

date: Thu Oct 20 22:13:40 2022

build: hg38

display range: chr10:28292958–34410406 [28292958–34410406]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:28792958

number of SNPs plotted: 24287

min P-value: 5.25E-7 [chr10:28792958]

max P-value: 10E-1 [chr10:32084757]

omitted Genes: TPRKBP1, RNU6-1067P, BAMBI

omitted Genes: LINC01517, AL355376.1, RNU6-270P

omitted Genes: LINC00837, AL355376.2, RNA5SP308

omitted Genes: RPL21P93, AL353093.1, RN7SL241P

omitted Genes: MIR7162, AL161651.1, CCND3P1

omitted Genes: MAP3K8, HNRNPA1P32, AL590068.4

omitted Genes: RN7SL63P, AL590068.2, AL590068.3

omitted Genes: SVIL2P, LINC02644, ZNF438

omitted Genes: AL359532.1, DDX10P1, MACORIS

omitted Genes: AL353769.1, ARHGAP12, RPL34P19

omitted Genes: RN7SL825P, AL161932.2, RPS24P13

omitted Genes: AL158834.2, AL158834.1, AL391839.2

omitted Genes: AL391839.1, RNU6-1244P, AL391839.3

omitted Genes: AL121748.1, RN7SL398P, AL353600.1

omitted Genes: AL353600.2, LINC02628

Make more plots at <http://csg.sph.umich.edu/locuszoom/>

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
10	28.30145	Diisocyanate-induced asthma	rs115882204
10	28.32871	Pulmonary function decline	rs1148186
10	28.34873	Lung cancer	rs7900823
10	28.42068	Pelvic organ prolapse	rs10826468
10	28.46318	Obesity-related traits	rs2153299
10	28.46633	Aggressiveness in attention deficit hyperactivity disorder	rs117063229
10	28.56309	Alzheimer disease and age of onset	rs181666690
10	28.68808	Percentage gas trapping	rs655766
10	28.73829	Preeclampsia	rs1248993
10	28.94747	Aggressiveness in attention deficit hyperactivity disorder	rs10826545
10	28.94853	Aggressiveness in attention deficit hyperactivity disorder	rs10826546
10	28.95728	Aggressiveness in attention deficit hyperactivity disorder	rs117352156
10	28.95732	Aggressiveness in attention deficit hyperactivity disorder	rs188370812
10	28.95732	Aggressiveness in attention deficit hyperactivity disorder	rs192649950
10	28.96666	Aggressiveness in attention deficit hyperactivity disorder	rs10826548
10	29.00010	Cannabis dependence	rs11007350
10	29.00297	Major depressive disorder (broad)	rs1612122
10	29.04792	Palmitoleic acid (16:1n-7) plasma levels	rs788076
10	29.07577	Migraine with aura	rs10826566
10	29.09798	Gut microbiota (bacterial taxa)	rs1248290
10	29.09971	Gut microbiota (bacterial taxa)	rs1889714

GWAS Catalog SNPs in Region

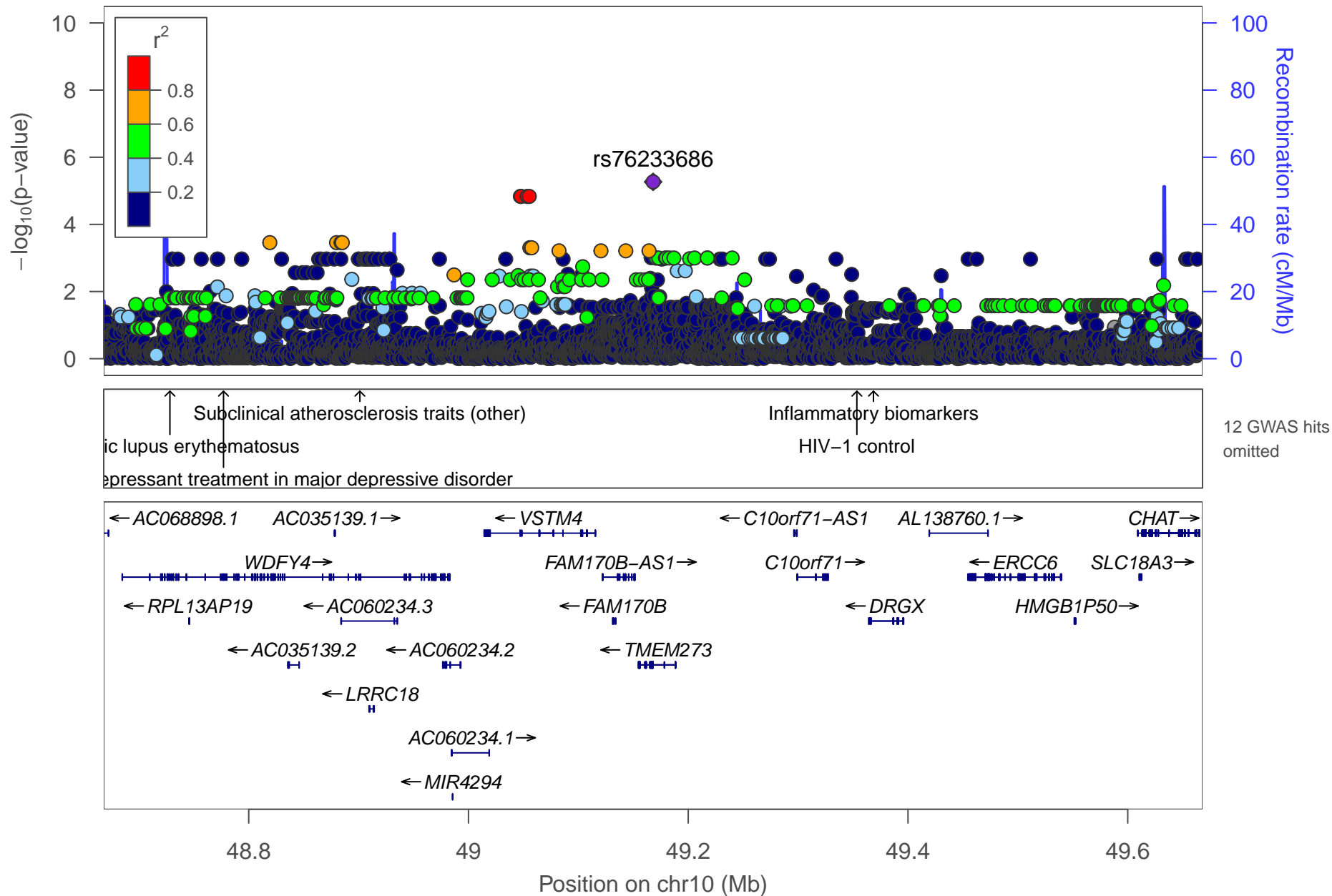
chr	pos (Mb)	trait	snp
10	29.19844	Methotrexate pharmacokinetics (acute lymphoblastic leukemia)	rs4387258
10	29.52367	Platelet thrombus formation	rs7070678
10	29.71973	Normalized brain volume	rs1927457
10	29.79843	Migraine with aura	rs2986961
10	29.80770	Non-alcoholic fatty liver disease histology (lobular)	rs2986971
10	29.88896	Orofacial clefts	rs3006564
10	29.94094	Alzheimer disease and age of onset	rs146650065
10	29.94526	Emphysema distribution in smoking	rs35374984
10	30.02714	Coronary heart disease	rs3739998
10	30.03496	Coronary artery disease	rs2487928
10	30.04619	Coronary heart disease	rs2505083
10	30.04619	Myocardial infarction	rs2505083
10	30.20178	Suicide risk	rs2462021
10	30.23090	Pancreatitis	rs2995271
10	30.28801	3-hydroxypropylmercapturic acid levels in smokers	rs12220014
10	30.40257	Inflammatory bowel disease	rs2050392
10	30.43917	Crohn's disease	rs1042058
10	30.43917	Inflammatory bowel disease	rs1042058
10	30.54570	QT interval	rs11008099
10	30.61036	Bone mineral density (femoral neck)	rs73245065
10	30.62310	Dental caries	rs399593

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
10	30.75356	Congenital left-sided heart lesions (maternal effect)	rs11008222
10	30.83824	Height	rs12413361
10	31.07734	Response to antipsychotic treatment	rs2994684
10	31.11547	Late-onset Alzheimer's disease	rs141387448
10	31.12618	Multiple sclerosis	rs793108
10	31.12618	Rheumatoid arthritis	rs793108
10	31.17267	Glucose homeostasis traits	rs1148233
10	31.20705	Disc degeneration (lumbar)	rs1250307
10	31.22317	Disc degeneration (lumbar)	rs2484992
10	31.22620	Disc degeneration (lumbar)	rs2484990
10	31.67980	C-reactive protein levels	rs796127
10	31.69246	Cannabis dependence	rs115553536
10	31.70170	Waist-hip ratio	rs7081678
10	31.99136	Alzheimer disease and age of onset	rs211257
10	32.00401	Schizophrenia	rs1251350
10	32.02008	Bipolar disorder with mood-incongruent psychosis	rs1775715
10	32.33609	Serum dimethylarginine levels (asymmetric/symmetric ratio)	rs143713361
10	32.34604	Sexual dysfunction (female)	rs2370759
10	32.70434	Suicide in bipolar disorder	rs7079041
10	32.87929	Post bronchodilator FEV1/FVC ratio	rs183323229
10	33.00585	Depression (quantitative trait)	rs11009175

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
10	33.11616	IgG glycosylation	rs7902627
10	33.17920	Migraine	rs2506142
10	33.18582	Parental extreme longevity (95 years and older)	rs12768811
10	33.18635	Tetralogy of Fallot	rs2228638
10	33.21425	Migraine	rs2506155
10	33.32711	Parental extreme longevity (95 years and older)	rs2804497
10	33.79912	Schizophrenia	rs1412115
10	33.94235	Emphysema-related traits	rs7905537
10	33.96868	Major depressive disorder	rs1780436



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr10:48668045–49668045 [48668045–49668045]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:49168045

number of SNPs plotted: 4483

min P-value: 5.41E–6 [chr10:49168045]

max P-value: 10E–1 [chr10:49018759]

omitted GWAS Hits: chr10:49.353462–HIV–1 control, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
10	48.70331	Stroke	rs17771318
10	48.72829	Systemic lupus erythematosus	rs11101442
10	48.77707	Response to anti-depressant treatment in major depressive disorder	rs10857636
10	48.81012	Systemic lupus erythematosus	rs2928402
10	48.81735	Systemic lupus erythematosus	rs7097397
10	48.83491	Systemic lupus erythematosus	rs877819
10	48.86135	Systemic lupus erythematosus	rs2663052
10	48.88977	Rheumatoid arthritis	rs2671692
10	48.89503	Airway responsiveness in chronic obstructive pulmonary disease	rs12252129
10	48.90118	Subclinical atherosclerosis traits (other)	rs3849150
10	48.91101	Systemic lupus erythematosus	rs1913517
10	49.02159	Migraine with aura	rs2137920
10	49.24589	Plasma omega-6 polyunsaturated fatty acid levels (linoleic acid)	rs17009617
10	49.29241	Oleic acid (18:1n-9) plasma levels	rs17774576
10	49.31570	Alzheimer disease and age of onset	rs117850870
10	49.35346	HIV-1 control	rs4838508
10	49.36859	Inflammatory biomarkers	rs12220898

date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr10:61630–1080236 [61630–1080236]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:580238

number of SNPs plotted: 2940

min P-value: 7.82E–6 [chr10:561630]

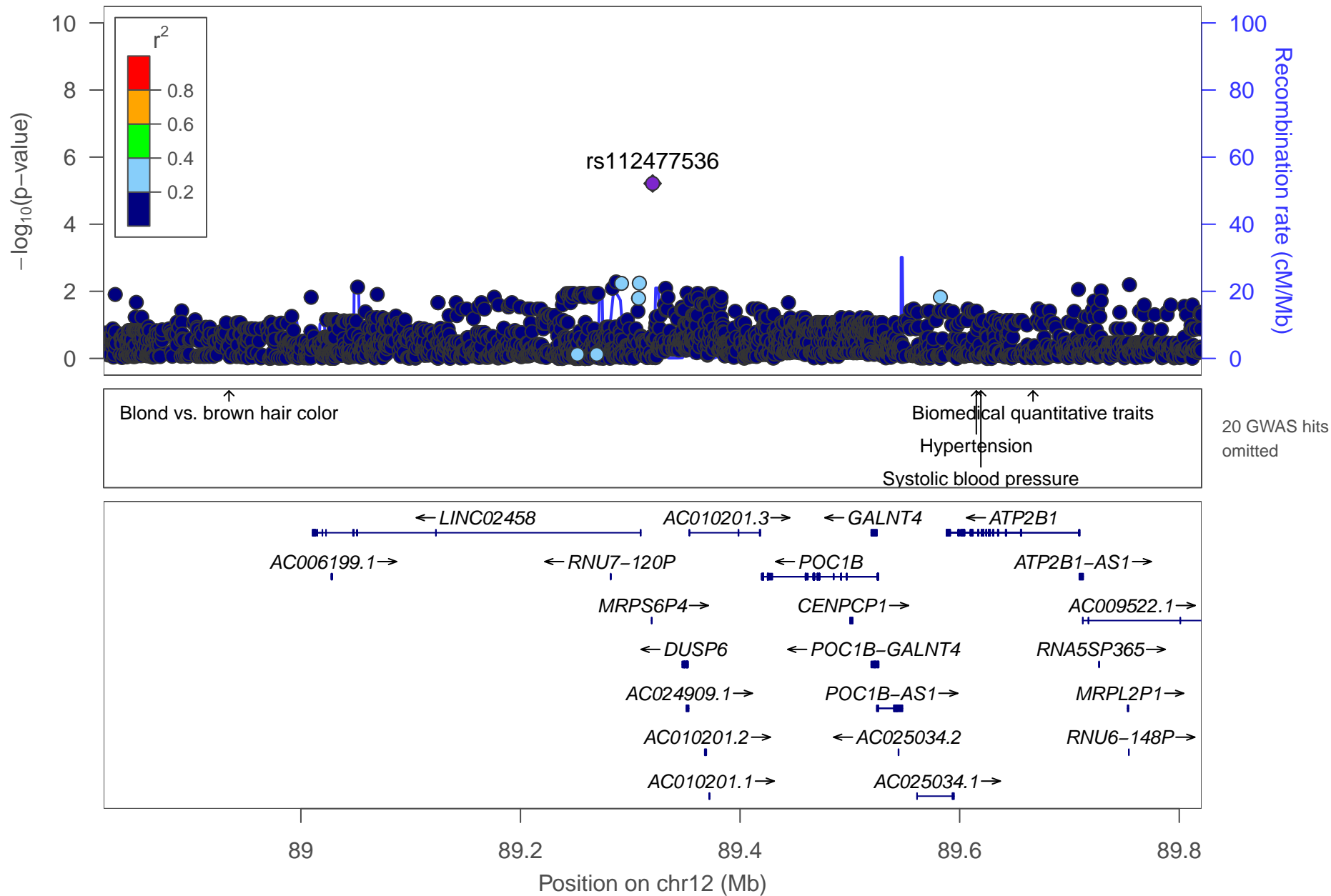
max P-value: 9.99E–1 [chr10:759496]

omitted GWAS Hits: chr10:1.01977–Chronic kidney disease, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
10	0.272136	Blood metabolite levels	rs12246027
10	0.378205	Neuroticism	rs77829203
10	0.520439	Psychosis in Alzheimer's disease	rs11252926
10	0.572745	Immune reponse to smallpox (secreted IFN- α)	rs17221323
10	0.713328	Migraine	rs7916968
10	0.725592	Uric acid levels	rs877282
10	0.791467	Survival in rectal cancer	rs1555895
10	1.019770	Chronic kidney disease	rs1044261
10	1.019770	Glomerular filtration rate (creatinine)	rs1044261
10	1.032842	Response to angiotensin II receptor blocker therapy	rs12762955



date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr12:88820371–89820371 [88820371–89820371]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:89320371

number of SNPs plotted: 2375

min P-value: 6.12E–6 [chr12:89320371]

max P-value: 9.99E–1 [chr12:89234726]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

