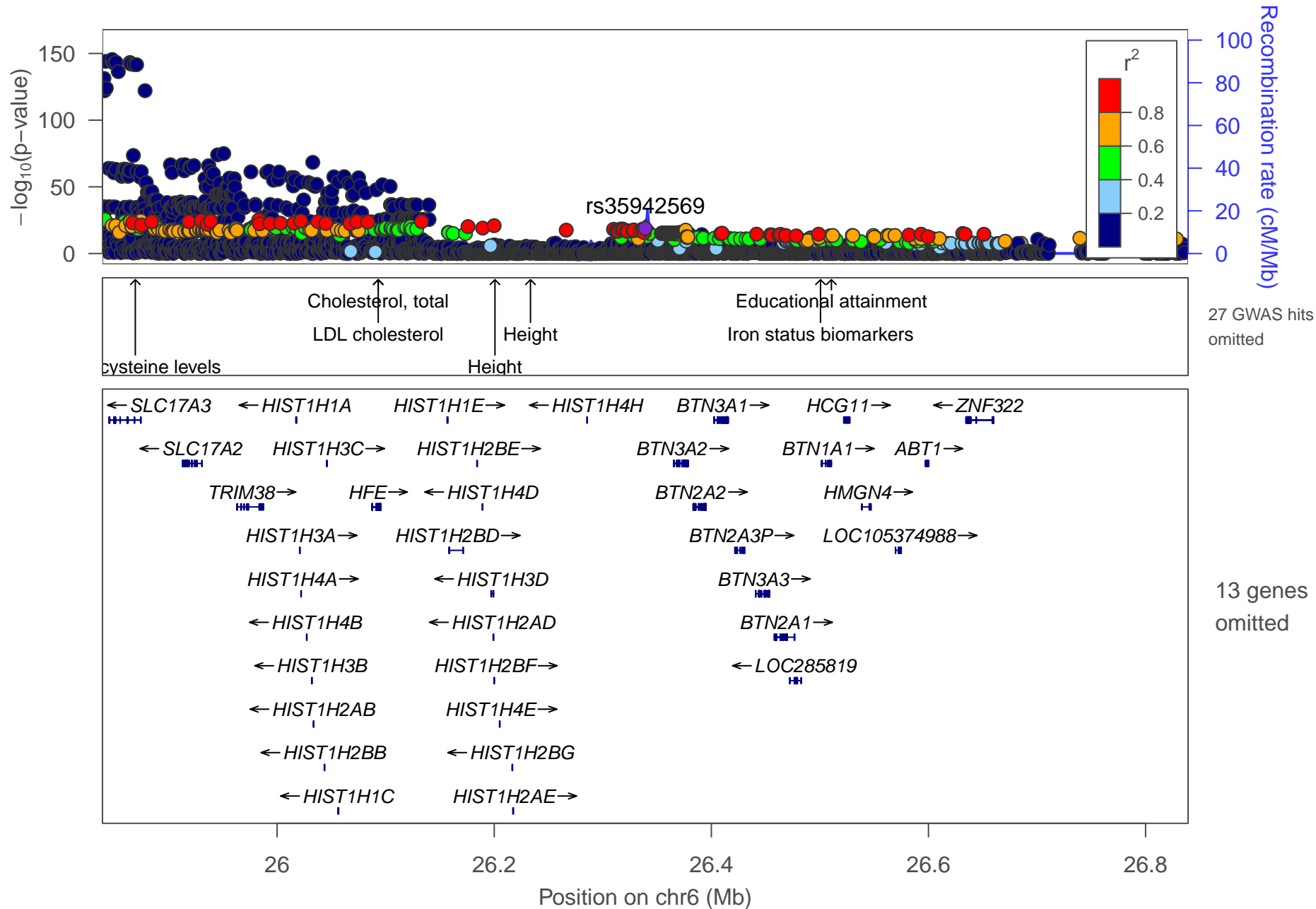


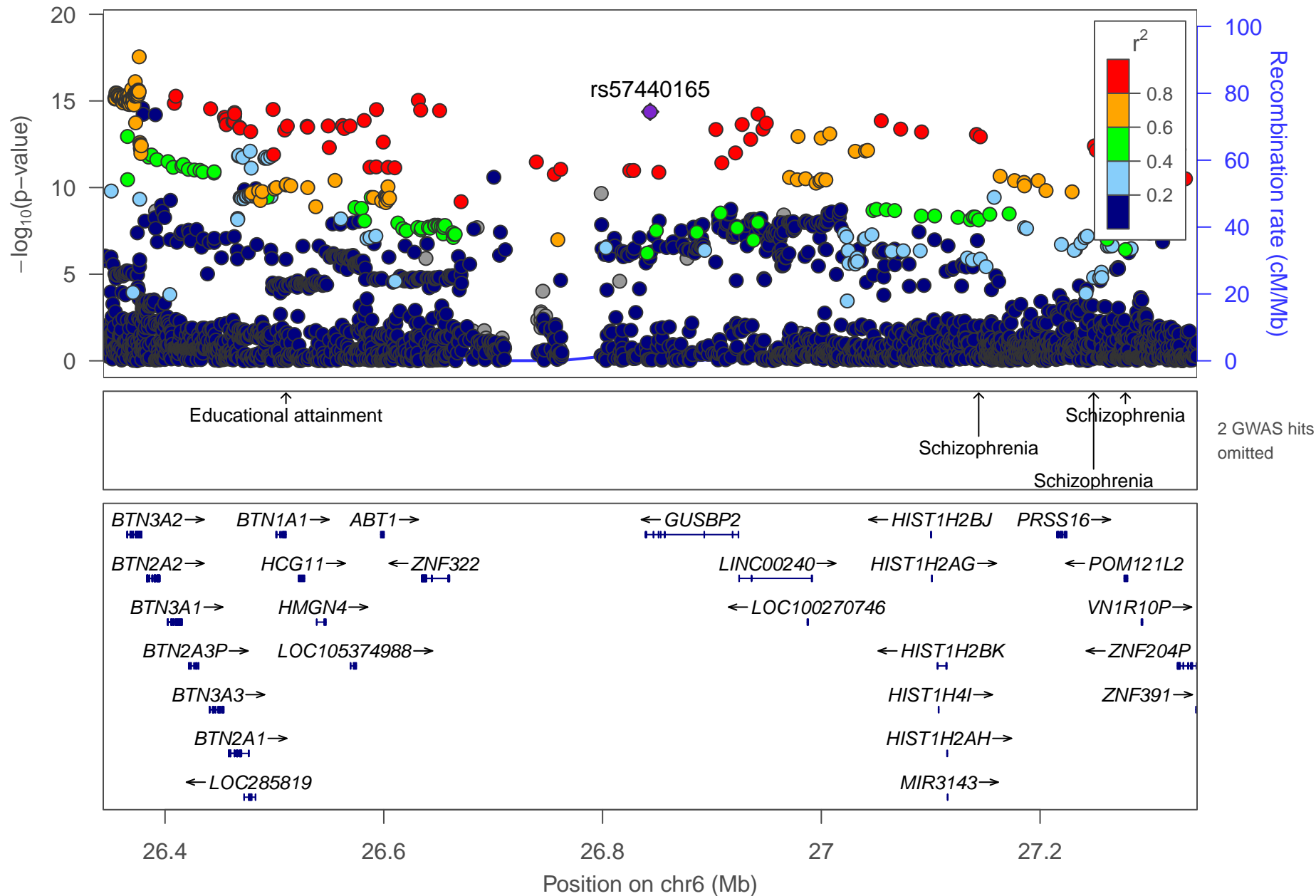


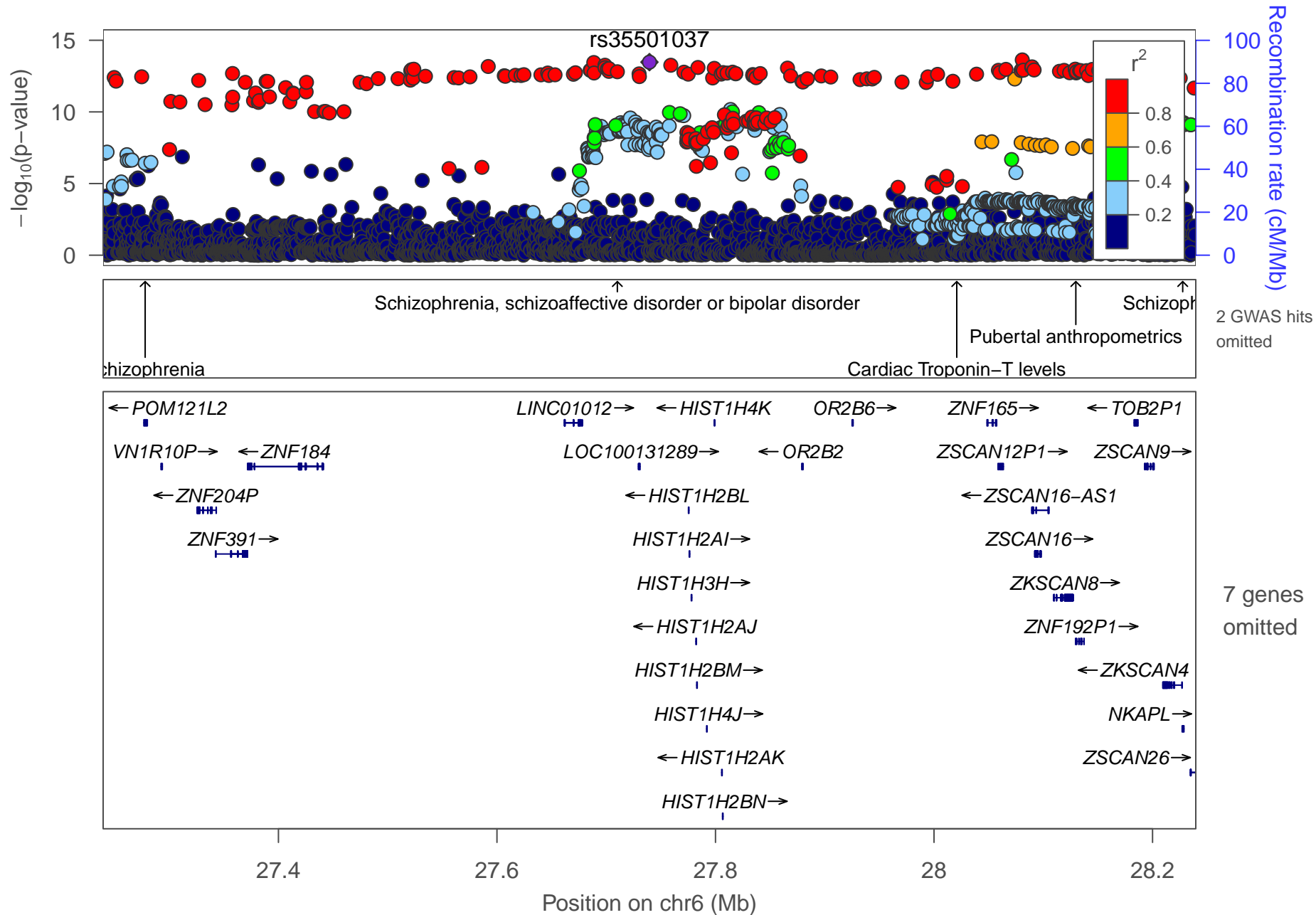


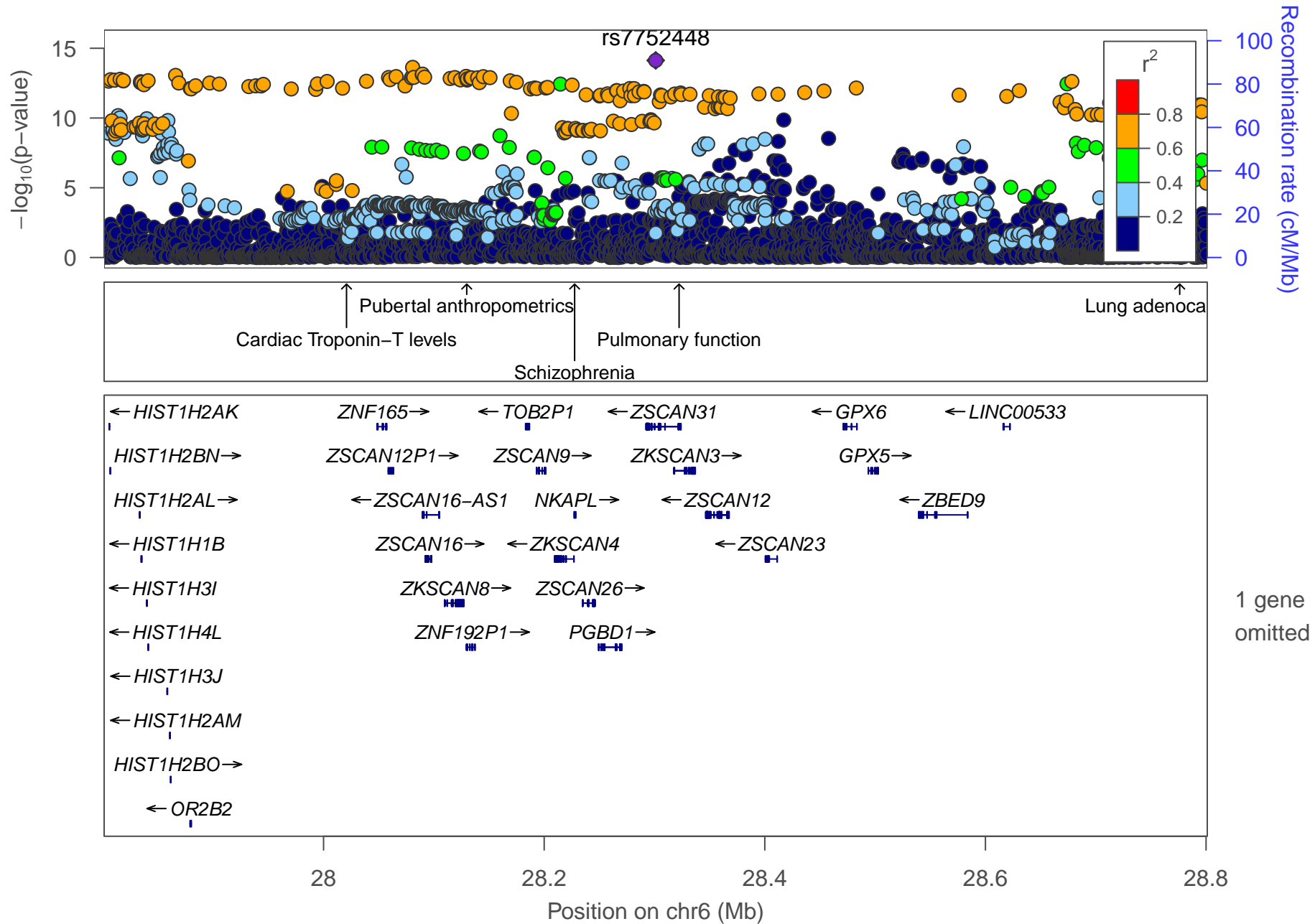


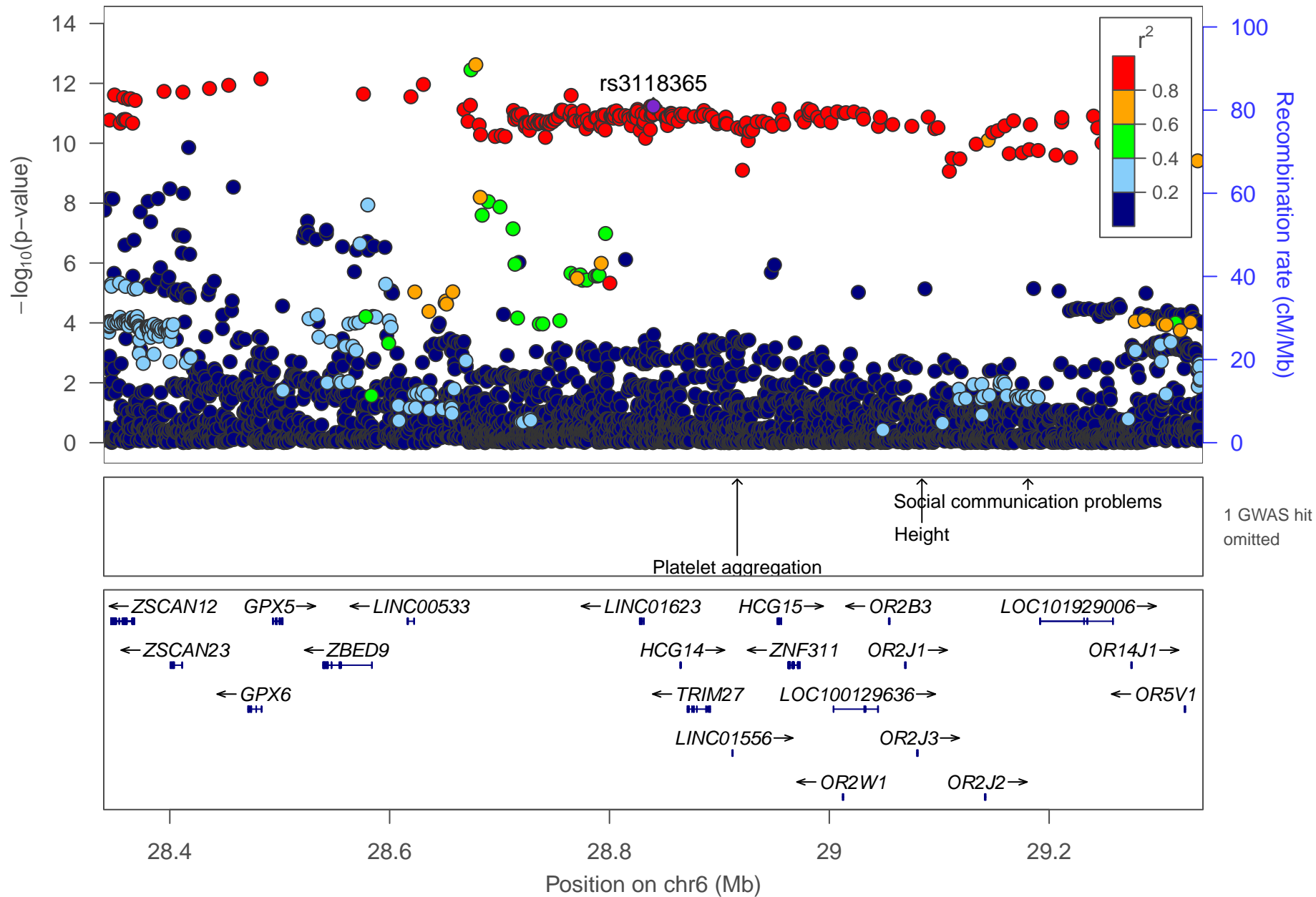


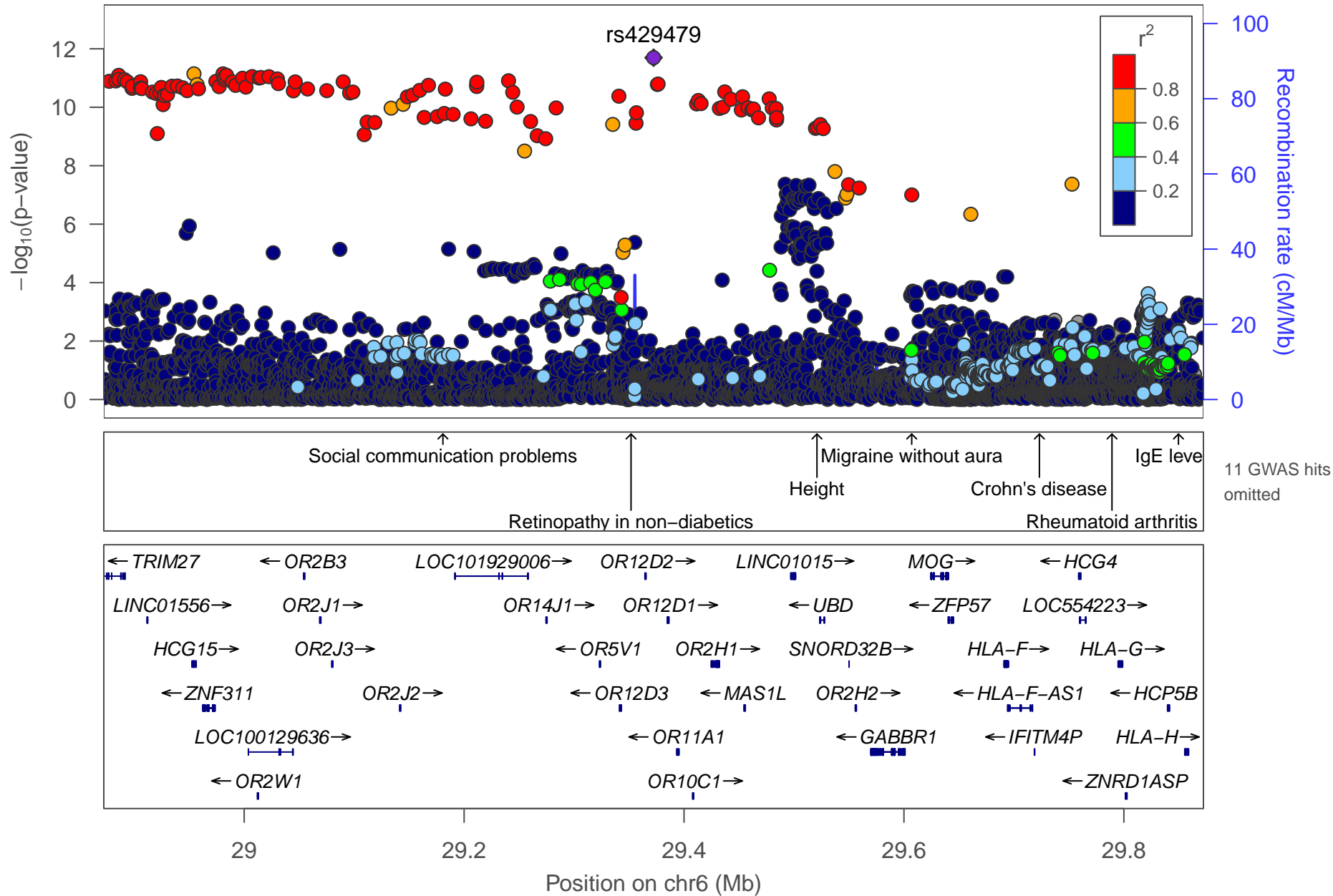


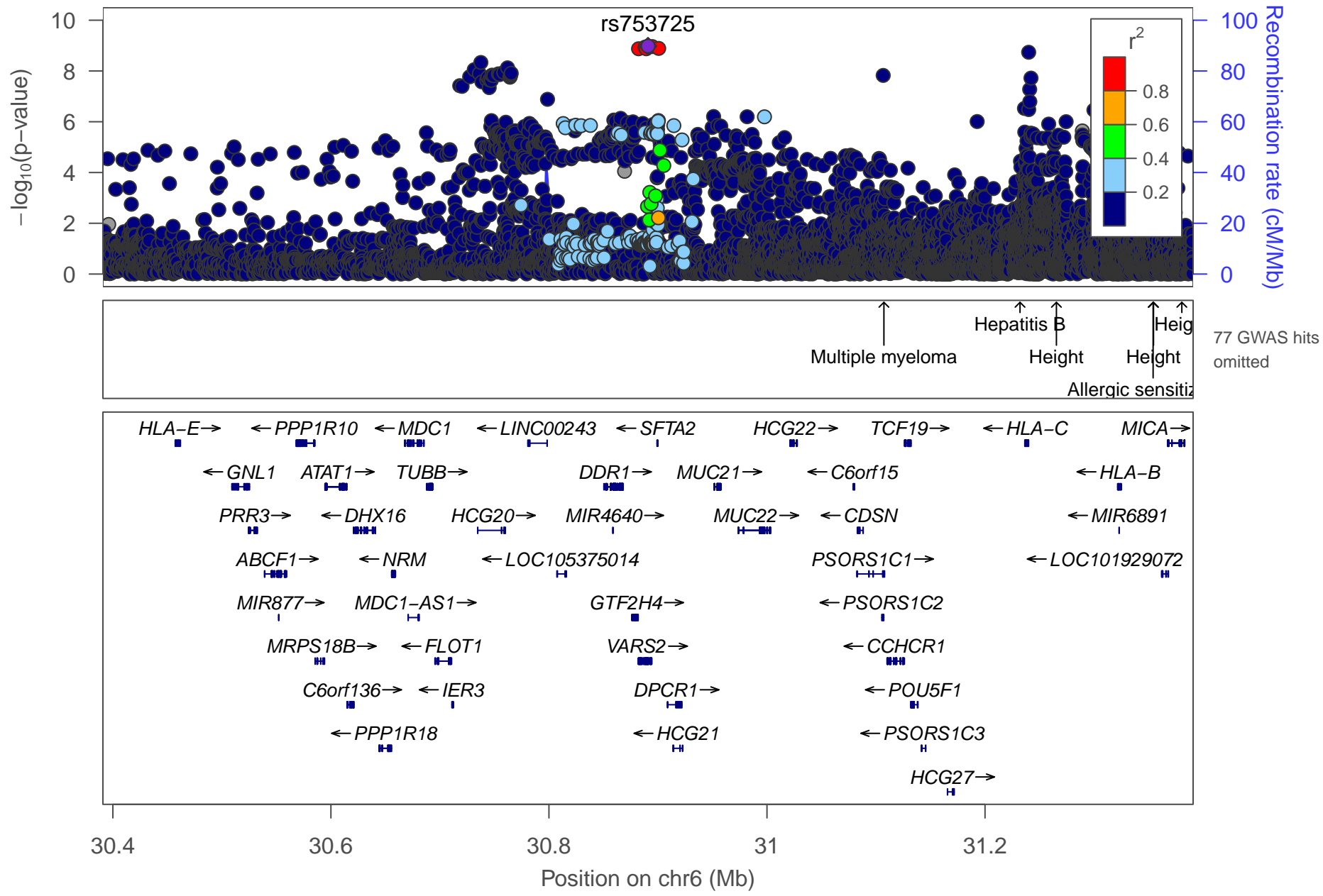


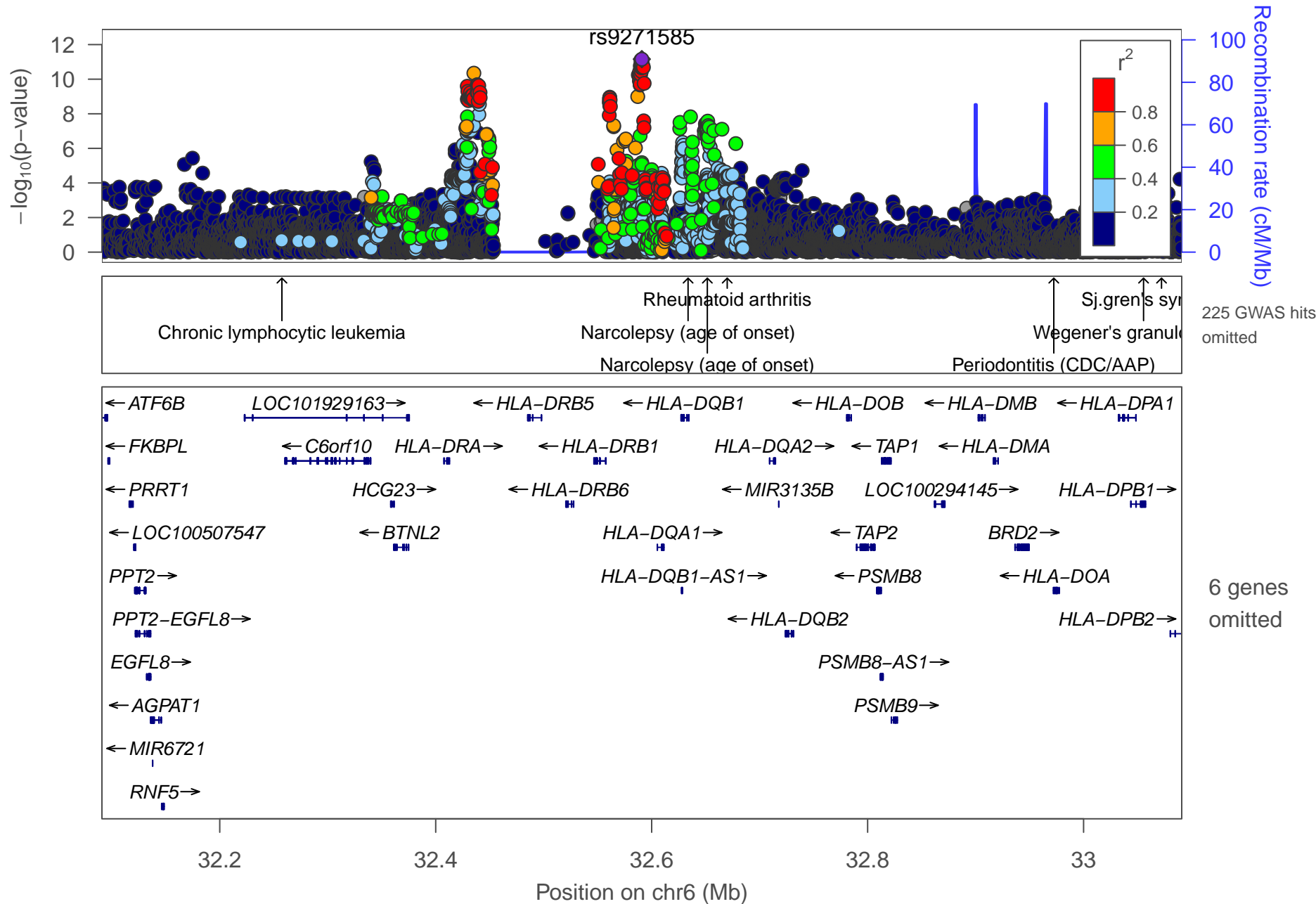


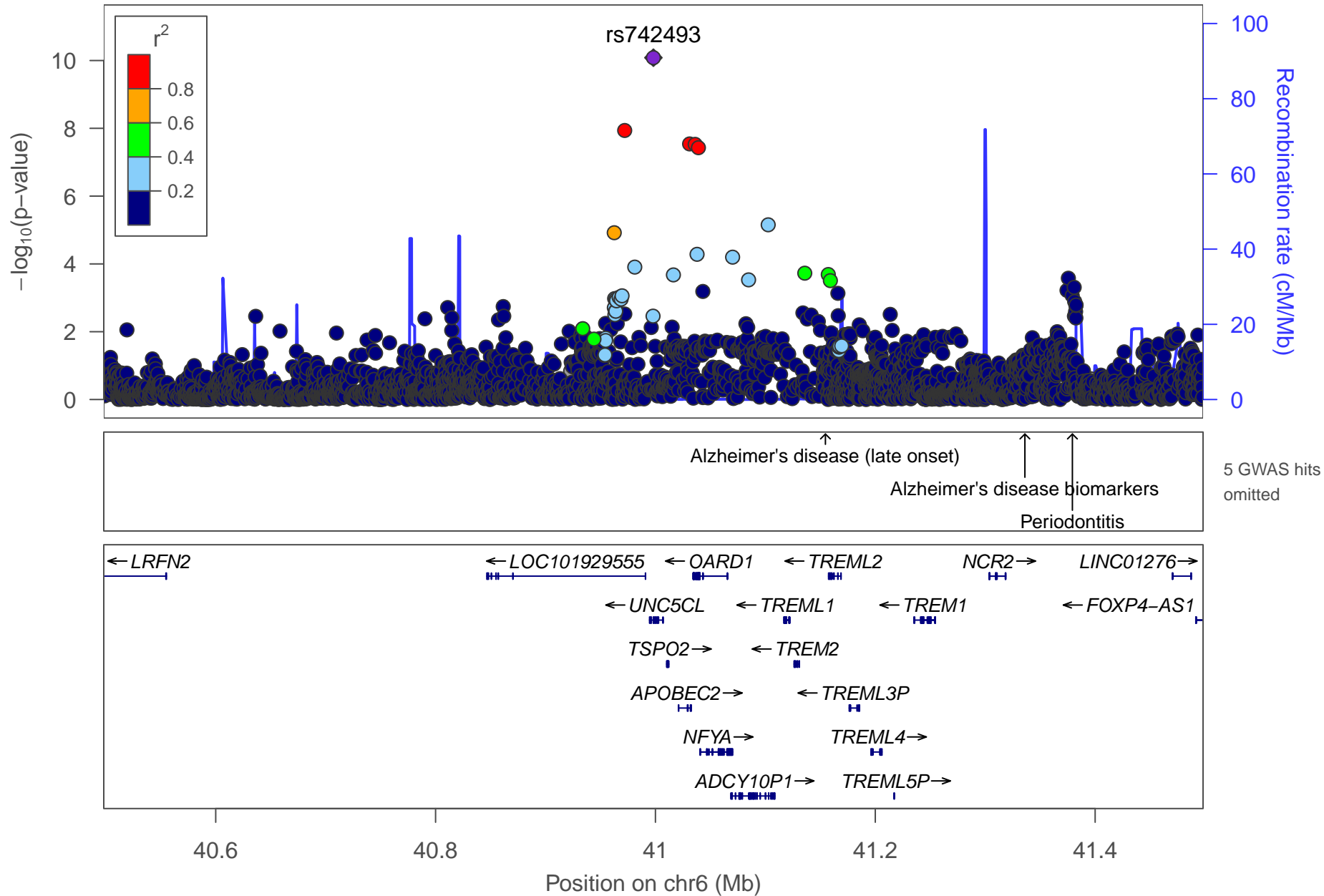


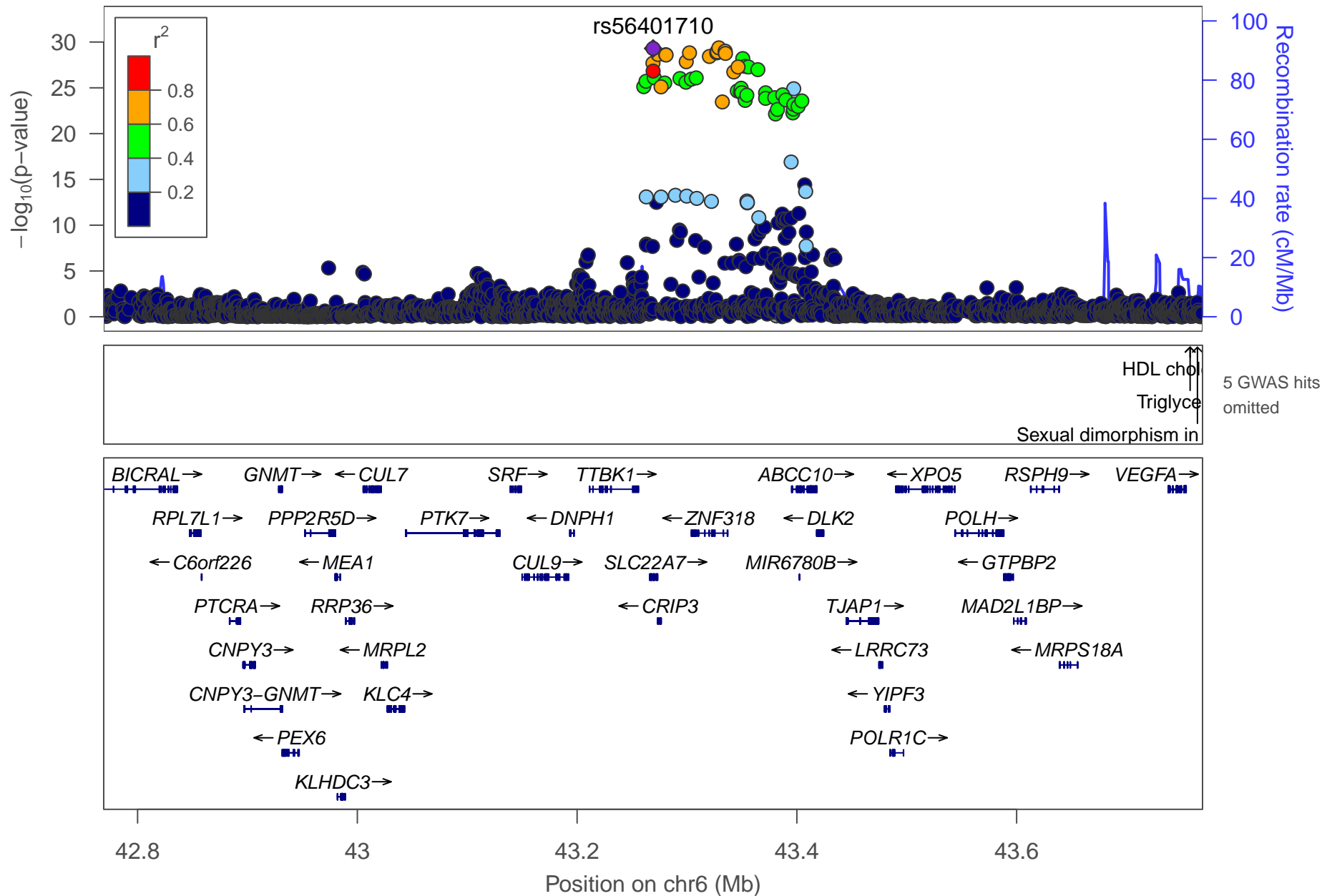


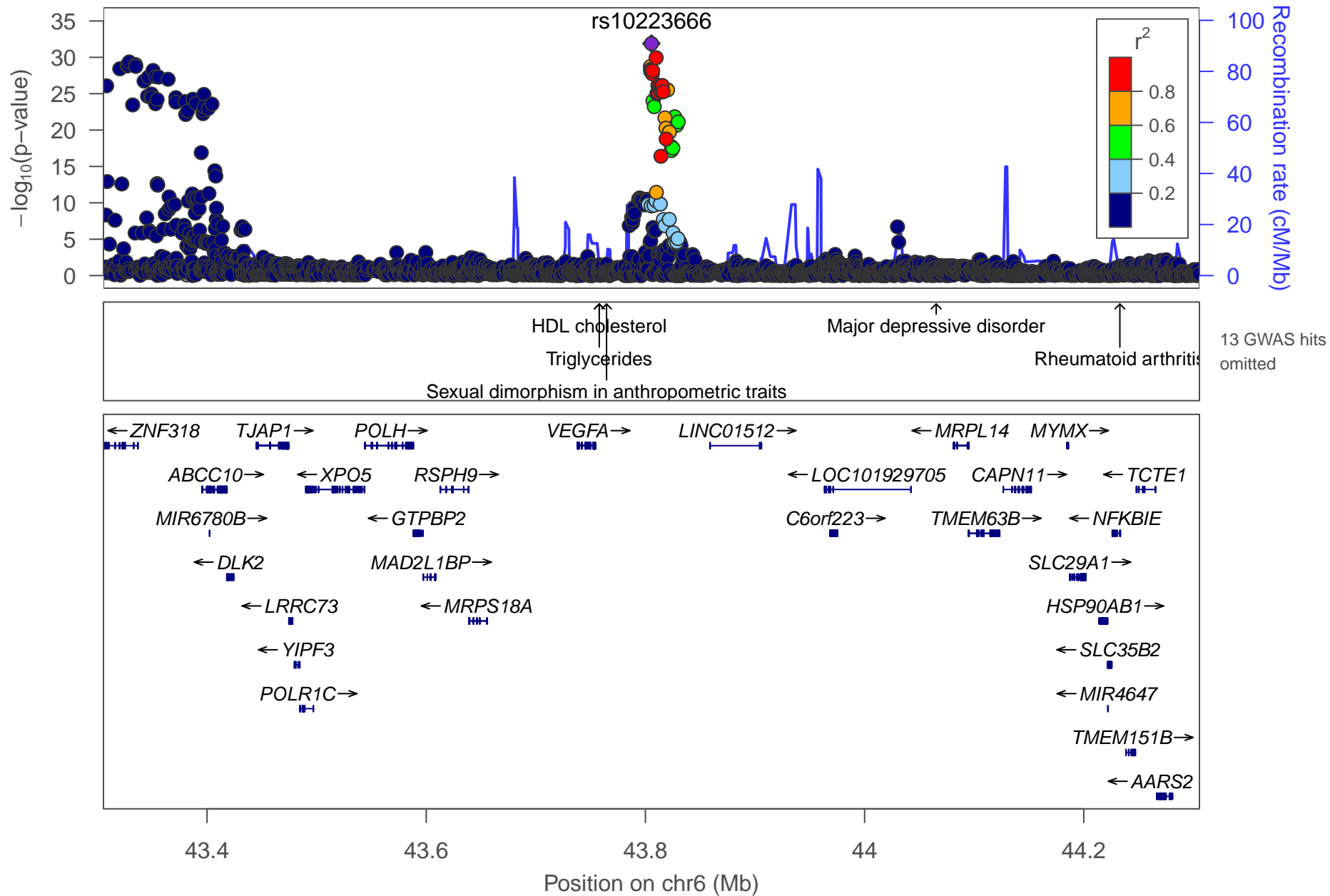


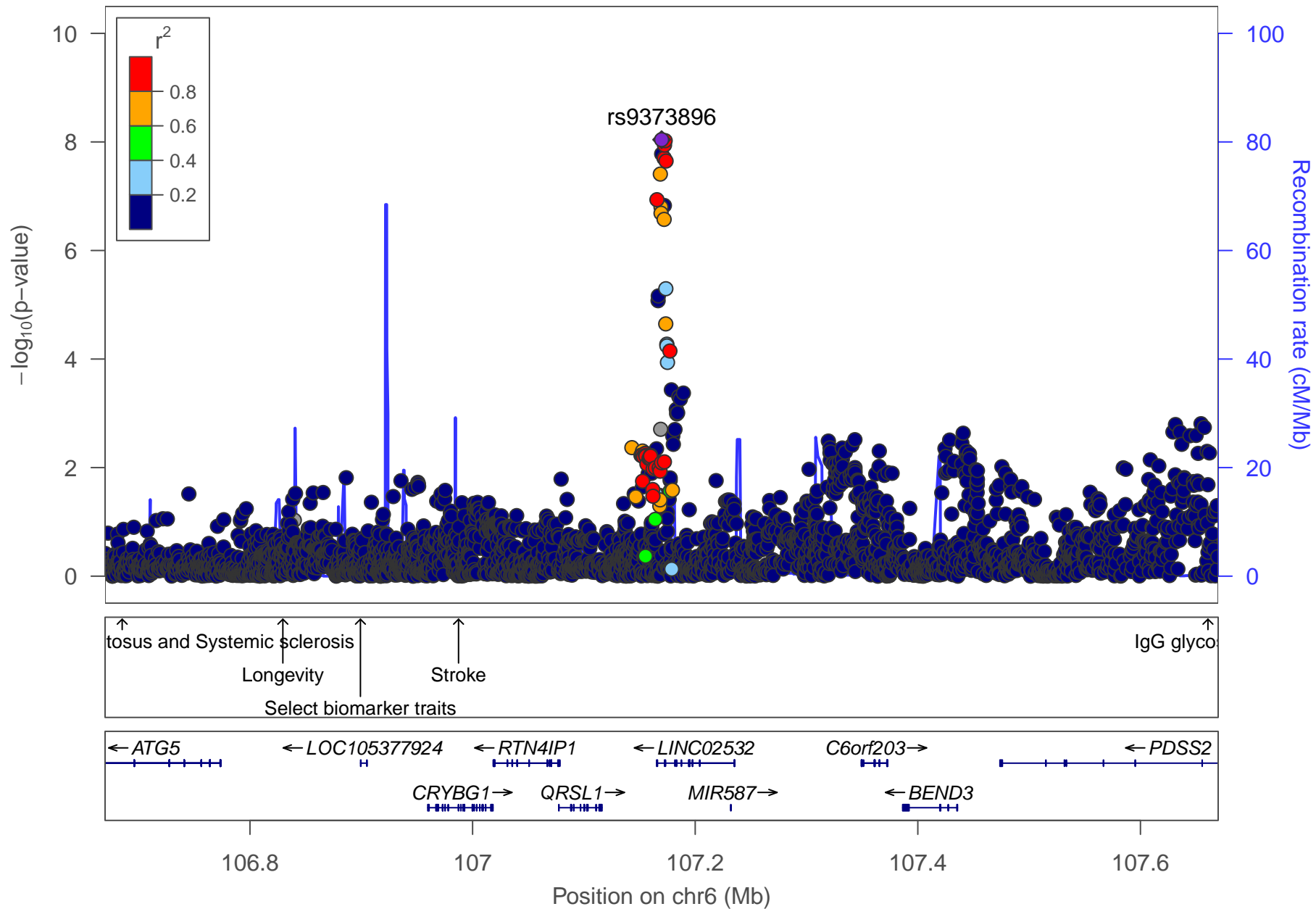


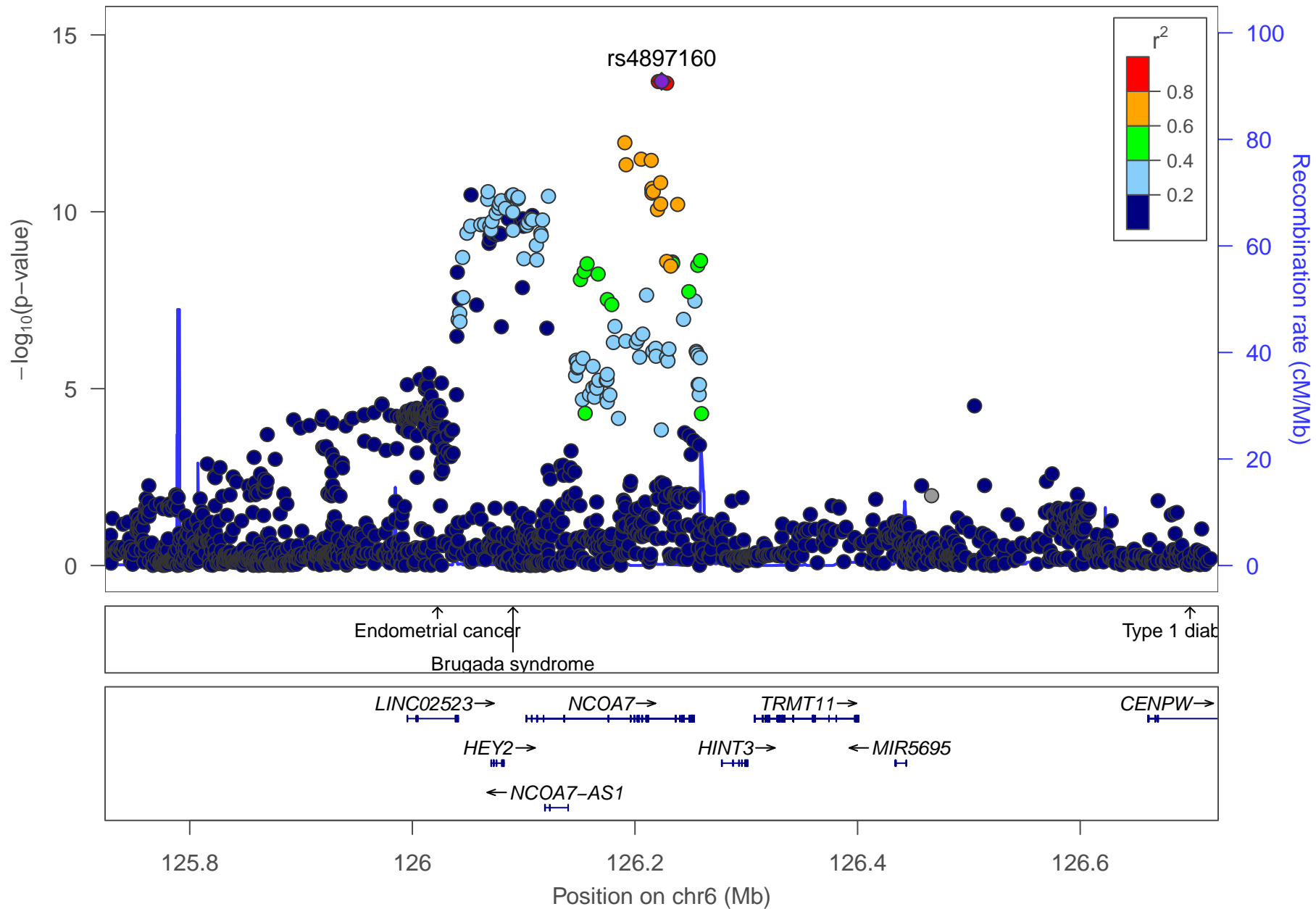


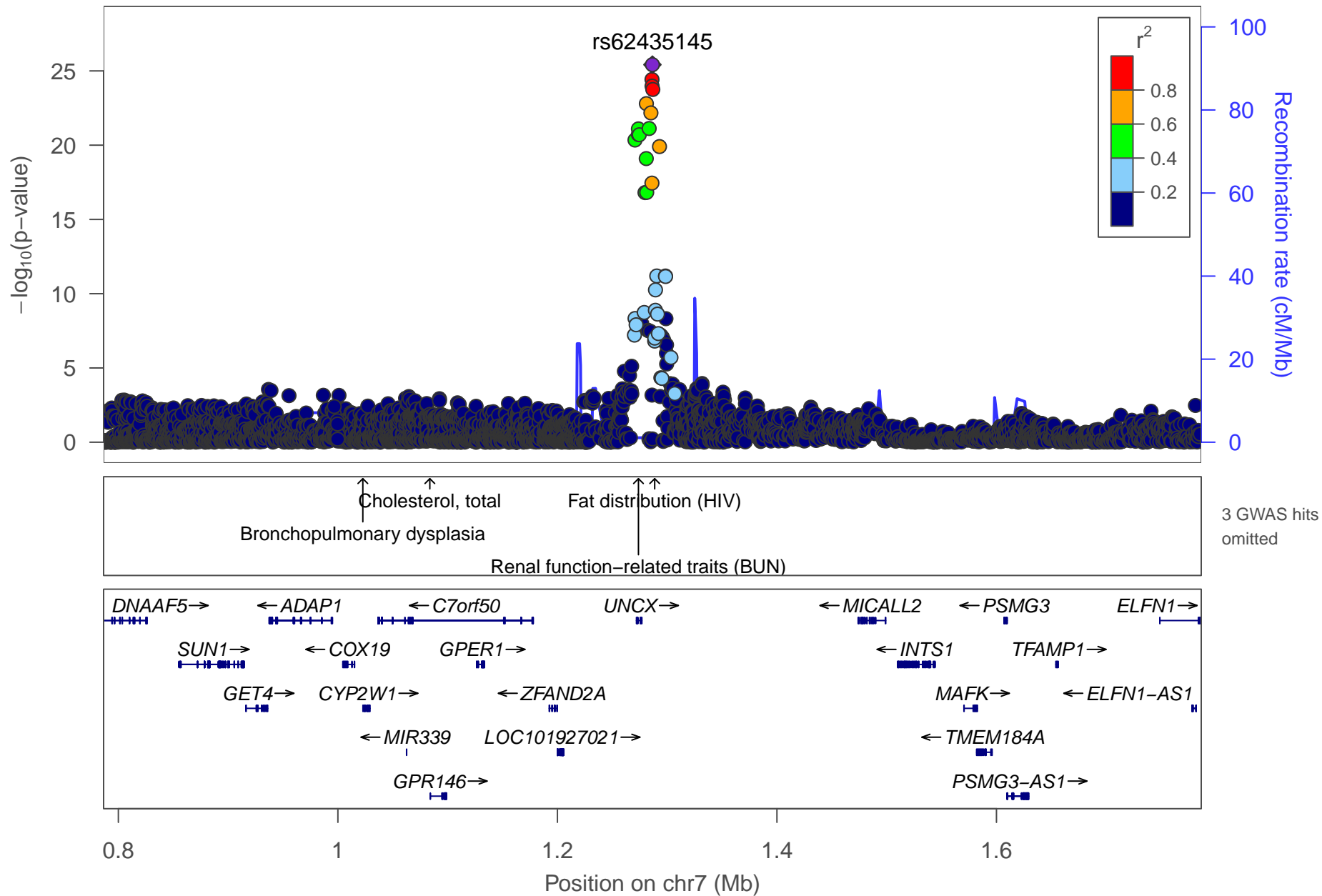


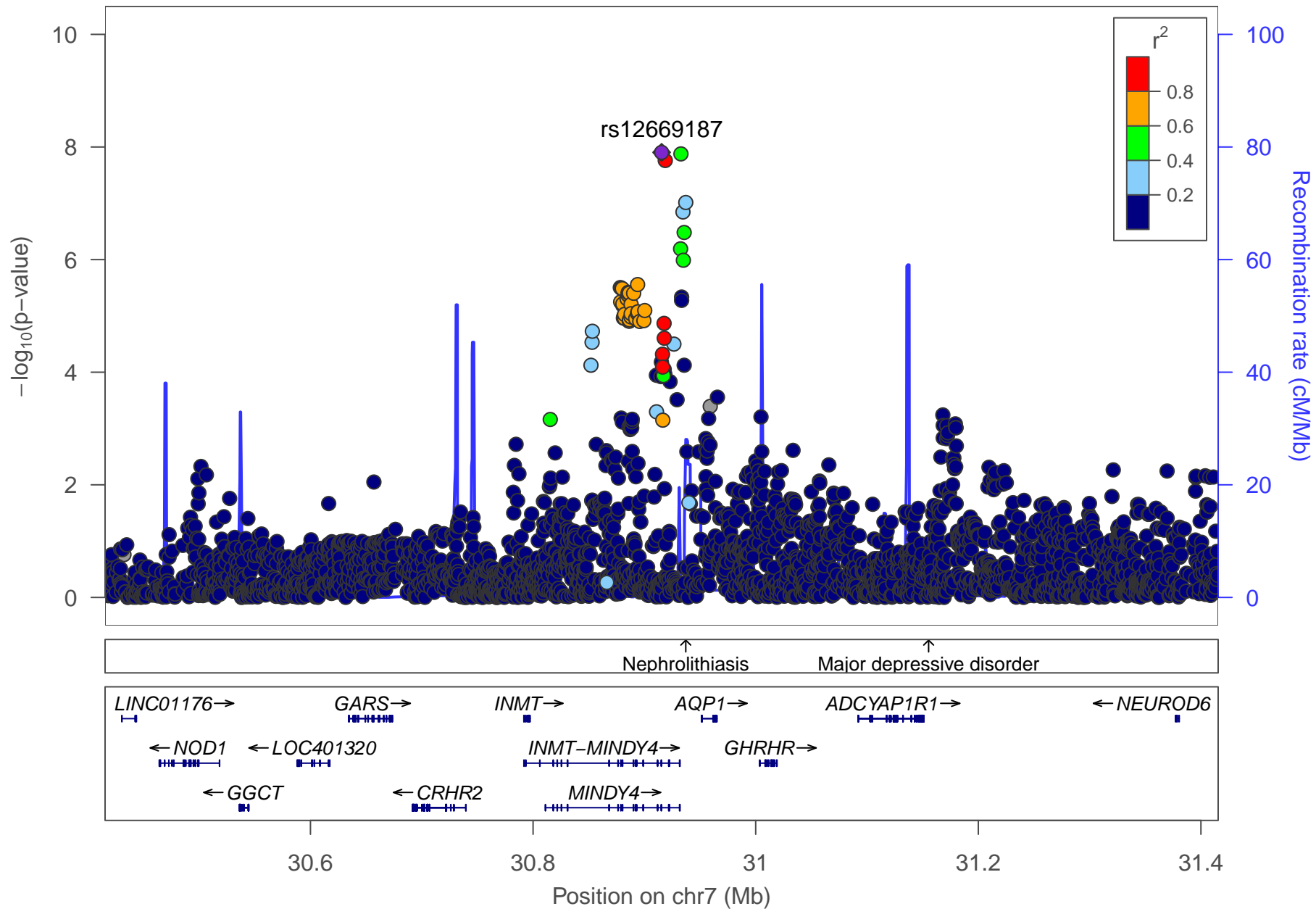