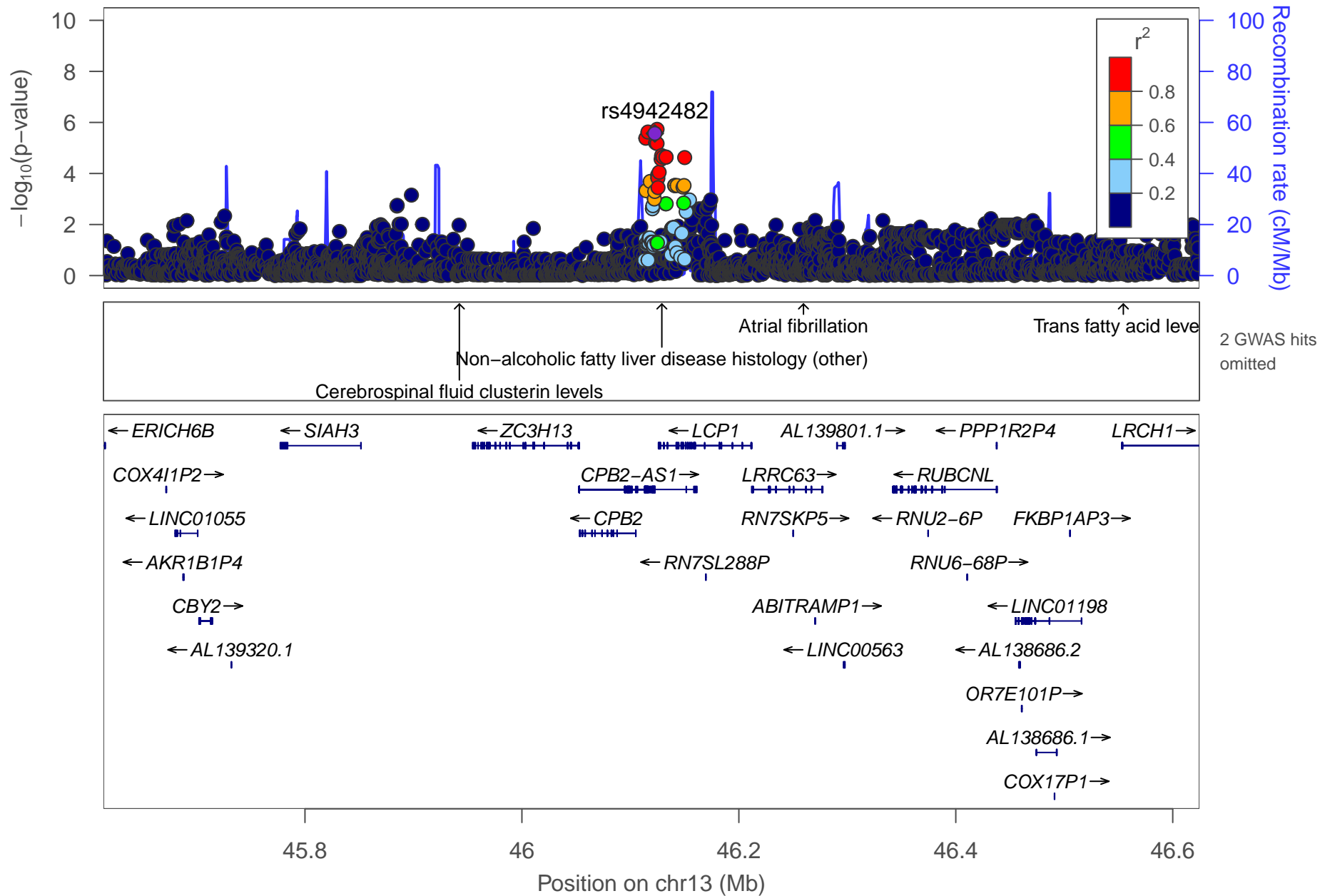
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
12	88.89548	Bone mineral density (femoral neck)	rs191780267
12	88.93456	Blond vs. brown hair color	rs12821256
12	88.93456	Hair color	rs12821256
12	88.93456	Blond vs non-blond hair color	rs12821256
12	88.93456	Brown vs. non-brown hair color	rs12821256
12	88.93456	Light vs. dark hair color	rs12821256
12	89.38182	Night sleep phenotypes	rs61925087
12	89.44709	Schizophrenia	rs10777165
12	89.50361	NT-proBNP levels in acute coronary syndrome	rs11105306
12	89.54777	Blood pressure	rs4842666
12	89.61518	Hypertension	rs2681472
12	89.61518	Diastolic blood pressure	rs2681472
12	89.61518	Coronary artery disease	rs2681472
12	89.61518	Myocardial infarction	rs2681472
12	89.61518	Systolic blood pressure	rs2681472
12	89.61931	Systolic blood pressure	rs2681492
12	89.66681	Biomedical quantitative traits	rs17249754
12	89.66681	Blood pressure	rs17249754
12	89.66681	Systolic blood pressure	rs17249754
12	89.66681	Diastolic blood pressure	rs17249754
12	89.66681	Hypertension	rs17249754

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
12	89.66681	Mean arterial pressure	rs17249754
12	89.66681	Pulse pressure	rs17249754
12	89.68741	Coronary heart disease	rs7136259



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build: hg38

display range: chr13:45614229–46624586 [45614229–46624586]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:46122525

number of SNPs plotted: 3276

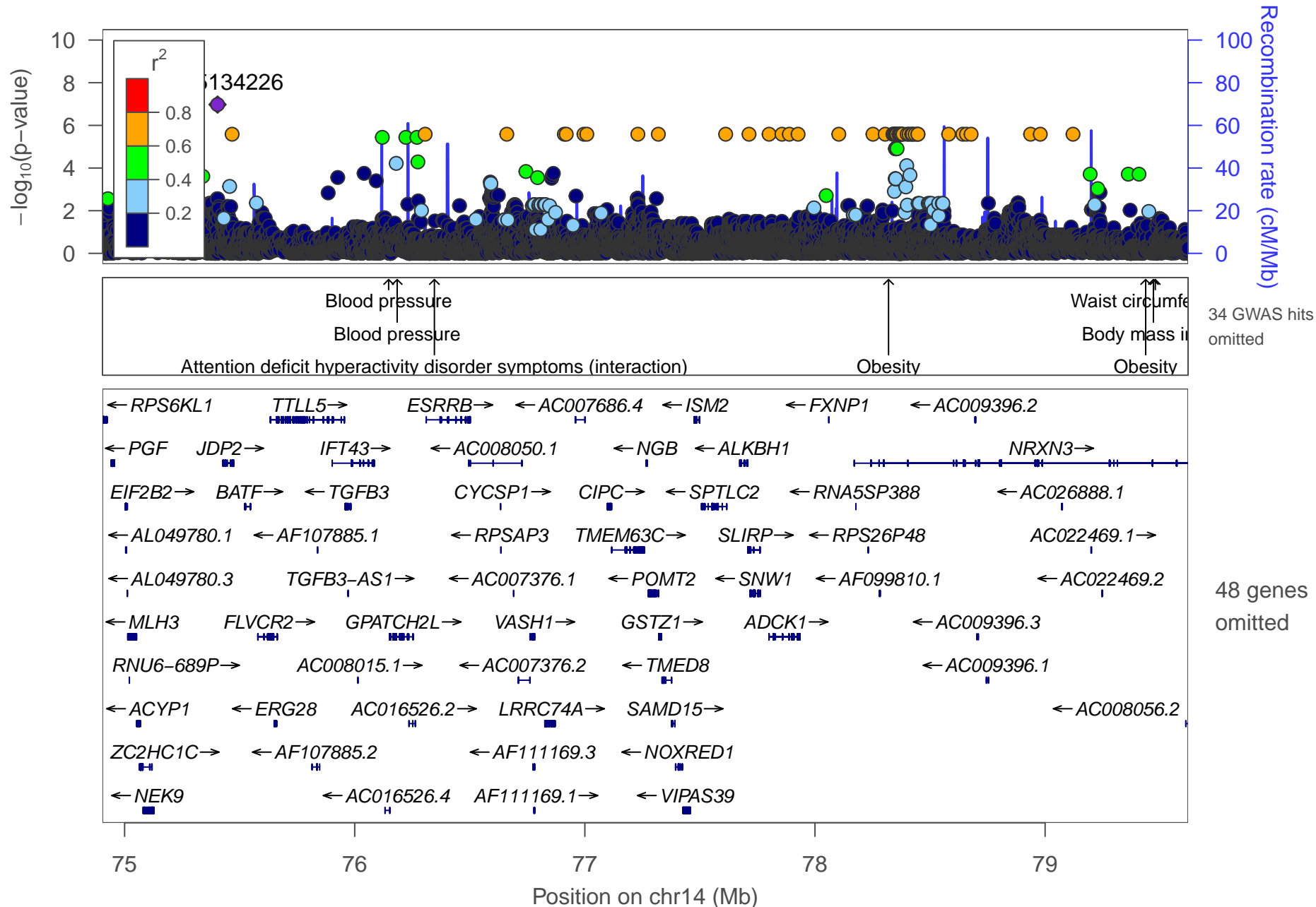
min P-value: 1.87E–6 [chr13:46124586]

max P-value: 9.99E–1 [chr13:45925981]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
13	45.83390	Pneumococcal bacteremia	rs9526114
13	45.94233	Cerebrospinal fluid clusterin levels	rs741668
13	46.12901	Non-alcoholic fatty liver disease histology (other)	rs7324845
13	46.21139	Systemic lupus erythematosus	rs912784
13	46.25958	Atrial fibrillation	rs958546
13	46.55447	Trans fatty acid levels	rs7325799



date: Thu Oct 20 22:13:37 2022

build: hg38

display range: chr14:74903852–79621238 [74903852–79621238]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:75403852

number of SNPs plotted: 11574

min P-value: 1.06E–7 [chr14:75403852]

max P-value: 10E–1 [chr14:75900744]

omitted Genes: HIF1AP1, AL049780.2, TMED10

omitted Genes: AL691403.2, RNU4ATAC14P, AL691403.1

omitted Genes: AF111167.1, AF111167.3, FOS

omitted Genes: DPPA5P4, LINC01220, AF111167.2

omitted Genes: AC007182.1, AC007182.2, RNA5SP387

omitted Genes: AC007182.3, AC016526.3, AC016526.1

omitted Genes: VASH1–AS1, ANGEL1, AF111169.4

omitted Genes: RPL22P2, RN7SKP17, AF111169.2

omitted Genes: LINC01629, RN7SL356P, AC007686.1

omitted Genes: IRF2BPL, AC007686.3, LINC02288

omitted Genes: AC007686.2, LINC02289, AC007686.5

omitted Genes: AC007375.2, ZDHHC22, AC007375.3

omitted Genes: FAM204DP, AC007375.1, MIR1260A

omitted Genes: AC007954.1, AHSA1, AF111168.1

omitted Genes: RN7SL587P, COX6CP11, RPL21P10

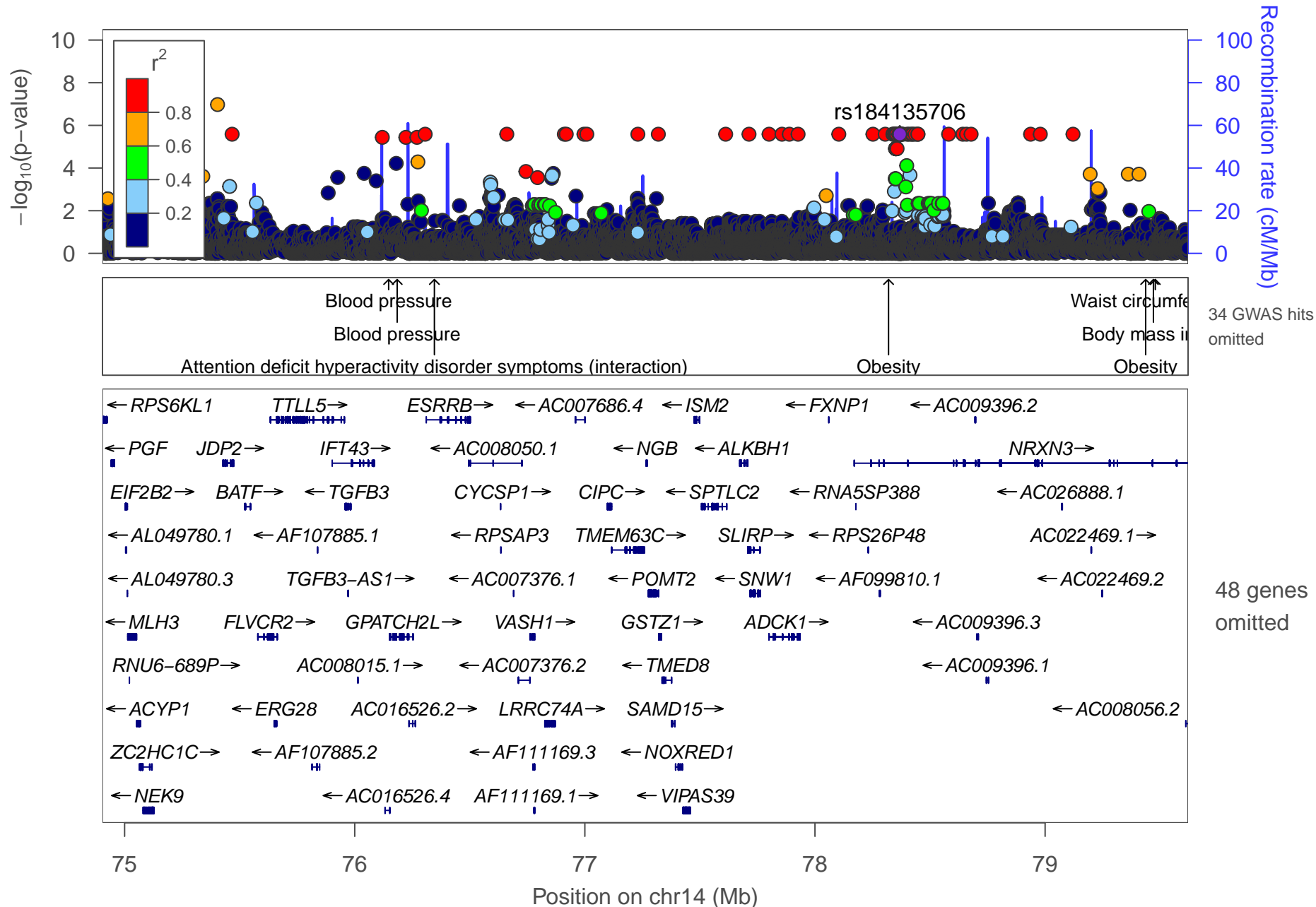
Make more plots at <http://csg.sph.umich.edu/locuszoom/>

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
14	75.15934	Height	rs910316
14	75.23452	Inflammatory bowel disease	rs4899554
14	75.27505	Crohn's disease	rs1569328
14	75.27505	Inflammatory bowel disease	rs1569328
14	75.34732	Periodontal microbiota	rs11621969
14	75.44976	Obesity-related traits	rs84044
14	75.49419	Rheumatoid arthritis	rs7155603
14	75.53921	Multiple sclerosis	rs2300603
14	75.66325	Height	rs724743
14	75.70752	Large artery stroke	rs1005224
14	76.03396	Acute urticaria and angioedema (non-steroidal anti-inflammatory drug-induced)	rs9323624
14	76.14733	Blood pressure	rs935334
14	76.18442	Blood pressure	rs2121070
14	76.23701	Acute lymphoblastic leukemia (childhood)	rs7156960
14	76.34615	Attention deficit hyperactivity disorder symptoms (interaction)	rs2360997
14	76.34635	Maximal oxygen uptake response	rs12893597
14	77.03163	Adverse response to lamotrigine and phenytoin	rs183266
14	77.04750	Sleep quality	rs1986116
14	77.13548	Large artery stroke	rs1465330
14	77.21833	Bipolar disorder	rs4467006
14	77.21850	Bipolar disorder	rs2287375

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
14	77.23762	Obsessive–compulsive symptoms	rs67366981
14	77.56203	Gut microbiome composition (winter)	rs4903604
14	77.91334	Resting heart rate	rs1549118
14	77.95471	Response to anti–retroviral therapy (ddl/d4T) in HIV–1 infection (Grade 1 peripheral neuropathy)	rs4899685
14	78.06856	Response to platinum–based chemotherapy in non–small–cell lung cancer	rs3850370
14	78.09012	Objective response to lithium treatment in bipolar disorder	rs809
14	78.22872	Electrodermal activity	rs10129666
14	78.28464	Electrodermal activity	rs11159346
14	78.30896	Brain structure (temporal lobe volume)	rs7155434
14	78.31973	Obesity	rs11624704
14	78.31973	Coronary artery aneurysm in Kawasaki disease	rs11624704
14	78.31982	Cognitive performance	rs6574433
14	78.74307	Body mass index	rs17835706
14	79.38089	Underweight status	rs12882679
14	79.43311	Obesity	rs7141420
14	79.43311	Body mass index	rs7141420
14	79.43703	Obesity	rs2370983
14	79.47062	Body mass index	rs10150332
14	79.47882	Waist circumference	rs10146997
14	79.53575	Amyotrophic lateral sclerosis (age of onset)	rs7147705



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build: hg38

display range: chr14:74903852–79621238 [74903852–79621238]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:78368545

number of SNPs plotted: 11574

min P-value: 1.06E–7 [chr14:75403852]

max P-value: 10E–1 [chr14:75900744]

omitted Genes: HIF1AP1, AL049780.2, TMED10

omitted Genes: AL691403.2, RNU4ATAC14P, AL691403.1

omitted Genes: AF111167.1, AF111167.3, FOS

omitted Genes: DPPA5P4, LINC01220, AF111167.2

omitted Genes: AC007182.1, AC007182.2, RNA5SP387

omitted Genes: AC007182.3, AC016526.3, AC016526.1

omitted Genes: VASH1–AS1, ANGEL1, AF111169.4

omitted Genes: RPL22P2, RN7SKP17, AF111169.2

omitted Genes: LINC01629, RN7SL356P, AC007686.1

omitted Genes: IRF2BPL, AC007686.3, LINC02288

omitted Genes: AC007686.2, LINC02289, AC007686.5

omitted Genes: AC007375.2, ZDHHC22, AC007375.3

omitted Genes: FAM204DP, AC007375.1, MIR1260A

omitted Genes: AC007954.1, AHSA1, AF111168.1

omitted Genes: RN7SL587P, COX6CP11, RPL21P10

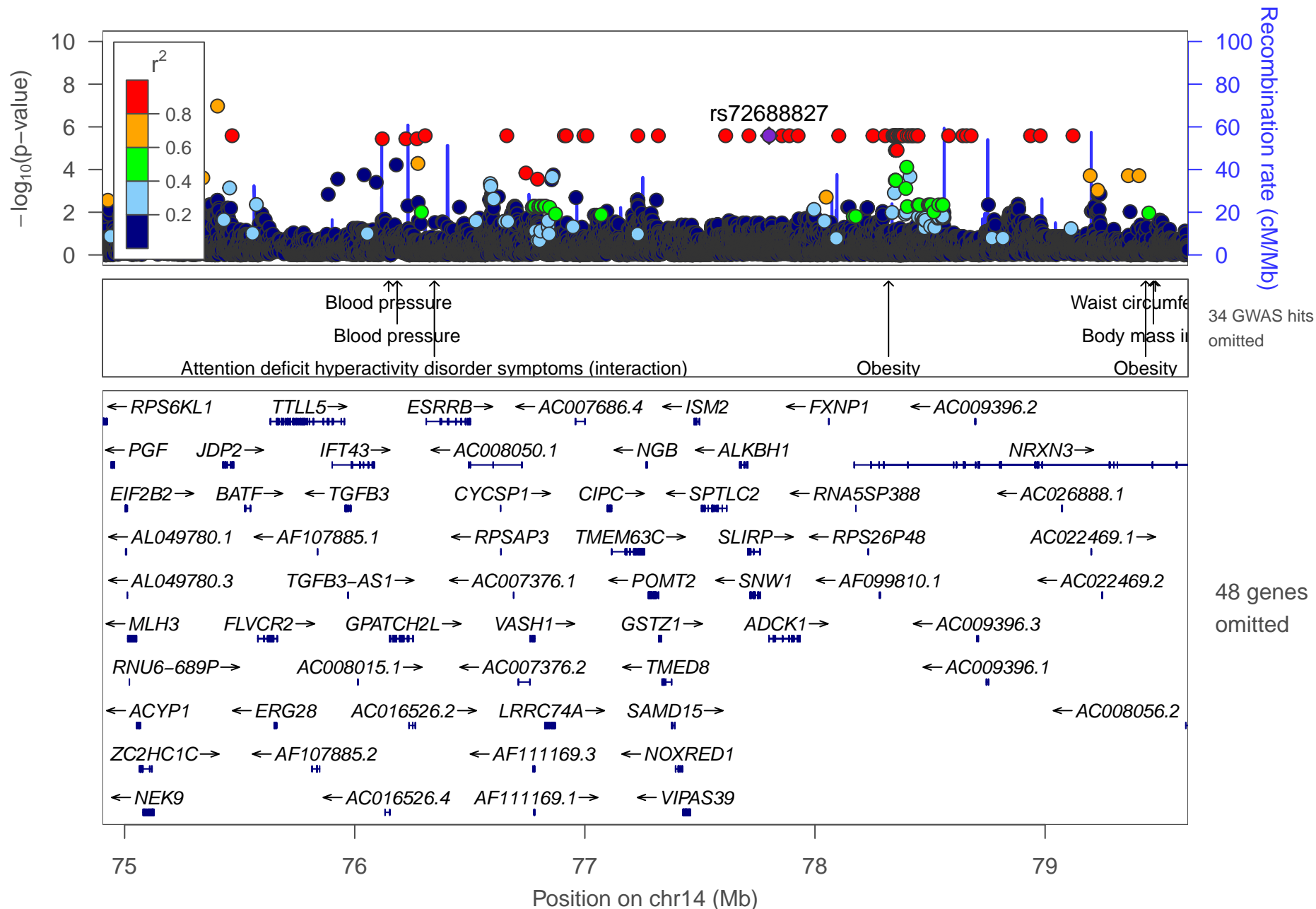
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GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
14	75.15934	Height	rs910316
14	75.23452	Inflammatory bowel disease	rs4899554
14	75.27505	Crohn's disease	rs1569328
14	75.27505	Inflammatory bowel disease	rs1569328
14	75.34732	Periodontal microbiota	rs11621969
14	75.44976	Obesity-related traits	rs84044
14	75.49419	Rheumatoid arthritis	rs7155603
14	75.53921	Multiple sclerosis	rs2300603
14	75.66325	Height	rs724743
14	75.70752	Large artery stroke	rs1005224
14	76.03396	Acute urticaria and angioedema (non-steroidal anti-inflammatory drug-induced)	rs9323624
14	76.14733	Blood pressure	rs935334
14	76.18442	Blood pressure	rs2121070
14	76.23701	Acute lymphoblastic leukemia (childhood)	rs7156960
14	76.34615	Attention deficit hyperactivity disorder symptoms (interaction)	rs2360997
14	76.34635	Maximal oxygen uptake response	rs12893597
14	77.03163	Adverse response to lamotrigine and phenytoin	rs183266
14	77.04750	Sleep quality	rs1986116
14	77.13548	Large artery stroke	rs1465330
14	77.21833	Bipolar disorder	rs4467006
14	77.21850	Bipolar disorder	rs2287375

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
14	77.23762	Obsessive–compulsive symptoms	rs67366981
14	77.56203	Gut microbiome composition (winter)	rs4903604
14	77.91334	Resting heart rate	rs1549118
14	77.95471	Response to anti–retroviral therapy (ddl/d4T) in HIV–1 infection (Grade 1 peripheral neuropathy)	rs4899685
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14	78.22872	Electrodermal activity	rs10129666
14	78.28464	Electrodermal activity	rs11159346
14	78.30896	Brain structure (temporal lobe volume)	rs7155434
14	78.31973	Obesity	rs11624704
14	78.31973	Coronary artery aneurysm in Kawasaki disease	rs11624704
14	78.31982	Cognitive performance	rs6574433
14	78.74307	Body mass index	rs17835706
14	79.38089	Underweight status	rs12882679
14	79.43311	Obesity	rs7141420
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14	79.43703	Obesity	rs2370983
14	79.47062	Body mass index	rs10150332
14	79.47882	Waist circumference	rs10146997
14	79.53575	Amyotrophic lateral sclerosis (age of onset)	rs7147705



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build: hg38

display range: chr14:74903852–79621238 [74903852–79621238]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:77800506

number of SNPs plotted: 11574

min P-value: 1.06E–7 [chr14:75403852]

max P-value: 10E–1 [chr14:75900744]

omitted Genes: HIF1AP1, AL049780.2, TMED10

omitted Genes: AL691403.2, RNU4ATAC14P, AL691403.1

omitted Genes: AF111167.1, AF111167.3, FOS

omitted Genes: DPPA5P4, LINC01220, AF111167.2

omitted Genes: AC007182.1, AC007182.2, RNA5SP387

omitted Genes: AC007182.3, AC016526.3, AC016526.1

omitted Genes: VASH1–AS1, ANGEL1, AF111169.4

omitted Genes: RPL22P2, RN7SKP17, AF111169.2

omitted Genes: LINC01629, RN7SL356P, AC007686.1

omitted Genes: IRF2BPL, AC007686.3, LINC02288

omitted Genes: AC007686.2, LINC02289, AC007686.5

omitted Genes: AC007375.2, ZDHHC22, AC007375.3

omitted Genes: FAM204DP, AC007375.1, MIR1260A

omitted Genes: AC007954.1, AHSA1, AF111168.1

omitted Genes: RN7SL587P, COX6CP11, RPL21P10

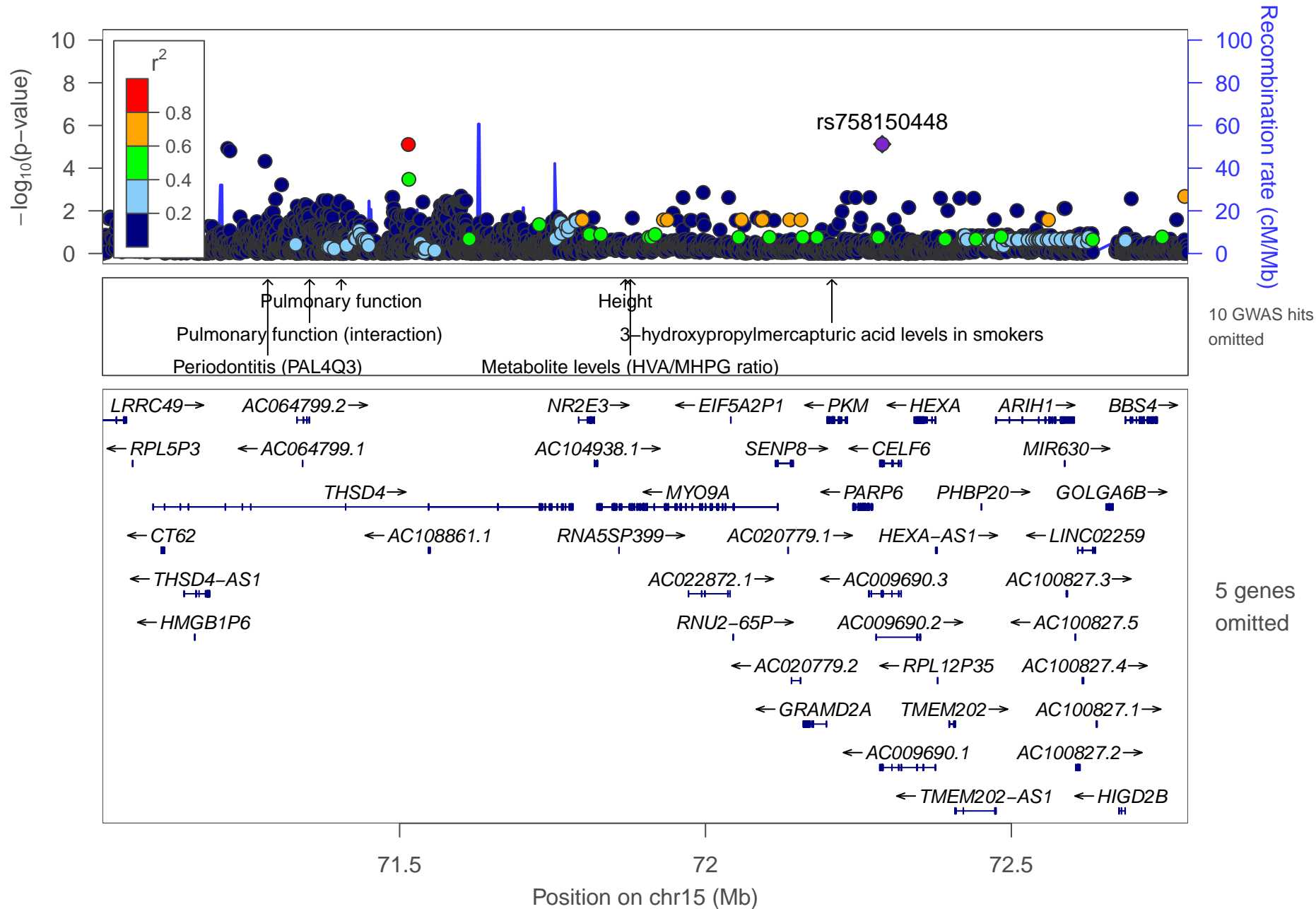
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chr	pos (Mb)	trait	snp
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14	75.44976	Obesity-related traits	rs84044
14	75.49419	Rheumatoid arthritis	rs7155603
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14	77.03163	Adverse response to lamotrigine and phenytoin	rs183266
14	77.04750	Sleep quality	rs1986116
14	77.13548	Large artery stroke	rs1465330
14	77.21833	Bipolar disorder	rs4467006
14	77.21850	Bipolar disorder	rs2287375