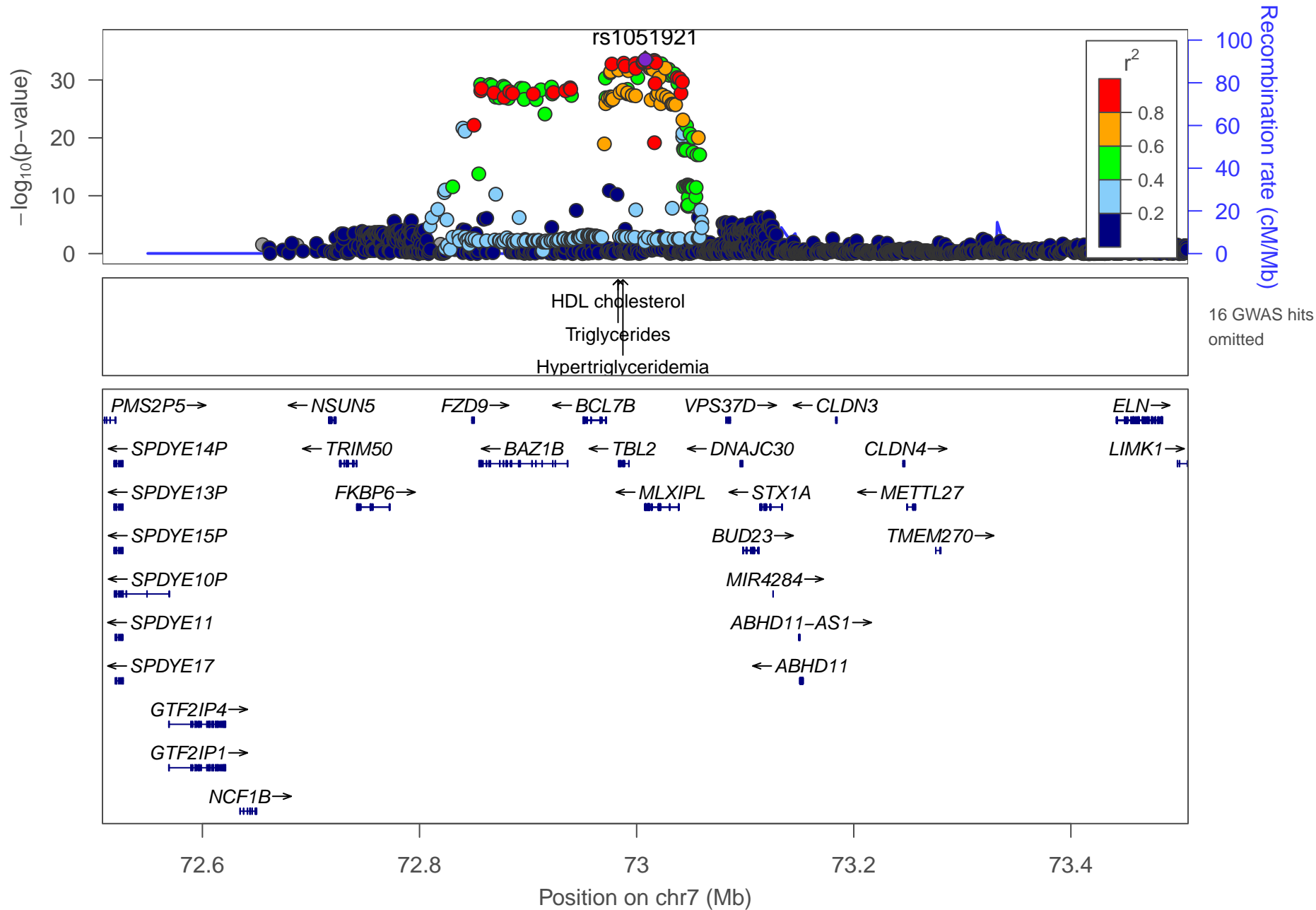


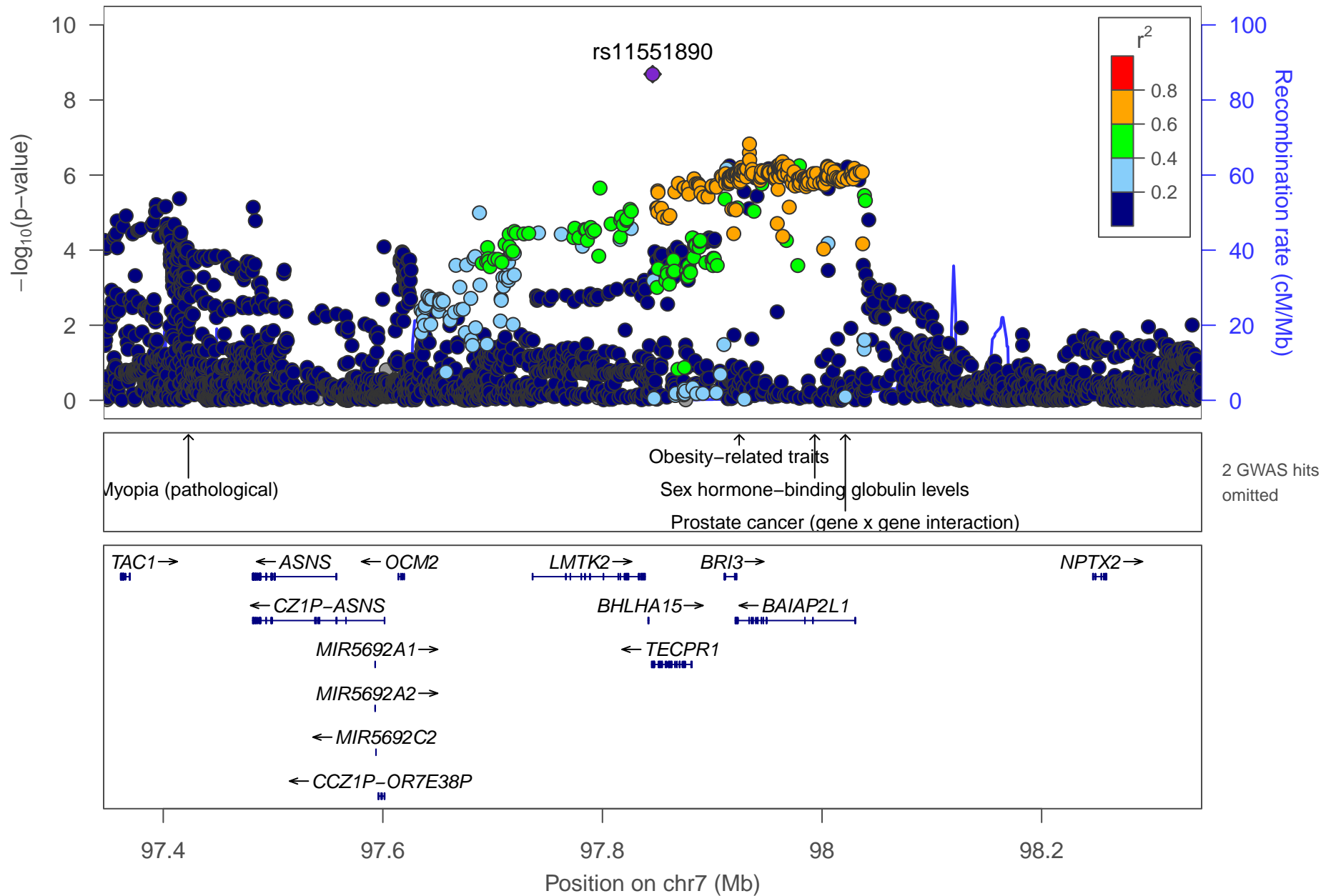


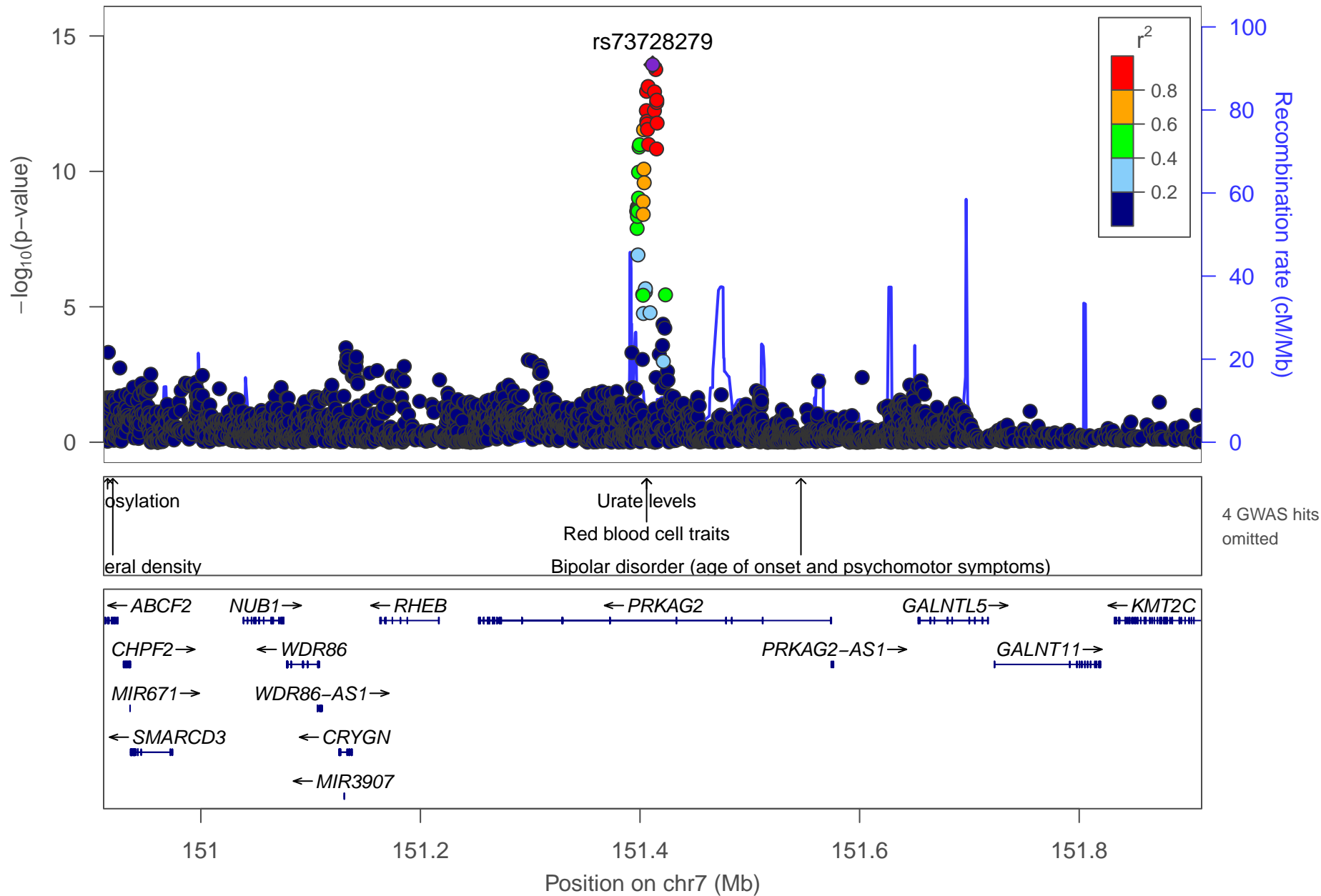


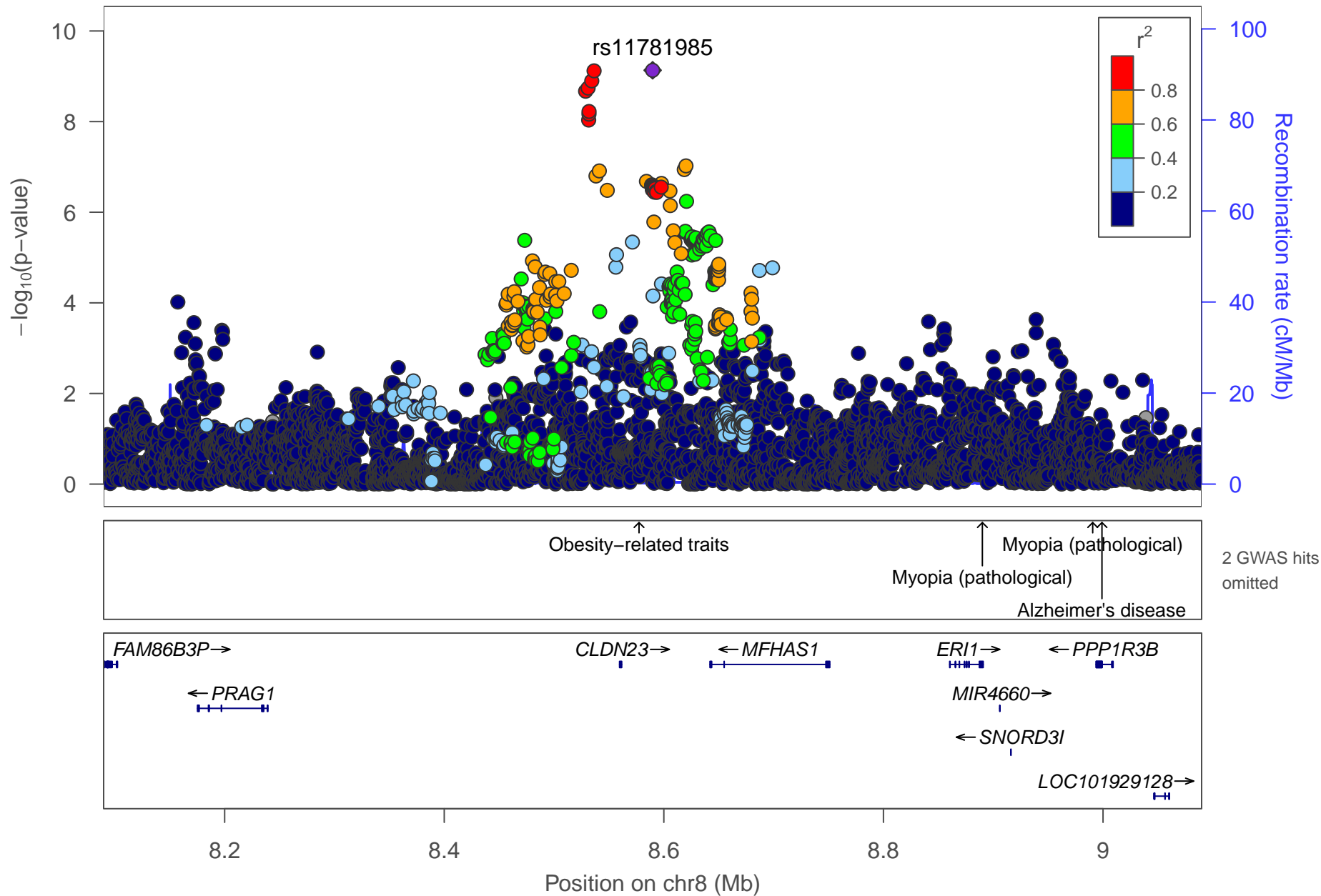


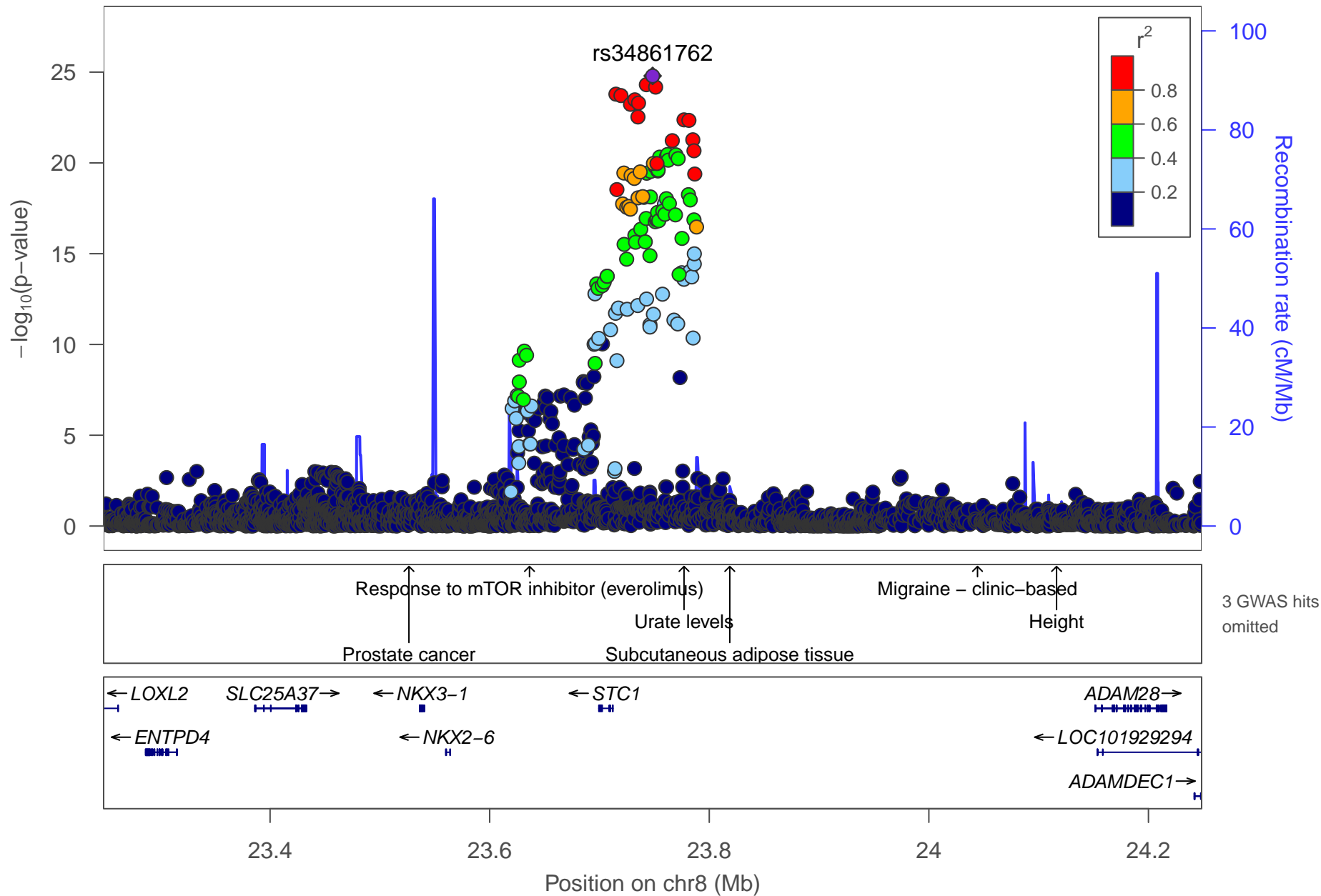


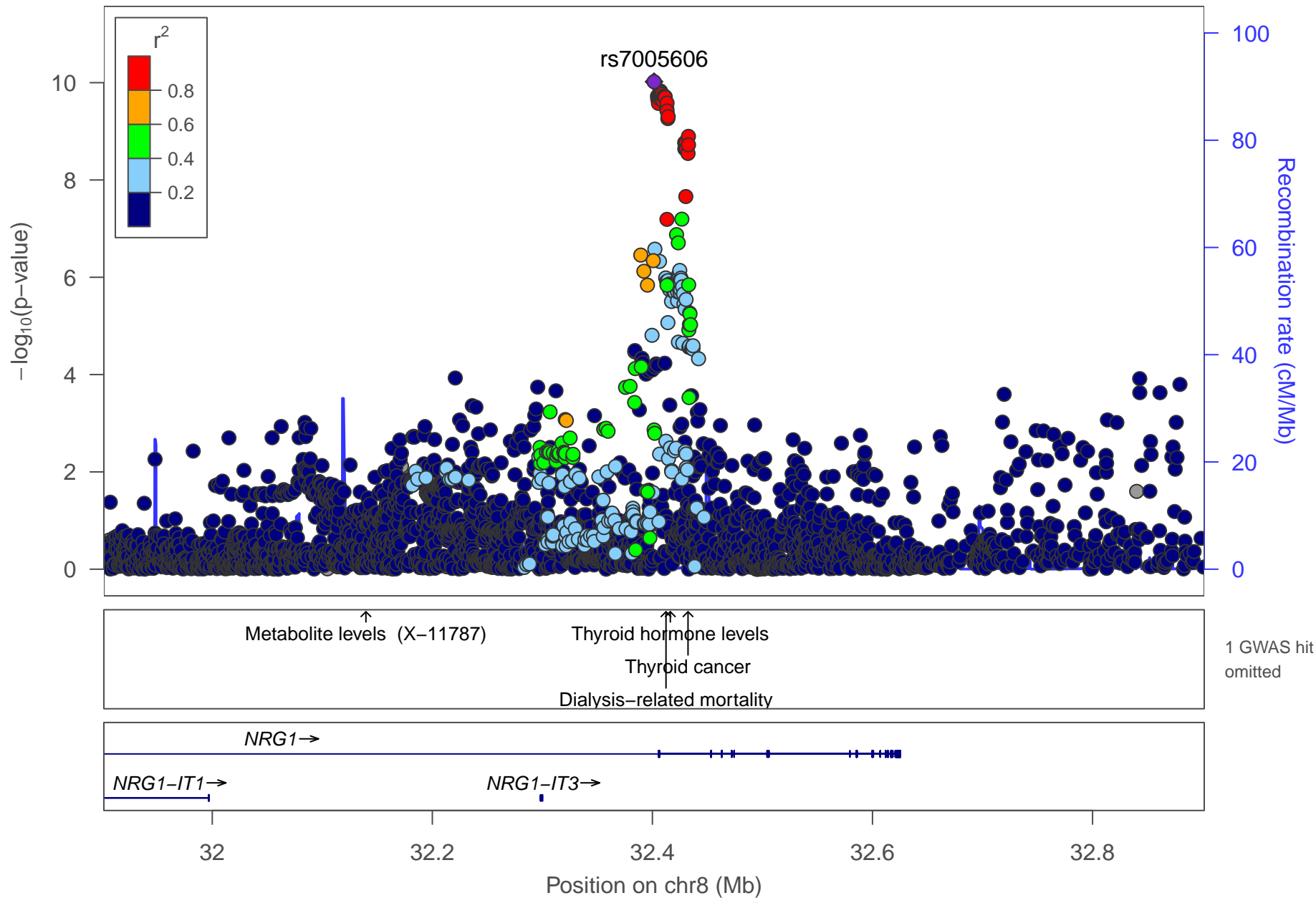


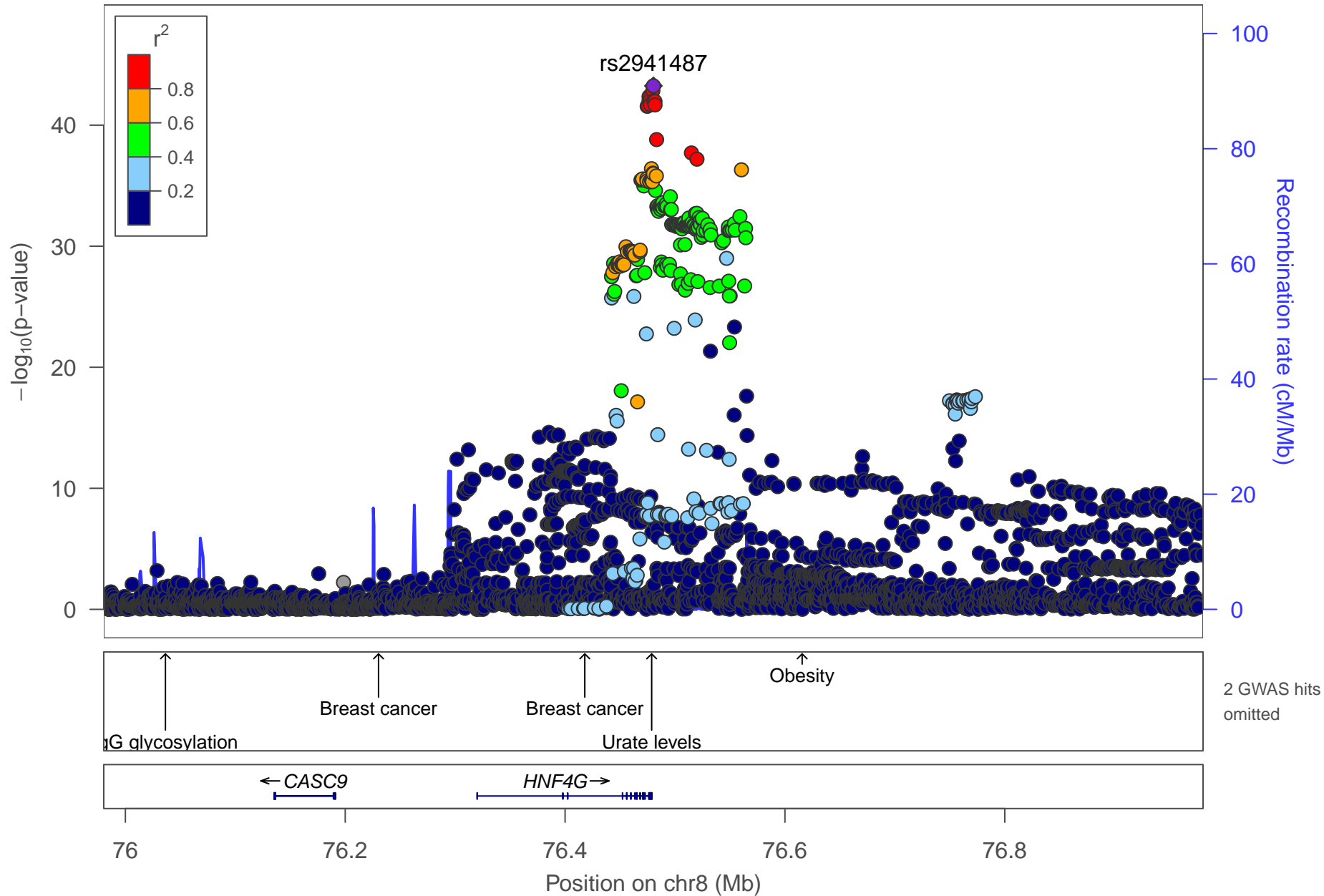


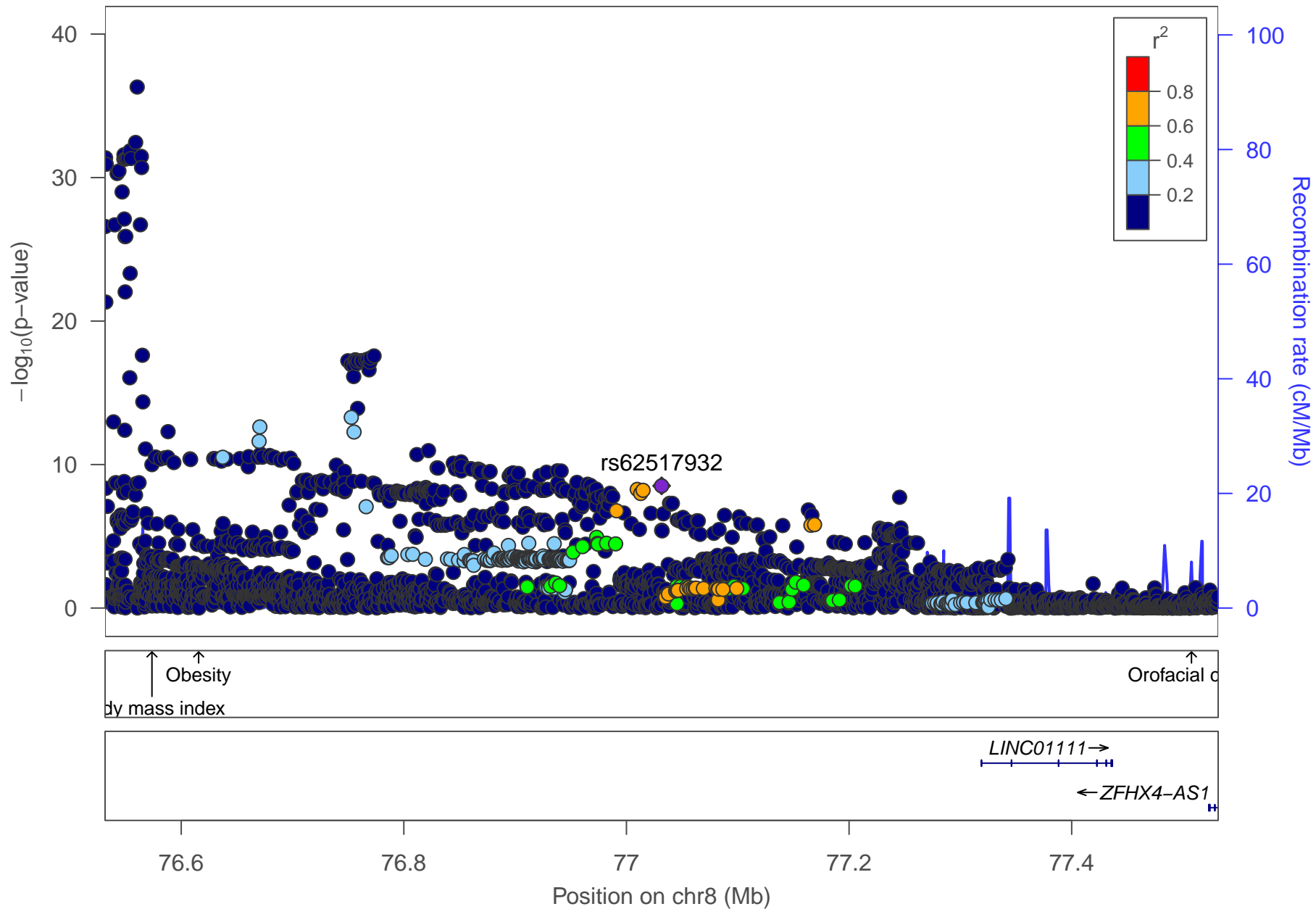


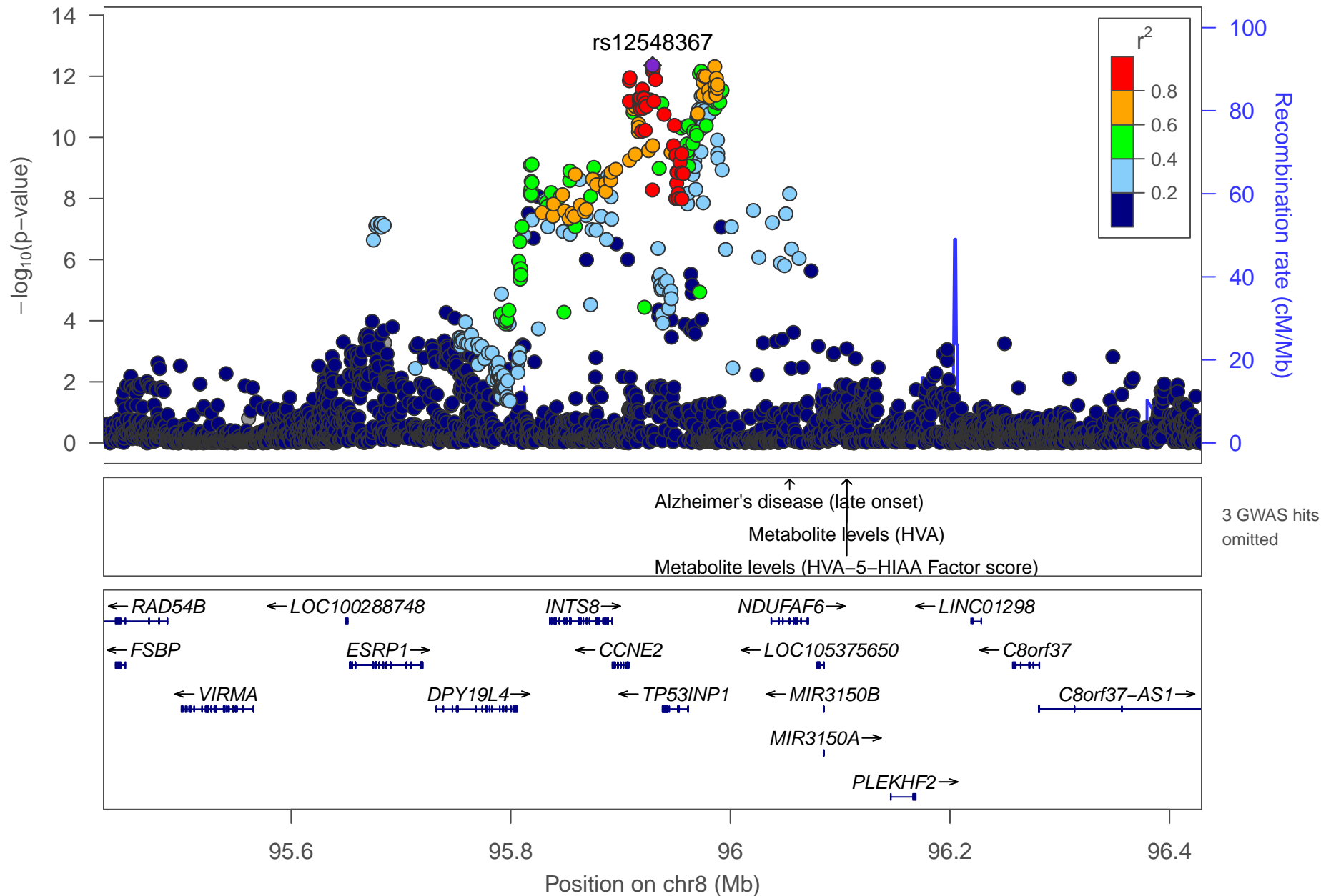


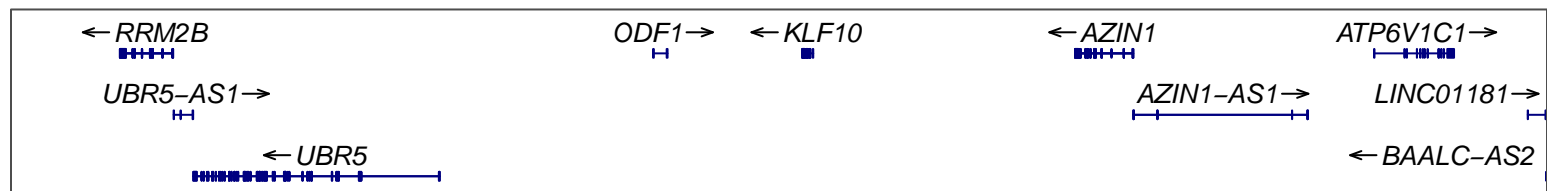
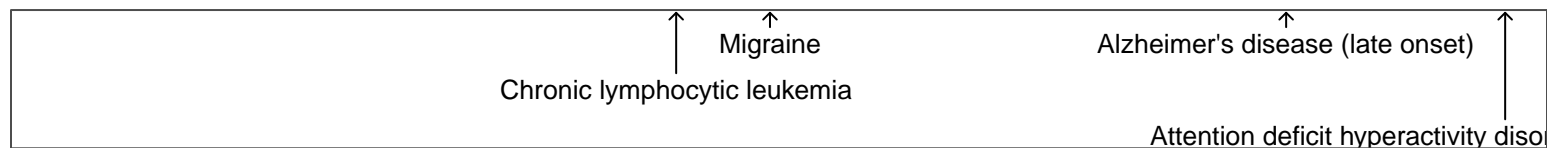
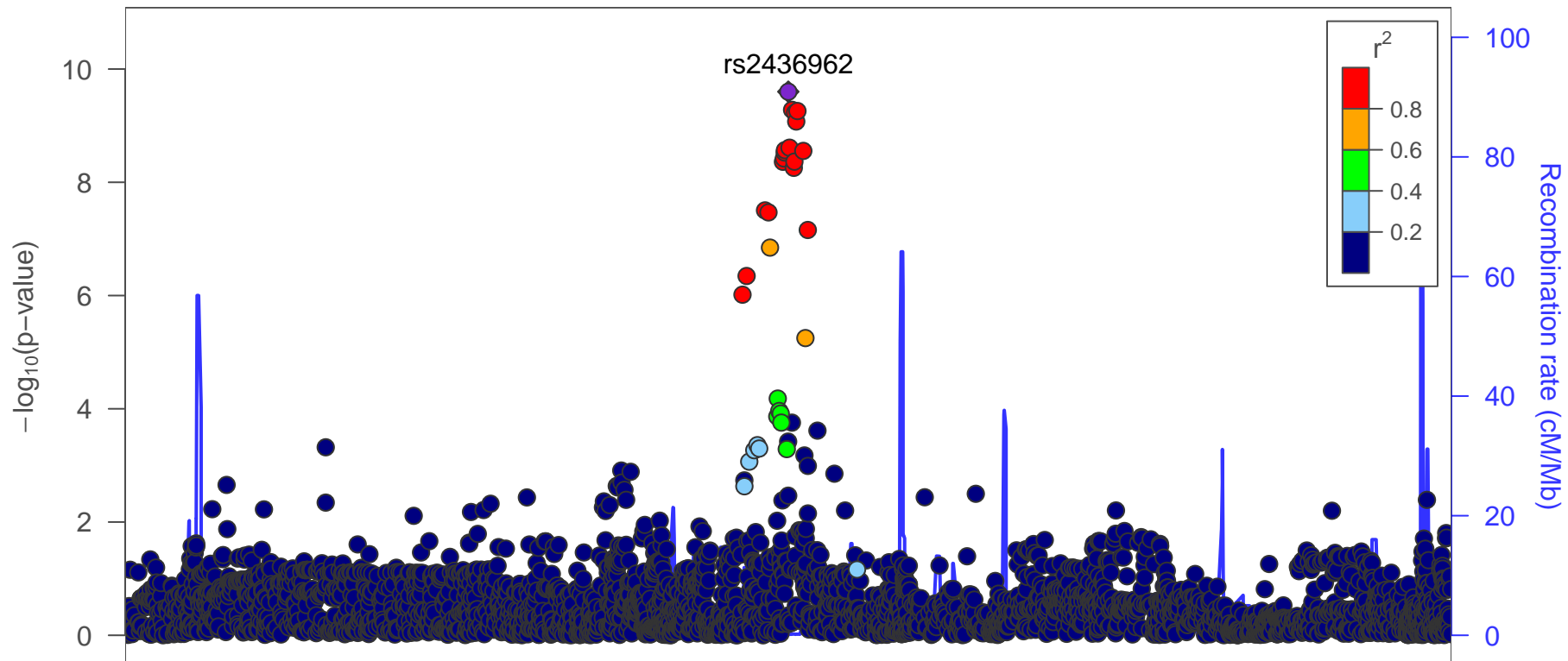












103.2

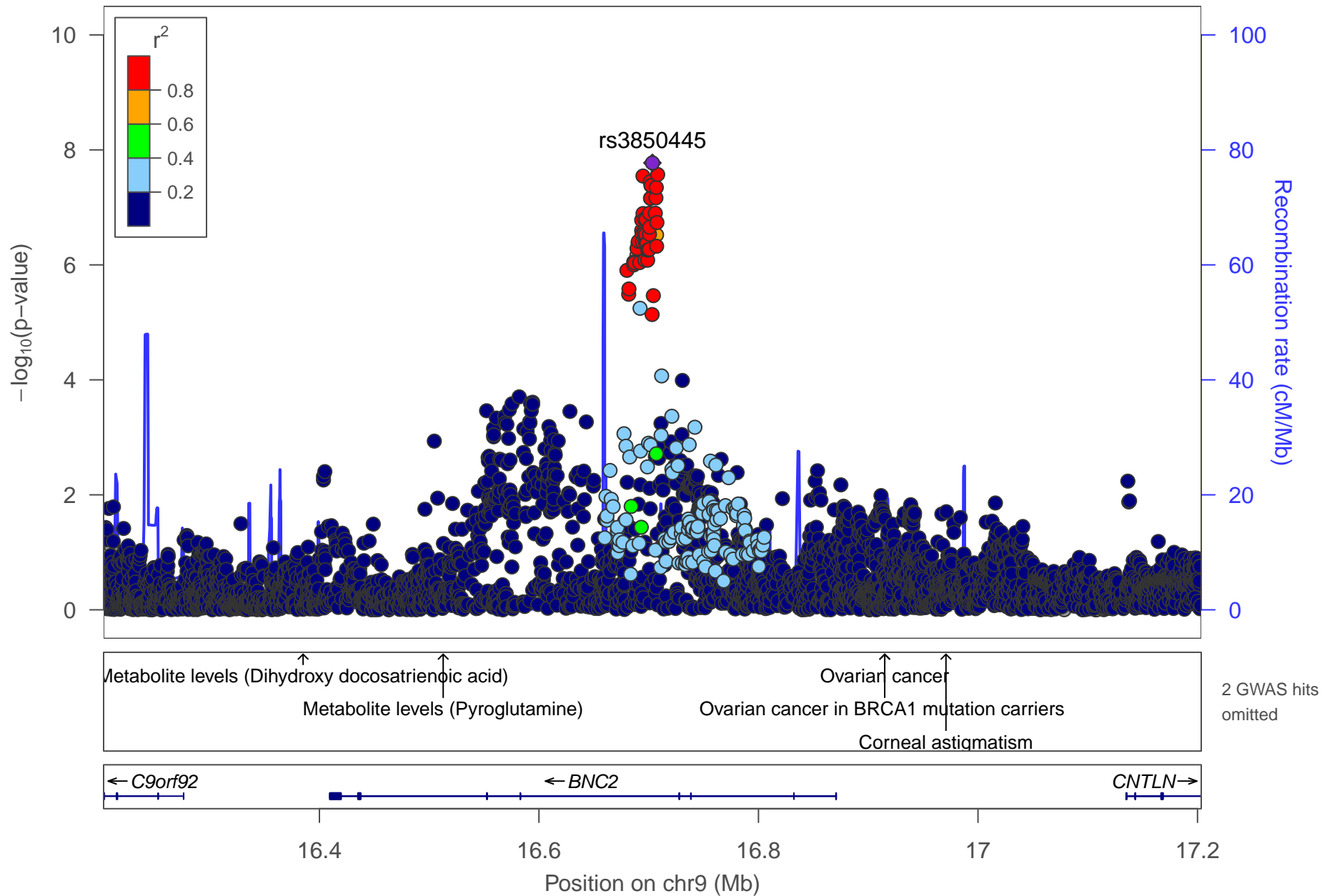
103.4

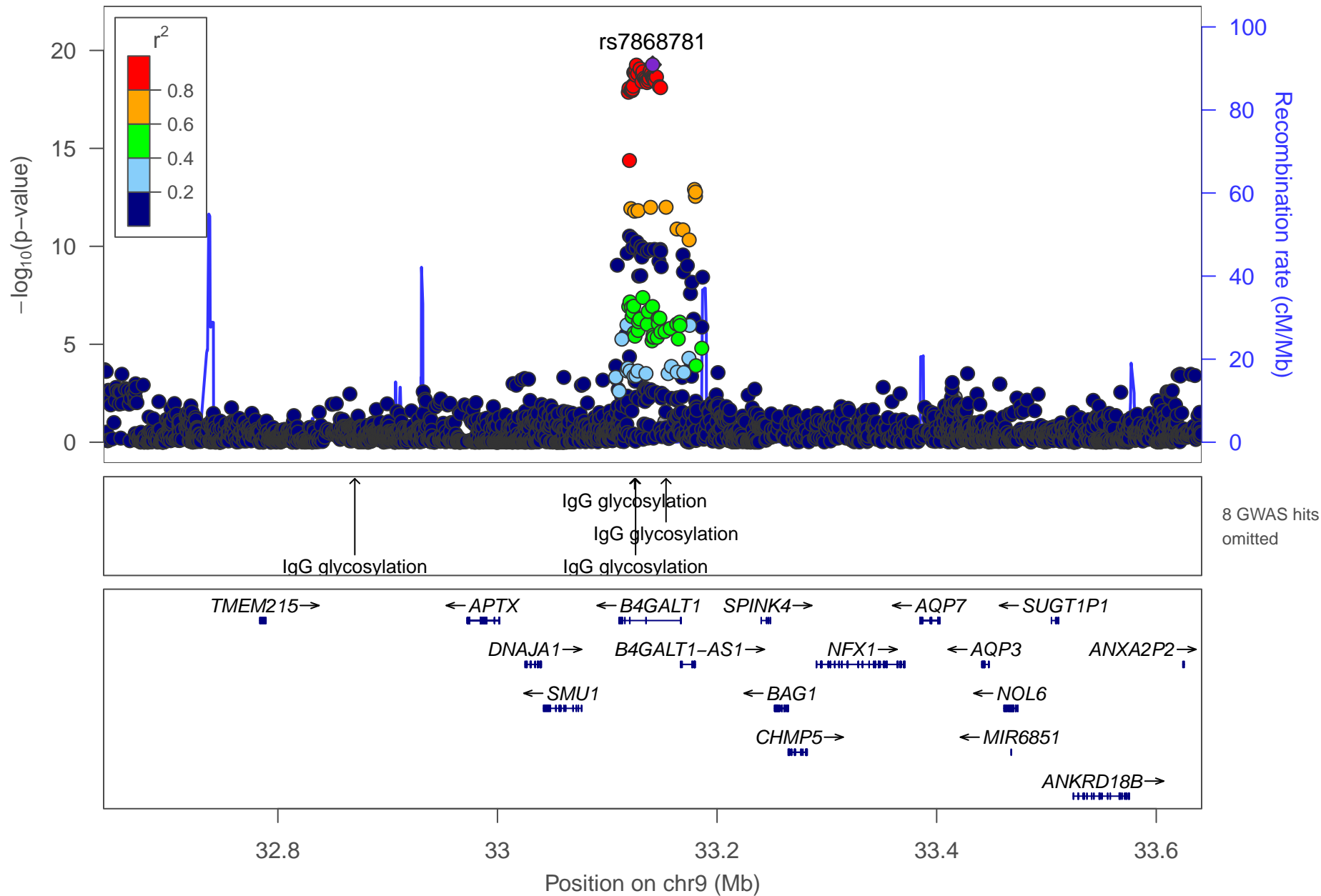