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
14	77.23762	Obsessive–compulsive symptoms	rs67366981
14	77.56203	Gut microbiome composition (winter)	rs4903604
14	77.91334	Resting heart rate	rs1549118
14	77.95471	Response to anti–retroviral therapy (ddl/d4T) in HIV–1 infection (Grade 1 peripheral neuropathy)	rs4899685
14	78.06856	Response to platinum–based chemotherapy in non–small–cell lung cancer	rs3850370
14	78.09012	Objective response to lithium treatment in bipolar disorder	rs809
14	78.22872	Electrodermal activity	rs10129666
14	78.28464	Electrodermal activity	rs11159346
14	78.30896	Brain structure (temporal lobe volume)	rs7155434
14	78.31973	Obesity	rs11624704
14	78.31973	Coronary artery aneurysm in Kawasaki disease	rs11624704
14	78.31982	Cognitive performance	rs6574433
14	78.74307	Body mass index	rs17835706
14	79.38089	Underweight status	rs12882679
14	79.43311	Obesity	rs7141420
14	79.43311	Body mass index	rs7141420
14	79.43703	Obesity	rs2370983
14	79.47062	Body mass index	rs10150332
14	79.47882	Waist circumference	rs10146997
14	79.53575	Amyotrophic lateral sclerosis (age of onset)	rs7147705



date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr15:71014241–72788879 [71014241–72788879]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:72288879

number of SNPs plotted: 3914

min P-value: 7.55E–6 [chr15:72288879]

max P-value: 9.99E–1 [chr15:72330977]

omitted Genes: AC079322.1, RN7SL853P, AC009712.1

omitted Genes: ADPGK, ADPGK–AS1

omitted GWAS Hits: chr15:71.869062–Height, chr15:72.206596–3–hydroxypropylmercapturic acid levels in smokers

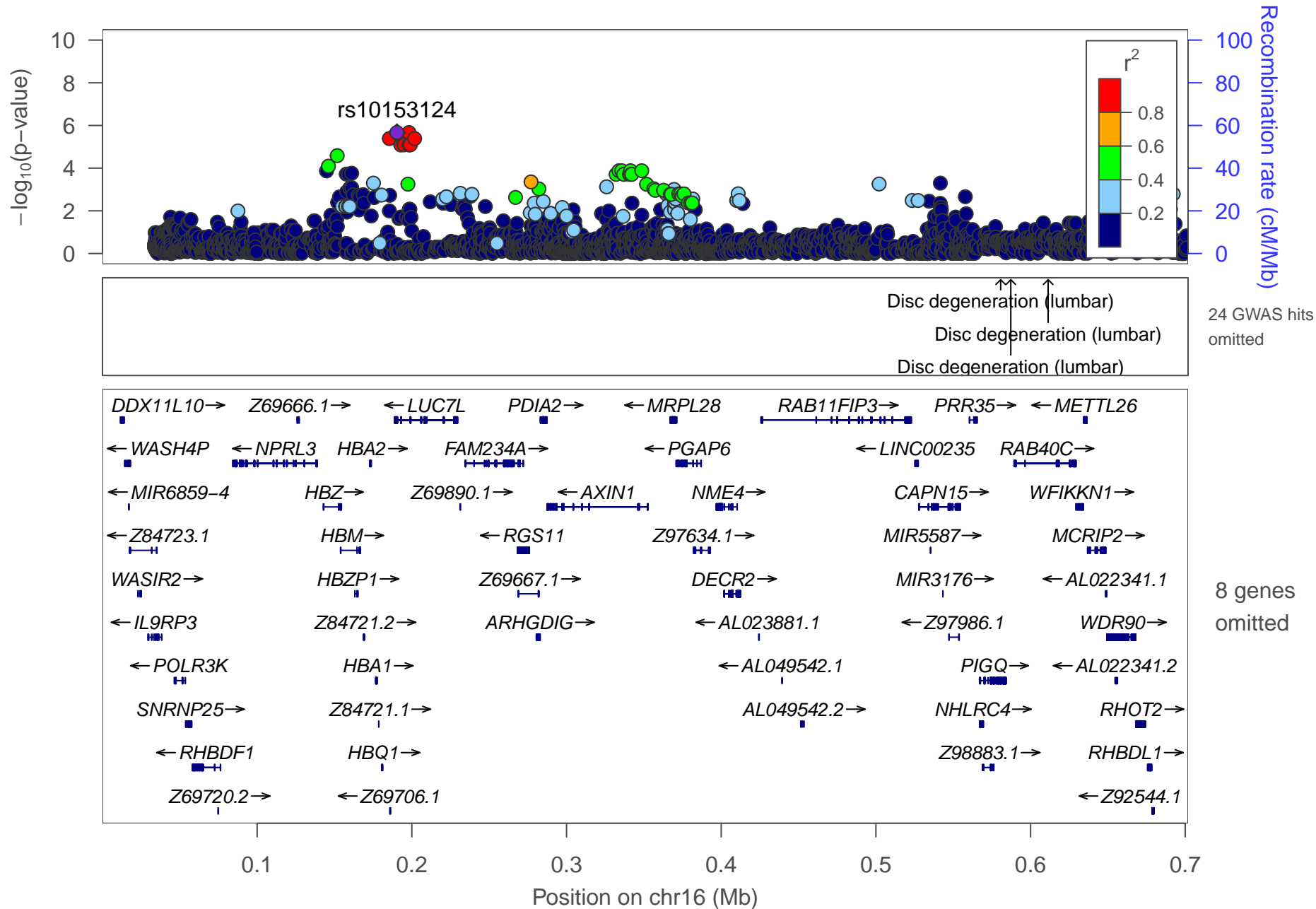
omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
15	71.13167	Thiazide-induced adverse metabolic effects in hypertensive patients	rs12904863
15	71.28061	Symmetrical dimethylarginine levels	rs76917273
15	71.28246	Periodontitis (PAL4Q3)	rs9806183
15	71.28442	Periodontitis (PAL4Q3)	rs1442779
15	71.28442	Periodontitis (Mean PAL)	rs1442779
15	71.31628	Antibody status in <i>Tripanosoma cruzi</i> seropositivity	rs17786786
15	71.35278	Pulmonary function (interaction)	rs12899618
15	71.35278	Pulmonary function	rs12899618
15	71.38762	Airflow obstruction	rs2044029
15	71.40455	Pulmonary function	rs12441227
15	71.44975	Alzheimer disease and age of onset	rs142200609
15	71.81483	3-hydroxypropylmercapturic acid levels in smokers	rs113441626
15	71.86906	Height	rs12902421
15	71.87713	Metabolite levels (HVA/MHPG ratio)	rs12050794
15	72.20660	3-hydroxypropylmercapturic acid levels in smokers	rs113920924
15	72.51906	Posterior cortical atrophy and Alzheimer's disease	rs8038734



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr16:1–701813 [1–701813]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:190339

number of SNPs plotted: 2385

min P-value: 2.15E–6 [chr16:190339]

max P-value: 10E–1 [chr16:347820]

omitted Genes: MPG, Z69720.1, Z92544.3

omitted Genes: STUB1, JMJD8, WDR24

omitted Genes: Z92544.2, FBXL16

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

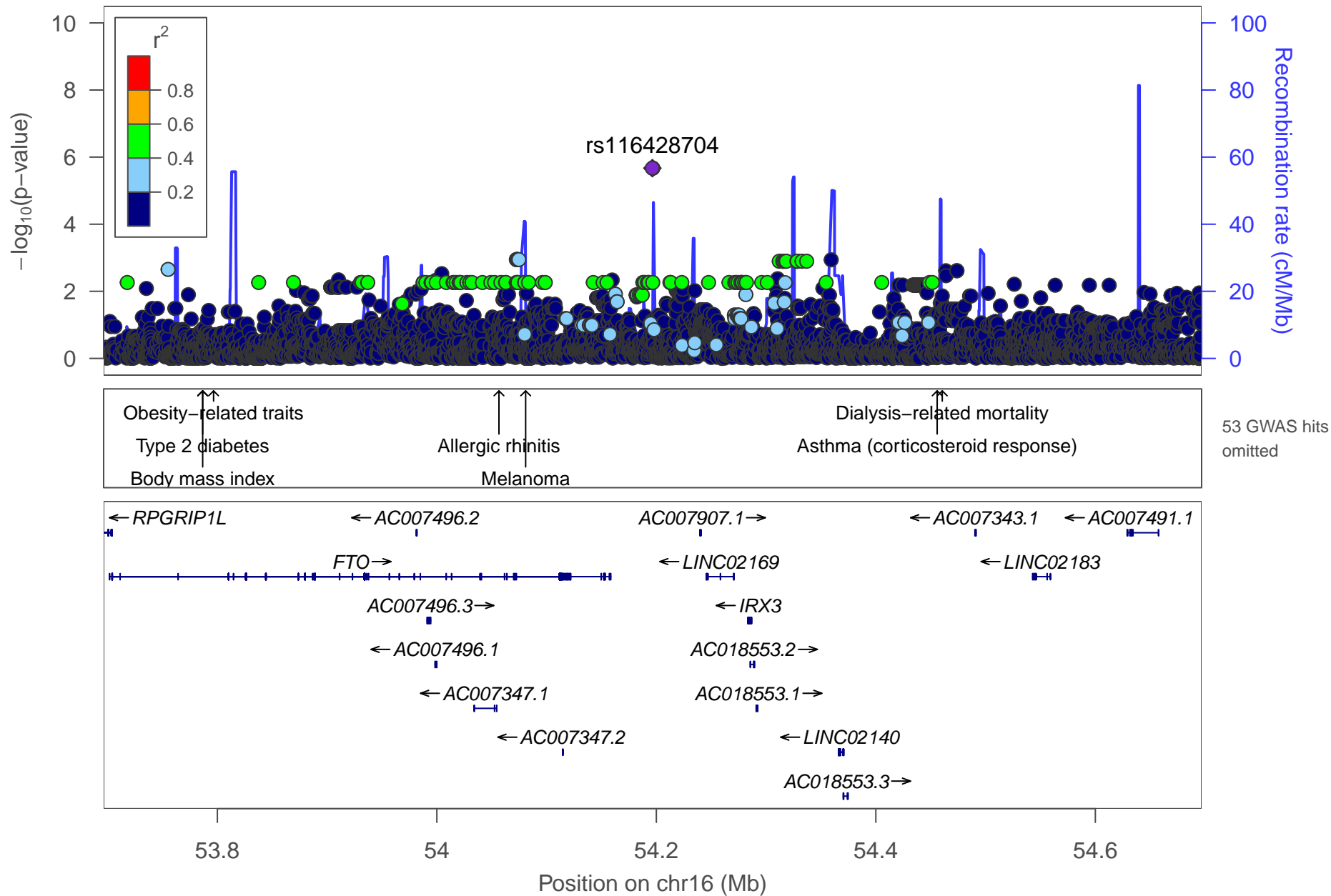
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
16	0.099541	Hemoglobin levels	rs570013781
16	0.113599	Red blood cell traits	rs11248850
16	0.134391	Hematology traits	rs7203560
16	0.134391	Mean corpuscular volume	rs7203560
16	0.134391	Mean corpuscular hemoglobin concentration	rs7203560
16	0.134391	Mean corpuscular hemoglobin	rs7203560
16	0.134391	Sickle cell anemia (haemolysis)	rs7203560
16	0.175654	Mean corpuscular hemoglobin	rs2858942
16	0.190281	Hematology traits	rs1211375
16	0.190281	Mean corpuscular volume	rs1211375
16	0.190281	Mean corpuscular hemoglobin	rs1211375
16	0.248589	Red blood cell traits	rs13339636
16	0.254804	Mean corpuscular volume	rs7189020
16	0.259156	Mean corpuscular hemoglobin	rs1122794
16	0.259156	Red blood cell traits	rs1122794
16	0.260381	Red blood cell traits	rs13335629
16	0.264781	Red blood cell traits	rs9924561
16	0.284580	Morning vs. evening chronotype	rs432925
16	0.297063	Bone mineral density (spine)	rs117208012
16	0.325782	Bone mineral density	rs9921222
16	0.325782	Bone mineral density (spine)	rs9921222

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
16	0.337867	Body mass index	rs11866815
16	0.530124	Mean corpuscular hemoglobin concentration	rs2266928
16	0.580665	Disc degeneration (lumbar)	rs1981483
16	0.587212	Disc degeneration (lumbar)	rs2017567
16	0.611335	Disc degeneration (lumbar)	rs7204439
16	0.625680	Height	rs763014



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr16:53696382–54696839 [53696382–54696839]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:54196382

number of SNPs plotted: 4154

min P-value: 2.13E–6 [chr16:54196382]

max P-value: 9.99E–1 [chr16:54415261]

omitted GWAS Hits: chr16:54.460512–Dialysis–related mortality, chr16:54.056583–Allergic rhinitis

omitted GWAS Hits: chr16:54.080912–Melanoma, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

Make more plots at <http://csg.sph.umich.edu/locuszoom/>

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

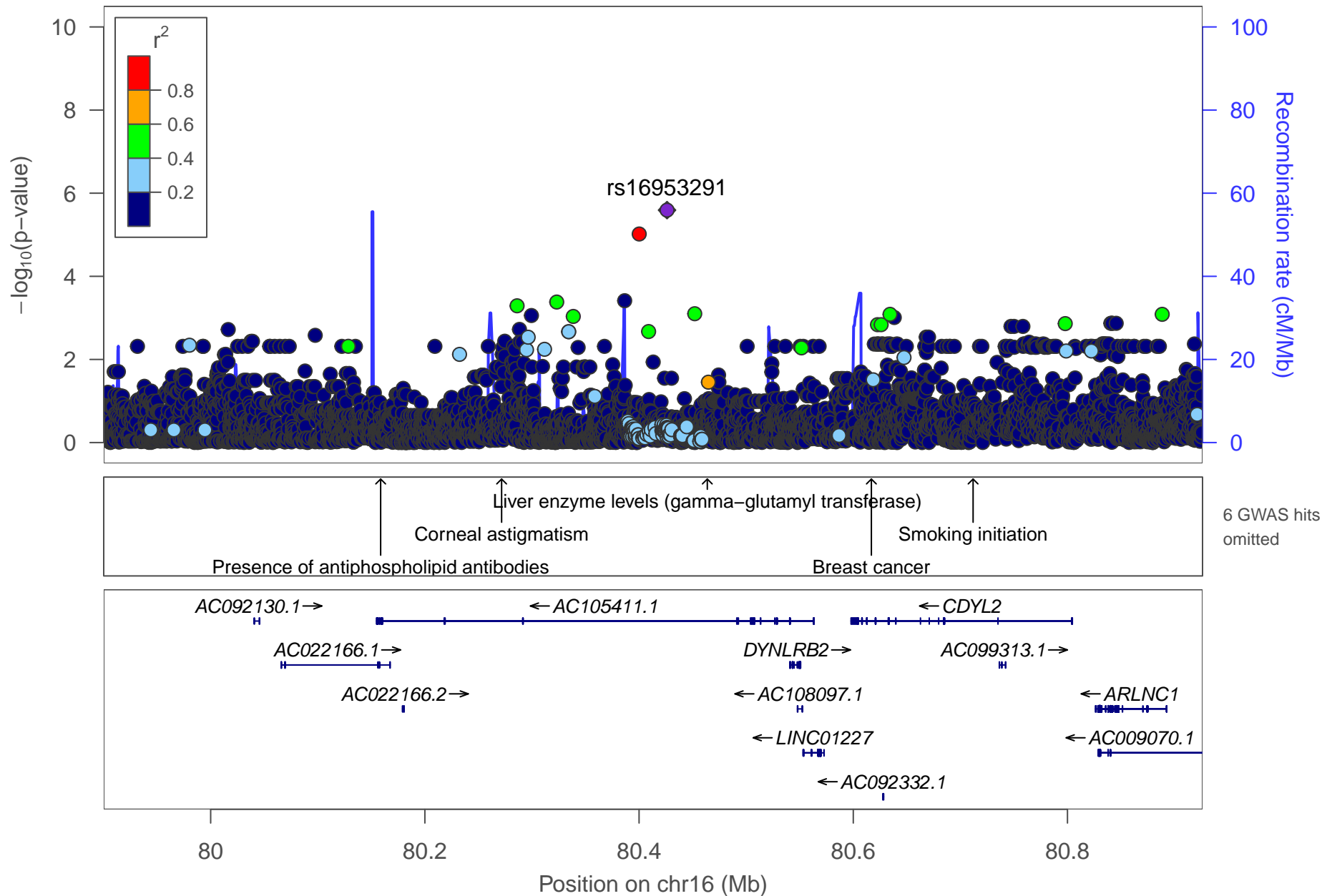
chr	pos (Mb)	trait	snp
16	53.72383	Subcutaneous adipose tissue	rs1421084
16	53.73577	Body mass index	rs6499640
16	53.73577	Weight	rs6499640
16	53.76684	Metabolic syndrome	rs9940128
16	53.76684	Body mass index	rs9940128
16	53.76704	Dietary macronutrient intake	rs1421085
16	53.76704	Obesity	rs1421085
16	53.76704	Obesity (early onset extreme)	rs1421085
16	53.76704	Childhood body mass index	rs1421085
16	53.76704	Type 2 diabetes	rs1421085
16	53.76966	Waist circumference	rs1558902
16	53.76966	Body mass index	rs1558902
16	53.76966	Obesity	rs1558902
16	53.76966	Height adjusted BMI	rs1558902
16	53.76966	Obesity (early onset extreme)	rs1558902
16	53.76966	Body mass index (age interaction)	rs1558902
16	53.76966	Childhood body mass index	rs1558902
16	53.76966	Body fat percentage	rs1558902
16	53.76966	C-reactive protein levels or HDL-cholesterol levels (pleiotropy)	rs1558902
16	53.77533	Body mass index	rs1121980
16	53.77533	Obesity (early onset extreme)	rs1121980