103.6

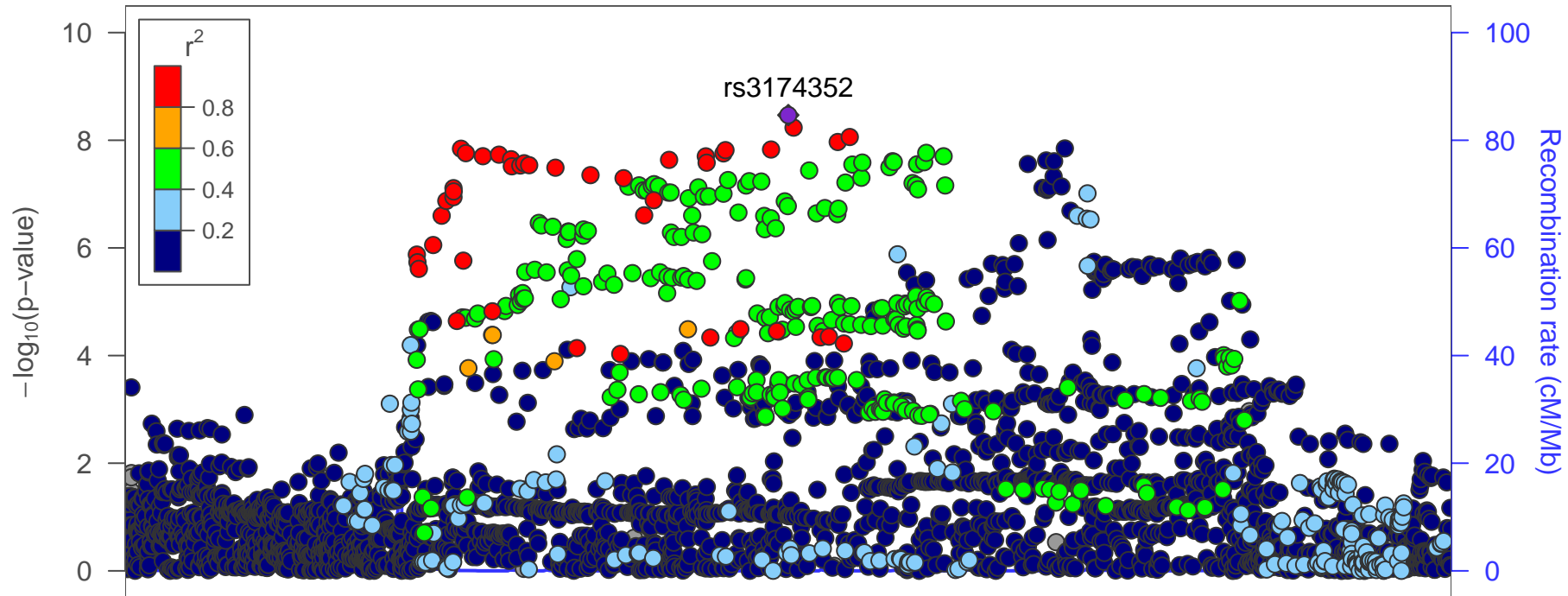
103.8

104

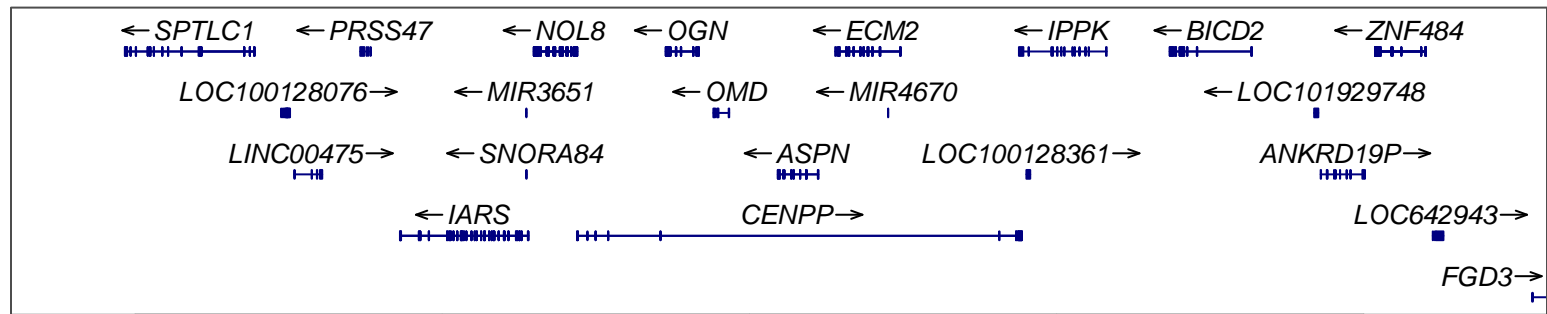
Position on chr8 (Mb)





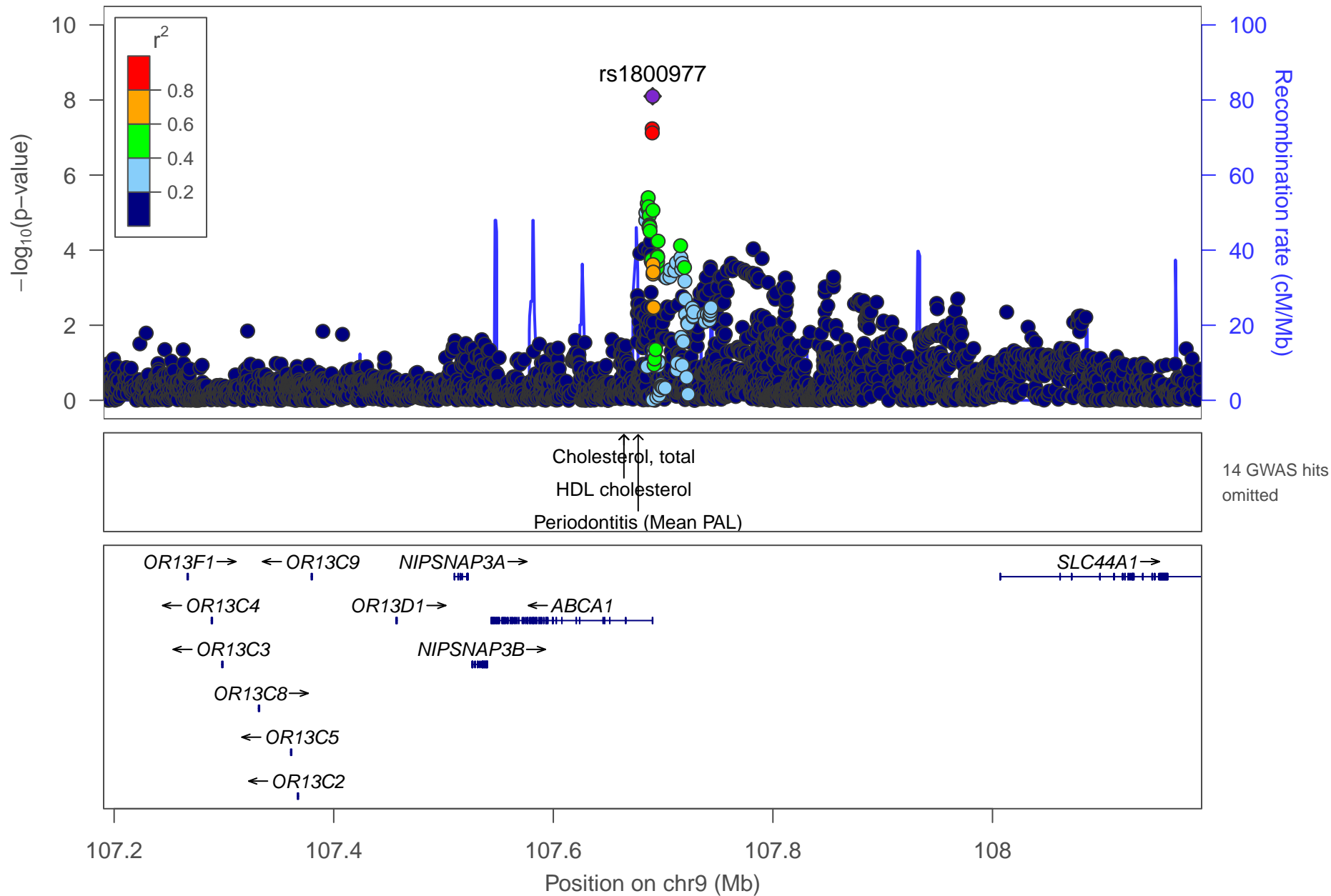


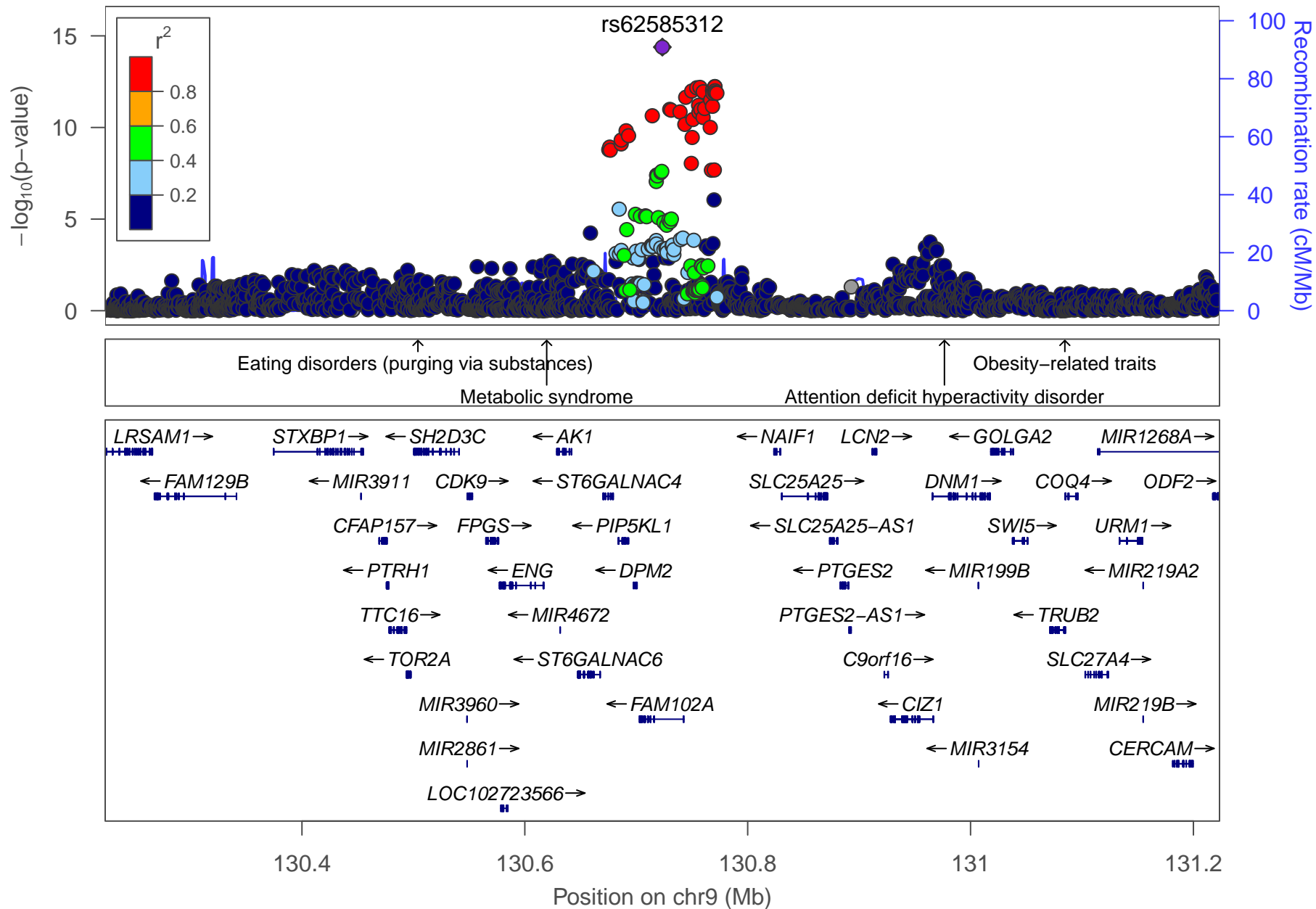
↑
 bipolar disorder and schizophrenia
 ↑ ↑
 Visceral adipose tissue/subcutaneous adipose tissue
 ↑
 Height

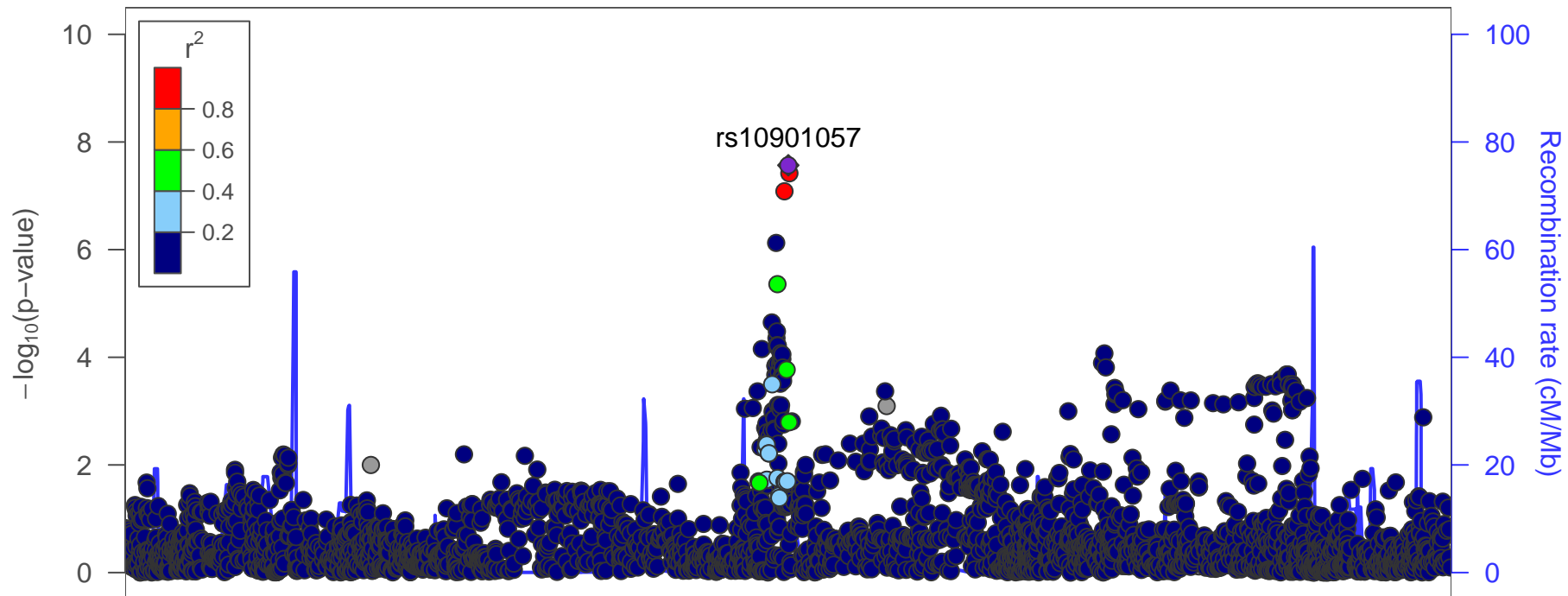


94.8 95 95.2 95.4 95.6

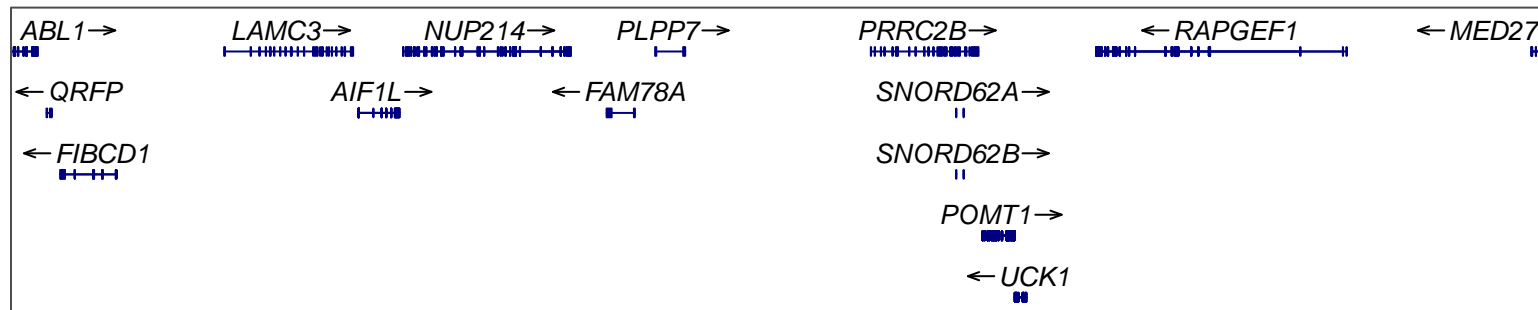
Position on chr9 (Mb)



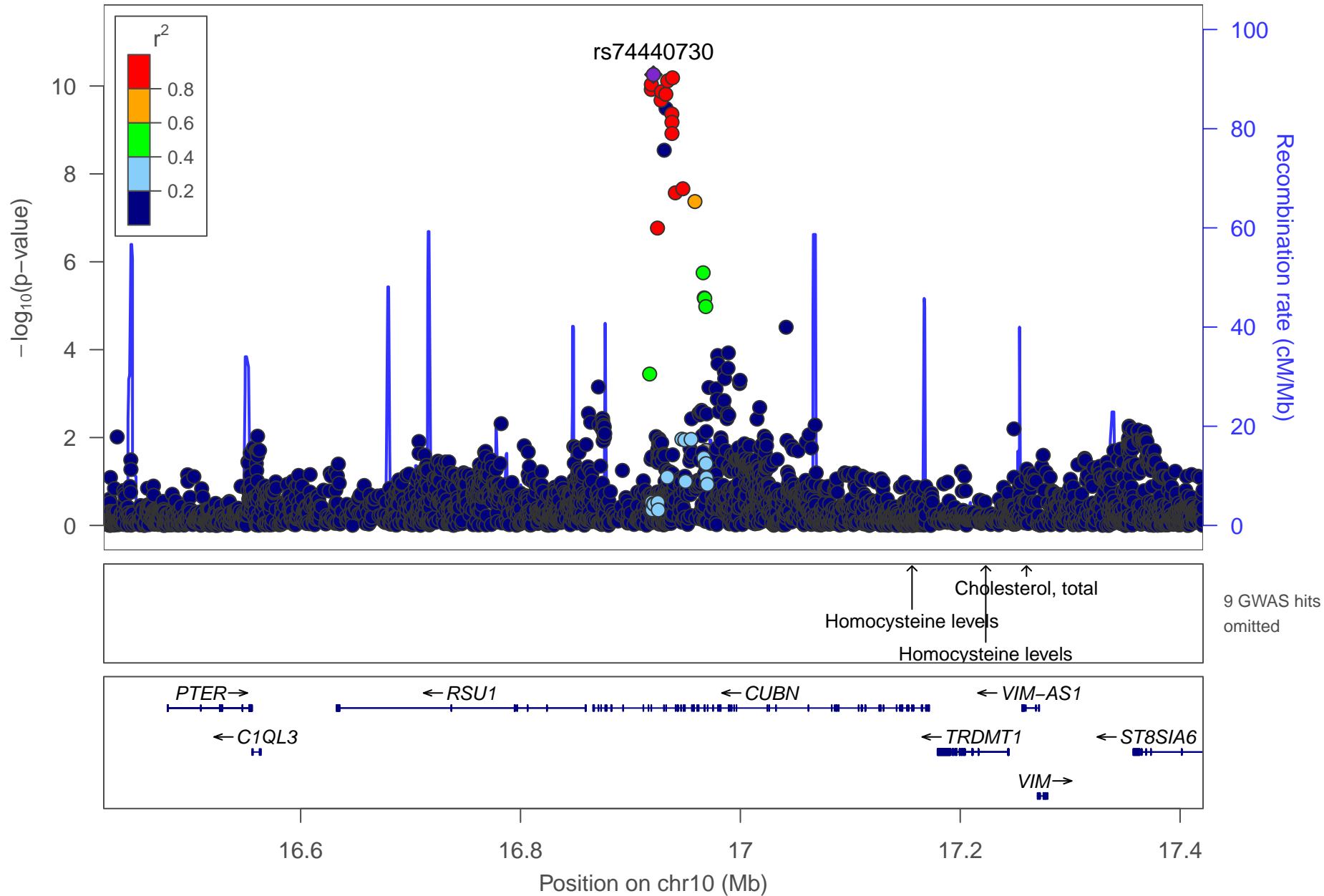


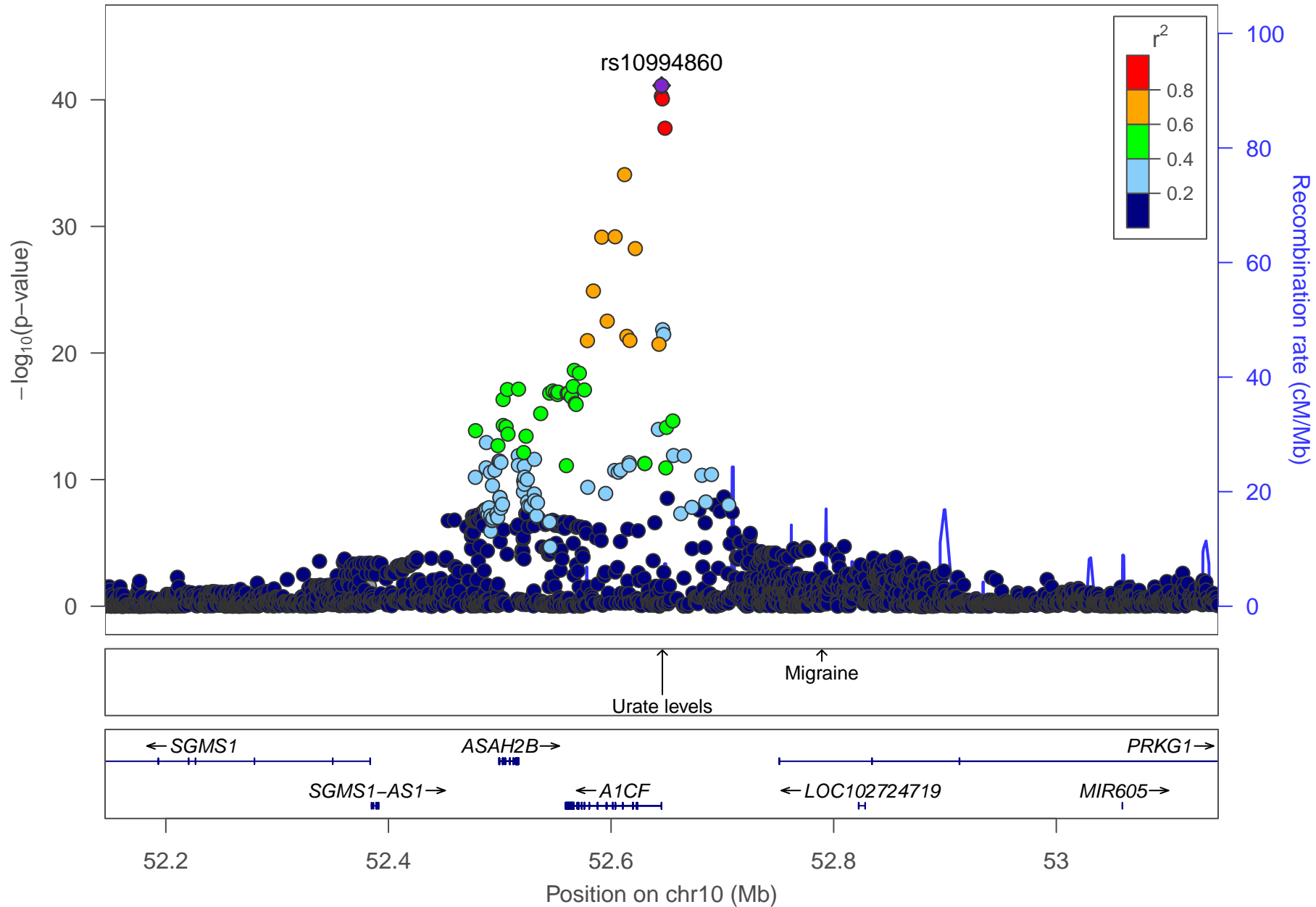


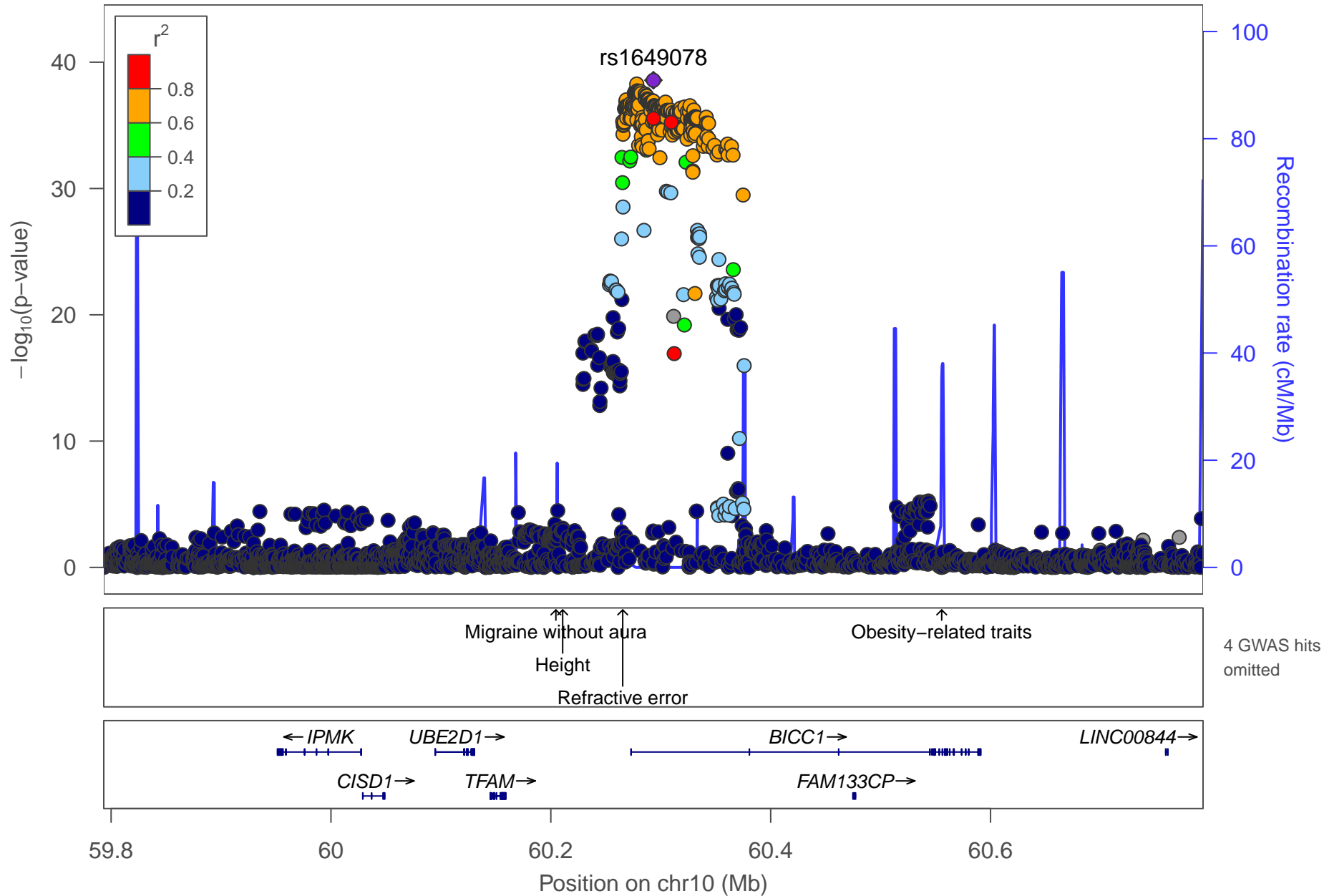
↑ amphetamines
 ↑ bin levels
 Response to amphetamines

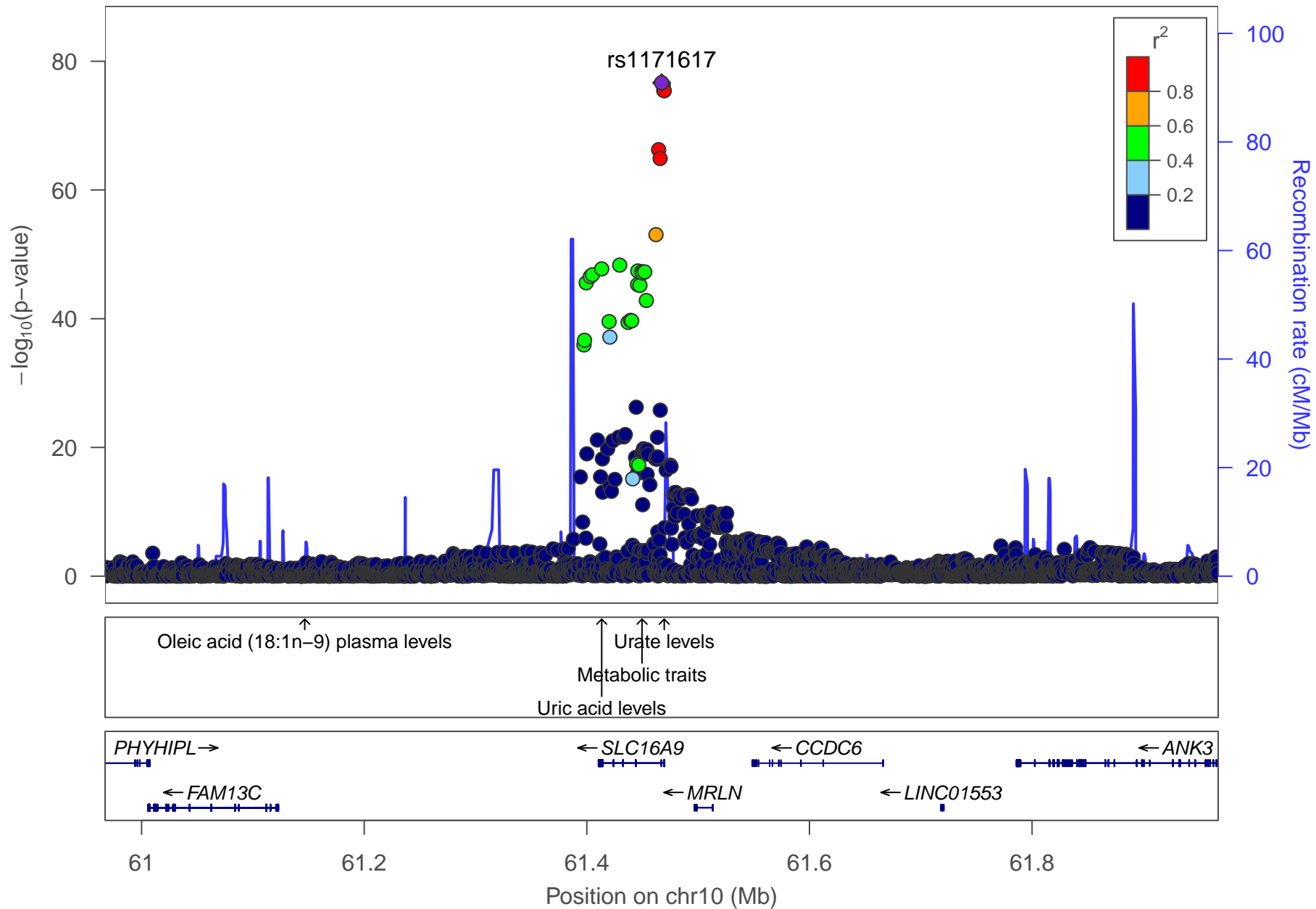


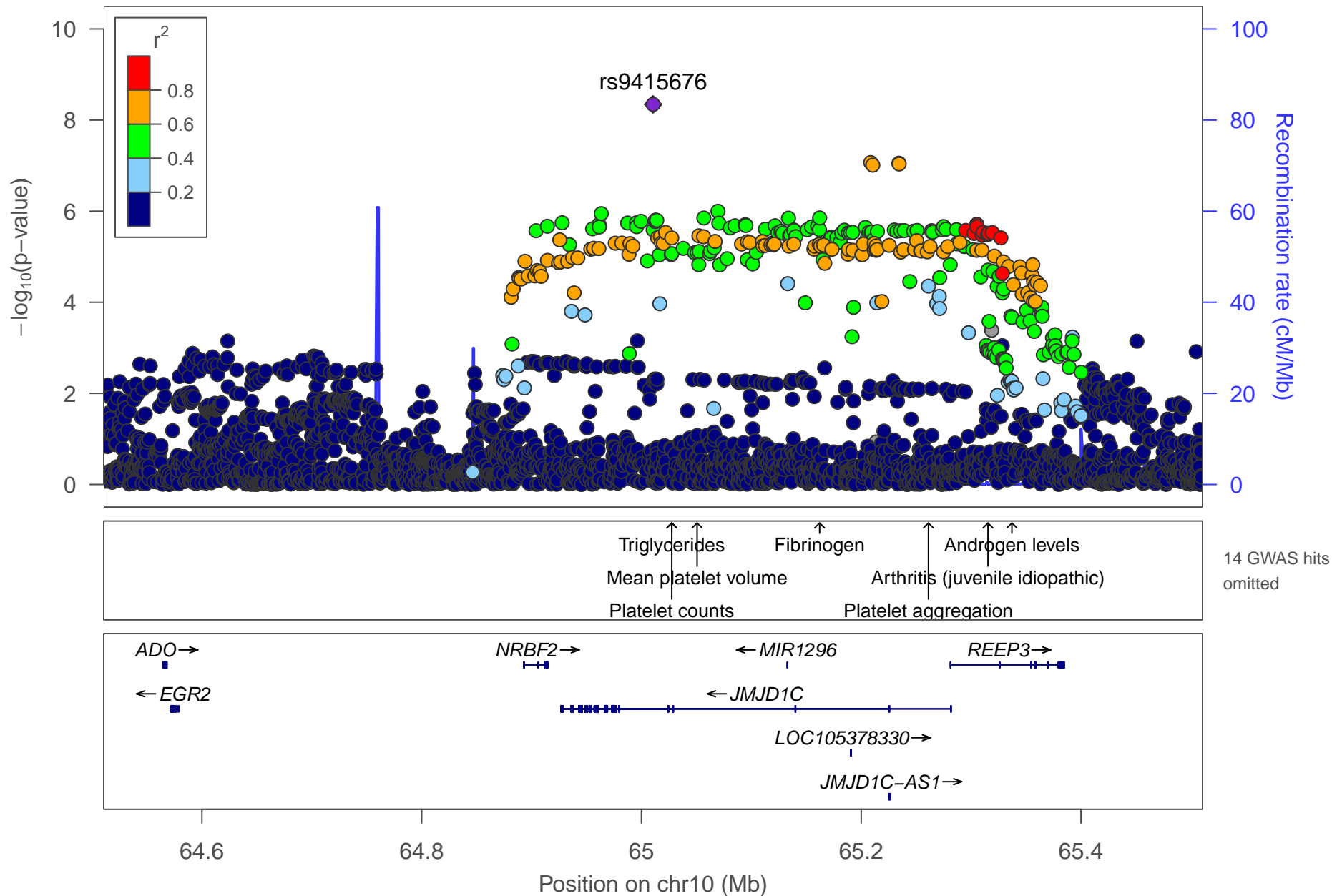
133.8 134 134.2 134.4 134.6
 Position on chr9 (Mb)