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
16	53.77533	HDL cholesterol	rs1121980
16	53.77533	Triglycerides	rs1121980
16	53.77677	Sasang constitutional medicine type (So–Eum)	rs7193144
16	53.77788	Body mass index	rs62033400
16	53.77945	Obesity	rs17817449
16	53.77945	Breast cancer	rs17817449
16	53.77945	Breast cancer (estrogen–receptor negative)	rs17817449
16	53.77954	Obesity	rs8043757
16	53.77954	circulating leptin levels	rs8043757
16	53.78236	Type 2 diabetes	rs8050136
16	53.78236	Body mass in chronic obstructive pulmonary disease	rs8050136
16	53.78236	Adiposity	rs8050136
16	53.78236	Body mass index	rs8050136
16	53.78236	Menarche (age at onset)	rs8050136
16	53.78236	Weight	rs8050136
16	53.78526	Type 2 diabetes	rs9936385
16	53.78598	Body mass index	rs11075990
16	53.78661	Type 2 diabetes	rs9939609
16	53.78661	Body mass index	rs9939609
16	53.78661	Biomedical quantitative traits	rs9939609
16	53.78661	Menarche (age at onset)	rs9939609

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
16	53.78770	Body mass index	rs7202116
16	53.78874	Obesity	rs7185735
16	53.79158	Obesity (extreme)	rs9941349
16	53.79415	Body mass index	rs17817964
16	53.79655	Obesity-related traits	rs9930506
16	53.79786	Subcutaneous adipose tissue	rs9922619
16	53.80522	Osteoarthritis	rs8044769
16	53.80900	Body mass index	rs12149832
16	53.81157	Type 2 diabetes	rs11642841
16	53.82138	Breast cancer	rs11075995
16	53.82138	Breast cancer (estrogen-receptor negative)	rs11075995
16	53.82614	Response to thiopurine in inflammatory bowel disease (leukopenia)	rs79206939
16	53.85383	Eyebrow thickness	rs12597422
16	53.99406	Sex hormone-binding globulin levels	rs12596210
16	54.05658	Allergic rhinitis	rs7187423
16	54.08091	Melanoma	rs16953002
16	54.45588	Asthma (corticosteroid response)	rs2388639
16	54.46051	Dialysis-related mortality	rs9921518



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr16:79900141–80926104 [79900141–80926104]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:80426104

number of SNPs plotted: 5085

min P-value: 2.56E–6 [chr16:80426104]

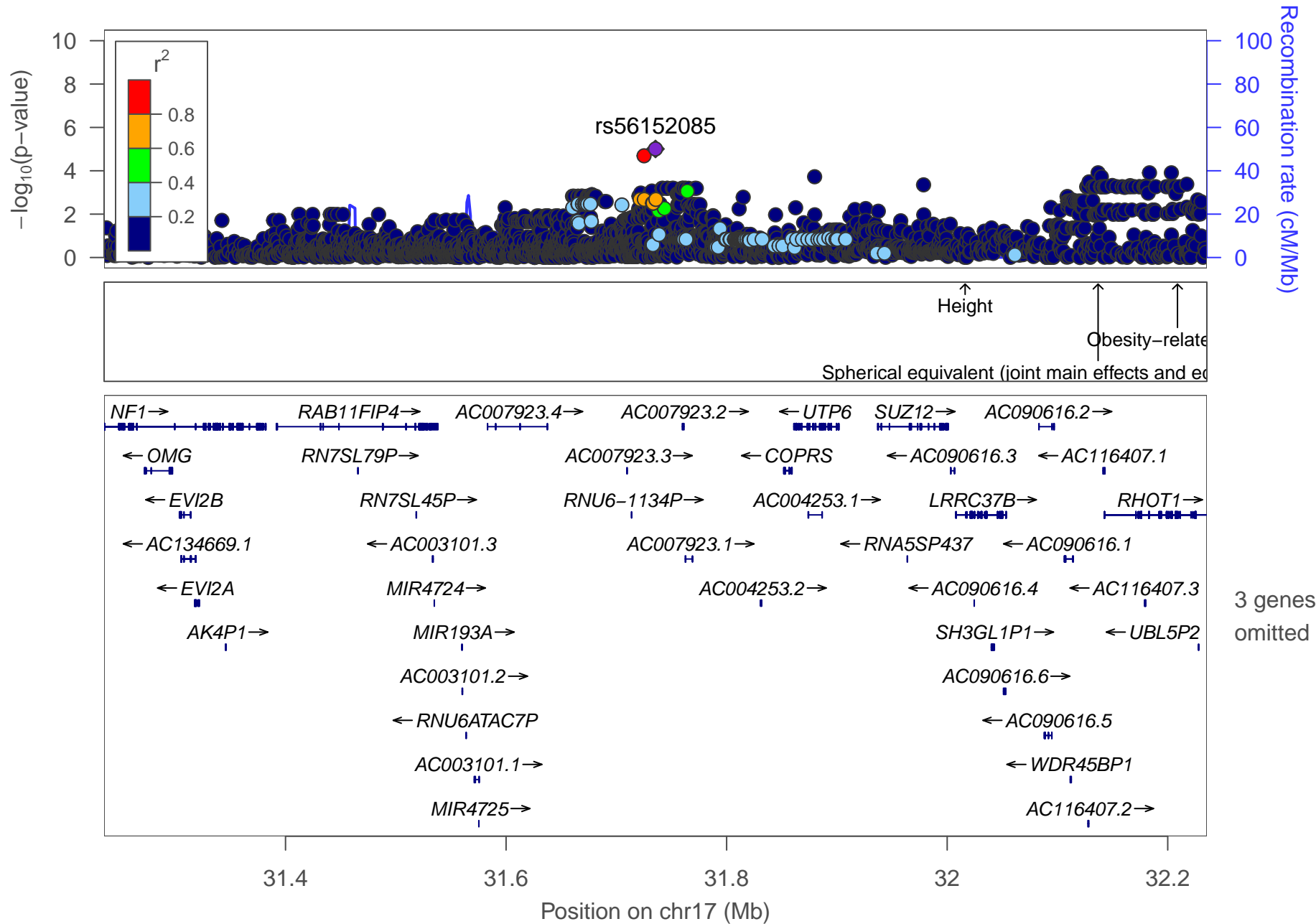
max P-value: 9.99E–1 [chr16:80707691]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
16	79.95780	Depressive symptoms (SSRI exposure interaction)	rs10514475
16	80.07197	Bipolar disorder and eating disorder	rs12149074
16	80.07197	Eating disorder in bipolar disorder	rs12149074
16	80.15871	Presence of antiphospholipid antibodies	rs8060581
16	80.26465	Alzheimer disease and age of onset	rs79358781
16	80.27165	Corneal astigmatism	rs11859036
16	80.43330	Alzheimer disease and age of onset	rs137967137
16	80.46370	Liver enzyme levels (gamma-glutamyl transferase)	rs4581712
16	80.61691	Breast cancer	rs13329835
16	80.71188	Smoking initiation	rs41472047
16	80.75155	Inflammatory bowel disease	rs16953946



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr17:31235486–32235486 [31235486–32235486]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:31735486

number of SNPs plotted: 2994

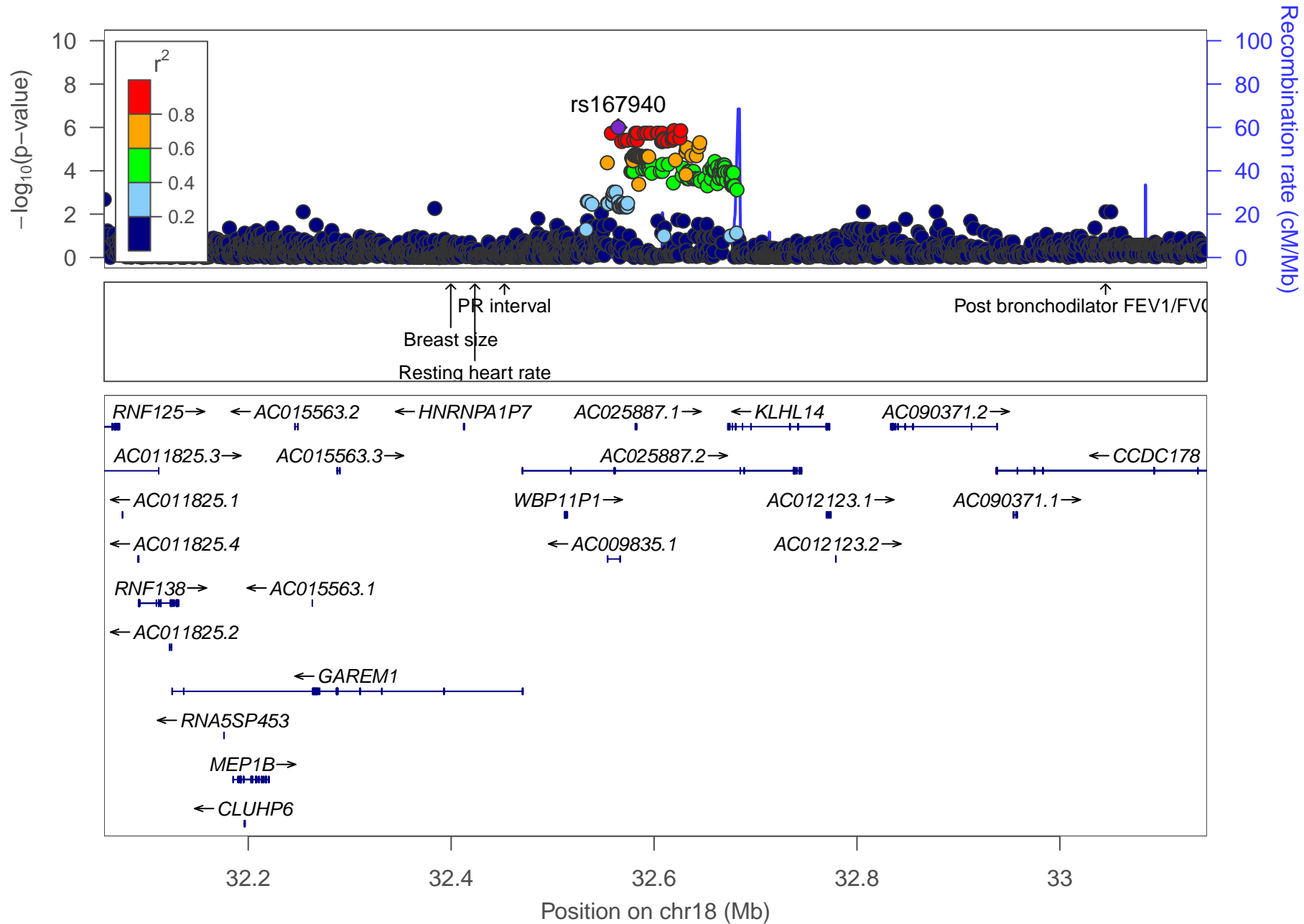
min P-value: 9.84E–6 [chr17:31735486]

max P-value: 9.98E–1 [chr17:31483072]

omitted Genes: MIR365B, ARGFXP2, AC116407.4

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
17	32.01626	Height	rs17780086
17	32.13687	Spherical equivalent (joint main effects and education interaction)	rs72483203
17	32.20884	Obesity-related traits	rs17780304



date: Thu Oct 20 22:13:31 2022

build: hg38

display range: chr18:32057937–33145059 [32057937–33145059]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:32564660

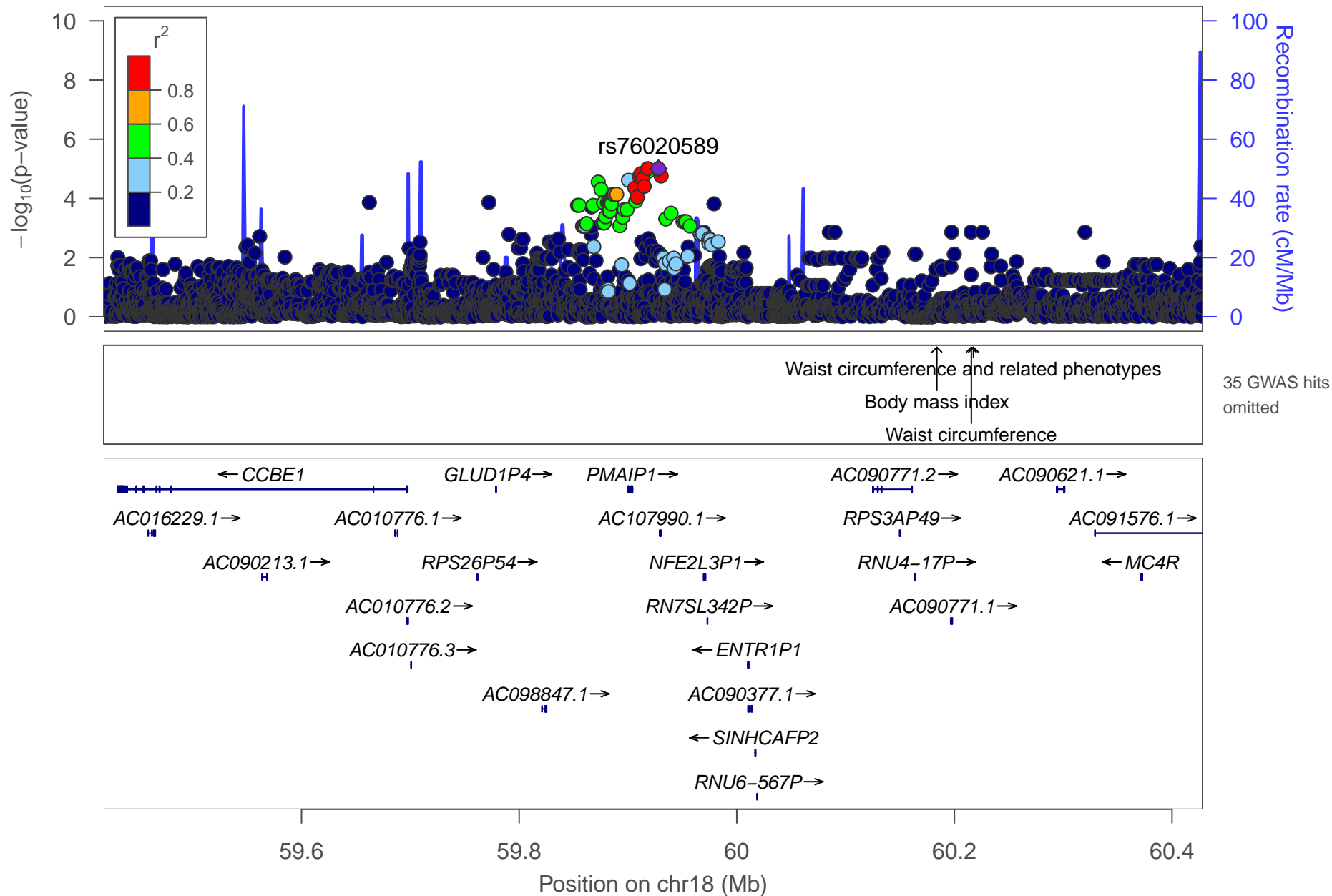
number of SNPs plotted: 2809

min P-value: 1E–6 [chr18:32564660]

max P-value: 9.99E–1 [chr18:32444036]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
18	32.39961	Breast size	rs58263042
18	32.42336	Resting heart rate	rs11081761
18	32.45256	PR interval	rs17744182
18	33.04505	Post bronchodilator FEV1/FVC ratio	rs190650493



date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr18:59418230–60428012 [59418230–60428012]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:59928012

number of SNPs plotted: 4182

min P-value: 9.85E–6 [chr18:59918230]

max P-value: 9.99E–1 [chr18:59721823]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