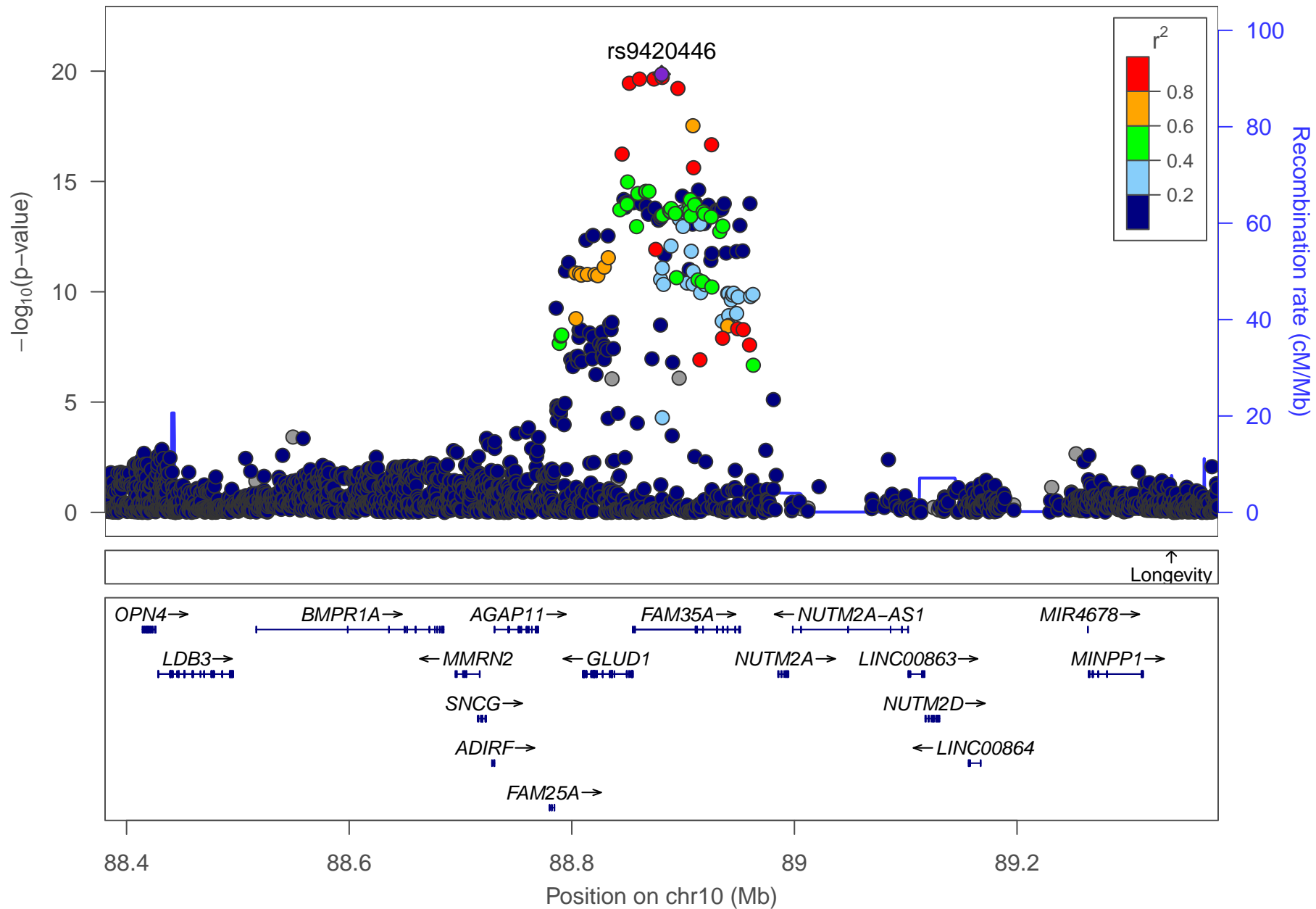


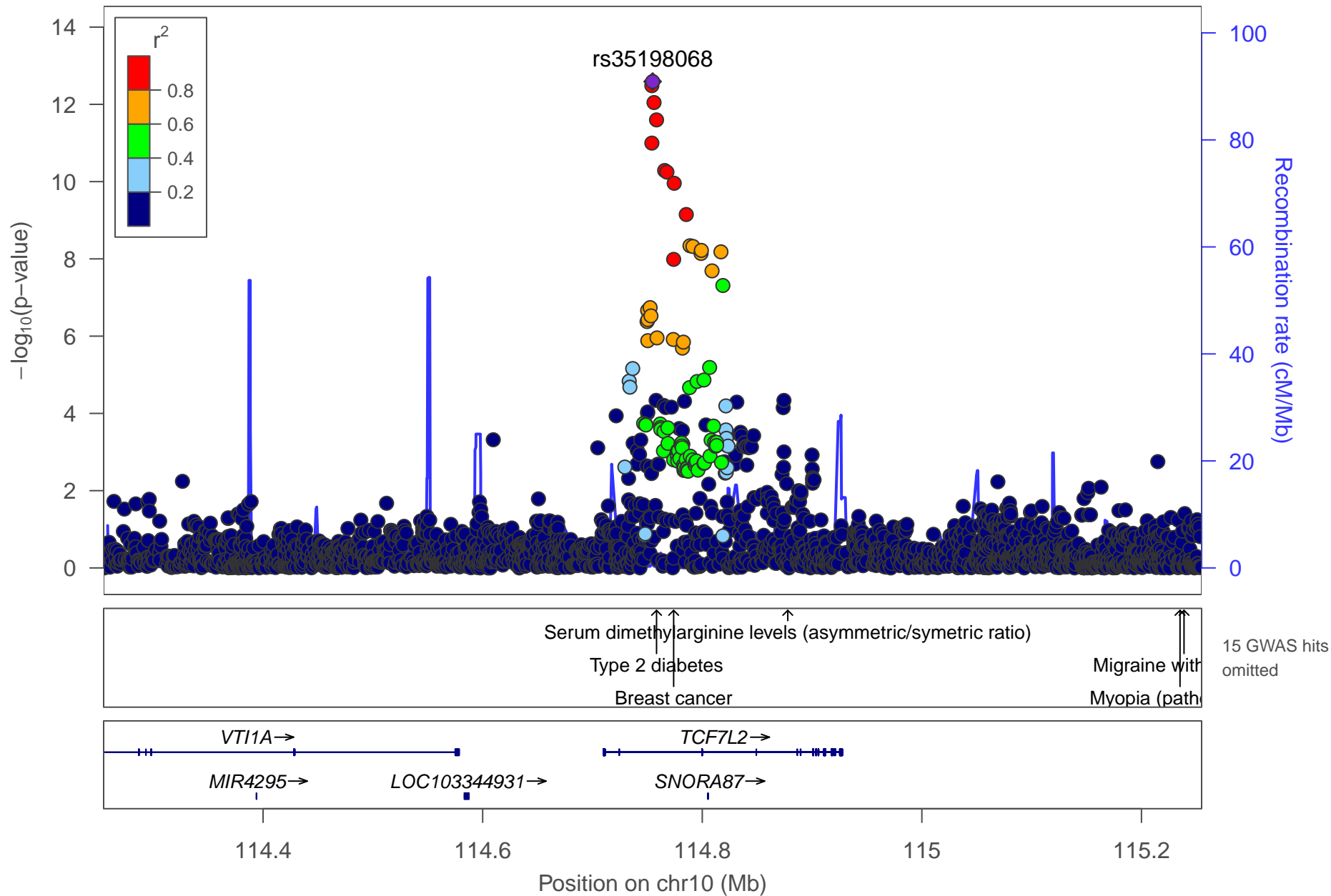


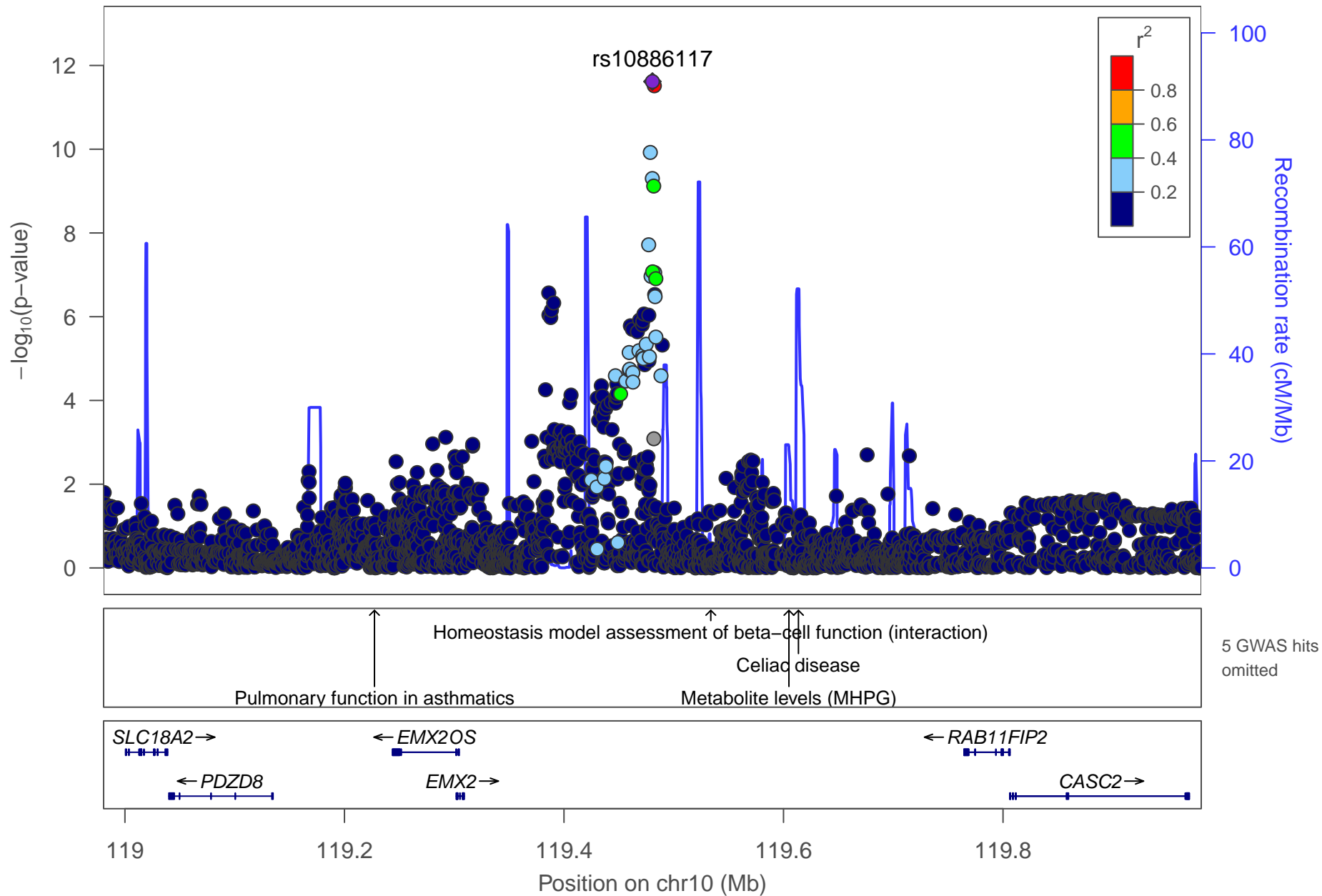


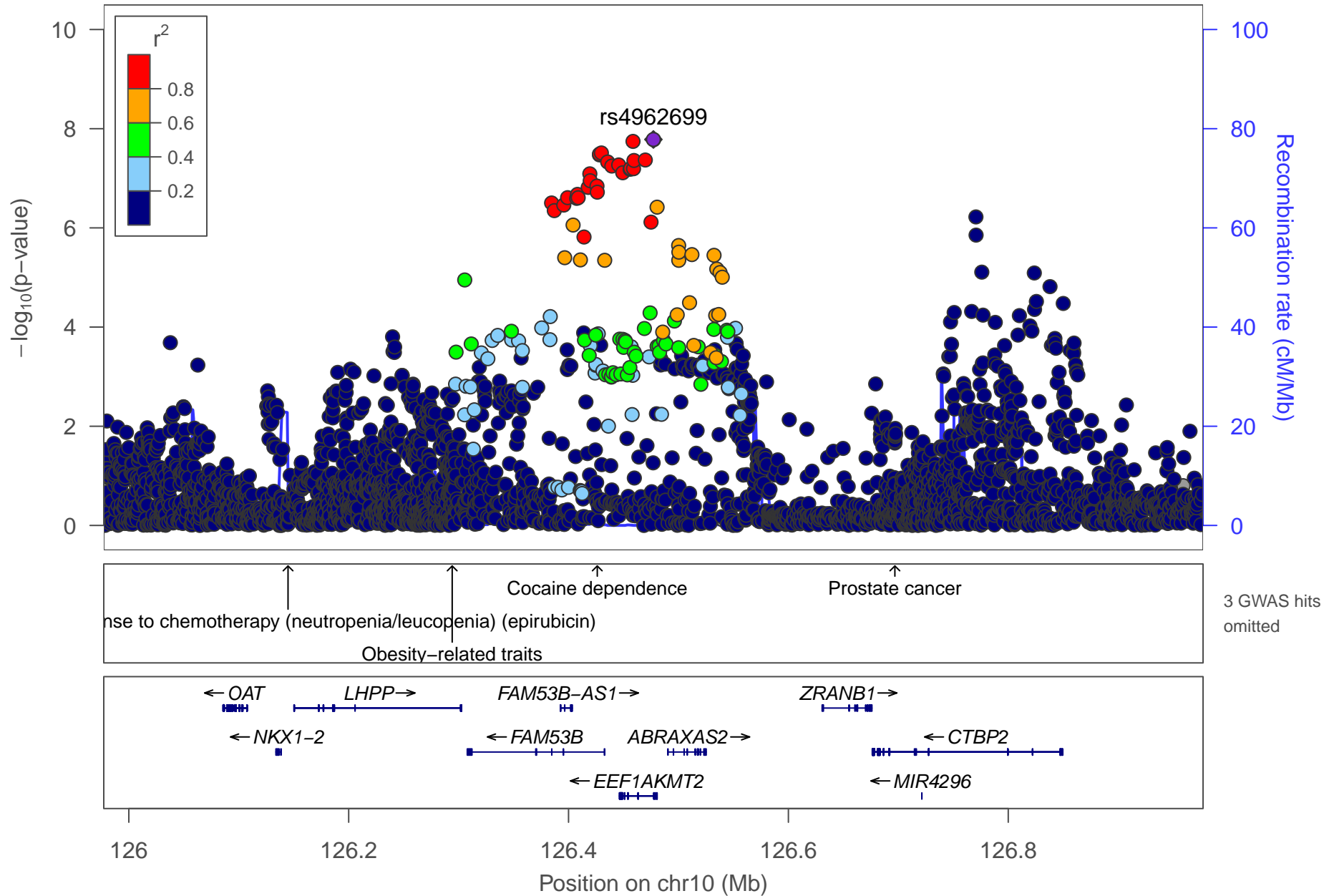


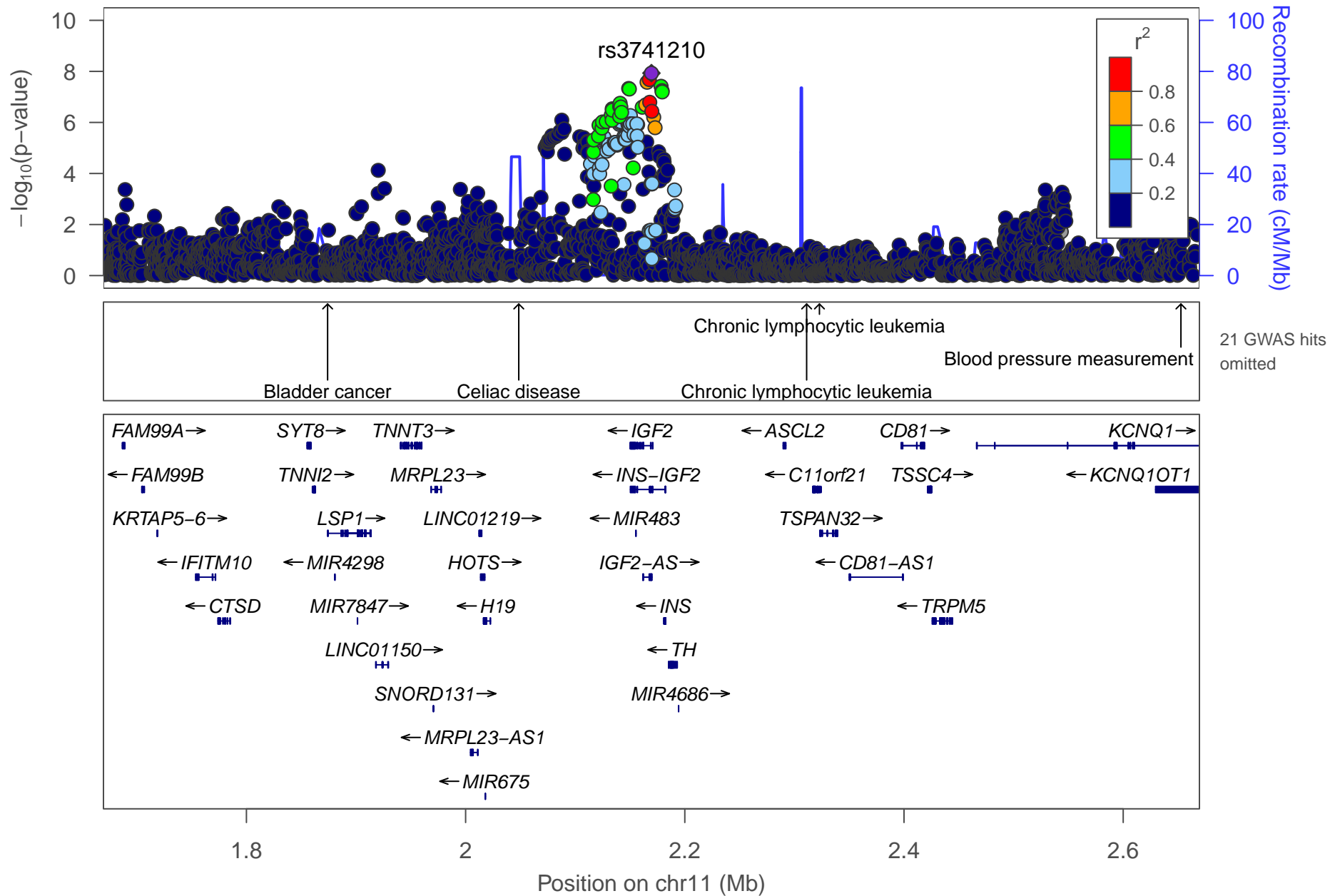


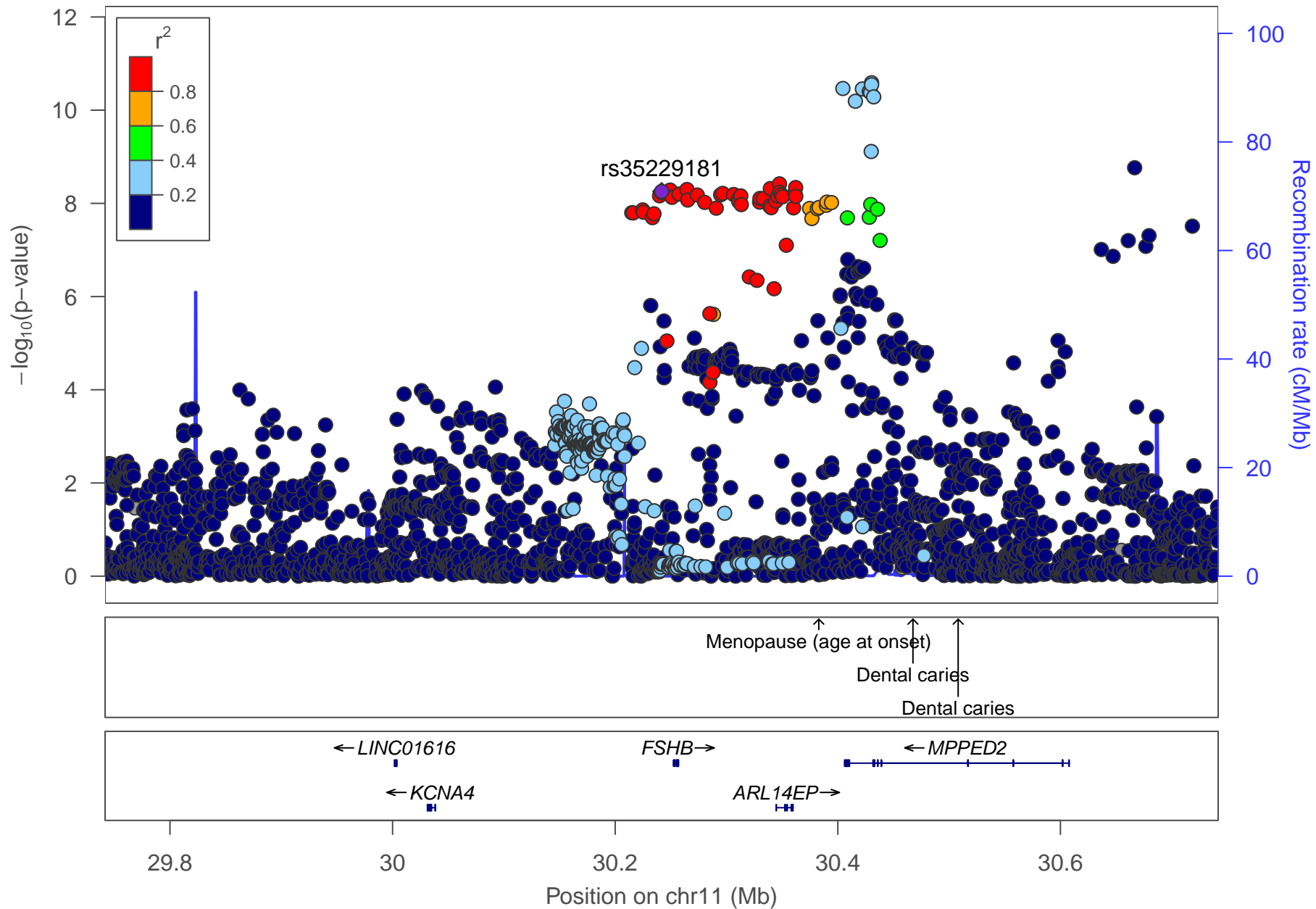


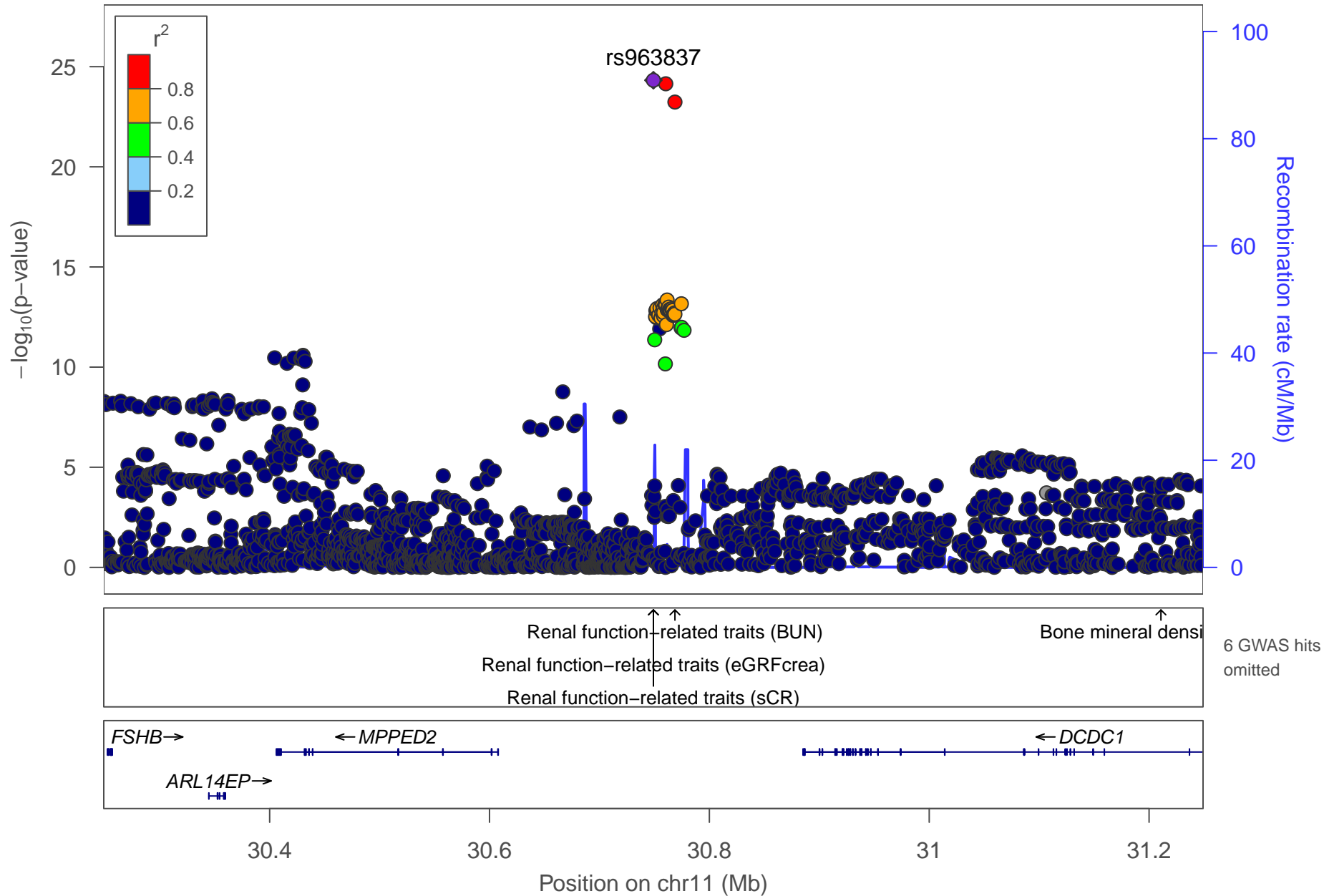


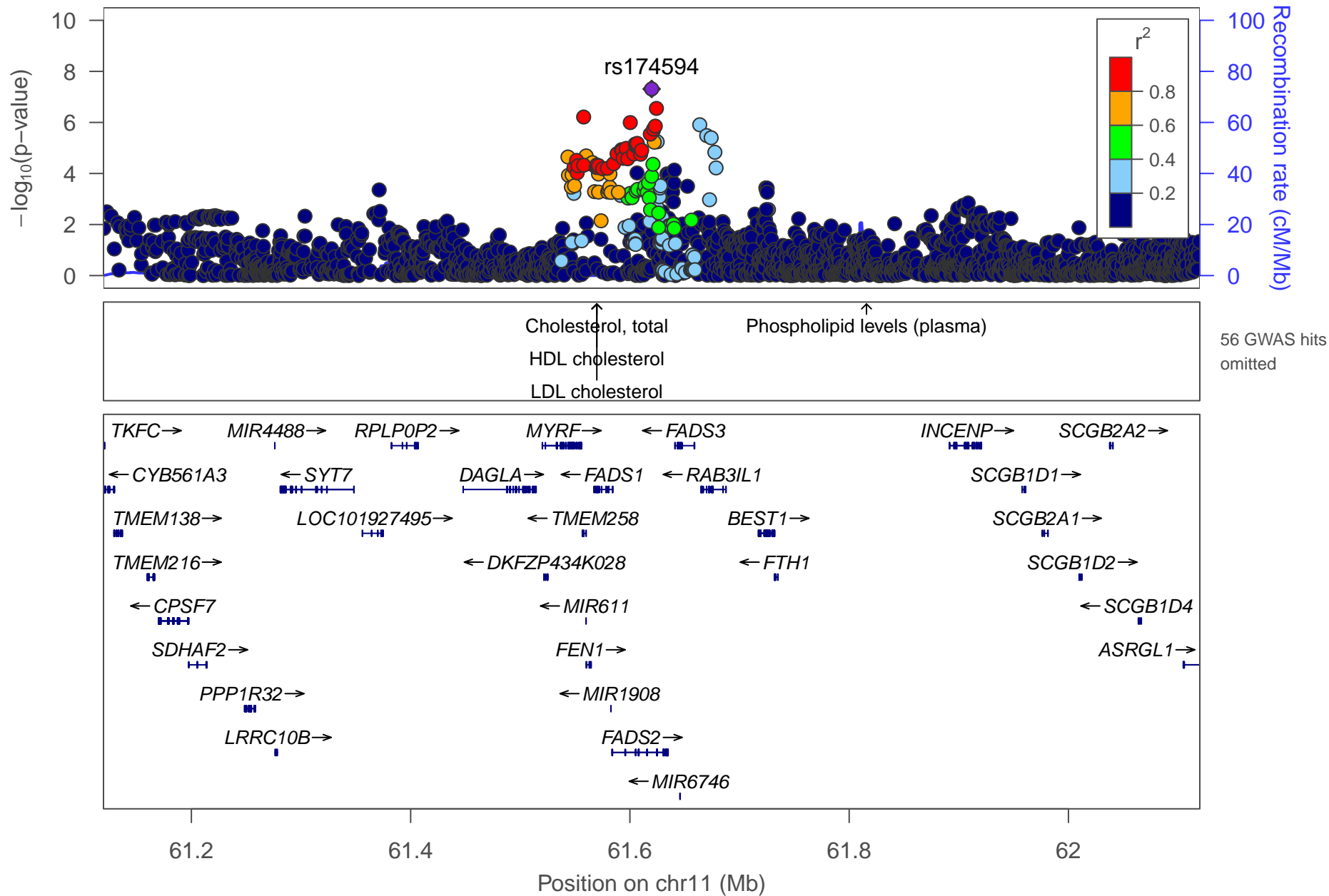


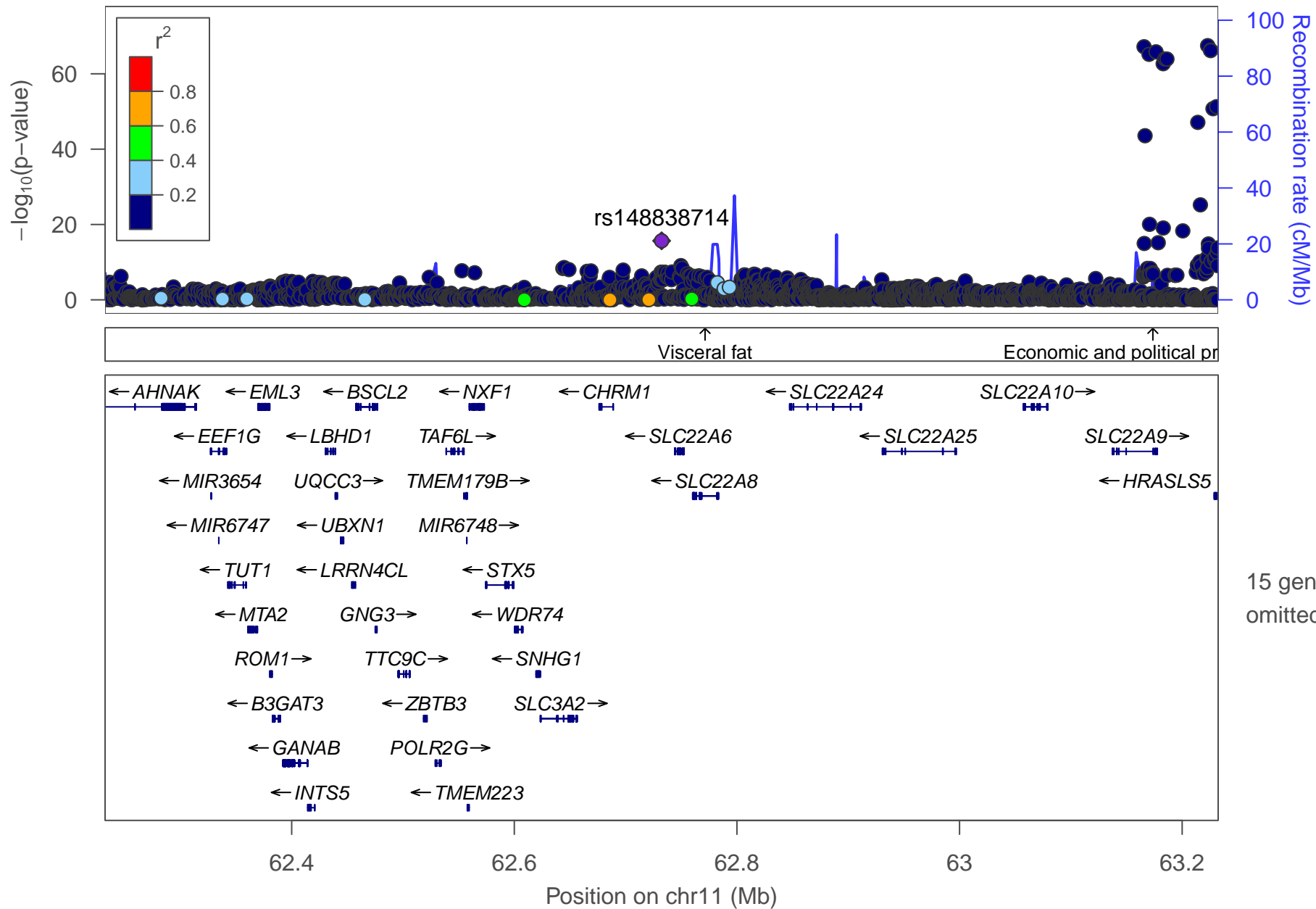


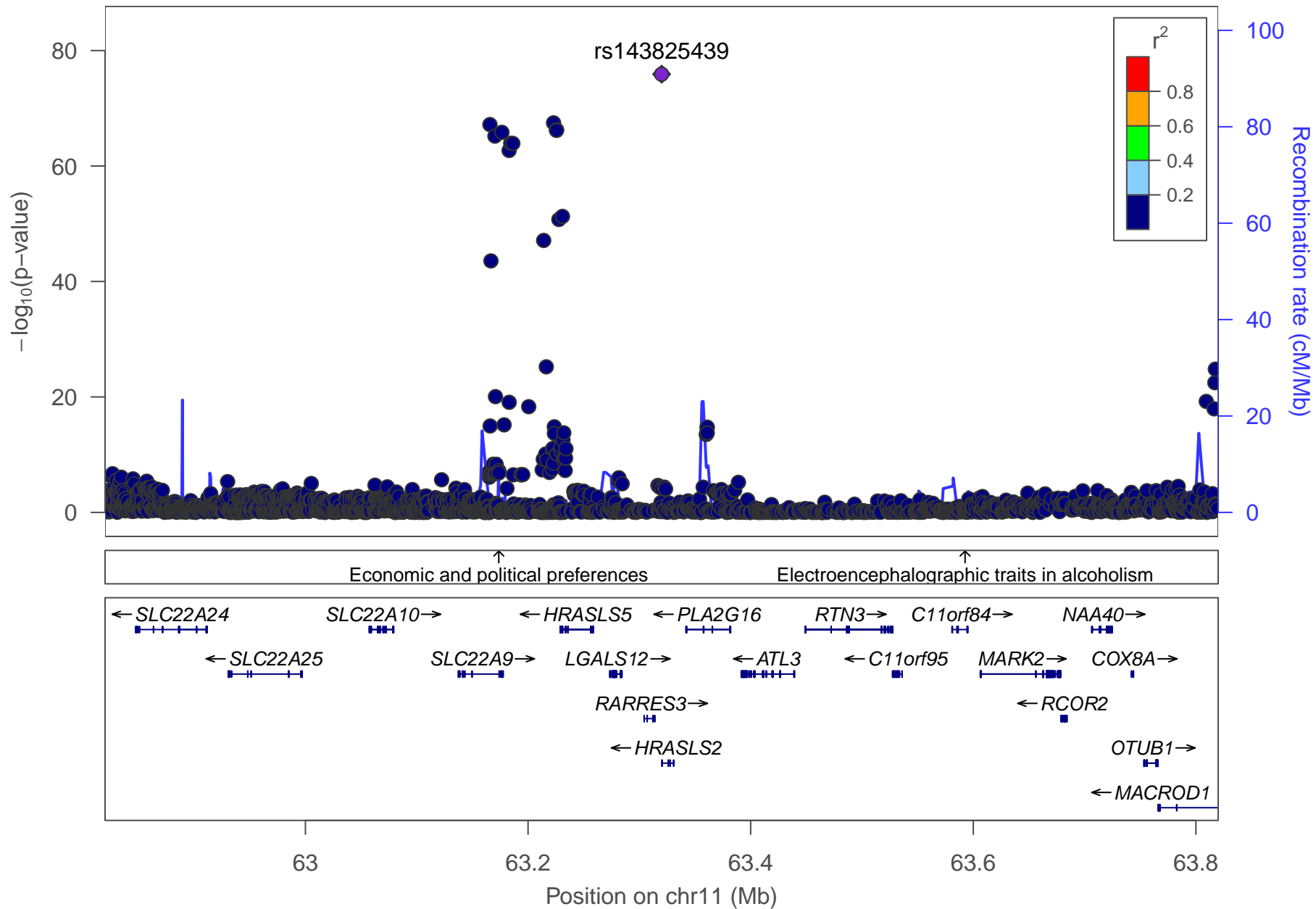


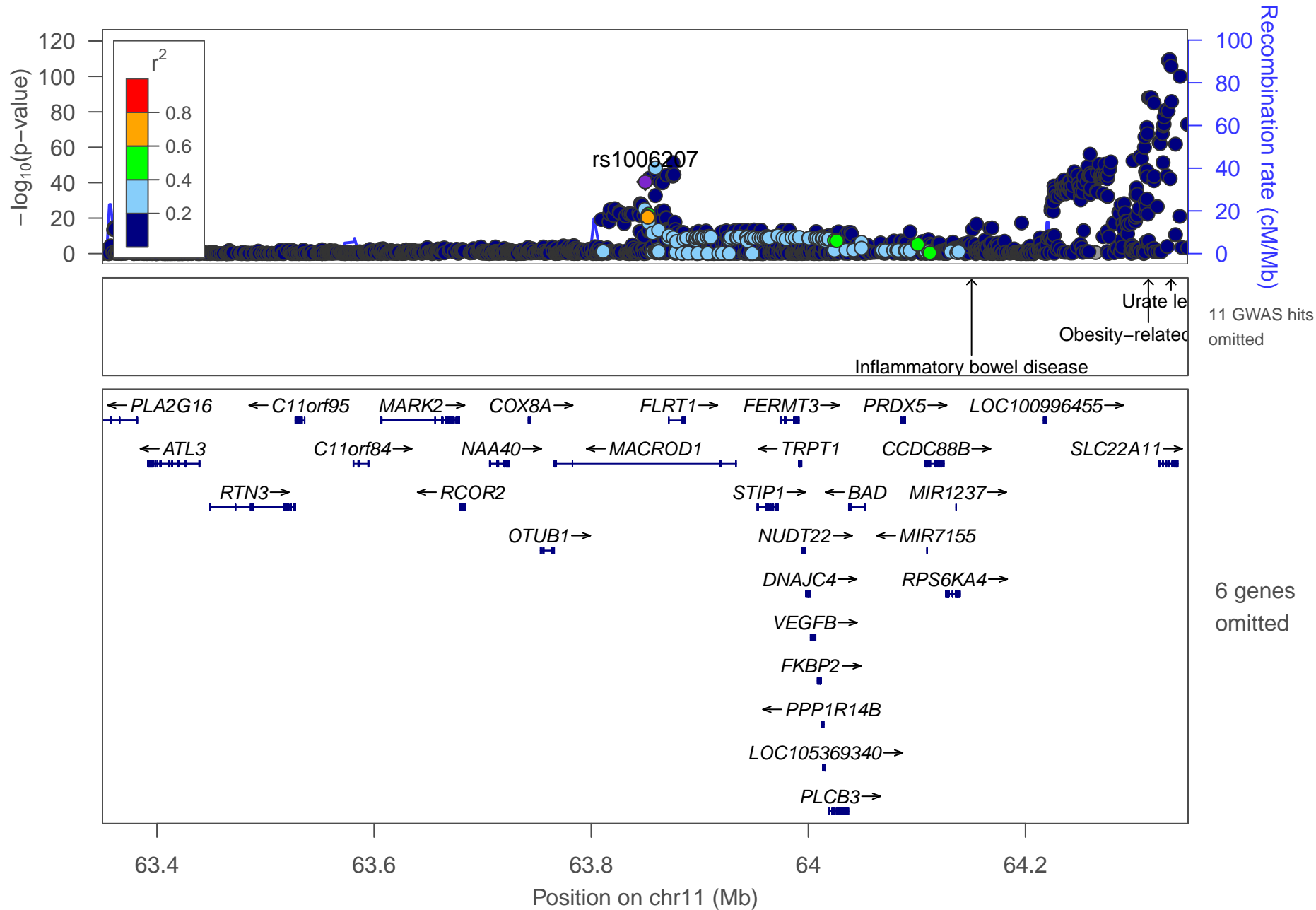


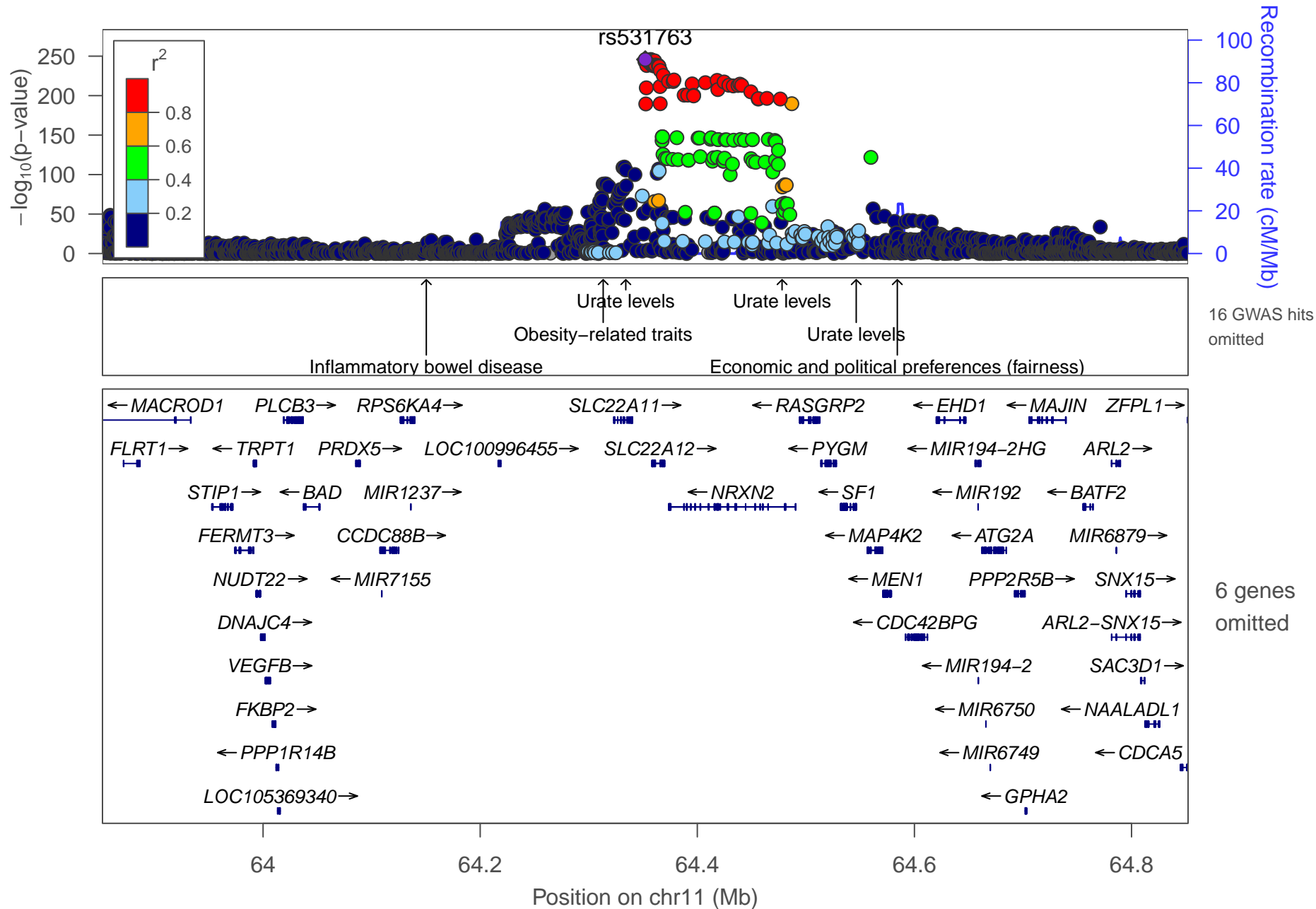


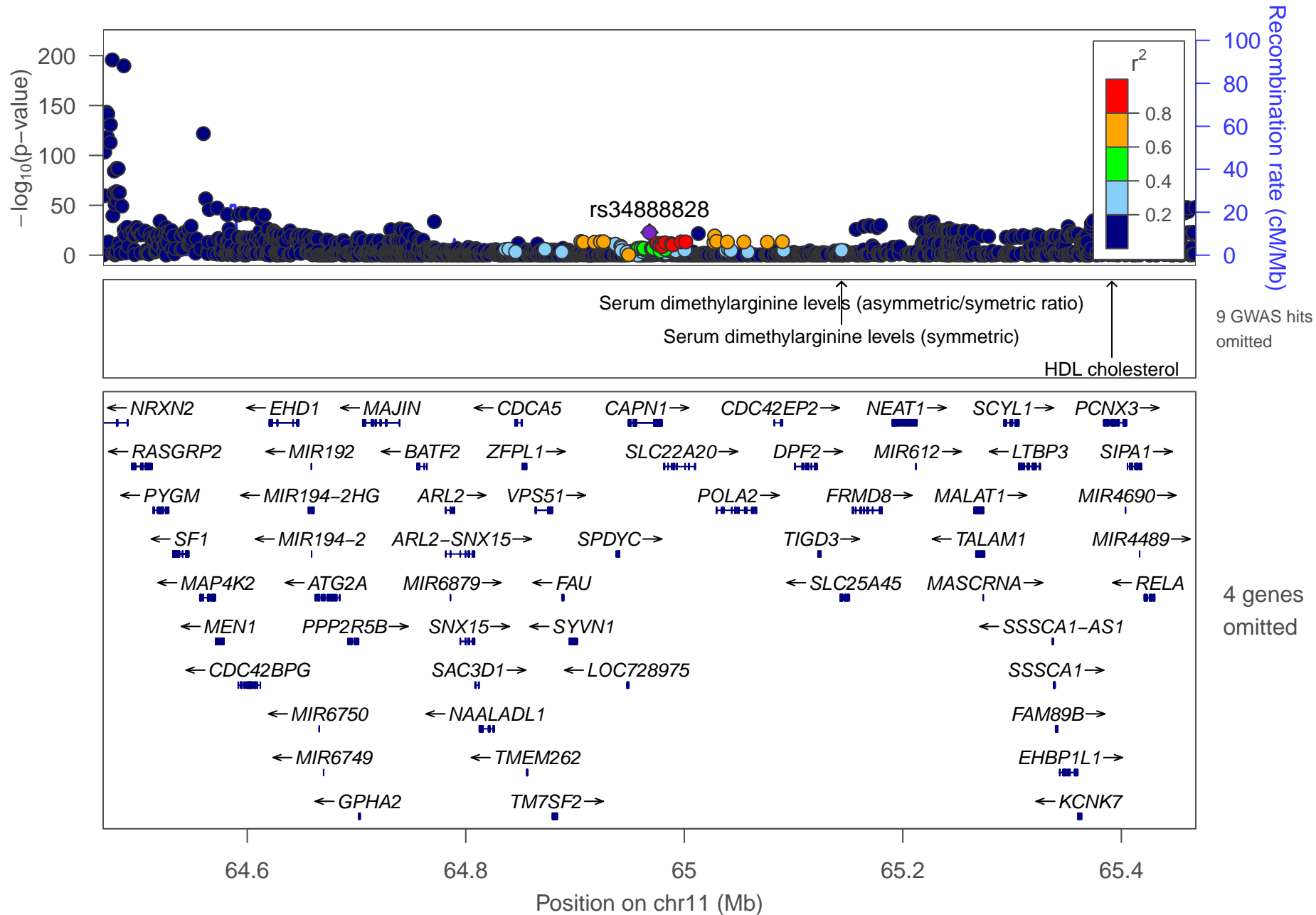


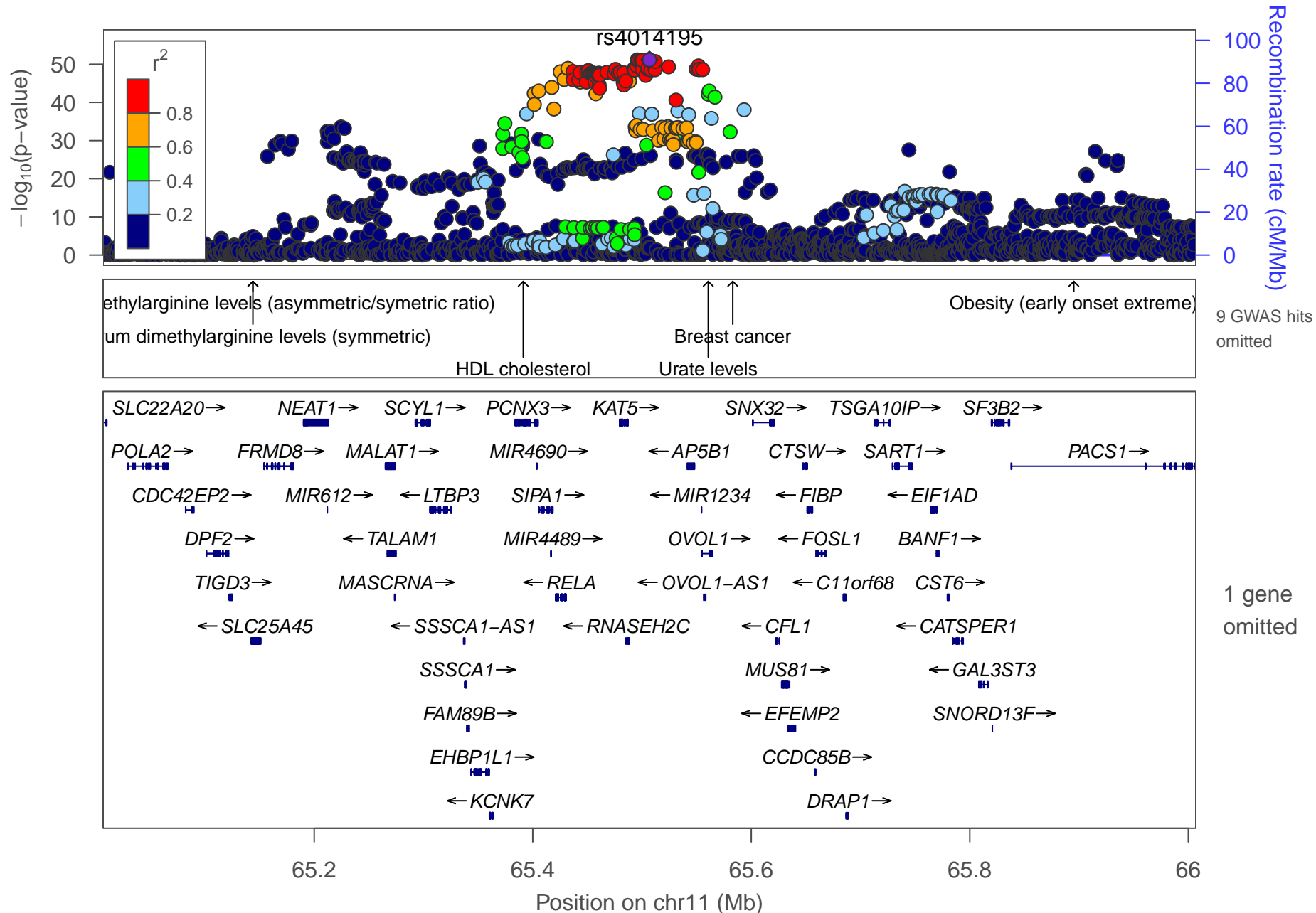


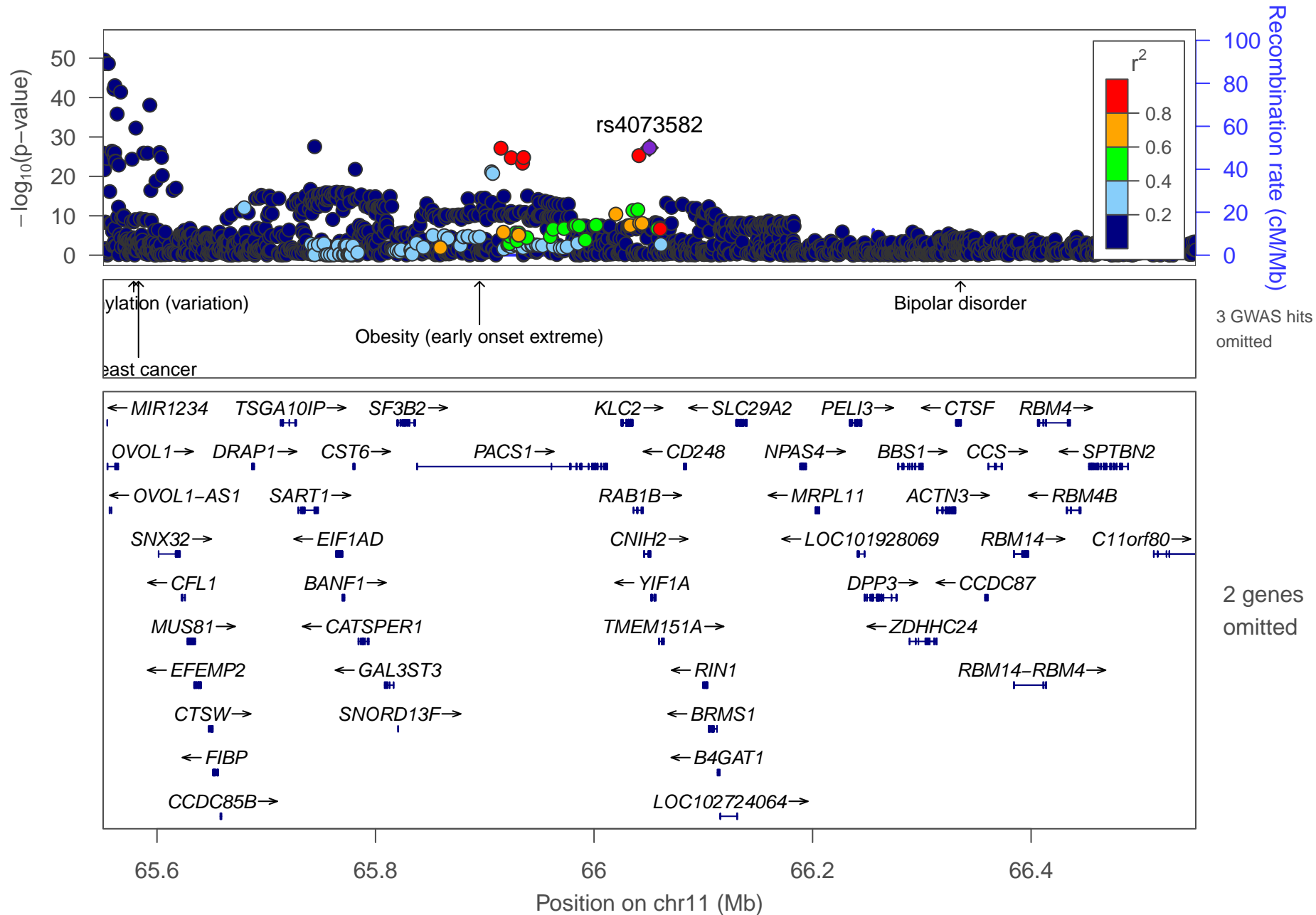


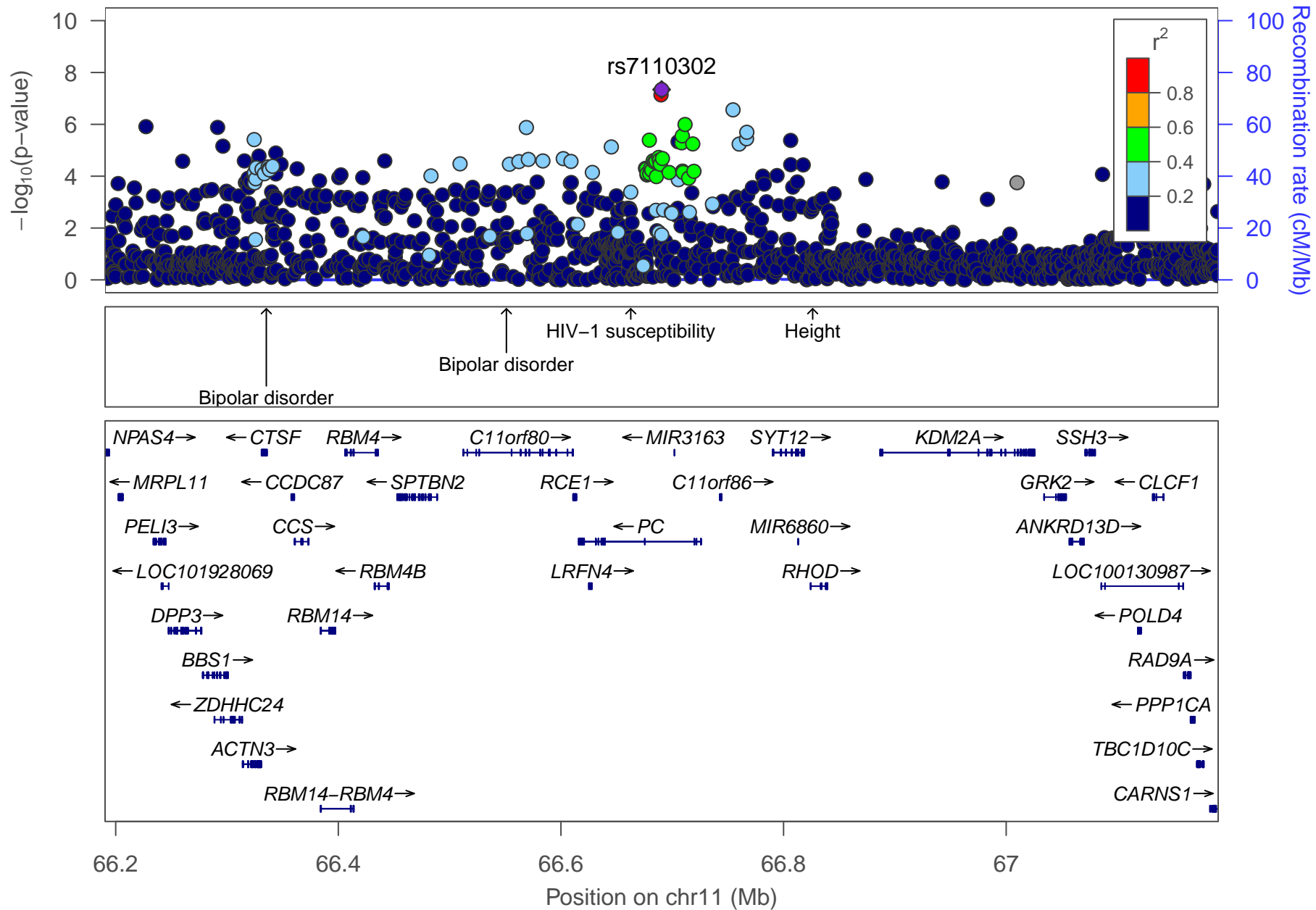


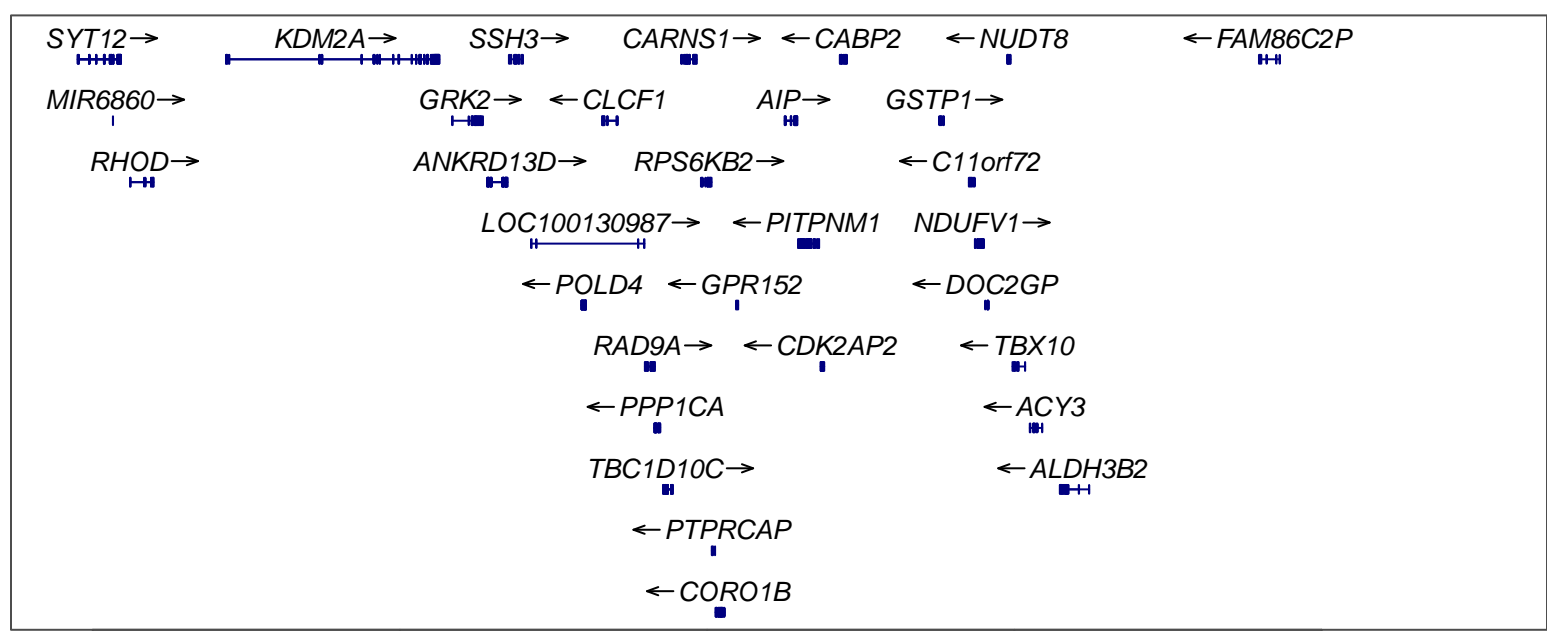
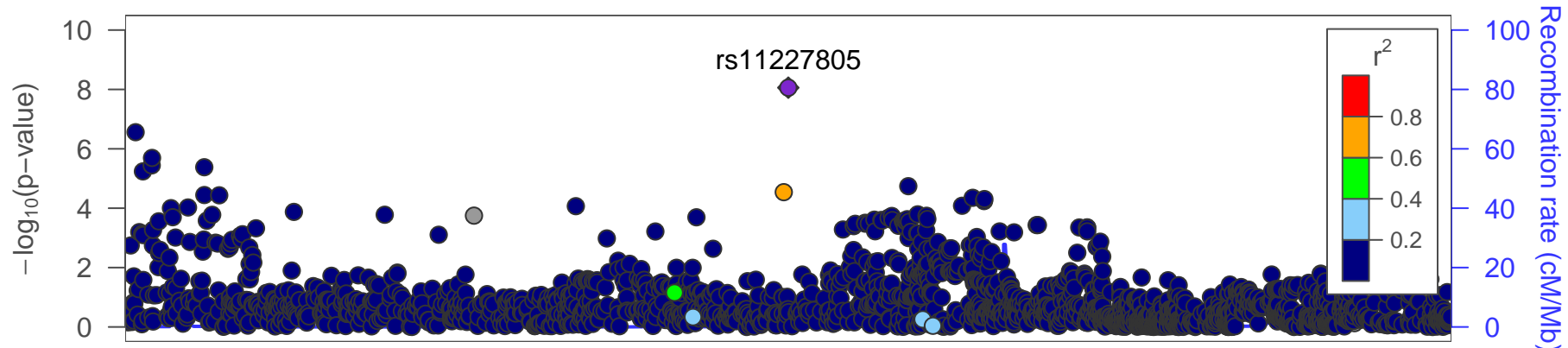








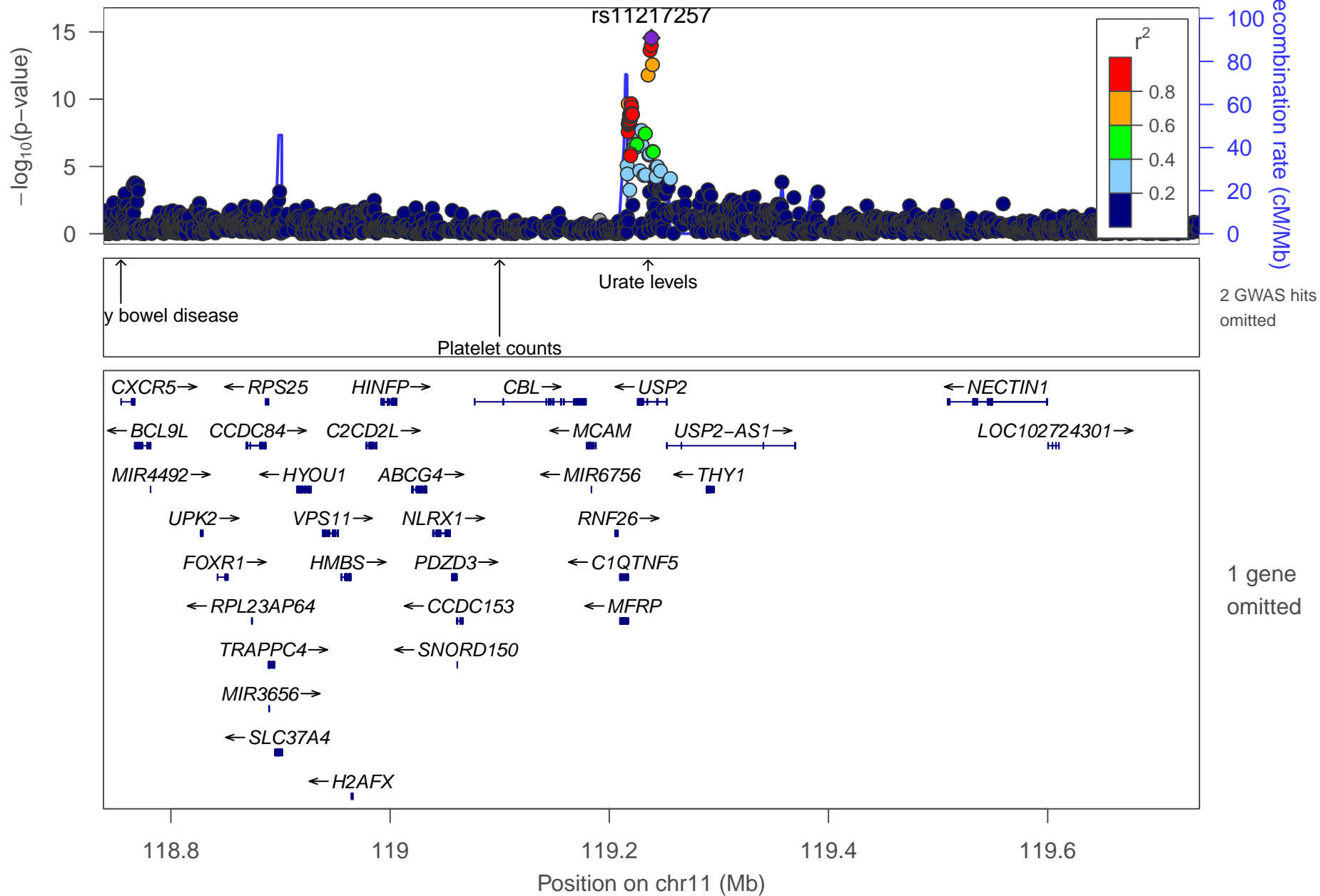


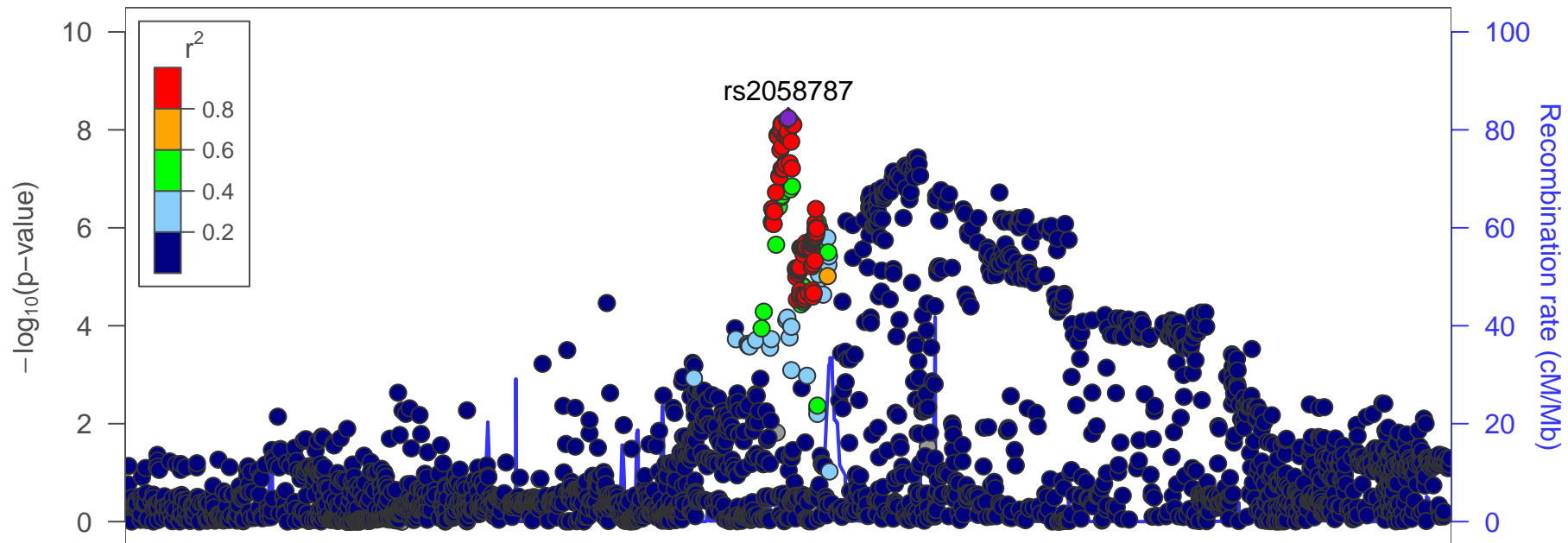


3 genes omitted

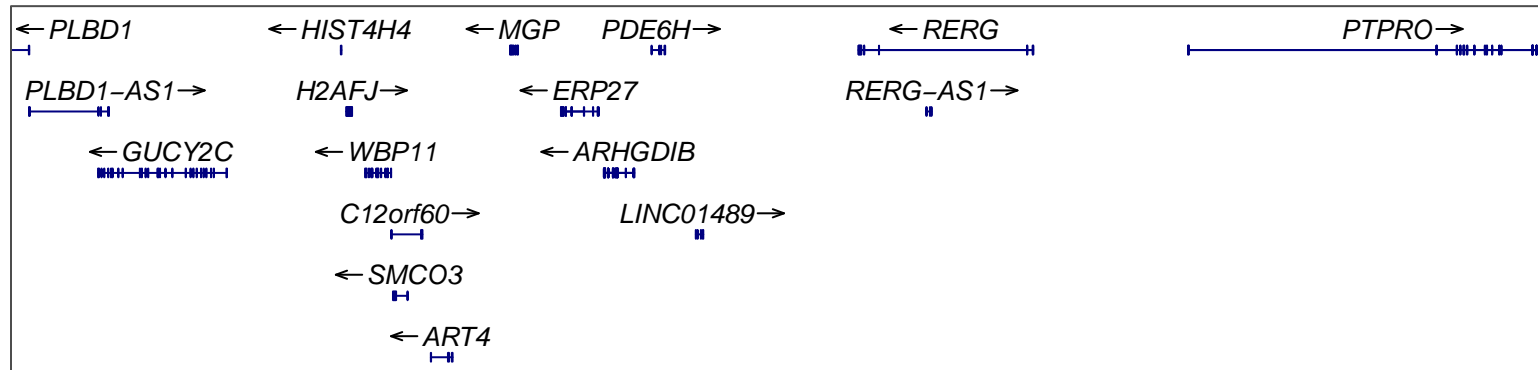
66.8 67 67.2 67.4 67.6

Position on chr11 (Mb)

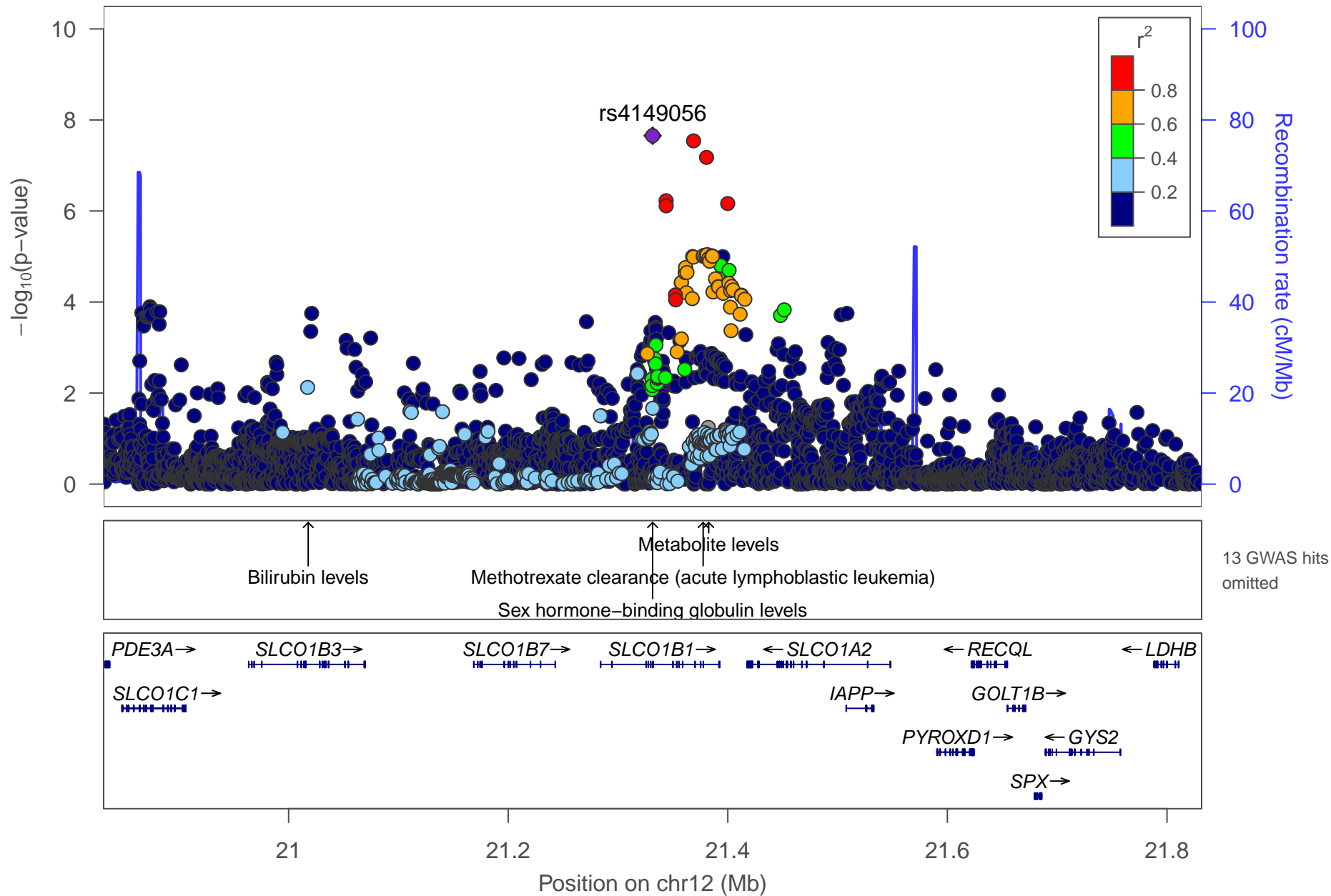


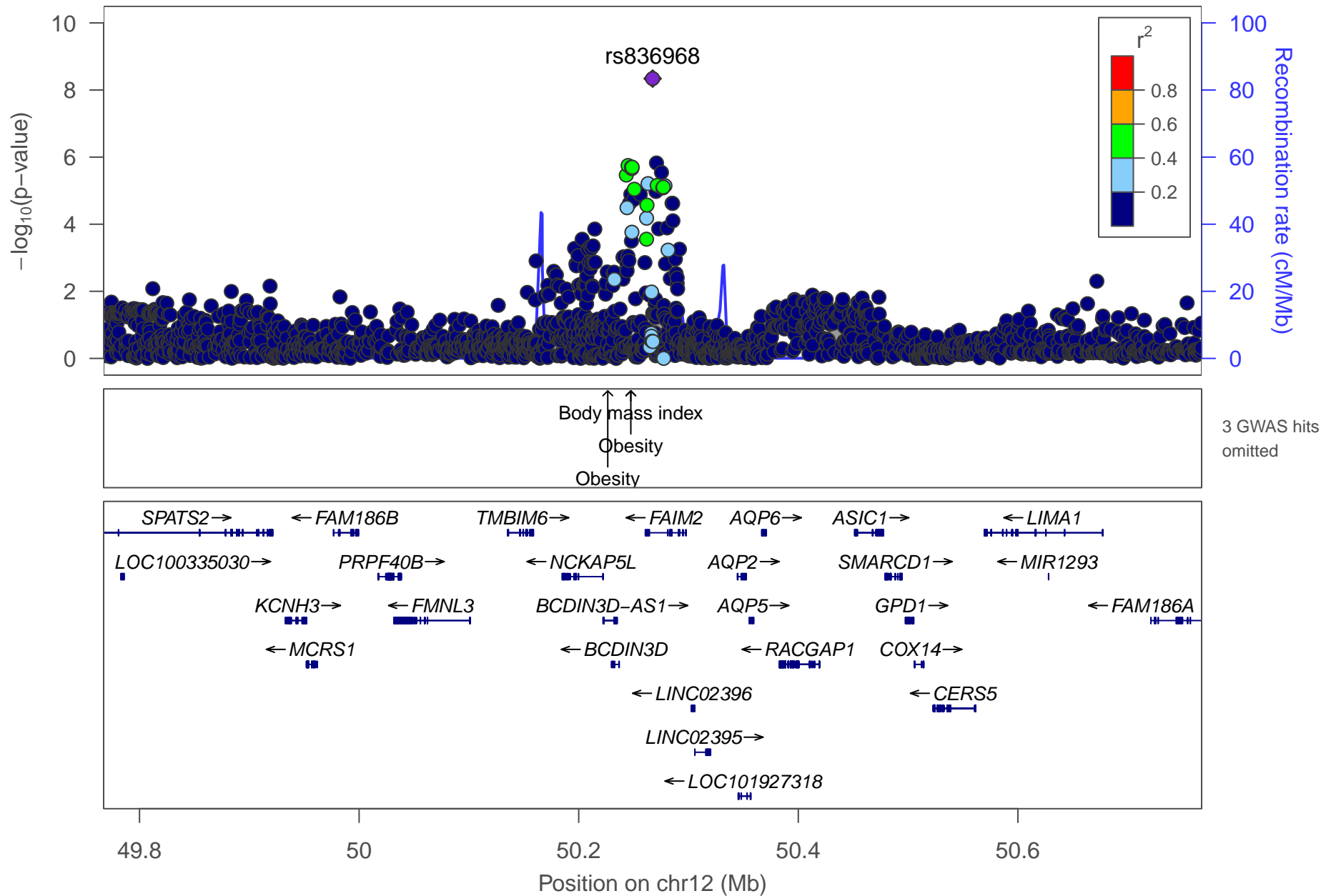


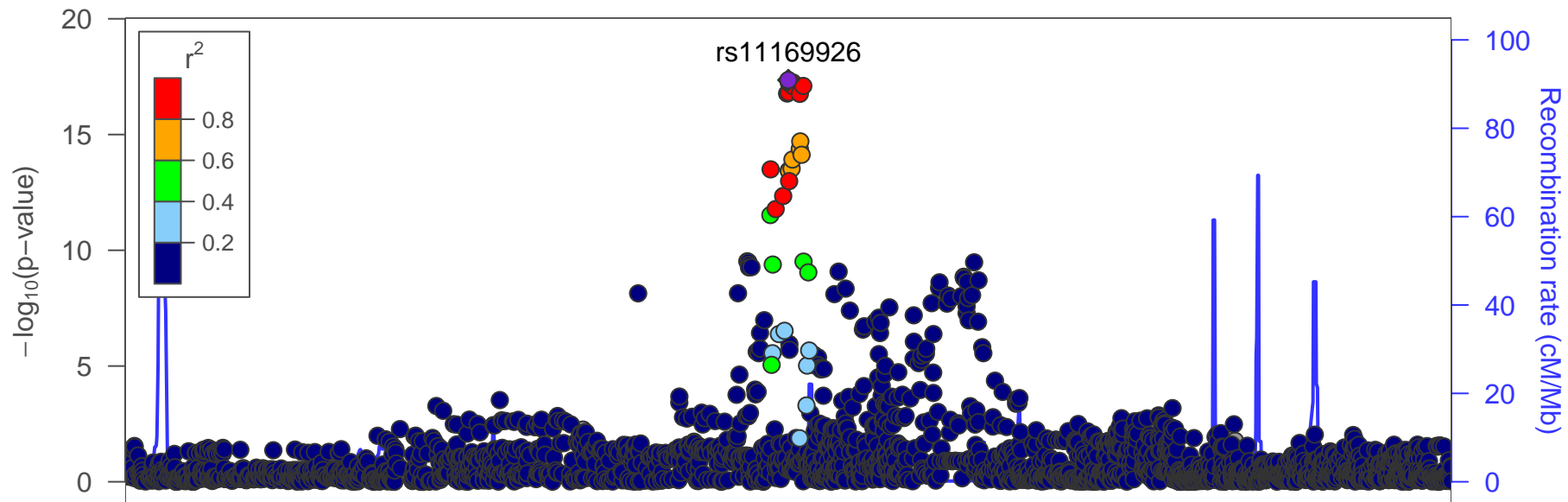
Pubertal anthropometrics ↑ Behavioural disinhibition (generation interaction) ↑



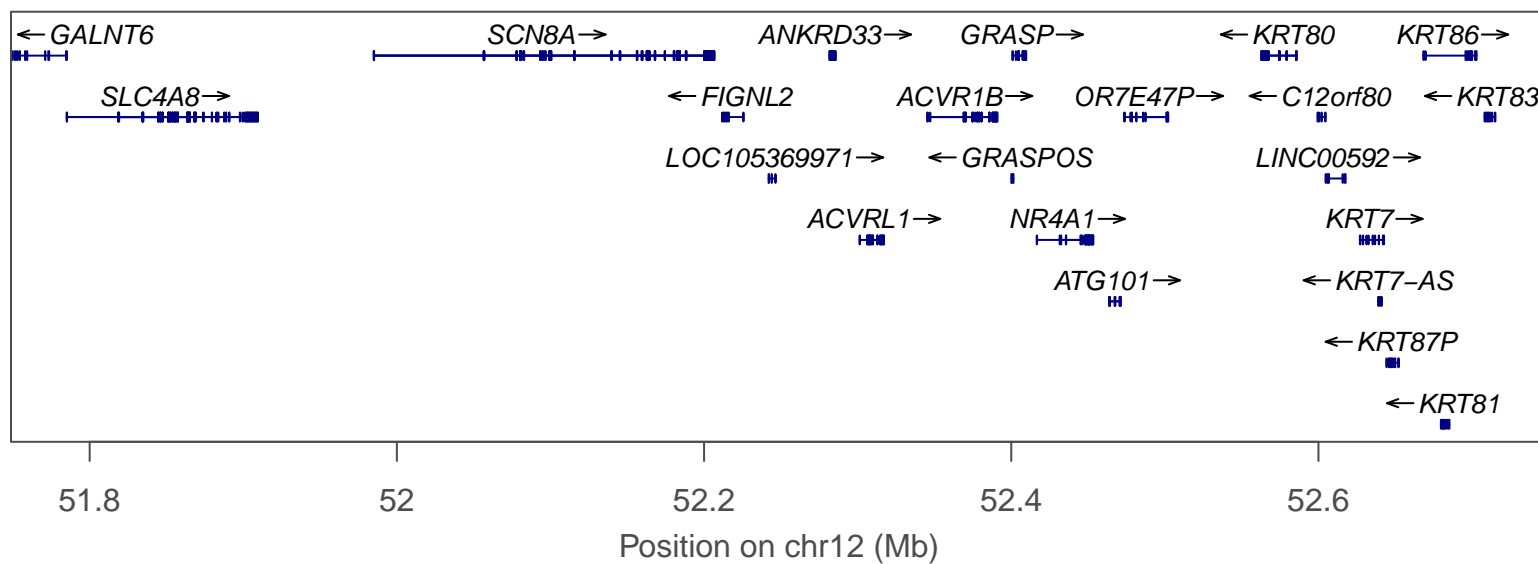
14.8 15 15.2 15.4 15.6
Position on chr12 (Mb)

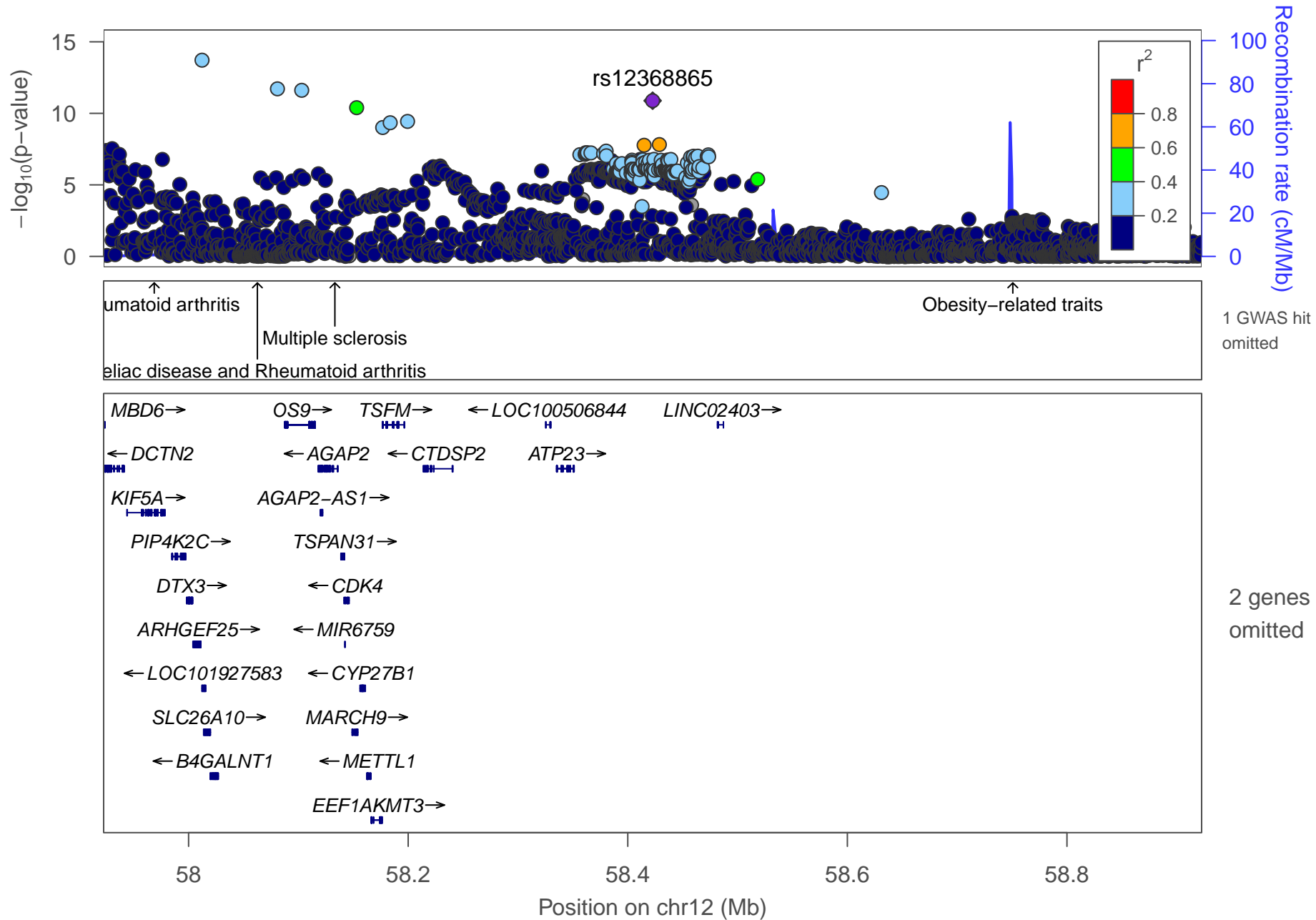


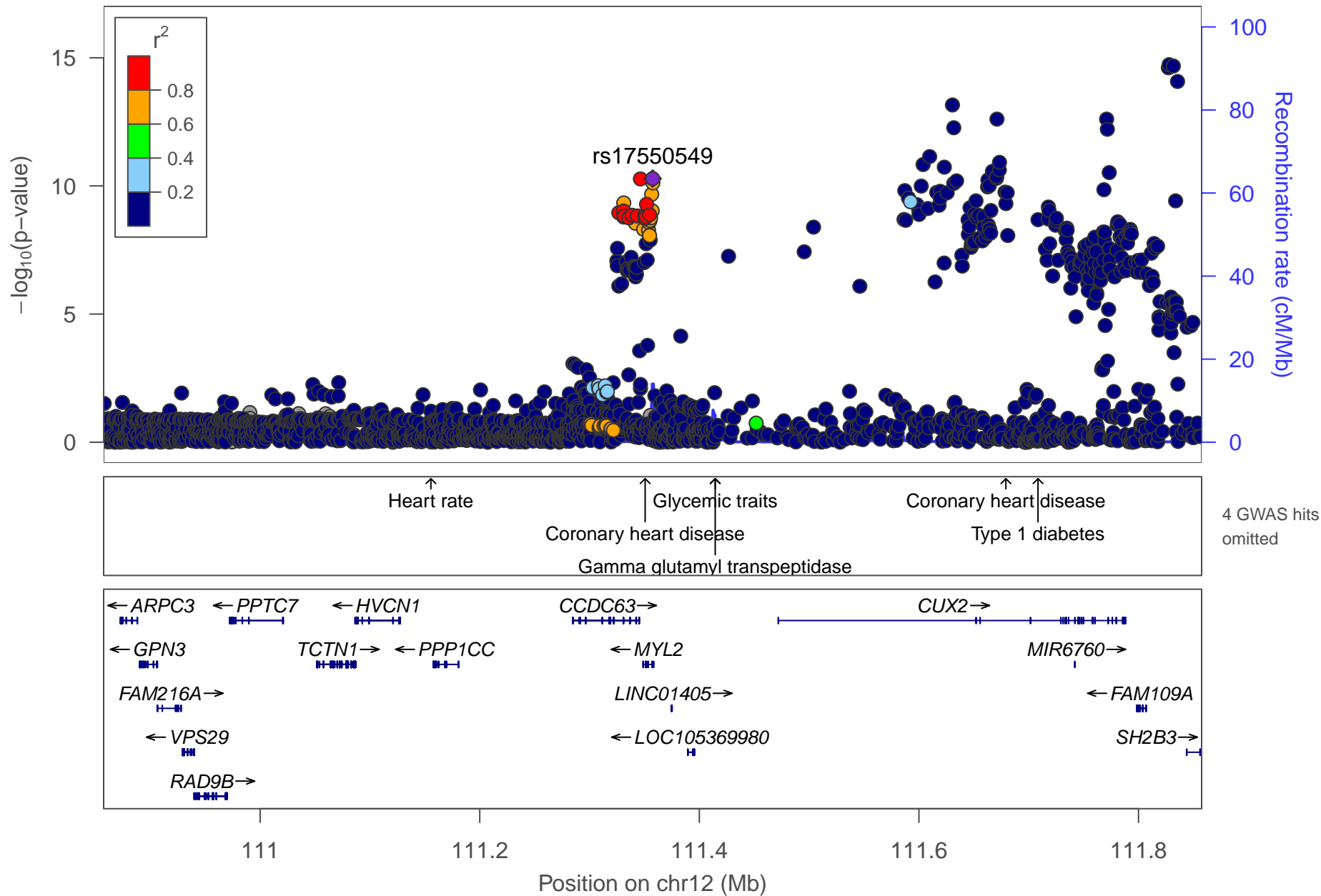


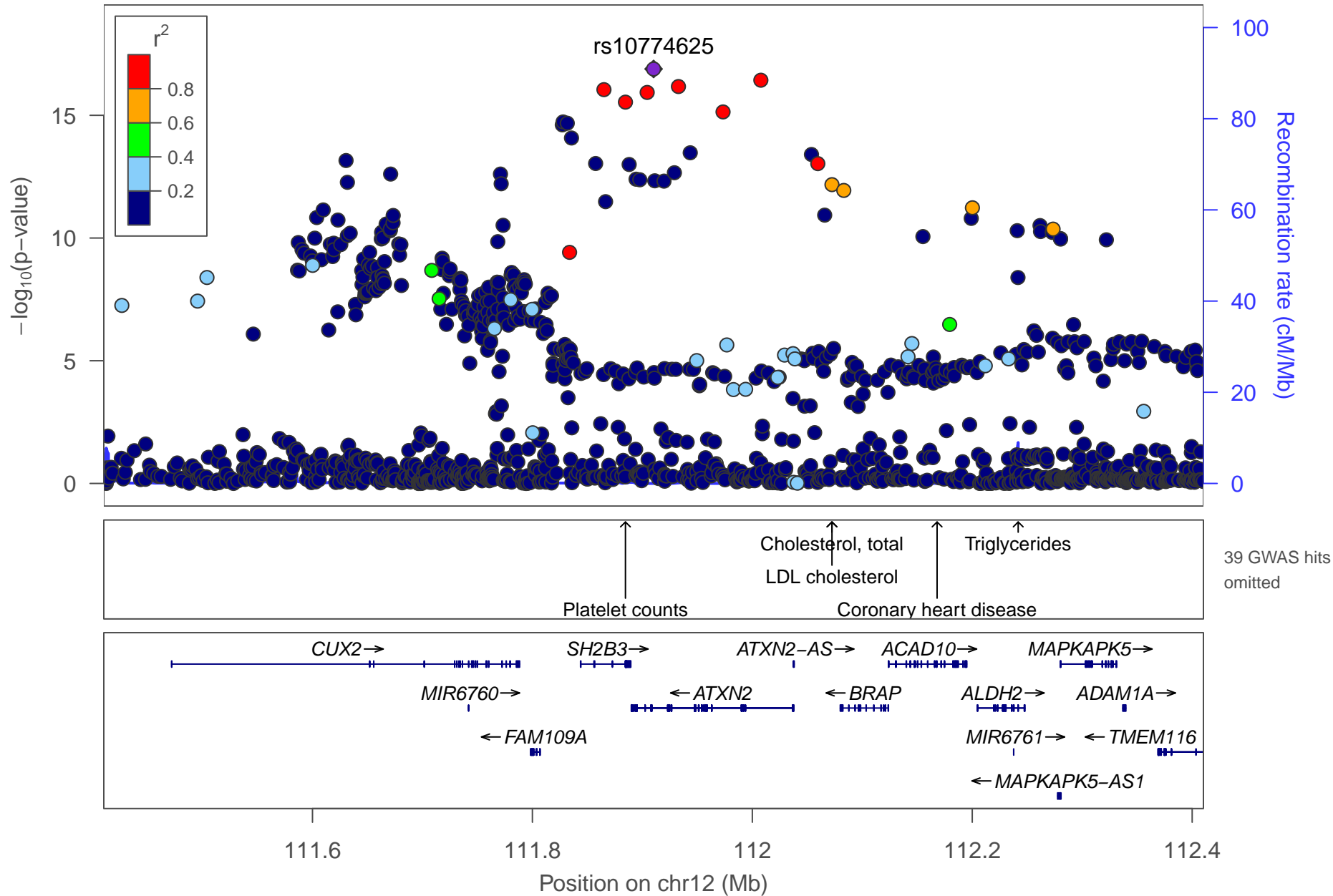


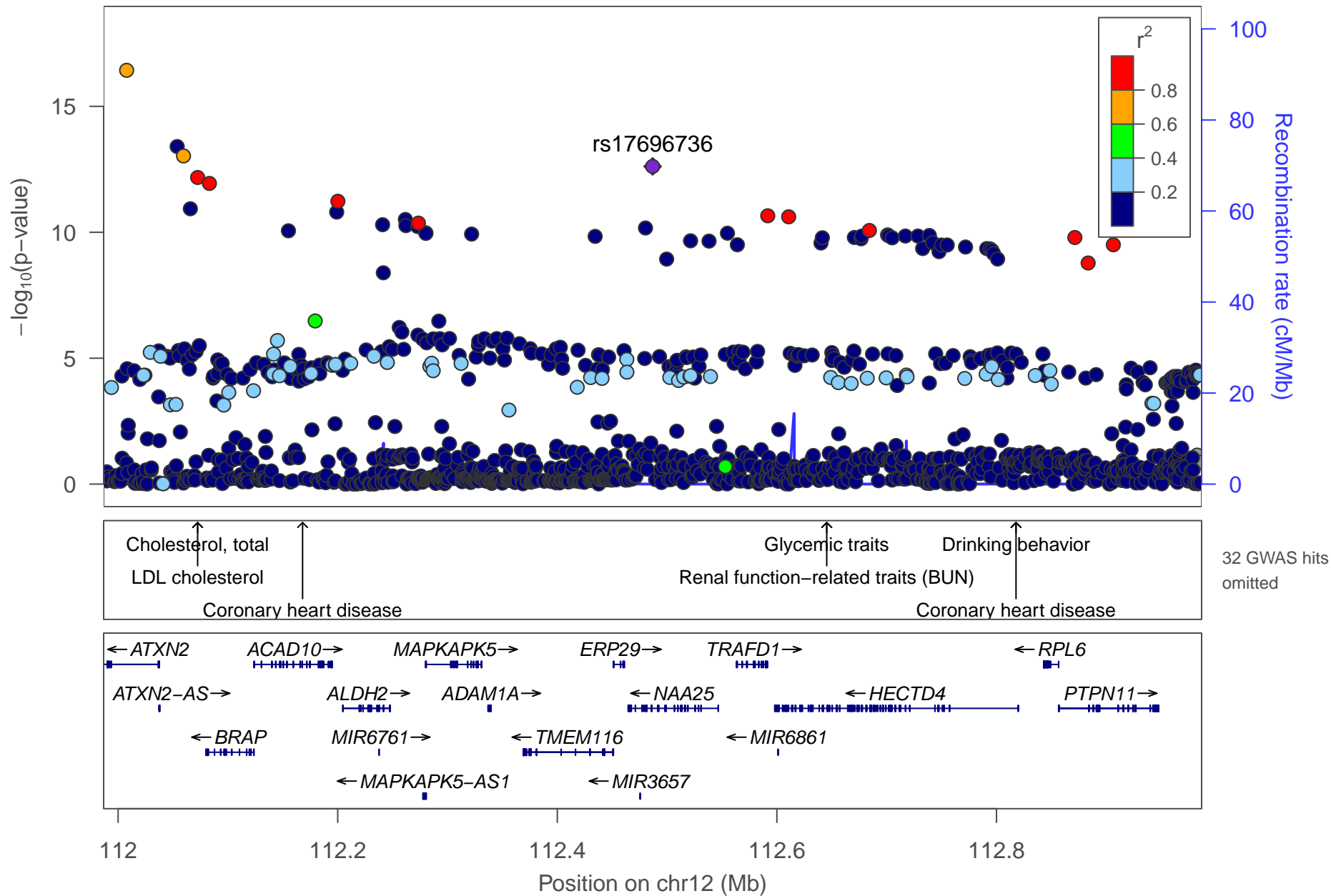
↑ Alzheimer's disease (cognitive decline) ↑ Urate levels ↑ Reasoning

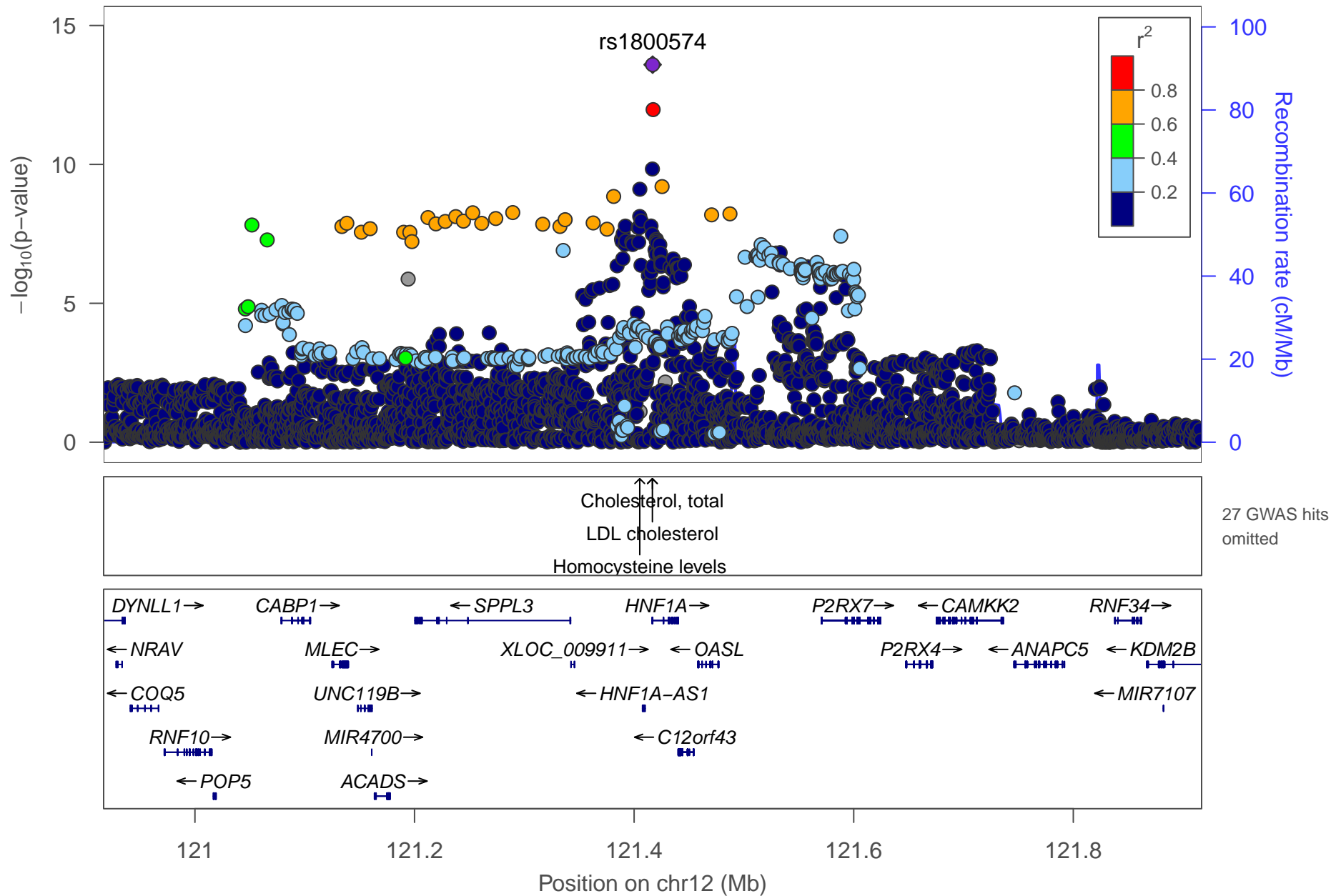


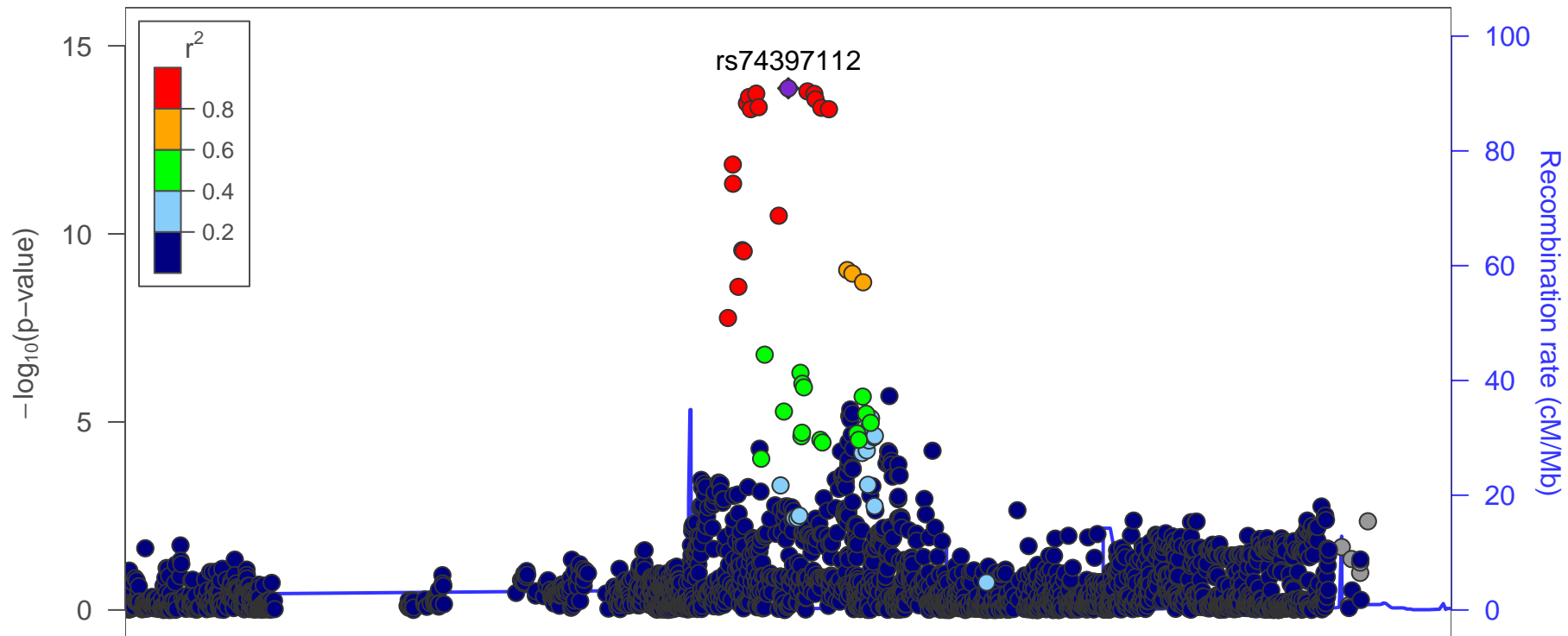




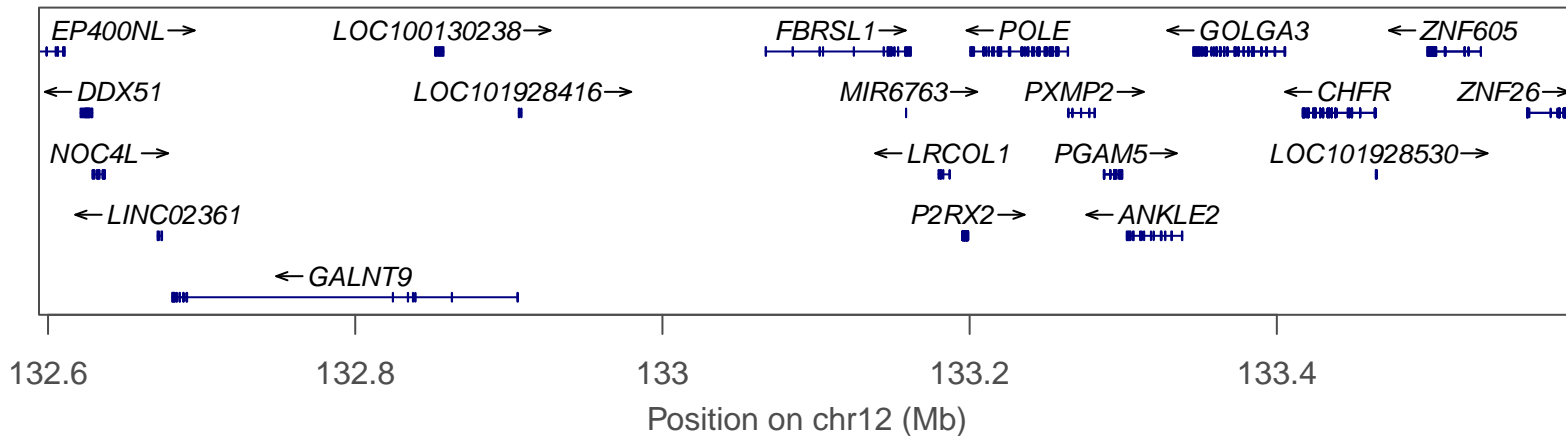


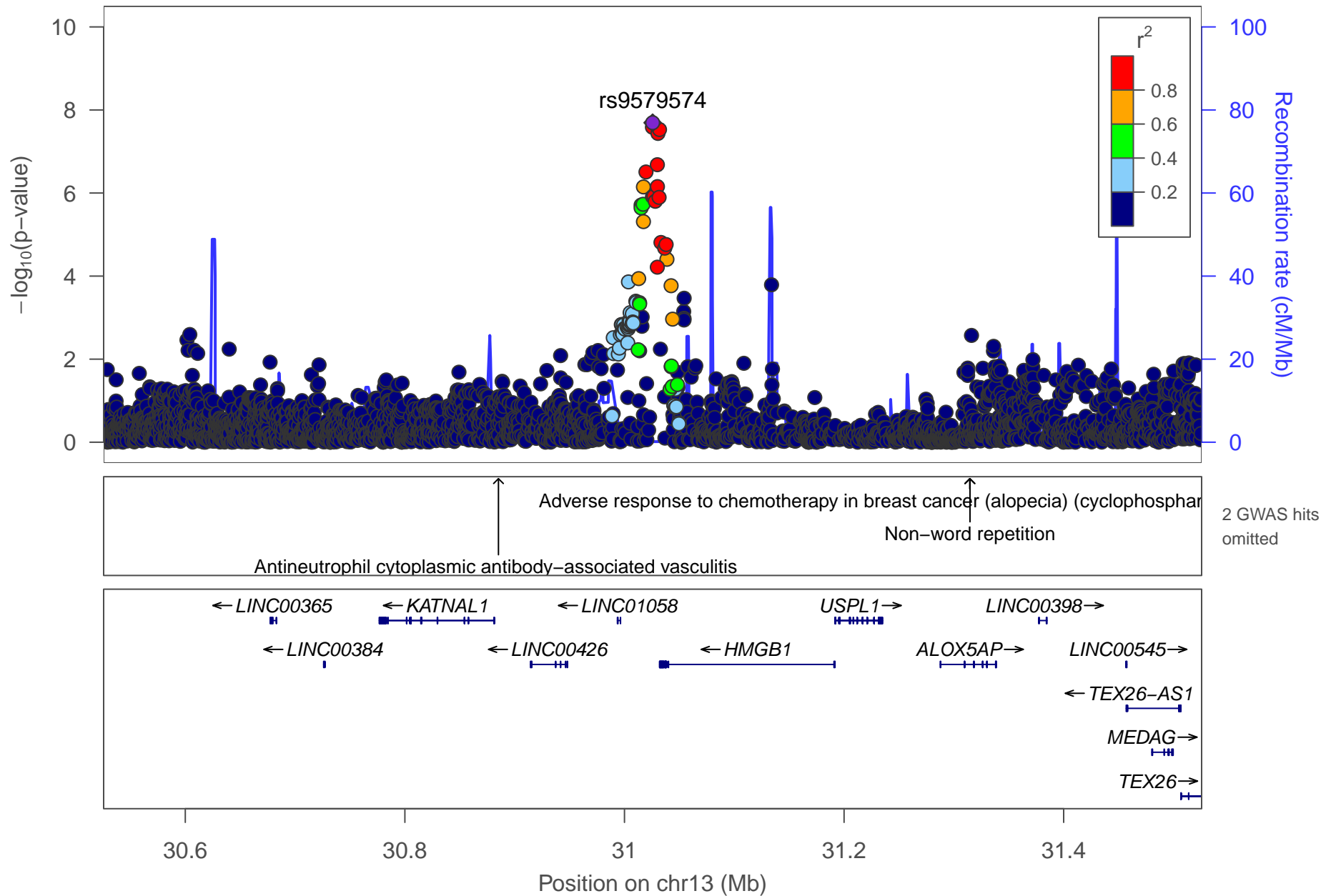


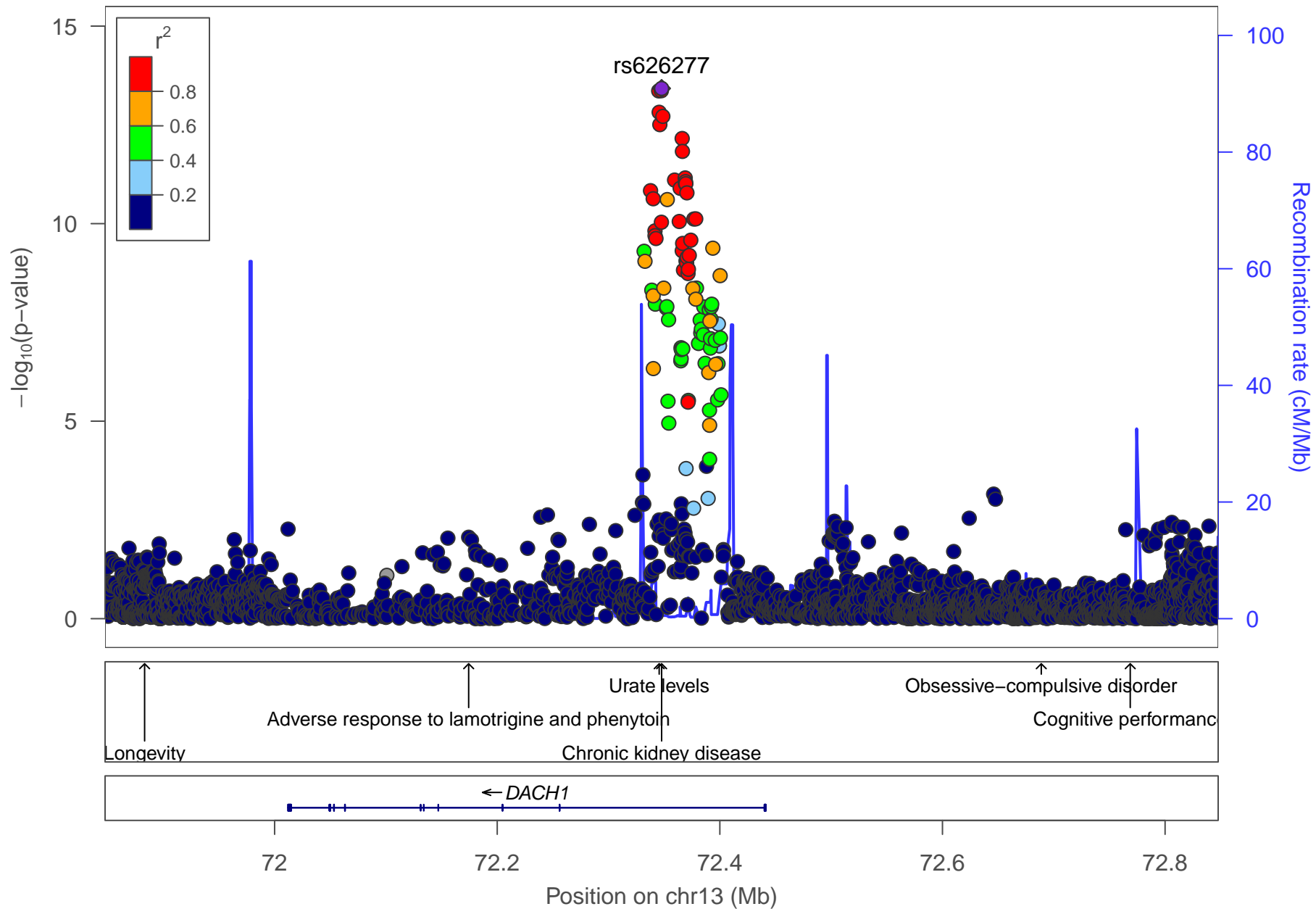


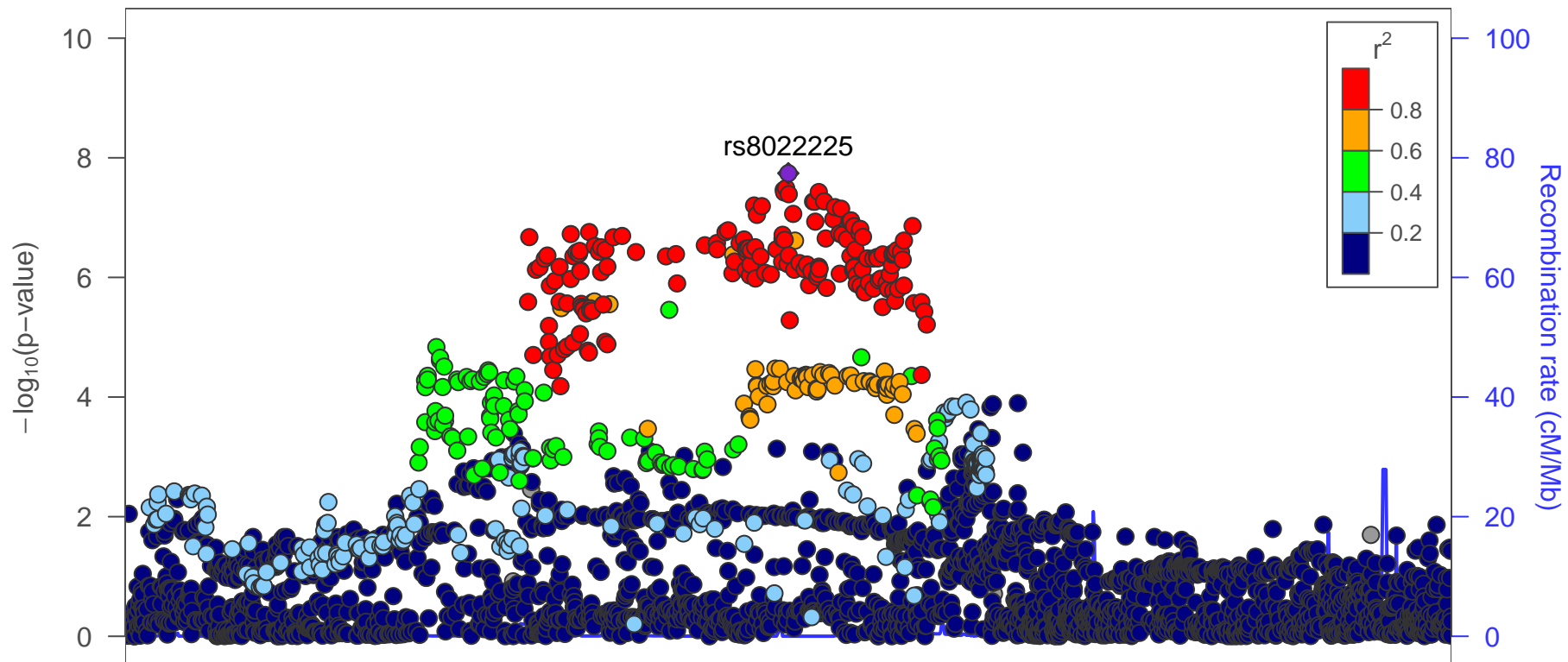


Immune response to smallpox vaccine (IL-6) ↑

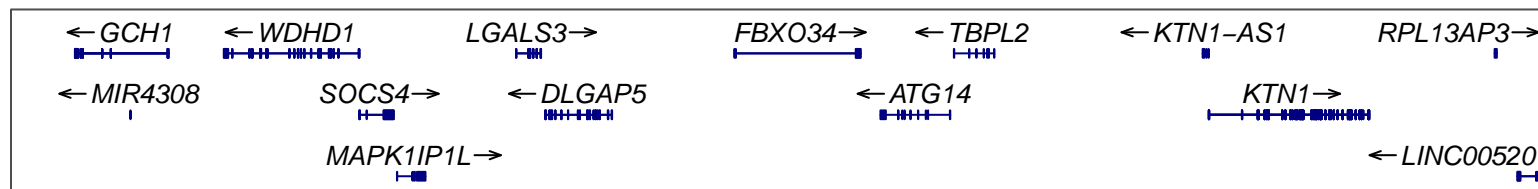






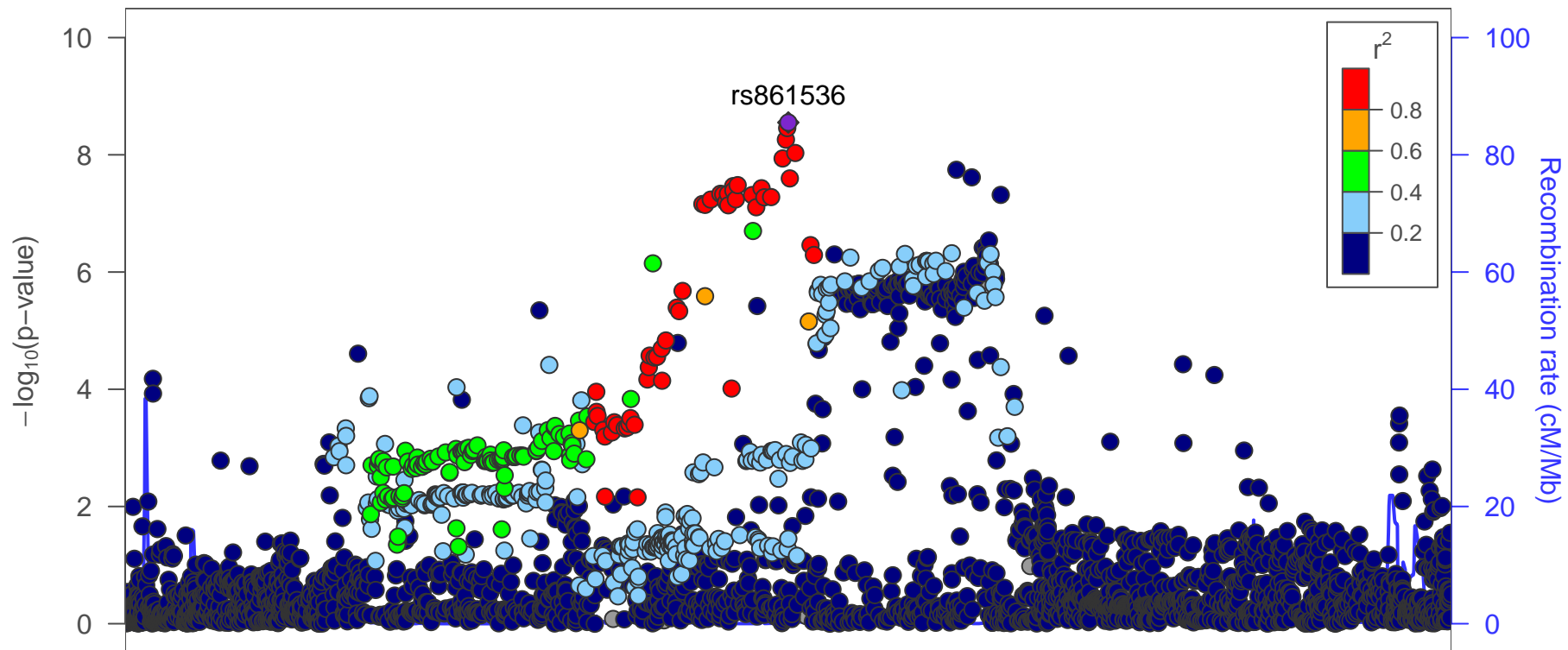


Obesity-related traits
 Rheumatoid arthritis
 Protein biomarker
 Adverse response to chemotherapy (neutropenia/