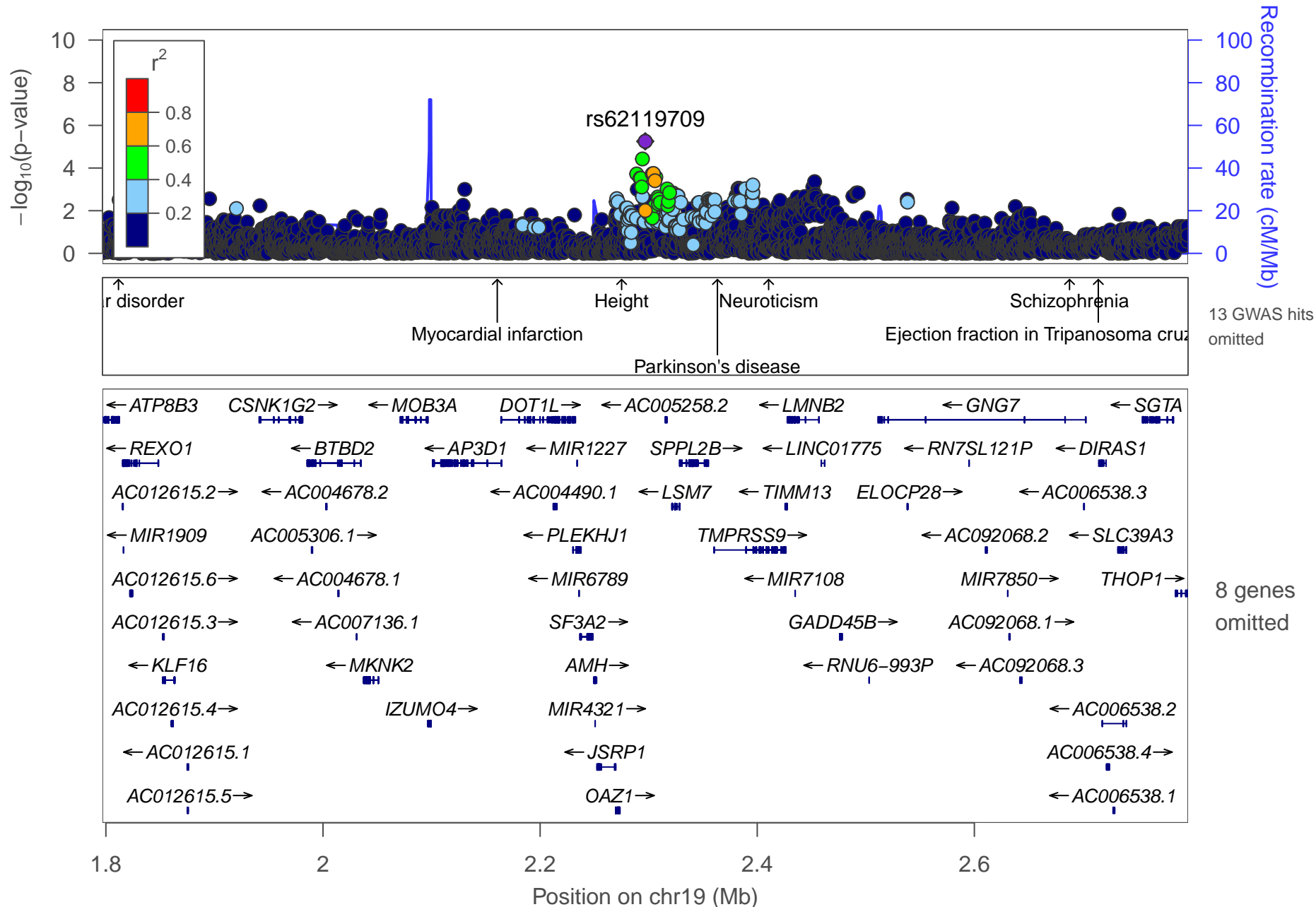
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
18	59.48481	Age-related hearing impairment	rs12955474
18	59.64758	Major depressive disorder	rs11152166
18	59.83615	Response to bleomycin (chromatid breaks)	rs8093763
18	59.91425	Alzheimer disease and age of onset	rs142176337
18	59.95506	Chronic lymphocytic leukemia	rs4368253
18	60.00657	Body mass index	rs12964056
18	60.06762	Body mass index	rs7234864
18	60.08378	Metabolic syndrome	rs12957347
18	60.14475	Obesity (early onset extreme)	rs17700144
18	60.16140	Body mass index	rs2331841
18	60.16190	Body mass index	rs6567160
18	60.16190	Fat body mass	rs6567160
18	60.16190	Childhood body mass index	rs6567160
18	60.16190	Body fat percentage	rs6567160
18	60.17117	Coronary artery disease	rs663129
18	60.17254	Body mass index	rs571312
18	60.17254	Body mass index (age interaction)	rs571312
18	60.17254	C-reactive protein levels or triglyceride levels (pleiotropy)	rs571312
18	60.17436	Body mass index	rs591166
18	60.18179	HDL cholesterol	rs12967135
18	60.18179	C-reactive protein levels or HDL-cholesterol levels (pleiotropy)	rs12967135

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
18	60.18319	Obesity	rs538656
18	60.18386	Body mass index	rs17782313
18	60.18386	Height	rs17782313
18	60.18386	Obesity	rs17782313
18	60.18453	Obesity	rs10871777
18	60.18535	Obesity (early onset extreme)	rs476828
18	60.18572	Obesity	rs11152213
18	60.18572	Height	rs11152213
18	60.19160	Body mass index	rs8089364
18	60.20576	Urate levels	rs12955983
18	60.21555	Waist circumference	rs489693
18	60.21555	Antipsychotic drug-induced weight gain	rs489693
18	60.21752	Waist circumference and related phenotypes	rs12970134
18	60.21752	Body mass index	rs12970134
18	60.21752	Type 2 diabetes	rs12970134
18	60.21752	Weight	rs12970134
18	60.29588	Obesity-related traits	rs17773430



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr19:1796860–2796863 [1796860–2796863]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:2296863

number of SNPs plotted: 3977

min P-value: 5.61E–6 [chr19:2296860]

max P-value: 10E–1 [chr19:1833291]

omitted Genes: ABHD17A, SCAMP4, ADAT3

omitted Genes: CSNK1G2–AS1, AC005258.1, PEAK3

omitted Genes: LINGO3, AC104530.1

omitted GWAS Hits: chr19:2.714172–Ejection fraction in Trypanosoma cruzi seropositivity, chr19:2.687653–Schizoph

omitted GWAS Hits: NA, NA

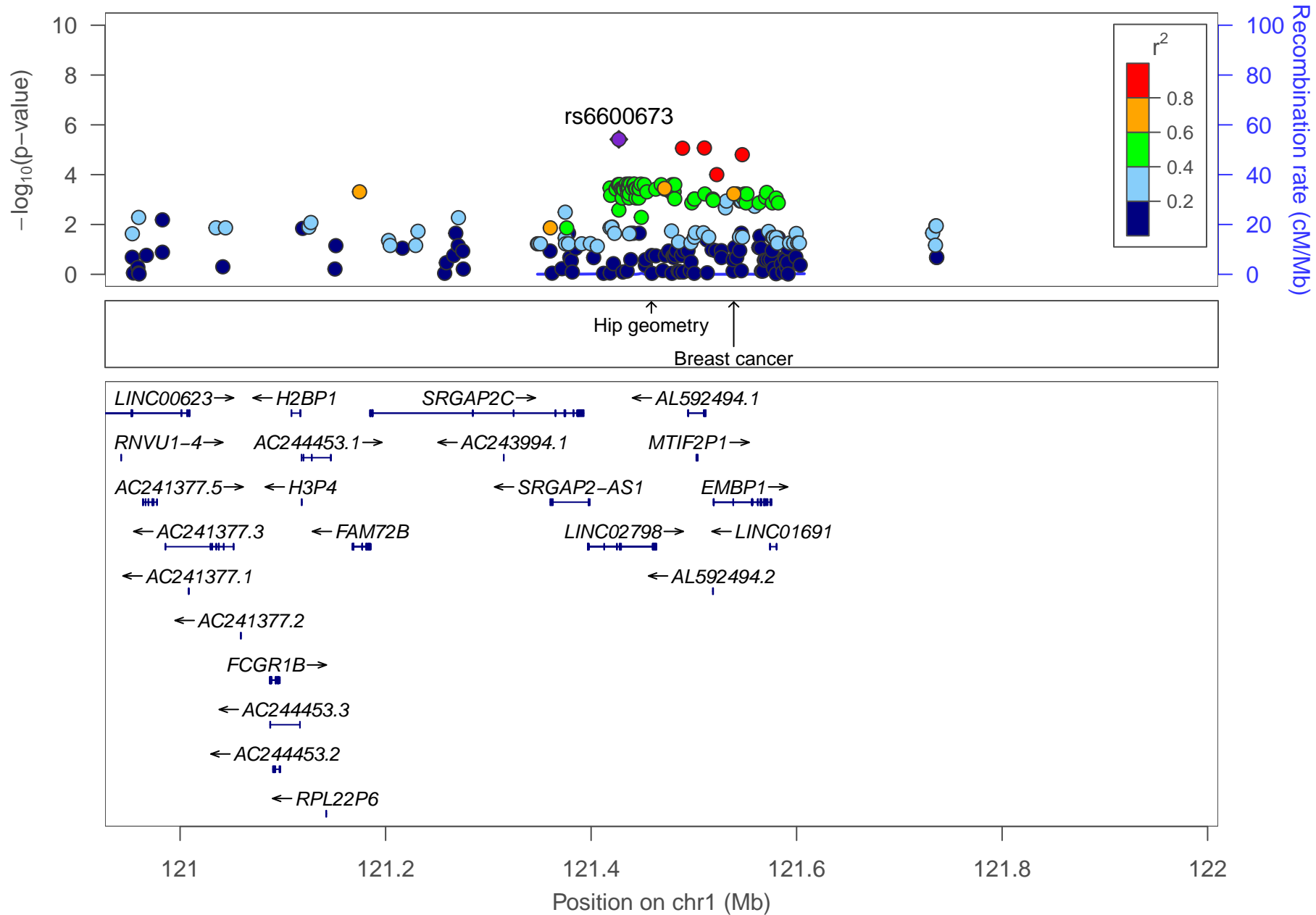
omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
19	1.803583	Obesity-related traits	rs7253430
19	1.811604	Bipolar disorder	rs7250872
19	1.937194	Body mass index	rs11672550
19	2.048282	Subjective well-being	rs12610177
19	2.160530	Myocardial infarction	rs3803915
19	2.160530	Body mass index	rs3803915
19	2.170955	Height	rs12986413
19	2.176404	Height	rs11880992
19	2.176404	Hip minimal joint space width	rs11880992
19	2.177194	Osteoarthritis	rs12982744
19	2.177194	Height	rs12982744
19	2.214058	Plasma omega-6 polyunsaturated fatty acid levels (gamma-linolenic acid)	rs2074552
19	2.232222	Pulse pressure	rs740406
19	2.275080	Height	rs2523178
19	2.363321	Parkinson's disease	rs62120679
19	2.410486	Neuroticism	rs4806846
19	2.522673	3-hydroxypropylmercapturic acid levels in smokers	rs74407240
19	2.547017	Ejection fraction in <i>Trypanosoma cruzi</i> seropositivity	rs6510683
19	2.687653	Schizophrenia	rs57549656
19	2.714172	Ejection fraction in <i>Trypanosoma cruzi</i> seropositivity	rs185543003



date: Thu Oct 20 22:13:31 2022

build: hg38

display range: chr1:120926988–122010262 [120926988–122010262]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:121426988

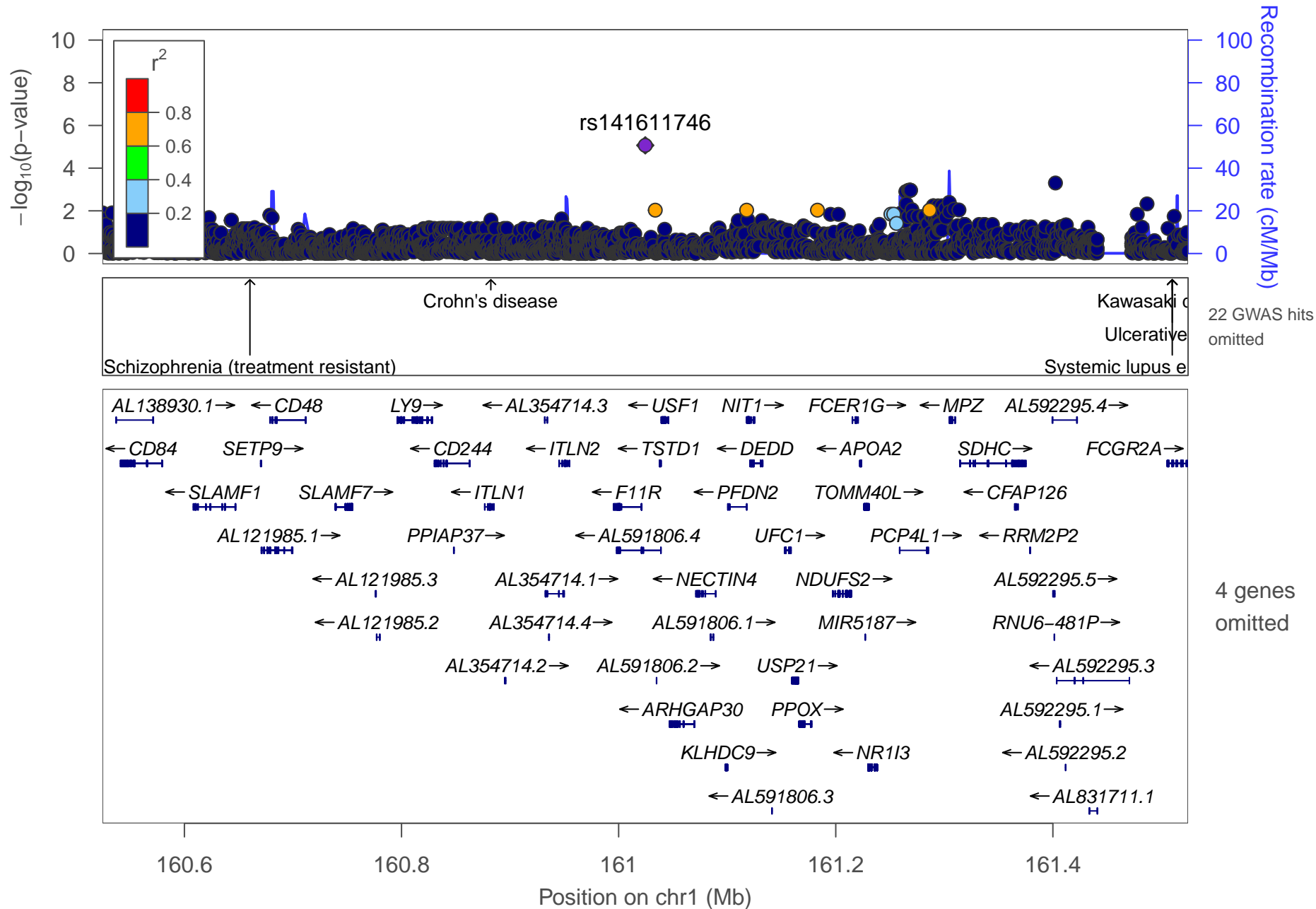
number of SNPs plotted: 230

min P-value: 3.82E-6 [chr1:121426988]

max P-value: 9.67E-1 [chr1:121591719]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	121.4586	Hip geometry	rs6600671
1	121.5388	Breast cancer	rs11249433