55.4 55.6 55.8 56 56.2

Position on chr14 (Mb)



Red blood cell traits

Bone mineral density

Bipolar disorder

LOC105378183 →

← *CKB*

KLC1 →

← *PPP1R13B*

← *C14orf2*

ASPG →

EIF5 →

MARK3 →

← *BAG5*

← *XRCC3*

LINC00637 →

TDRD9 →

MIR203A →

SNORA28 →

TRMT61A →

ZFYVE21 →

← *RD3L*

← *MIR203B*

APOPT1 →

KIF26A →

103.8

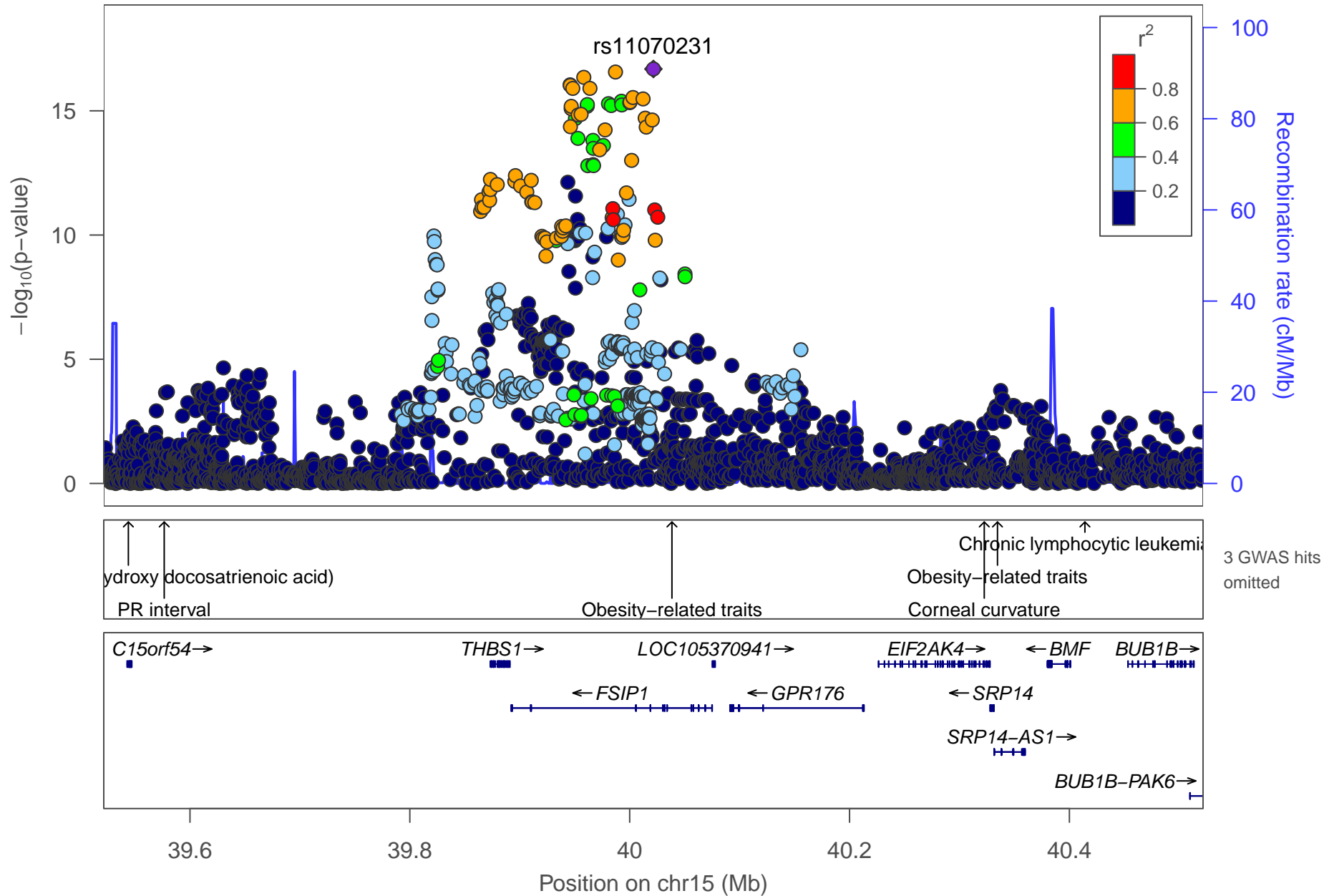
104

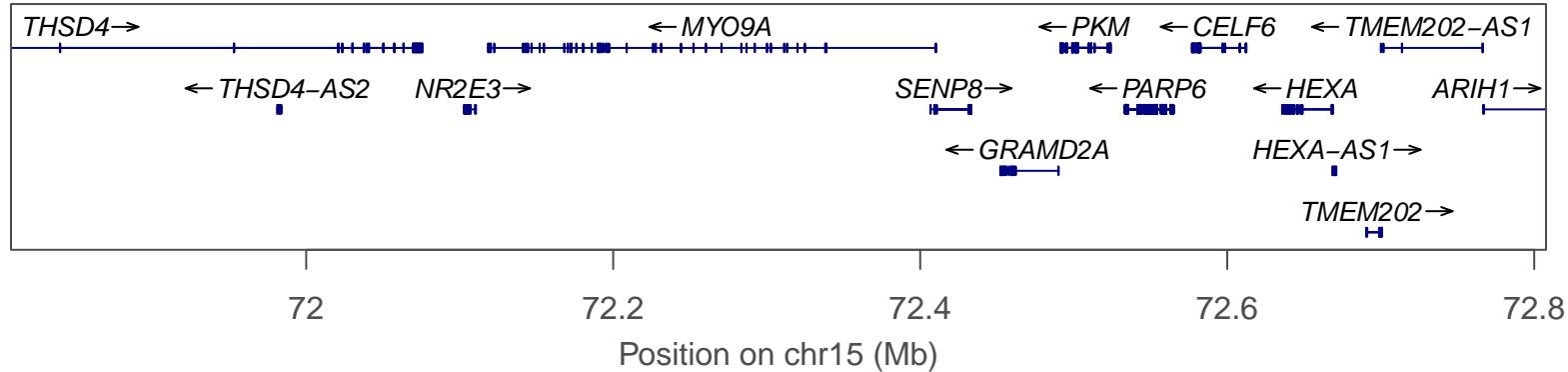
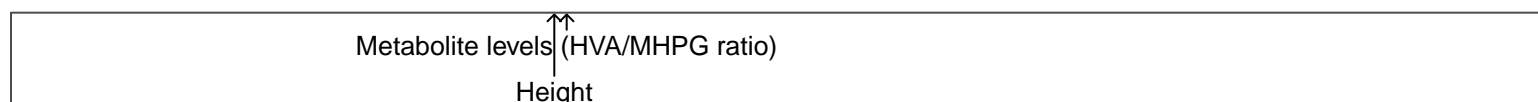
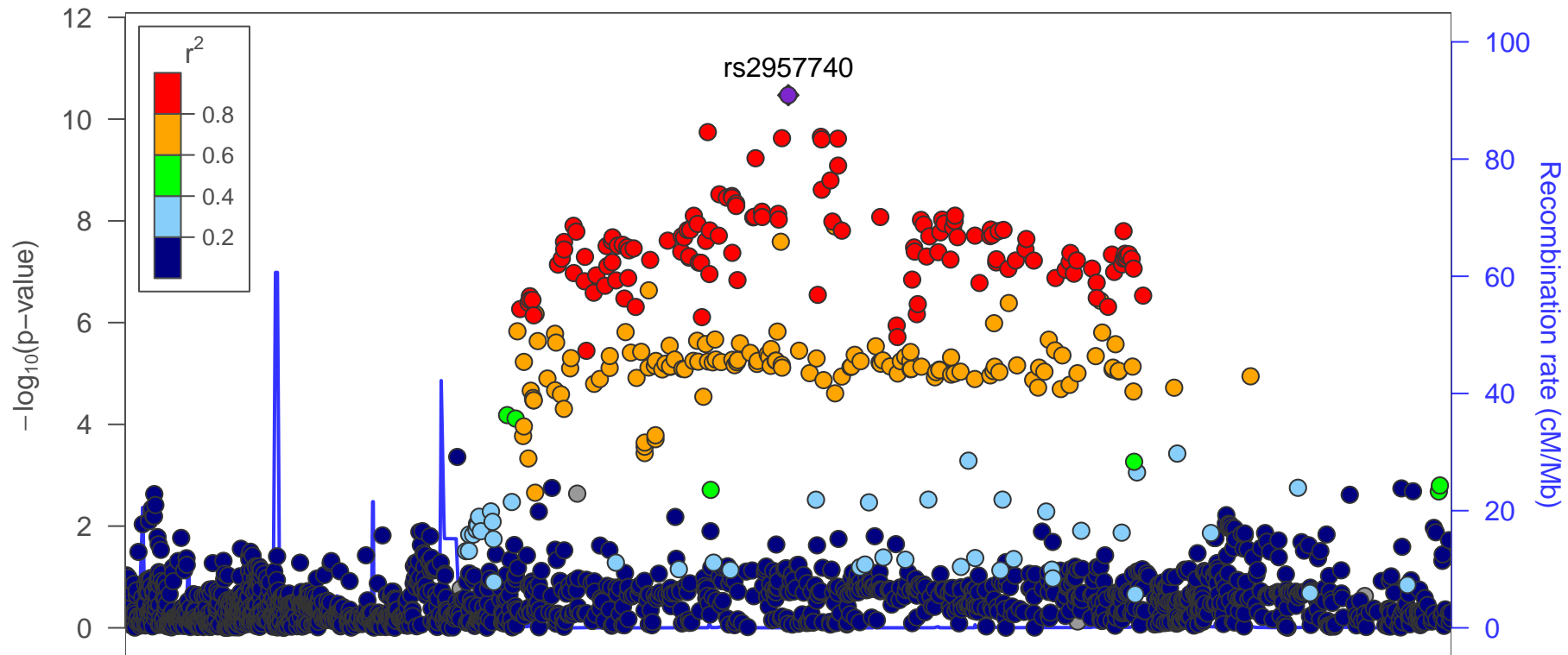
104.2

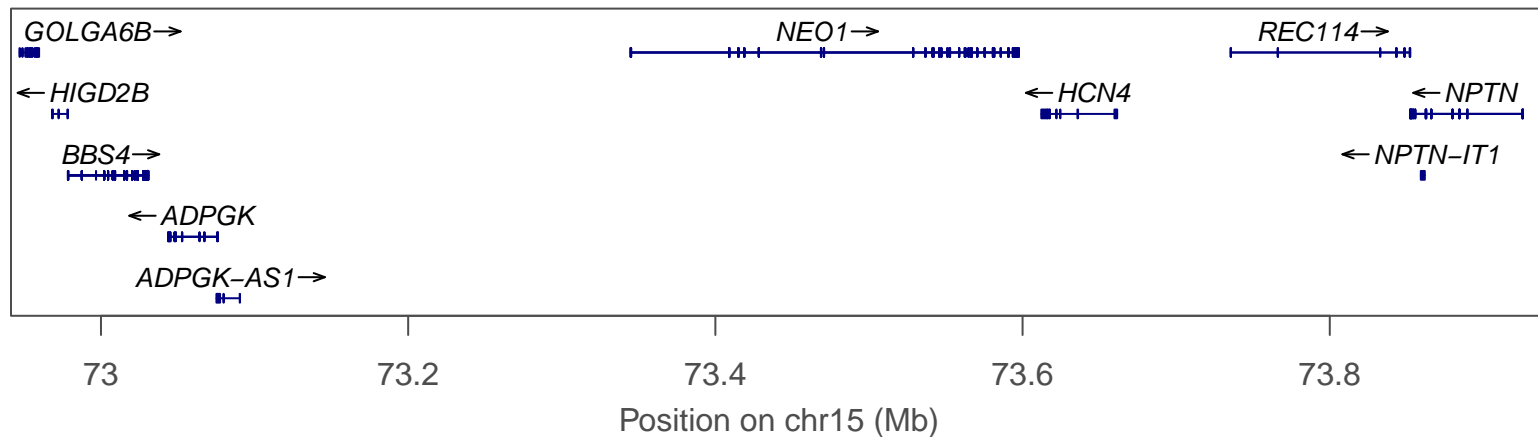
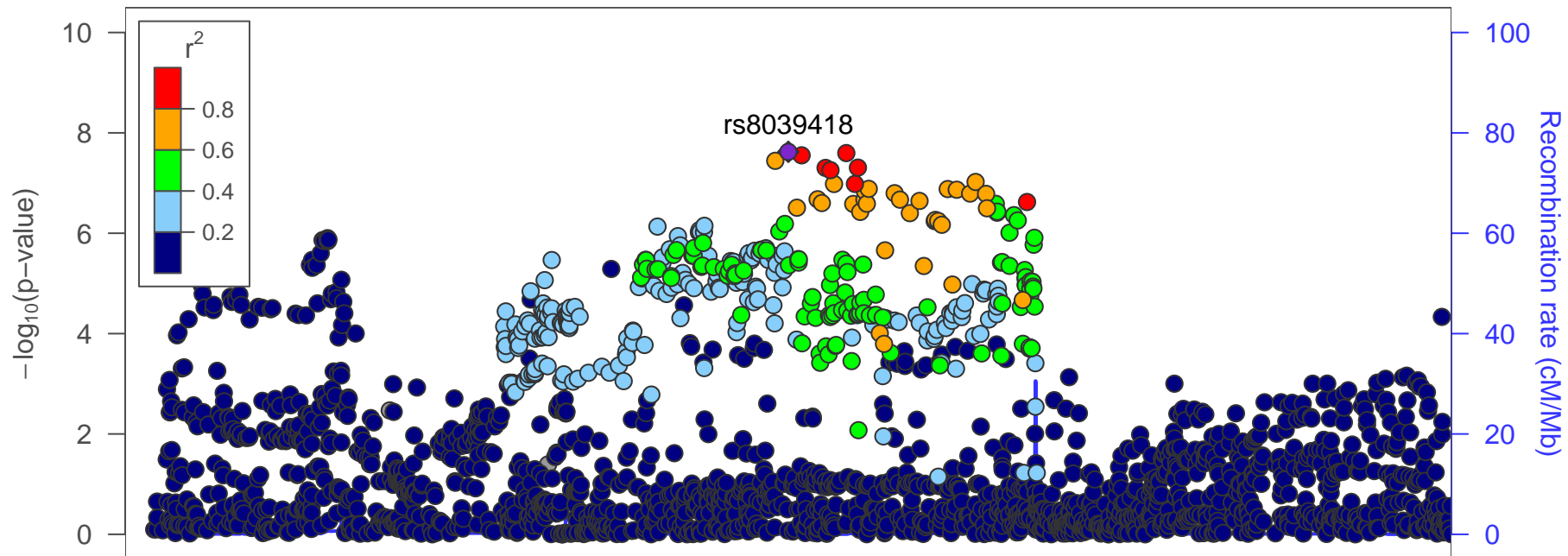
104.4

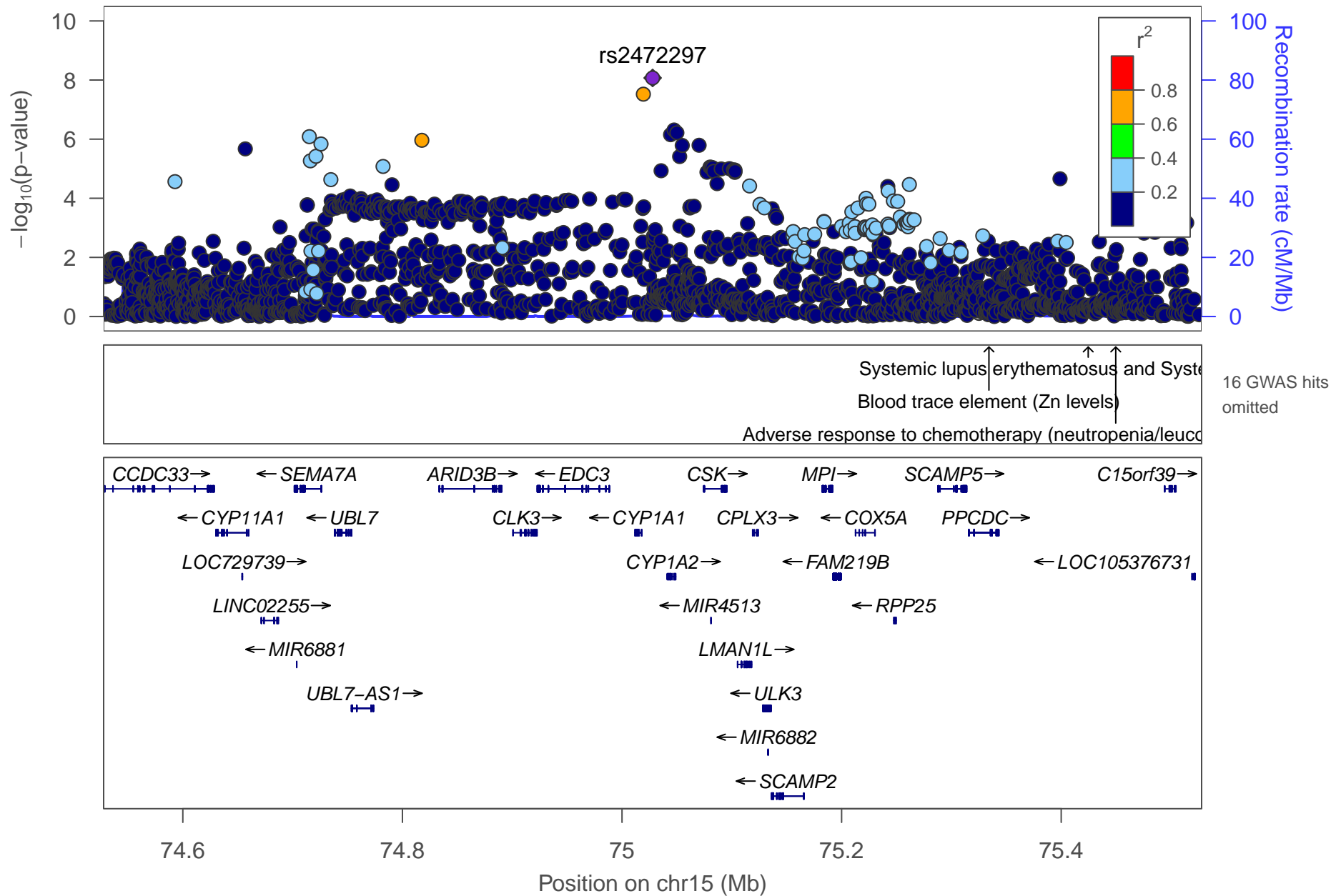
104.6

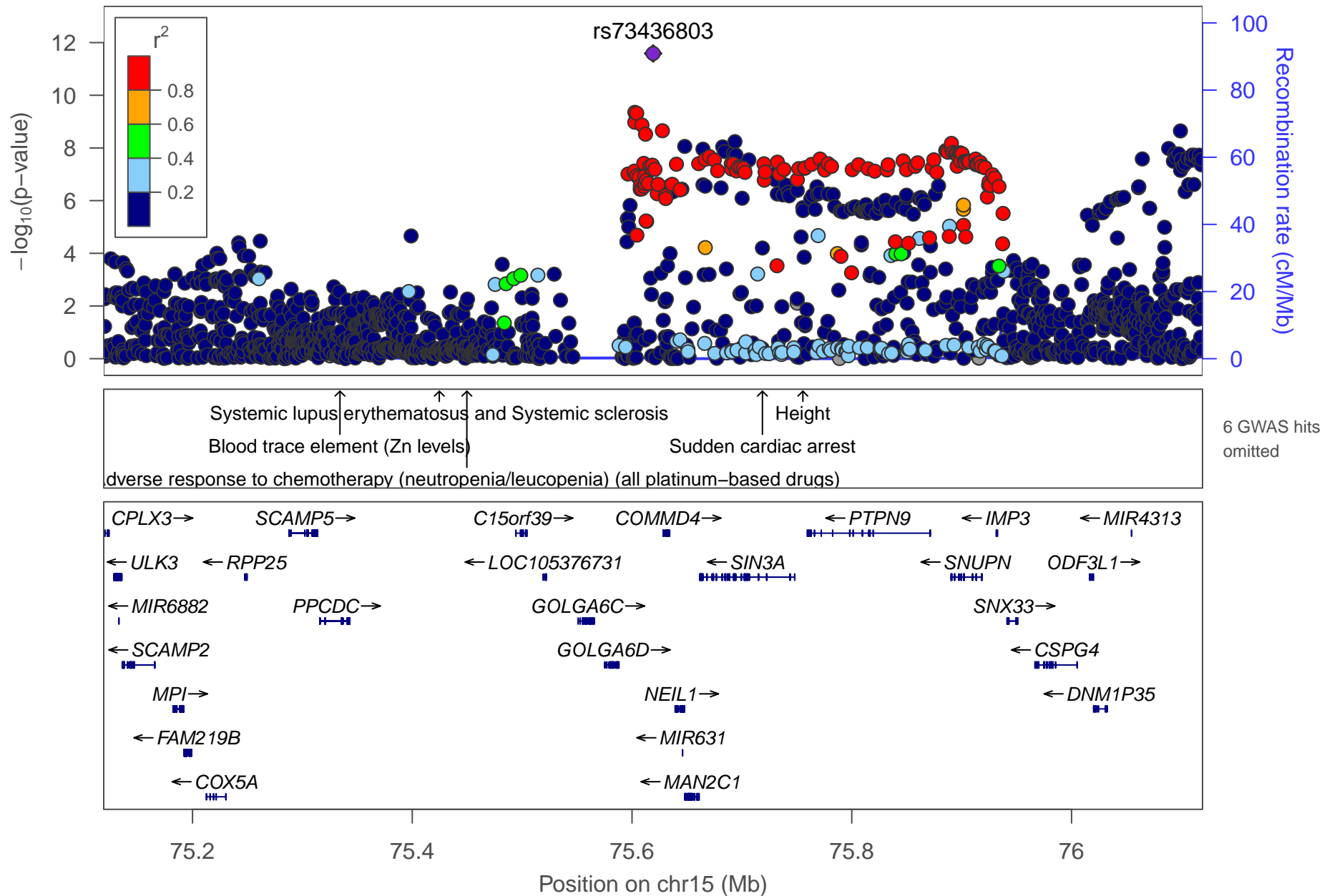
Position on chr14 (Mb)

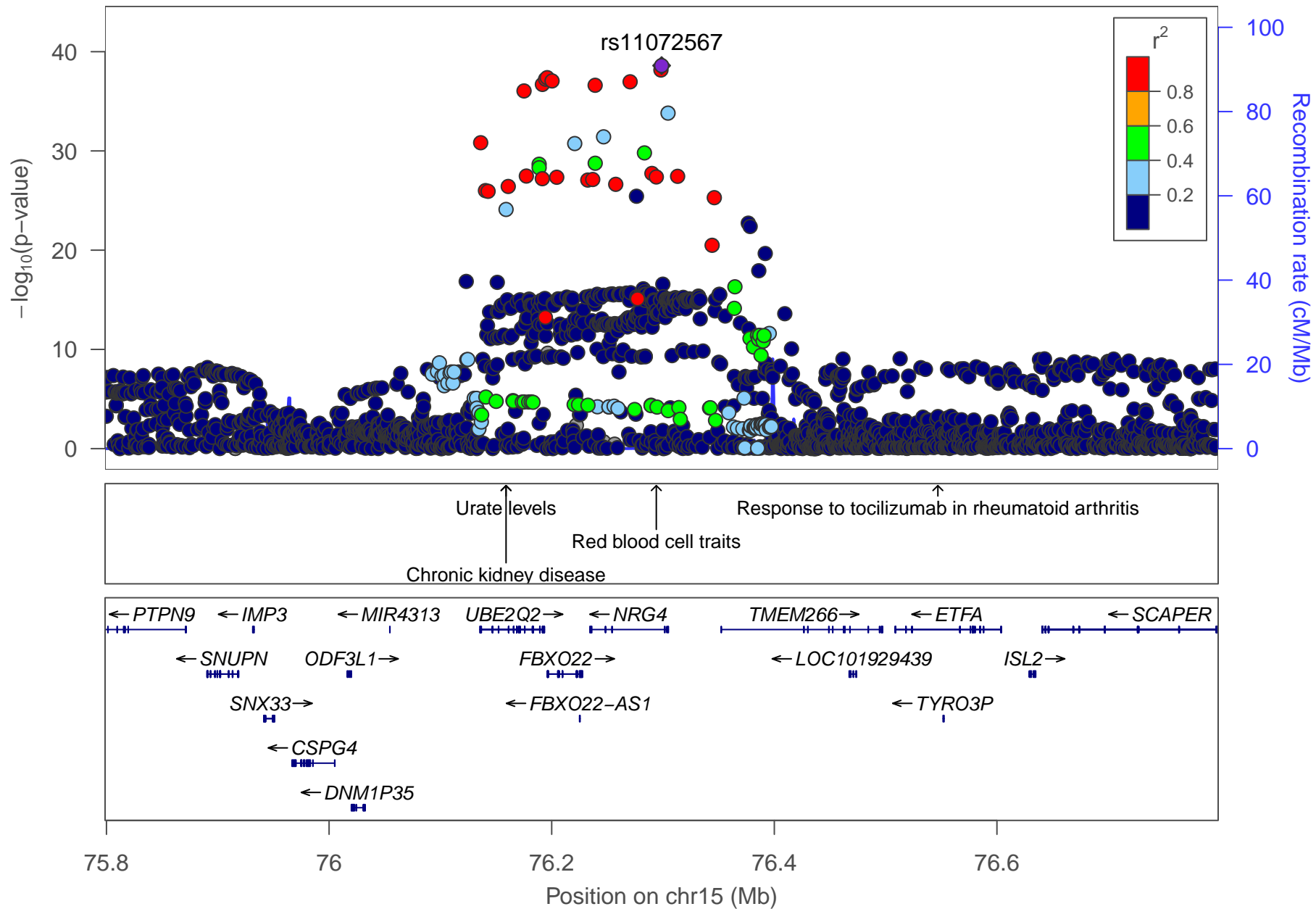


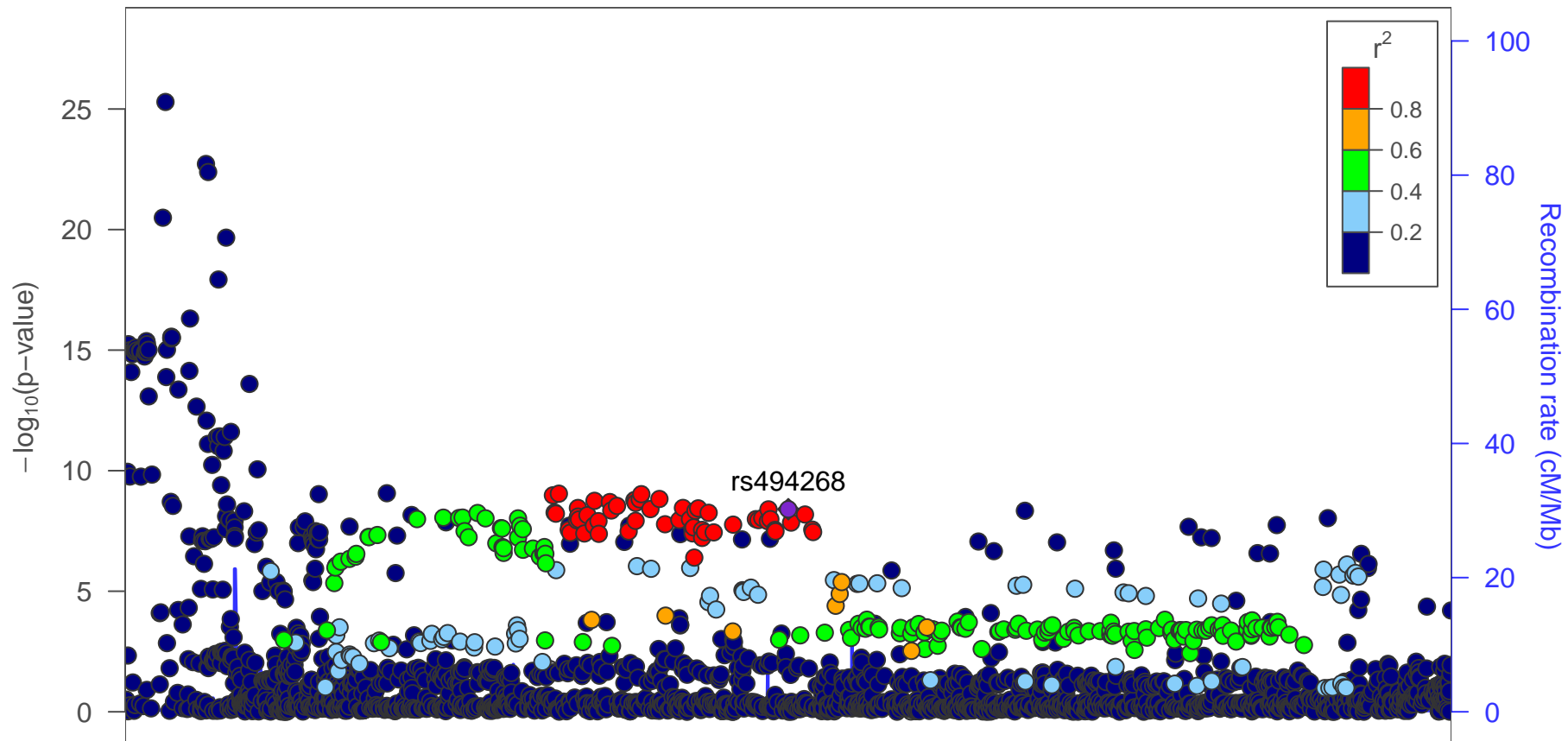








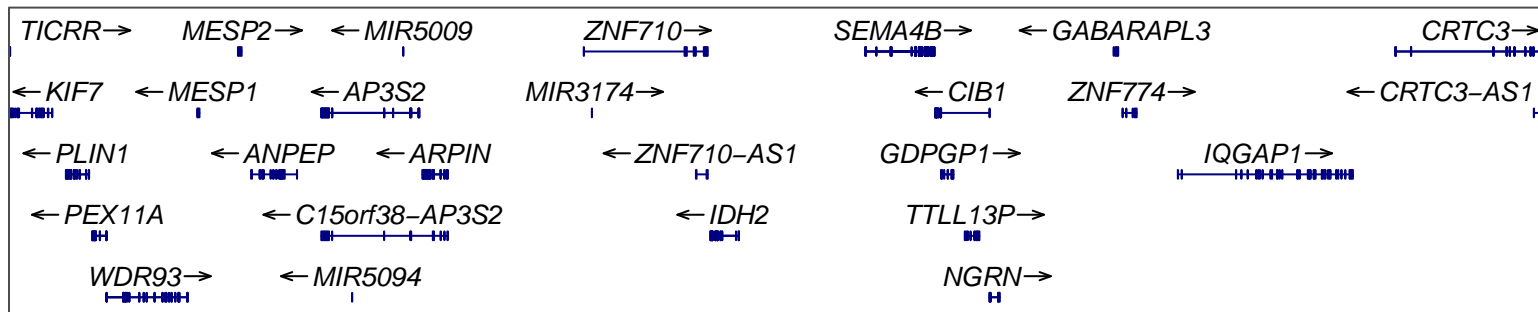
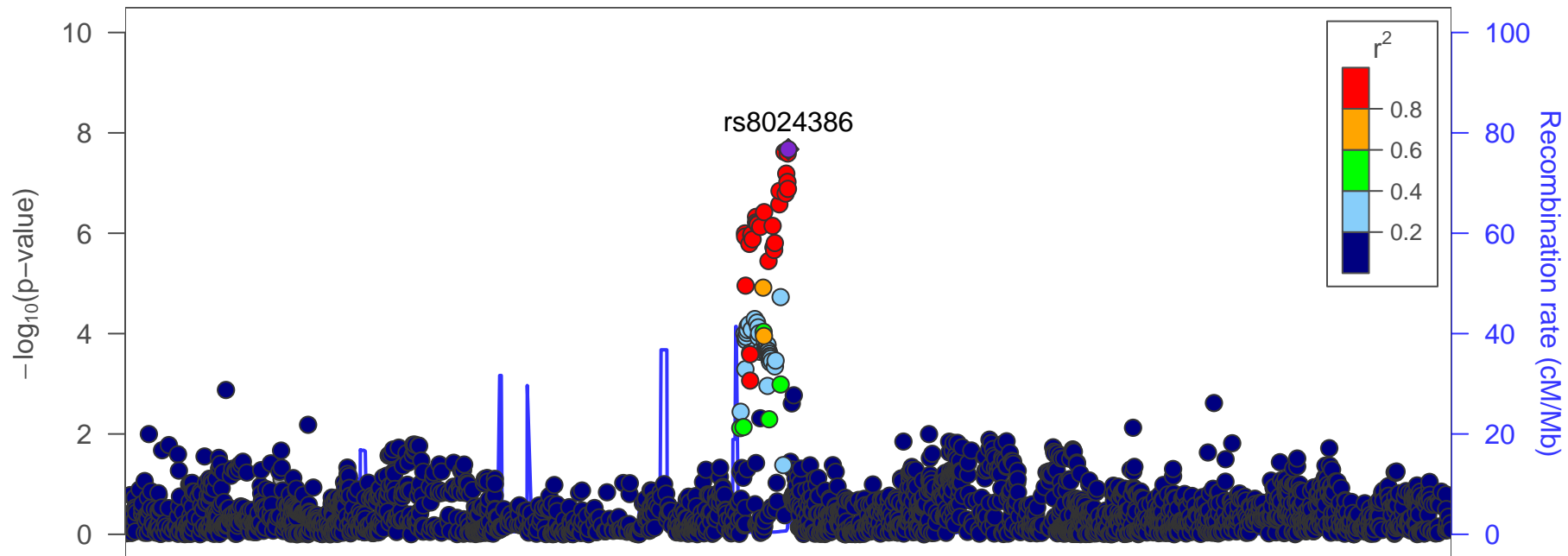




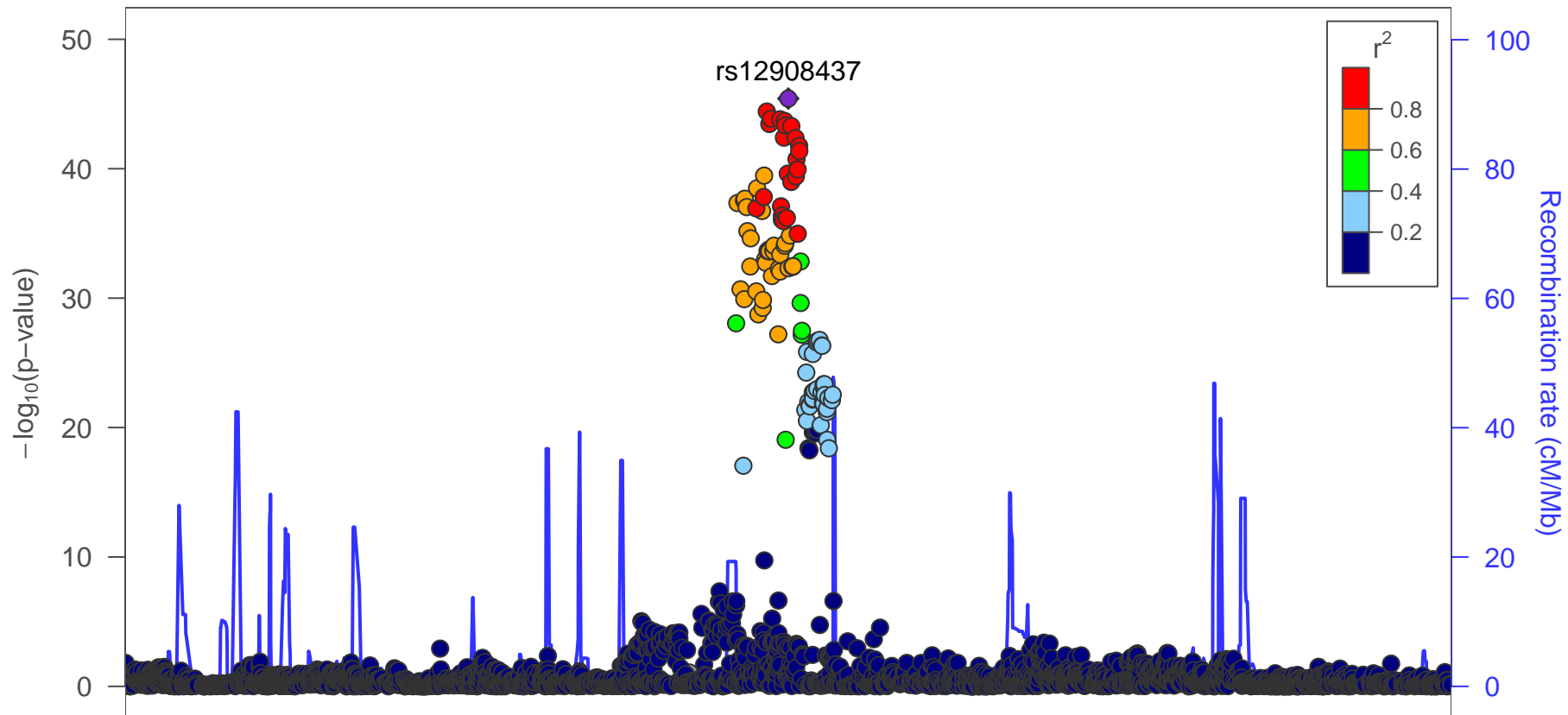
↑
Response to tocilizumab in rheumatoid arthritis



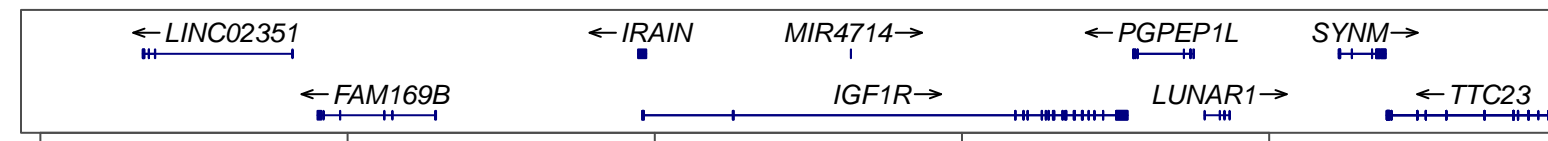
Position on chr15 (Mb)



Position on chr15 (Mb)

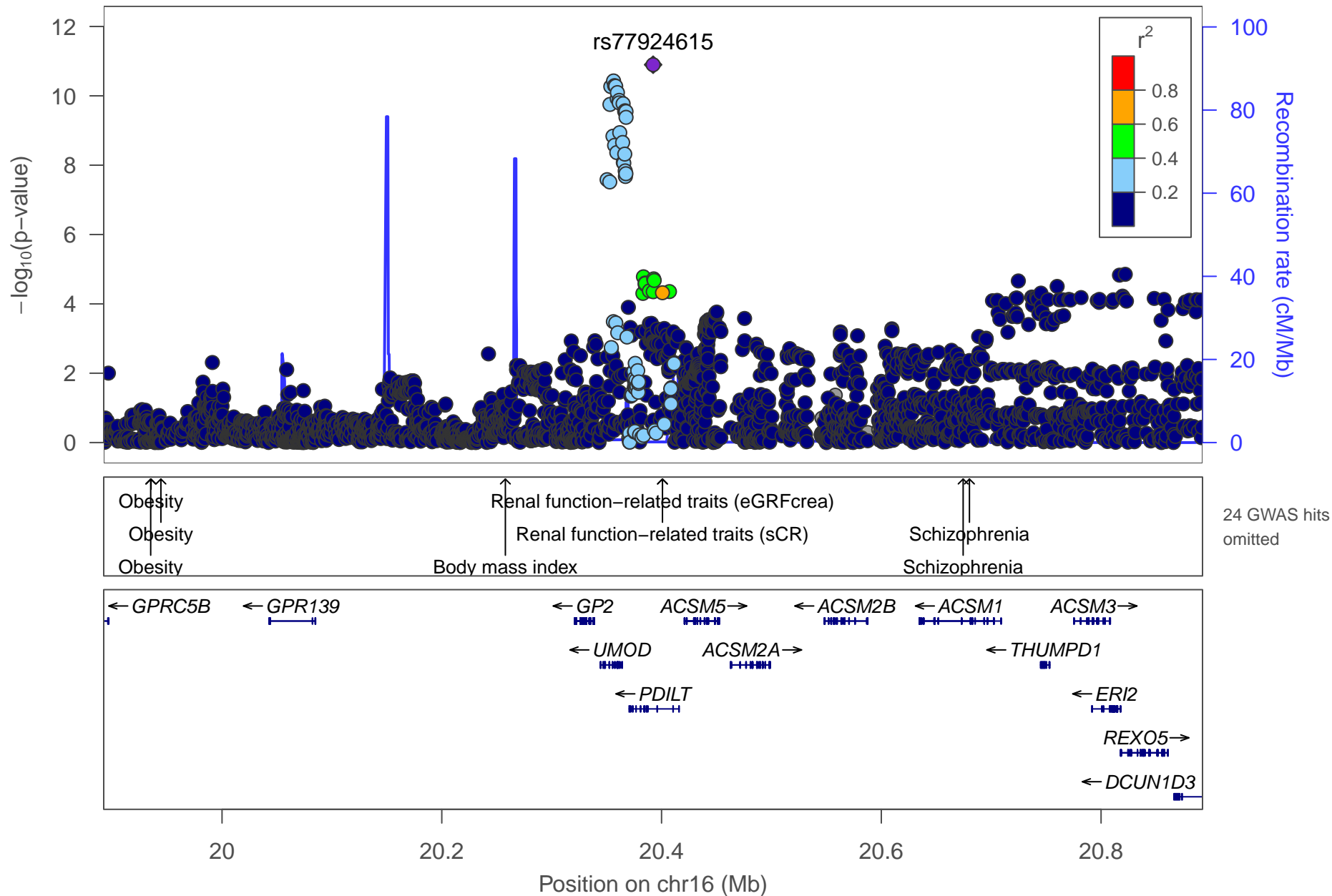


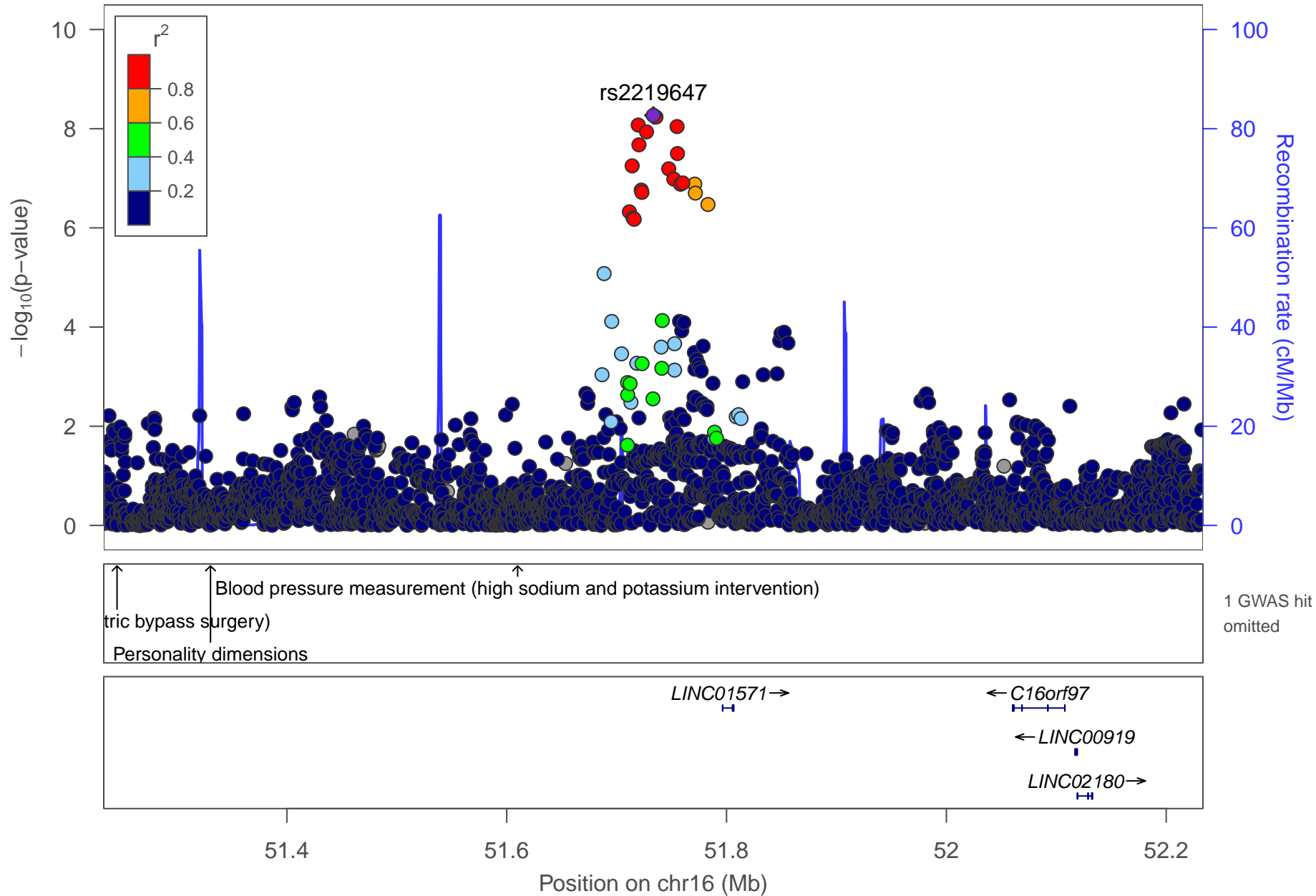
Obesity (extreme) Arthritis (juvenile idiopathic) Height Urate levels

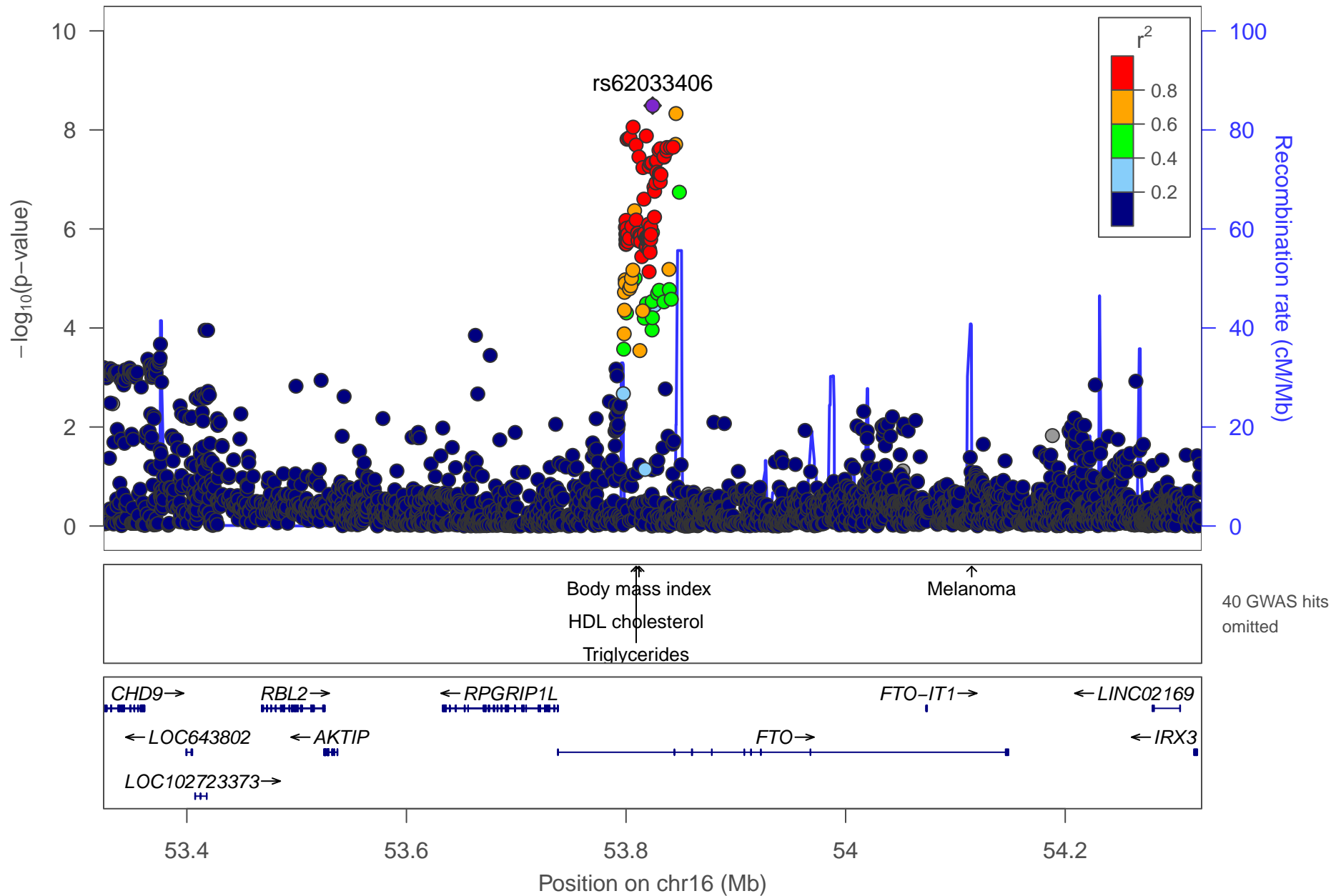


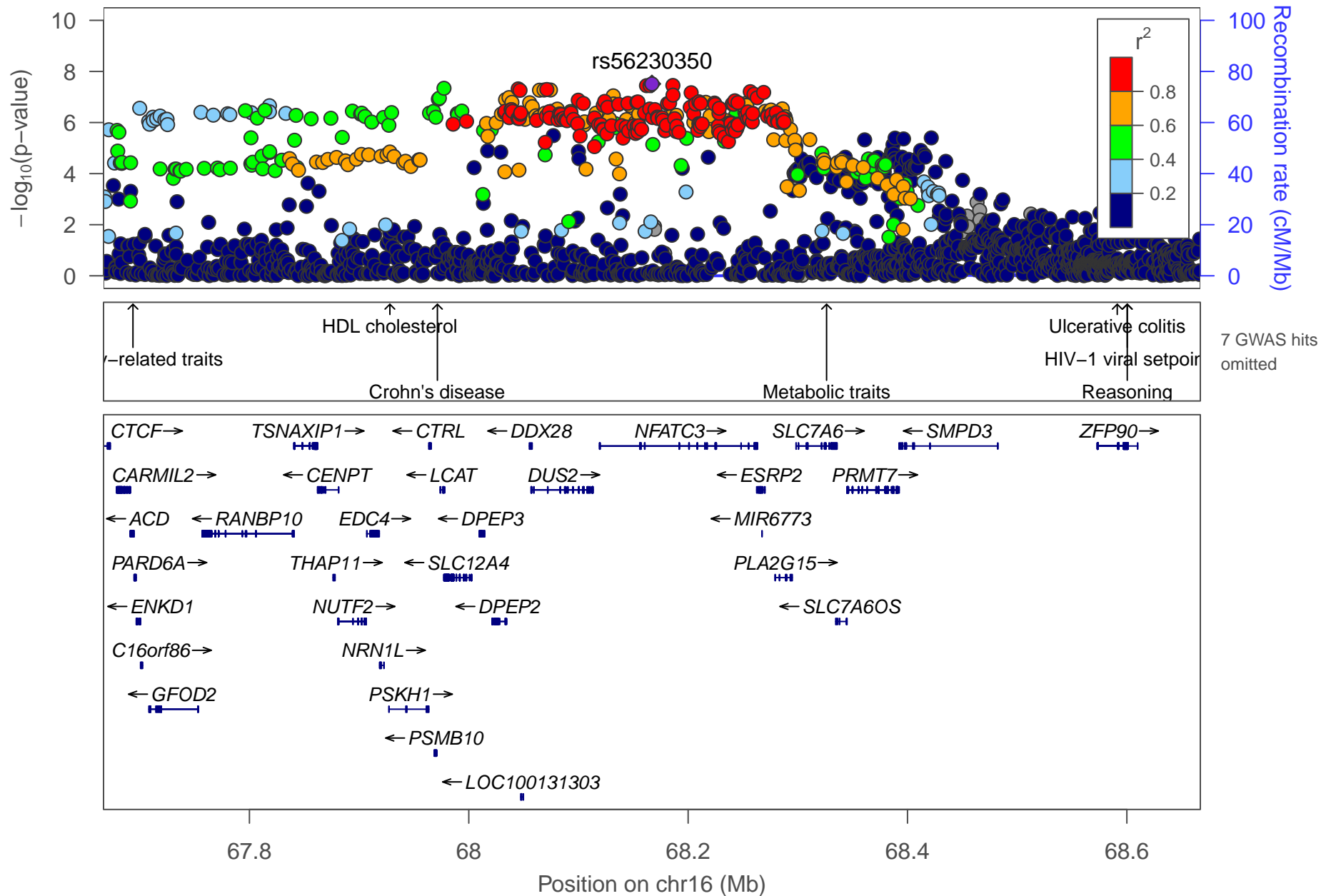
98.8 99 99.2 99.4 99.6

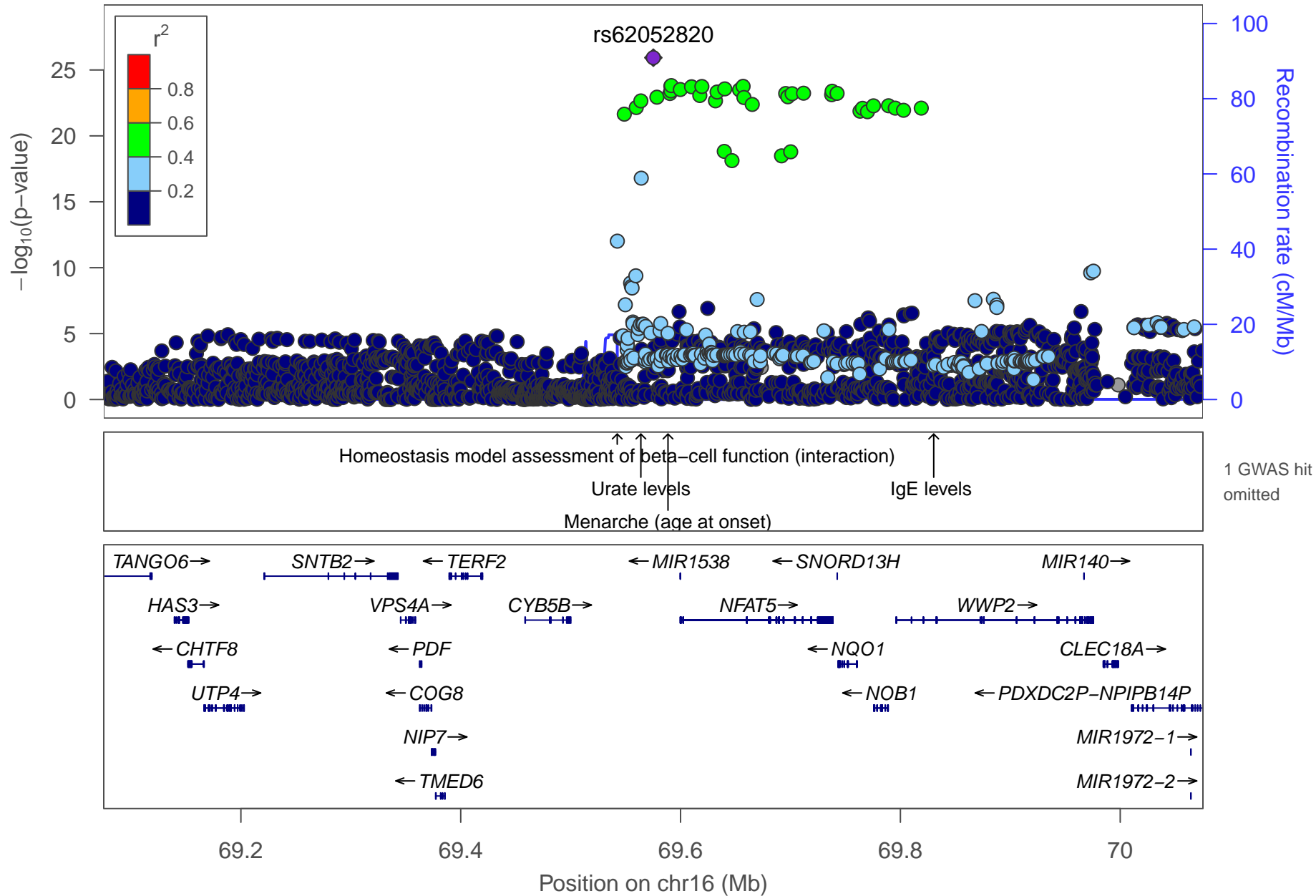
Position on chr15 (Mb)

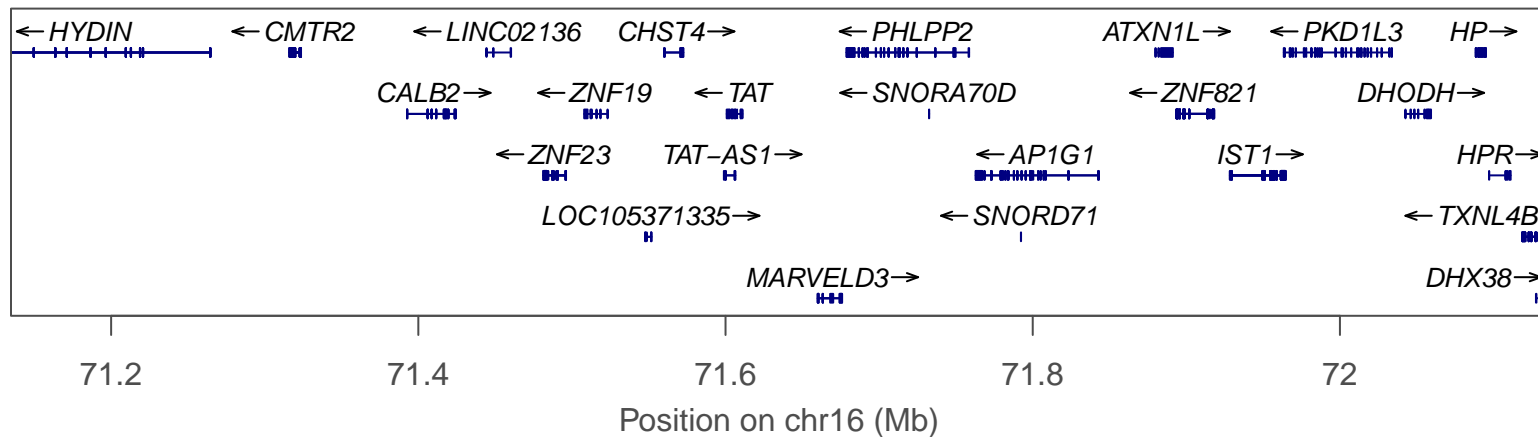
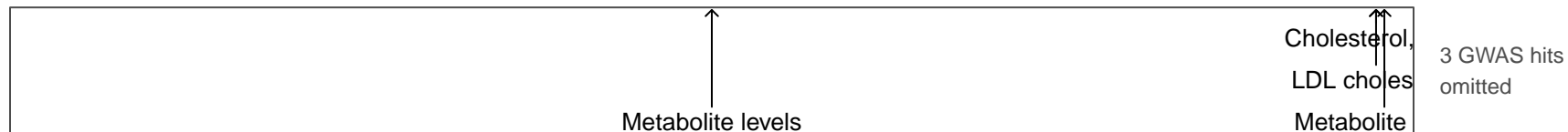
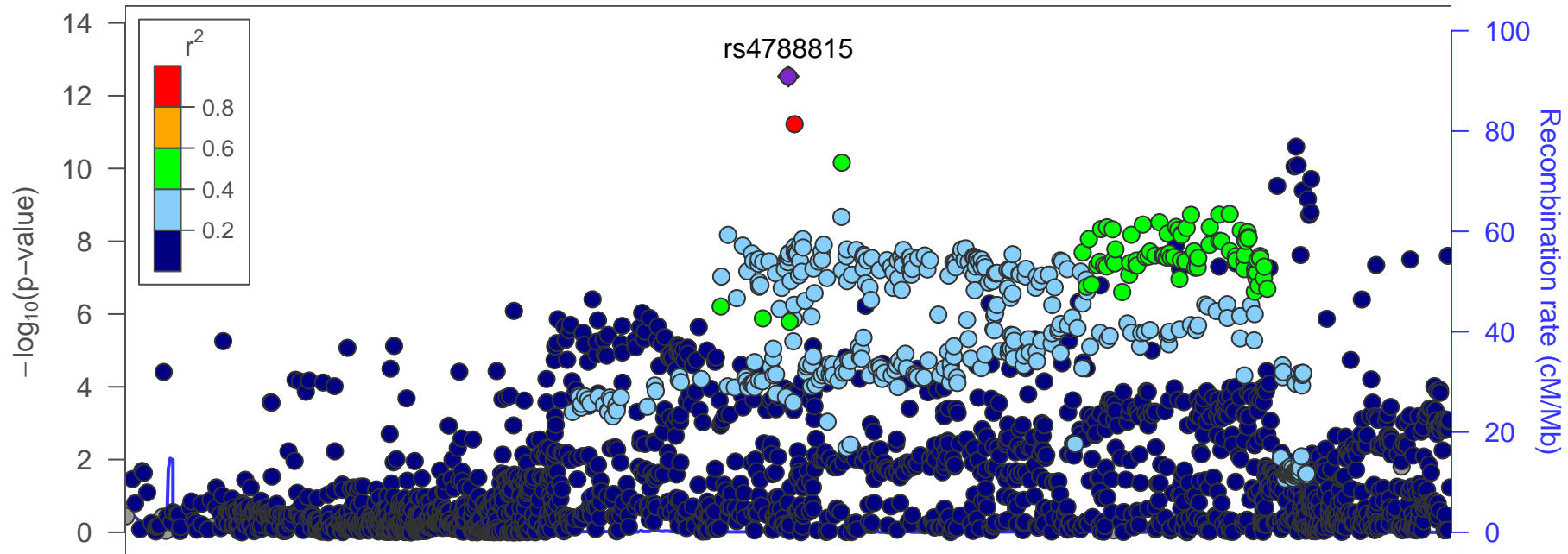


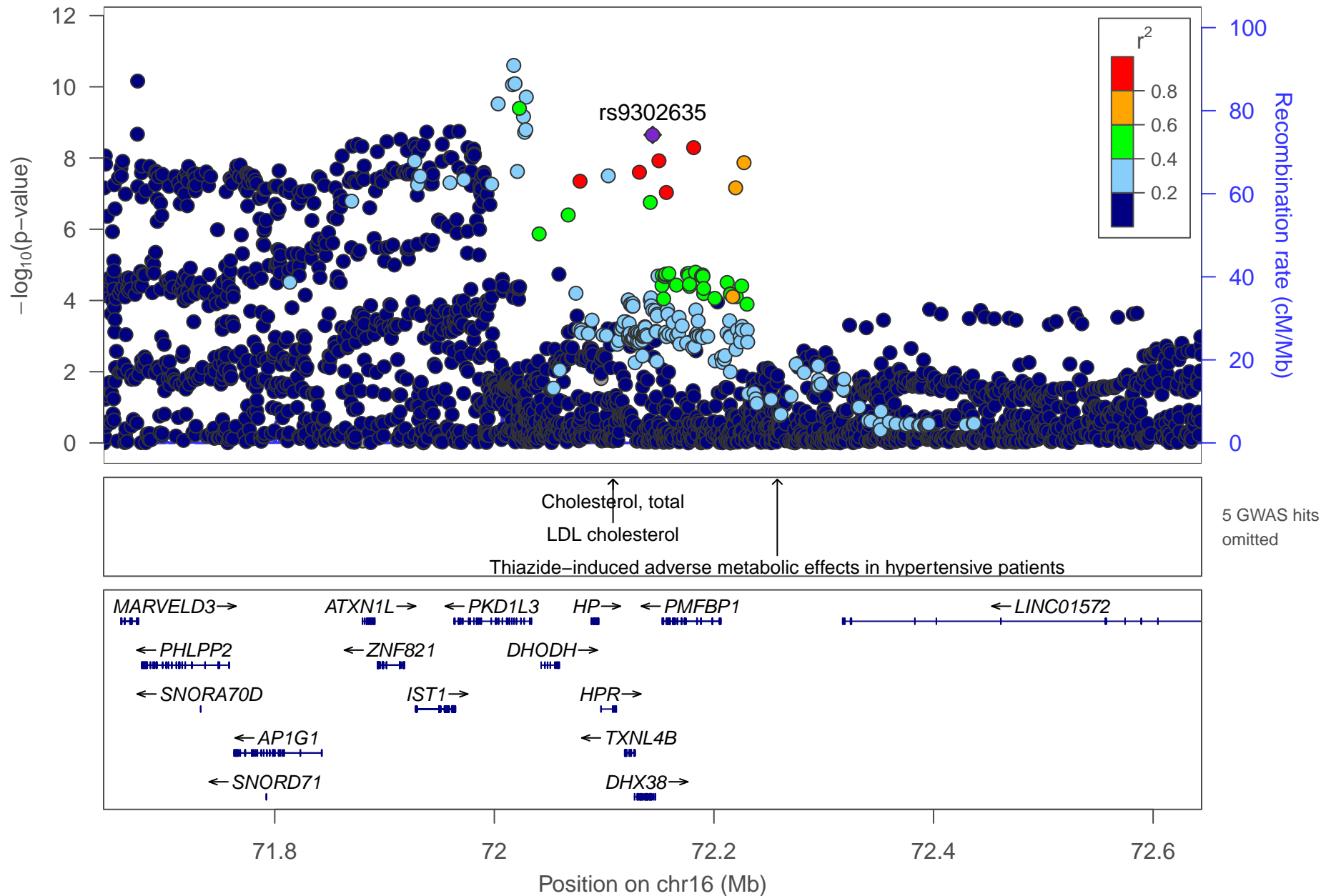


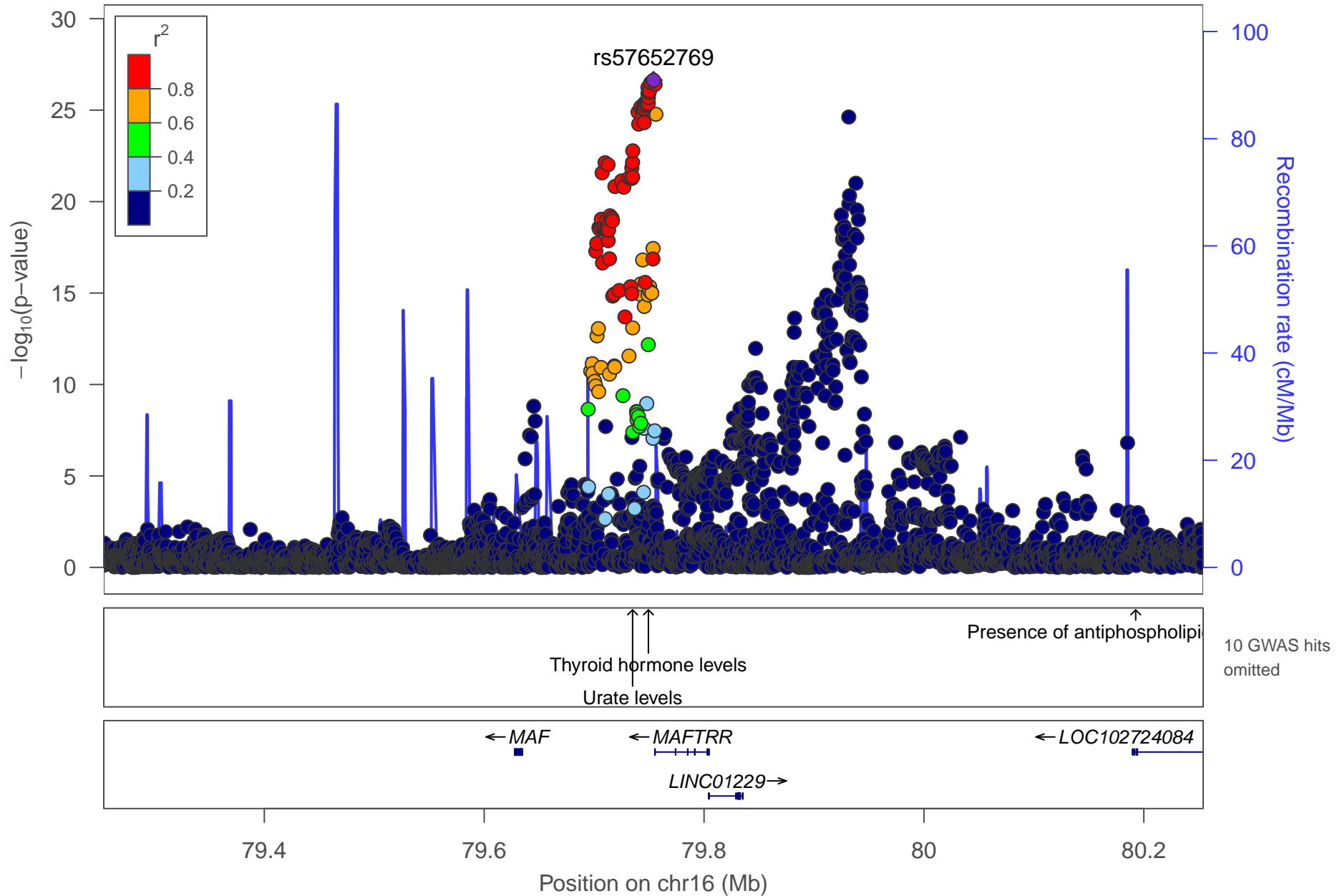


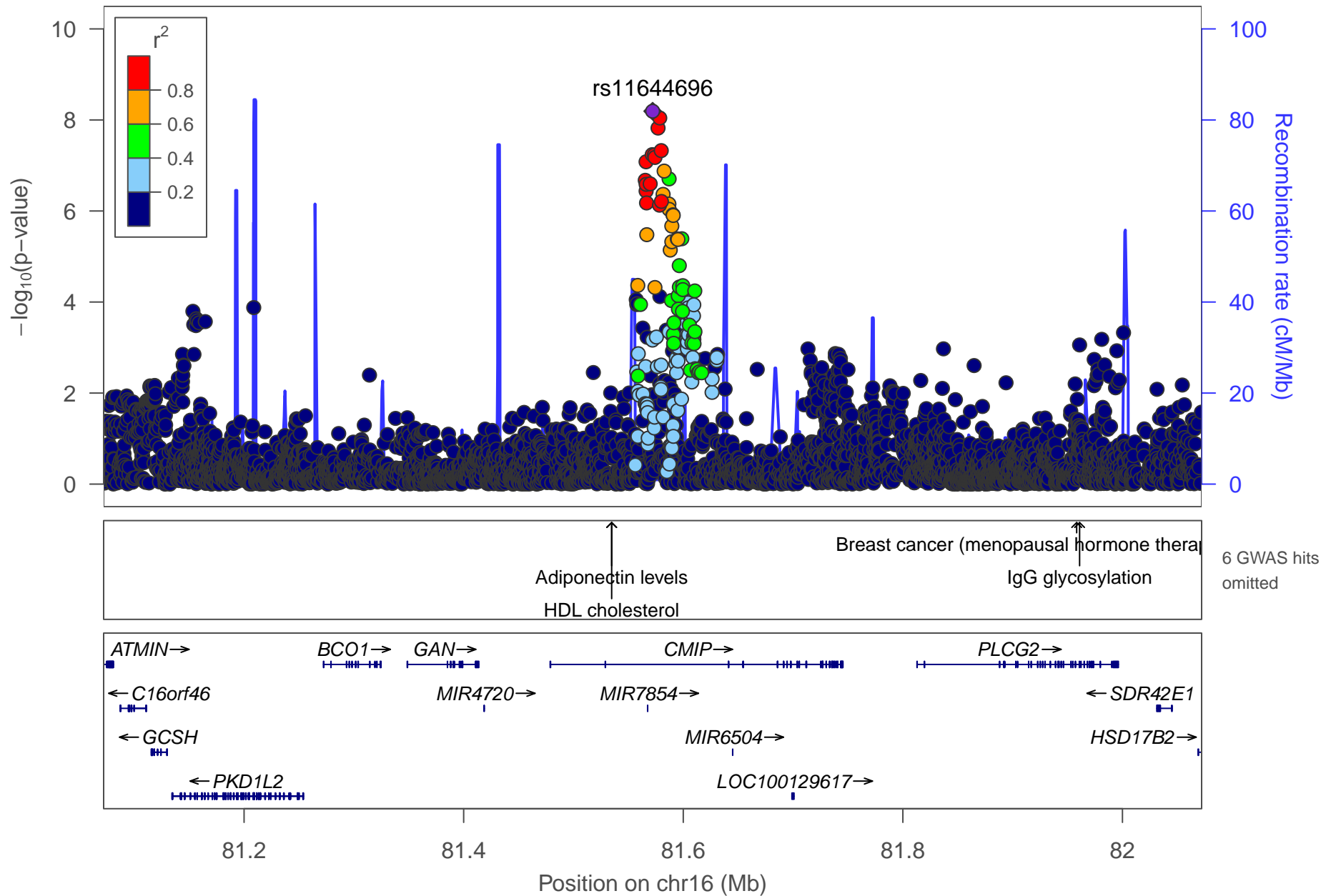


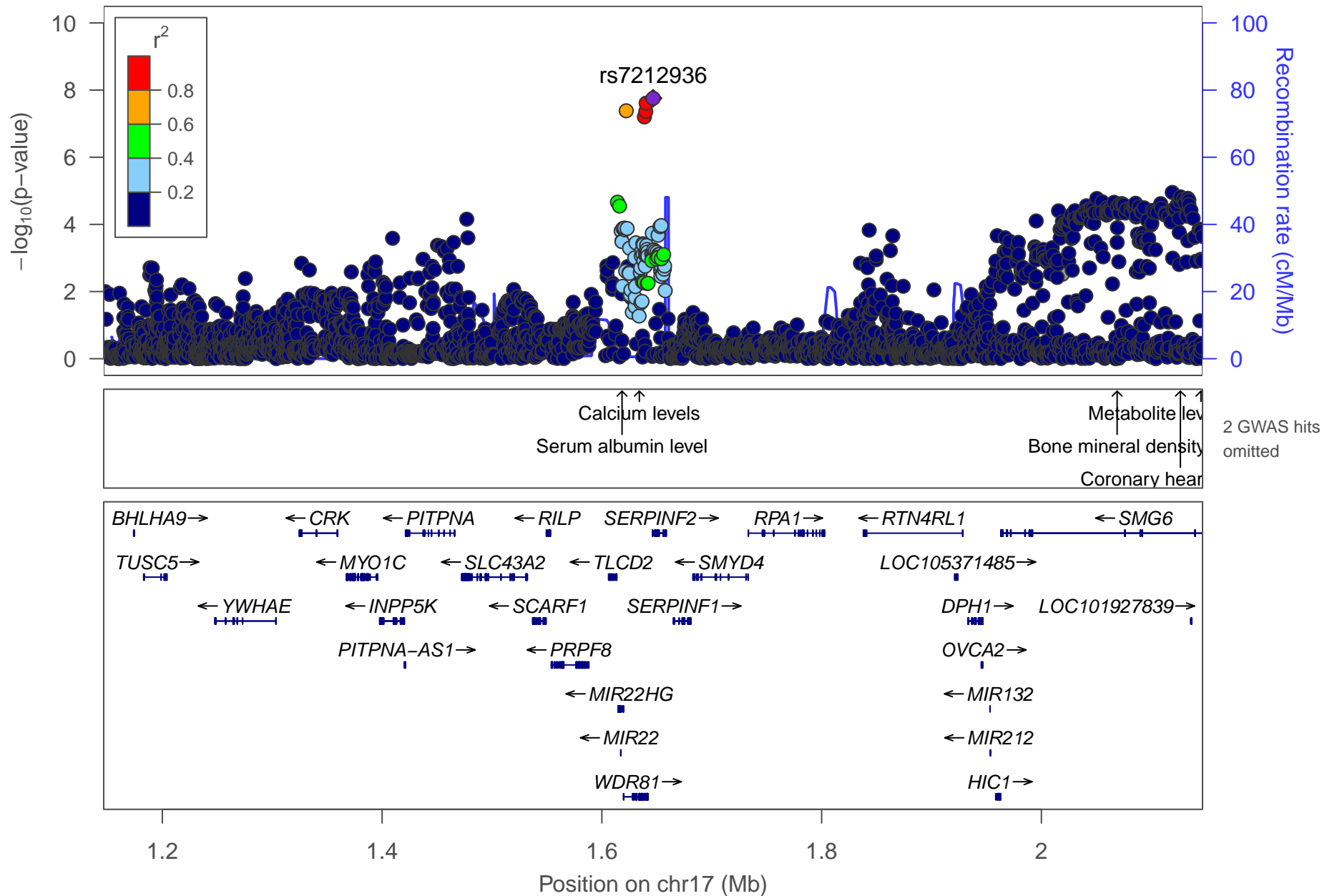


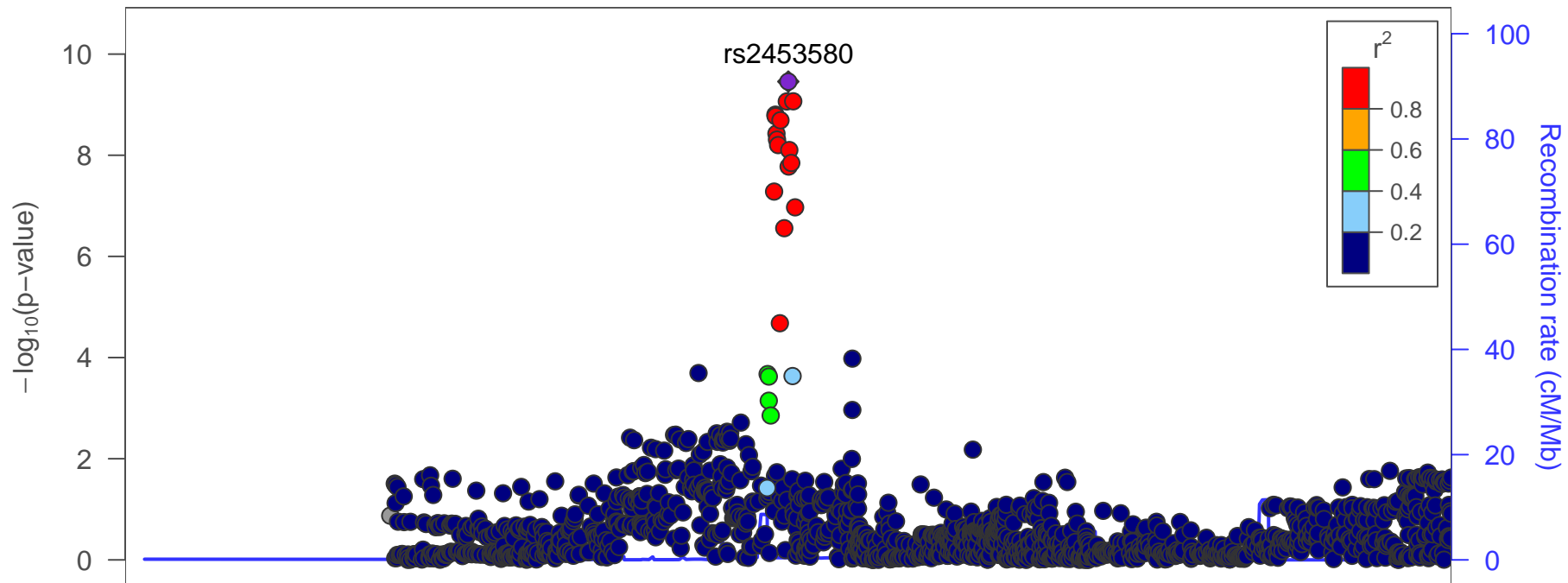












↑
Platelet counts