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr1:160524526–161524526 [160524526–161524526]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:161024526

number of SNPs plotted: 2999

min P-value: 8.55E–6 [chr1:161024526]

max P-value: 10E–1 [chr1:161070828]

omitted Genes: AL590714.1, B4GALT3, ADAMTS4

omitted Genes: AL590385.2

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

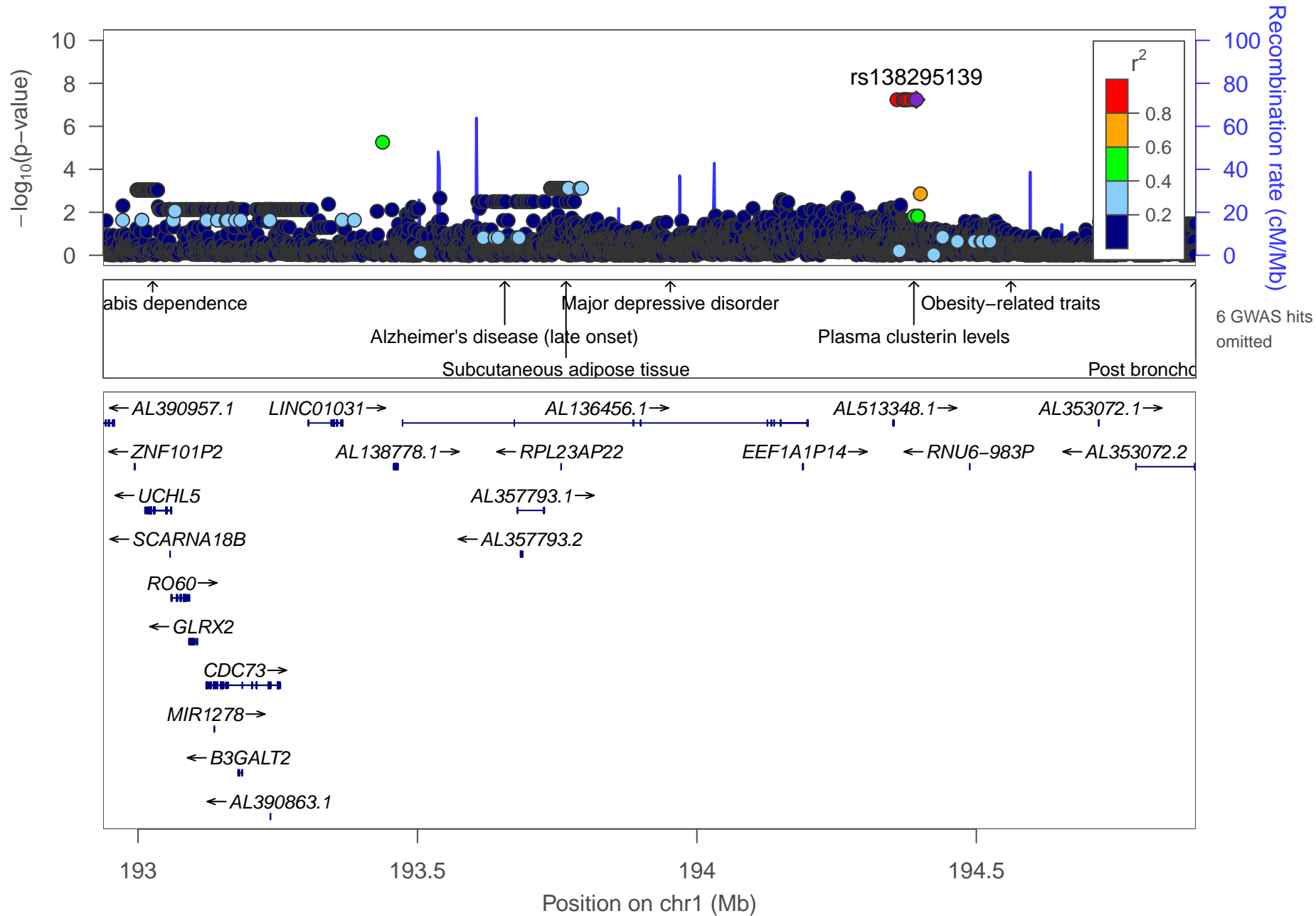
omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	160.5465	Response to anti-TNF therapy in rheumatoid arthritis	rs6427528
1	160.6604	Schizophrenia (treatment resistant)	rs11265461
1	160.6733	Microalbuminuria	rs3795324
1	160.7740	Cervical cancer	rs12068654
1	160.7763	Capecitabine sensitivity	rs576523
1	160.8605	Crohn's disease	rs4656940
1	160.8823	Crohn's disease	rs2274910
1	160.8847	Inflammatory bowel disease	rs2297559
1	160.8872	Ulcerative colitis	rs4656958
1	160.8872	Crohn's disease	rs4656958
1	160.8872	Inflammatory bowel disease	rs4656958
1	161.0567	Night sleep phenotypes	rs12130871
1	161.0638	Night sleep phenotypes	rs12135996
1	161.2205	Metabolite levels (lipoprotein measures)	rs4503368
1	161.2307	Blood metabolite levels	rs4073054
1	161.3027	Visceral adipose tissue adjusted for BMI	rs4657015
1	161.4353	Rheumatoid arthritis	rs72717009
1	161.4938	Functional impairment in major depressive disorder, bipolar disorder and schizophrenia	rs7535475
1	161.5024	Ulcerative colitis	rs10800309
1	161.5024	Inflammatory bowel disease	rs10800309
1	161.5090	Systemic lupus erythematosus	rs6671847

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	161.5100	Kawasaki disease	rs1801274
1	161.5100	Ulcerative colitis	rs1801274
1	161.5100	Systemic lupus erythematosus	rs1801274
1	161.5100	Crohn's disease	rs1801274
1	161.5100	Inflammatory bowel disease	rs1801274
1	161.5144	Helicobacter pylori serologic status	rs368433



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr1:192937542–194892636 [192937542–194892636]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:194392636

number of SNPs plotted: 6800

min P-value: 5.78E–8 [chr1:194358014]

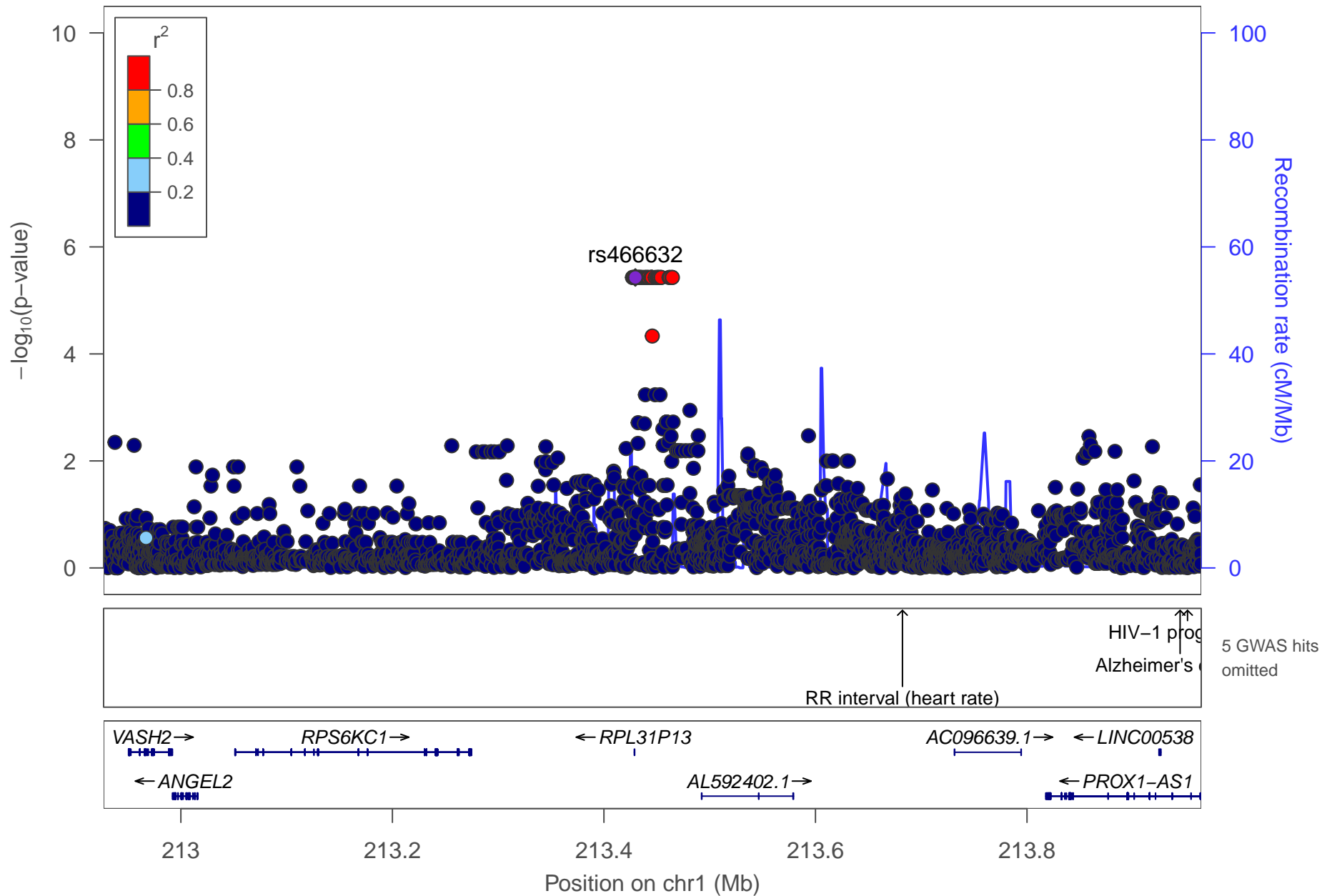
max P-value: 9.99E–1 [chr1:193400222]

omitted GWAS Hits: chr1:194.388206–Plasma clusterin levels, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	193.0261	Cannabis dependence	rs9427573
1	193.6561	Alzheimer's disease (late onset)	rs6678275
1	193.6705	Post bronchodilator FEV1/FVC ratio	rs149819415
1	193.7658	Subcutaneous adipose tissue	rs2025934
1	193.7936	Daytime sleep phenotypes	rs113943039
1	193.9524	Major depressive disorder	rs606149
1	193.9933	White matter hyperintensity burden	rs71642944
1	194.3882	Plasma clusterin levels	rs4428865
1	194.5618	Obesity-related traits	rs3001167
1	194.5799	Post bronchodilator FEV1	rs79237515
1	194.7204	Post bronchodilator FEV1	rs138325697
1	194.7899	Post bronchodilator FEV1	rs144324177
1	194.8925	Post bronchodilator FEV1	rs144276489



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr1:212926960–213964736 [212926960–213964736]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:213429709

number of SNPs plotted: 2696

min P-value: 3.72E–6 [chr1:213426960]

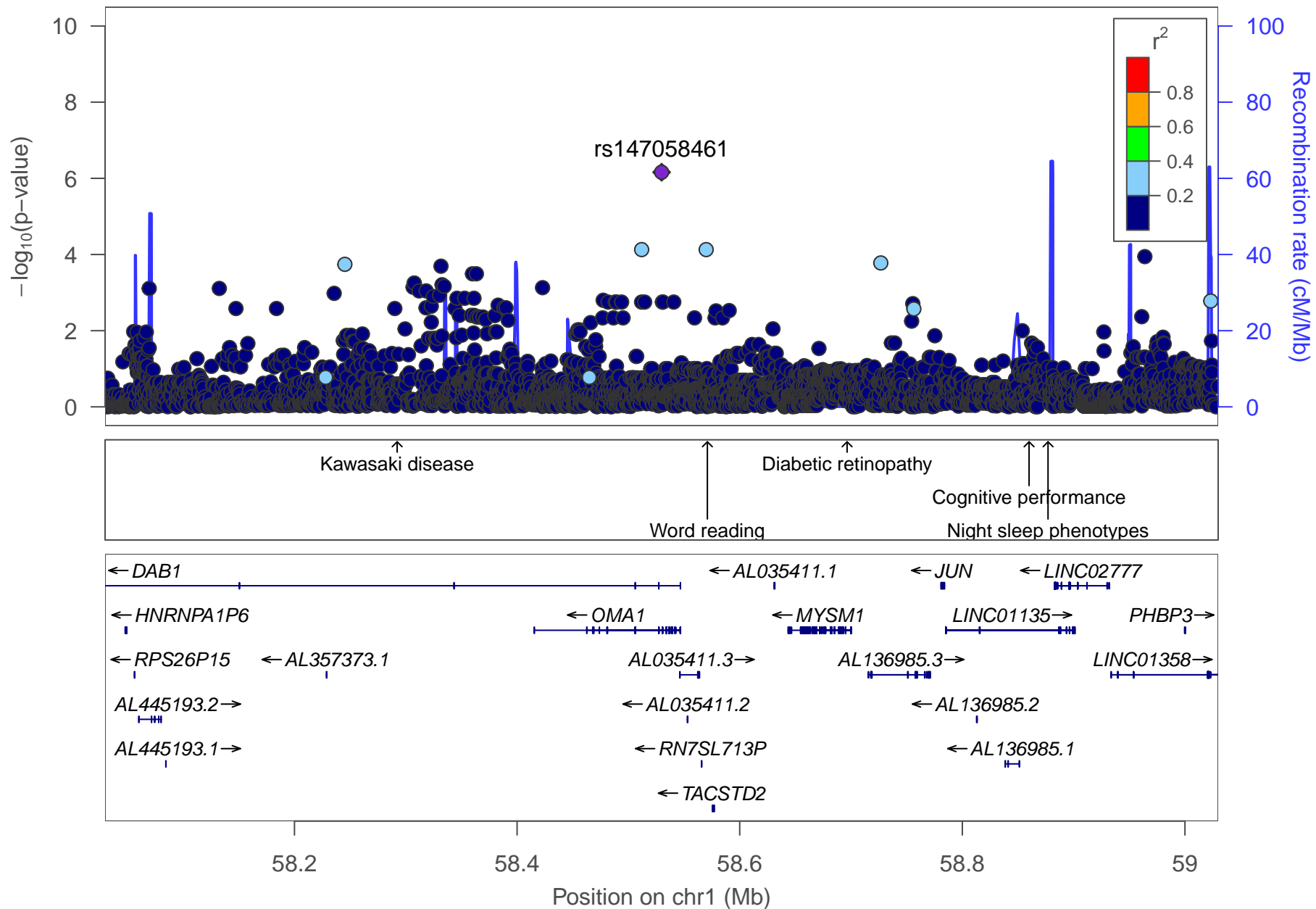
max P-value: 9.99E–1 [chr1:213699057]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	212.9532	Eye color	rs3002288
1	213.4245	Suicide	rs320461
1	213.6613	Metabolite levels (5-HIAA)	rs4655303
1	213.6822	RR interval (heart rate)	rs17706439
1	213.7372	Obesity	rs1704198
1	213.9324	Post bronchodilator FEV1/FVC ratio	rs182234674
1	213.9447	Alzheimer's disease	rs340849
1	213.9518	HIV-1 progression	rs17762192



date: Thu Oct 20 22:11:28 2022

build: hg38

display range: chr1:58029837–59029837 [58029837–59029837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:58529837

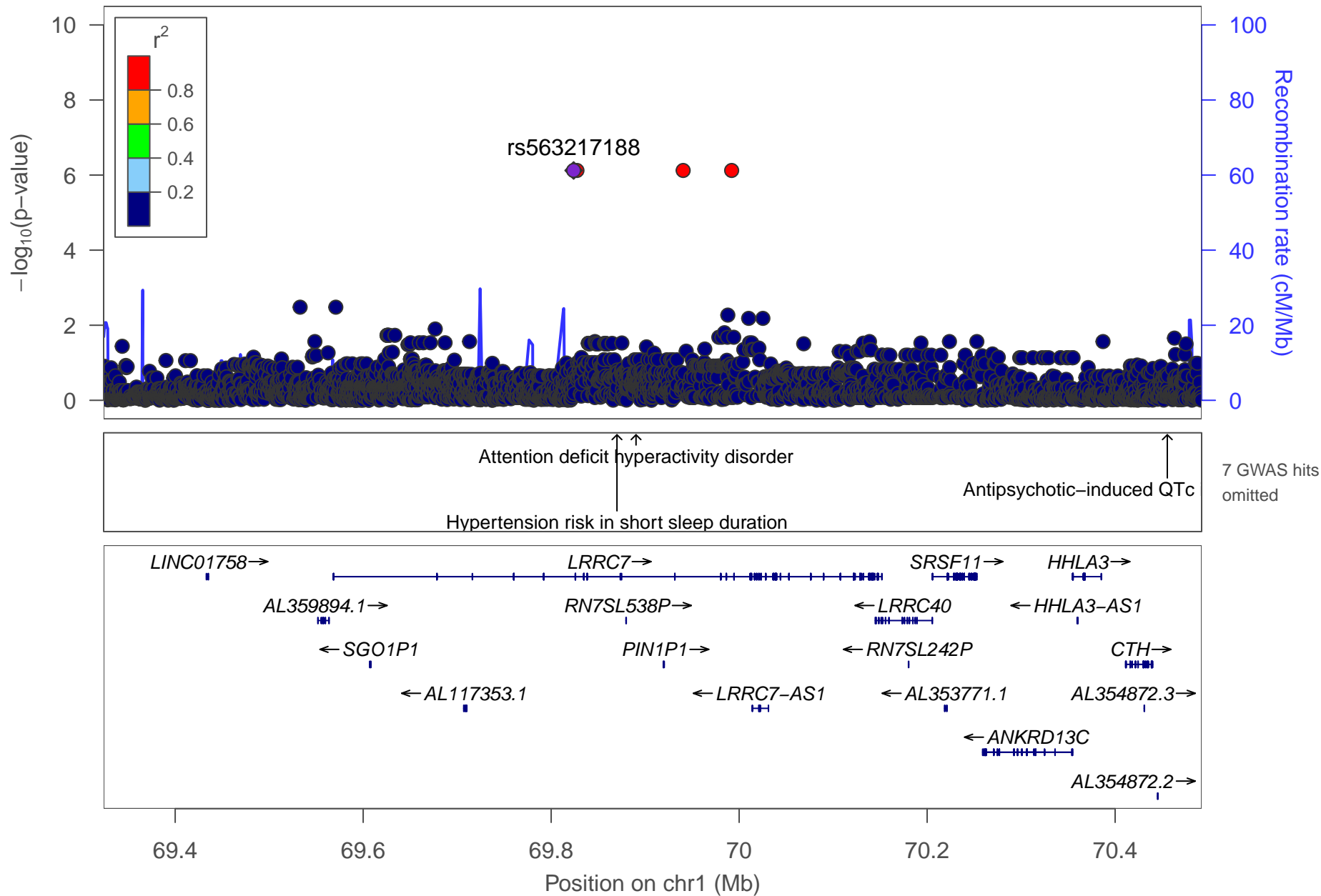
number of SNPs plotted: 3805

min P-value: 6.92E-7 [chr1:58529837]

max P-value: 9.99E-1 [chr1:58484568]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	58.29224	Kawasaki disease	rs527409
1	58.57095	Word reading	rs638065
1	58.69648	Diabetic retinopathy	rs2811893
1	58.85995	Cognitive performance	rs4601609
1	58.87699	Night sleep phenotypes	rs2764894



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr1:69323901–70492002 [69323901–70492002]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:69823901

number of SNPs plotted: 3484

min P-value: $7.54E-7$ [chr1:69823901]

max P-value: $10E-1$ [chr1:70139284]

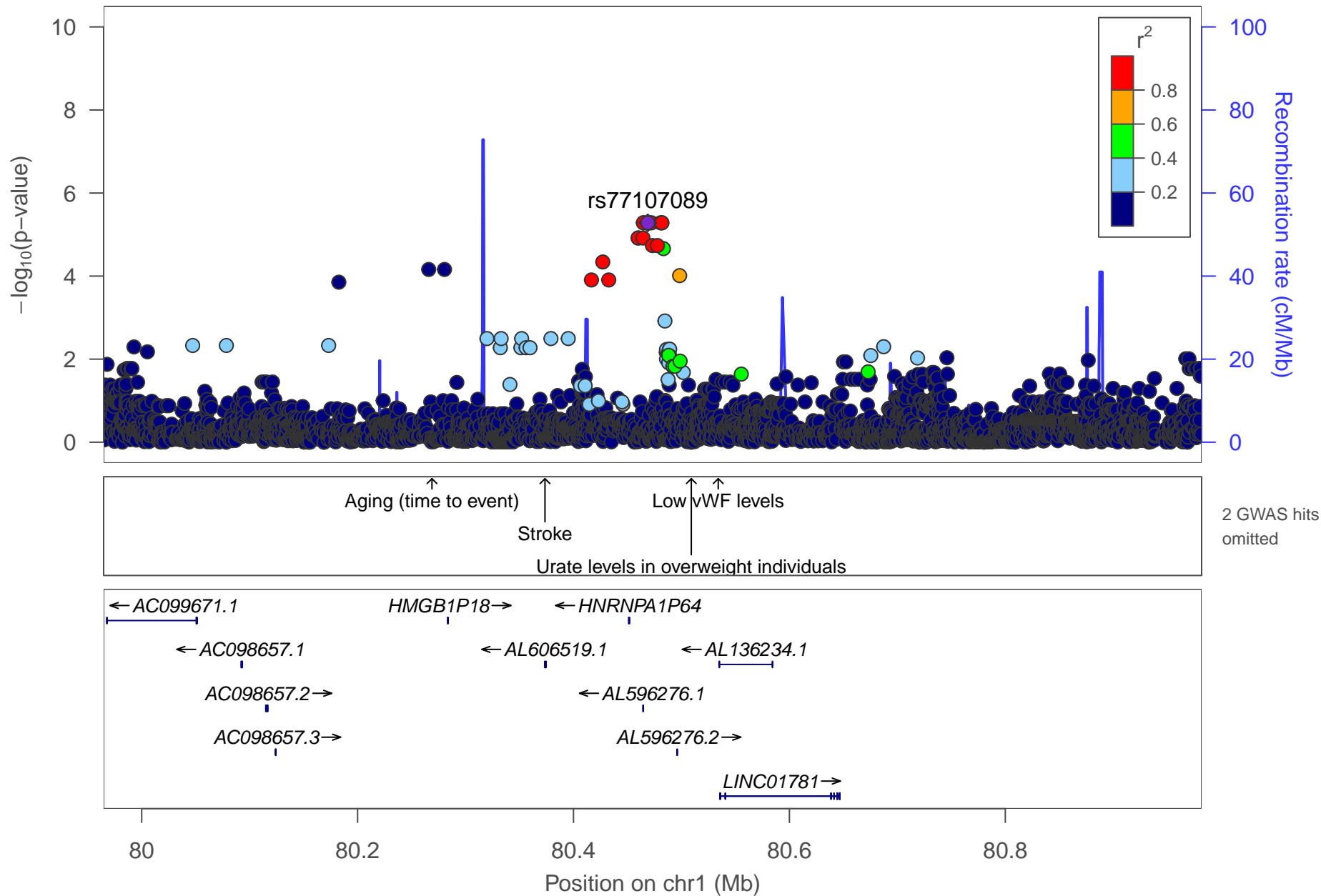
omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	69.48402	Post bronchodilator FEV1/FVC ratio	rs138006855
1	69.61911	Cannabis use (initiation)	rs11809230
1	69.68218	Cannabis use (age at onset)	rs181704351
1	69.68876	Orofacial clefts	rs1417437
1	69.74140	Body mass index	rs10889850
1	69.87000	Hypertension risk in short sleep duration	rs2226284
1	69.89030	Attention deficit hyperactivity disorder	rs12037173
1	69.93886	Obesity-related traits	rs1023008
1	70.42142	Adverse response to chemotherapy in breast cancer (alopecia) (cyclophosphamide+doxorubicin+/-5FU)	rs672203
1	70.45549	Antipsychotic-induced QTc interval prolongation	rs10458561



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr1:79964760–80981863 [79964760–80981863]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:80468831

number of SNPs plotted: 3916

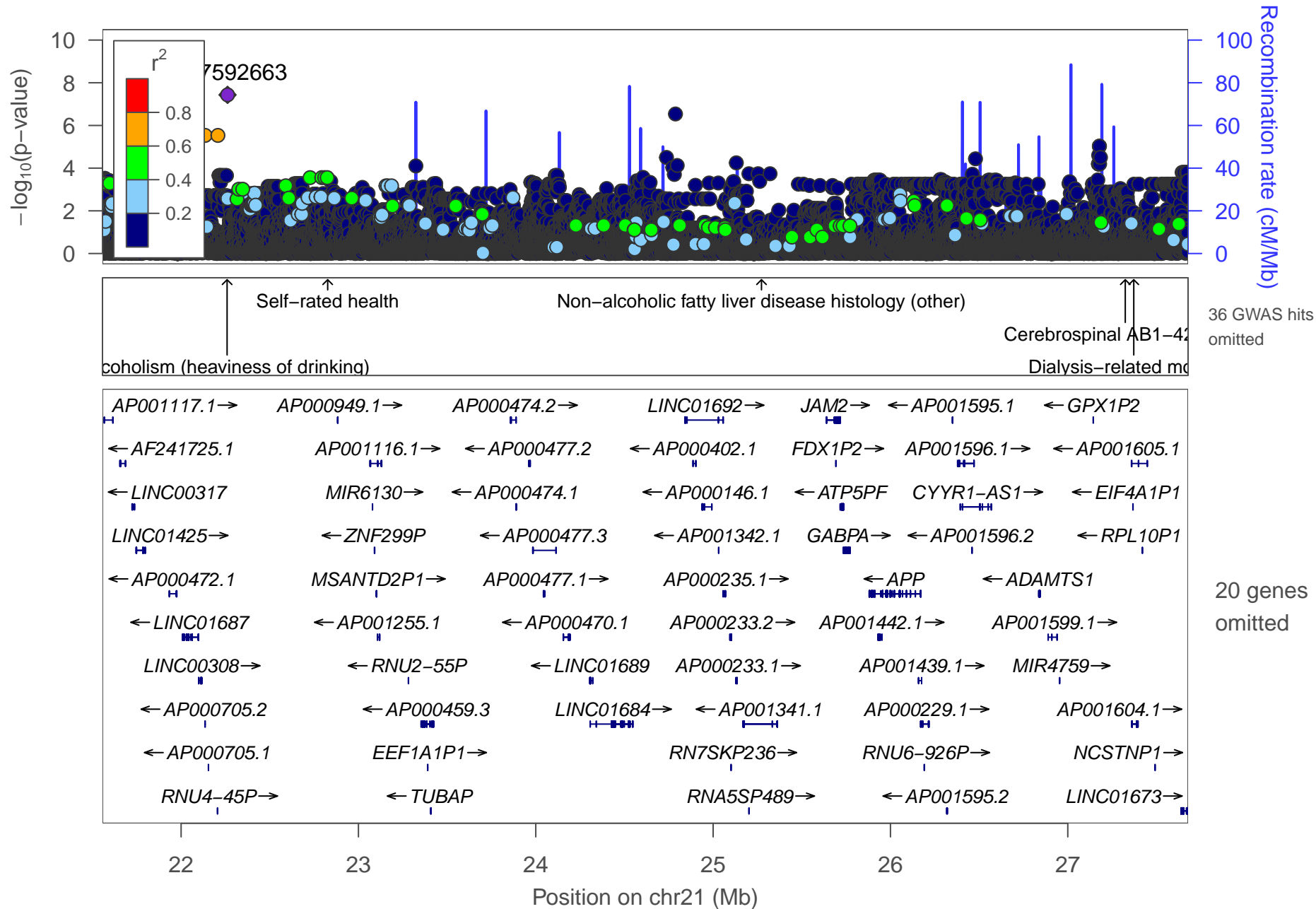
min P-value: 5.21E–6 [chr1:80464760]

max P-value: 10E–1 [chr1:80809206]

omitted GWAS Hits: chr1:80.534074–Low vWF levels, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
1	80.01220	Obesity-related traits	rs10493631
1	80.26890	Aging (time to event)	rs11162963
1	80.37359	Stroke	rs1937787
1	80.44543	Estradiol plasma levels (breast cancer)	rs12118390
1	80.50914	Urate levels in overweight individuals	rs7539892
1	80.53407	Low vWF levels	rs17398299



date: Thu Oct 20 22:13:41 2022

build: hg38

display range: chr21:21556609–27678240 [21556609–27678240]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:22261900

number of SNPs plotted: 27061

min P-value: 3.69E–8 [chr21:22261900]

max P-value: 10E–1 [chr21:21980712]

omitted Genes: AP000561.1, MAPK6P2, AP000959.1

omitted Genes: AP000459.1, AP000459.2, AP000961.1

omitted Genes: RPL13AP7, AP001340.1, LINC00158

omitted Genes: AP000221.1, MIR155HG, MIR155

omitted Genes: AP000223.1, MRPL39, RNGTTP1

omitted Genes: AP000224.1, LLPHP2, RNU6–123P

omitted Genes: CYYR1, ADAMTS5

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

Make more plots at <http://csg.sph.umich.edu/locuszoom/>

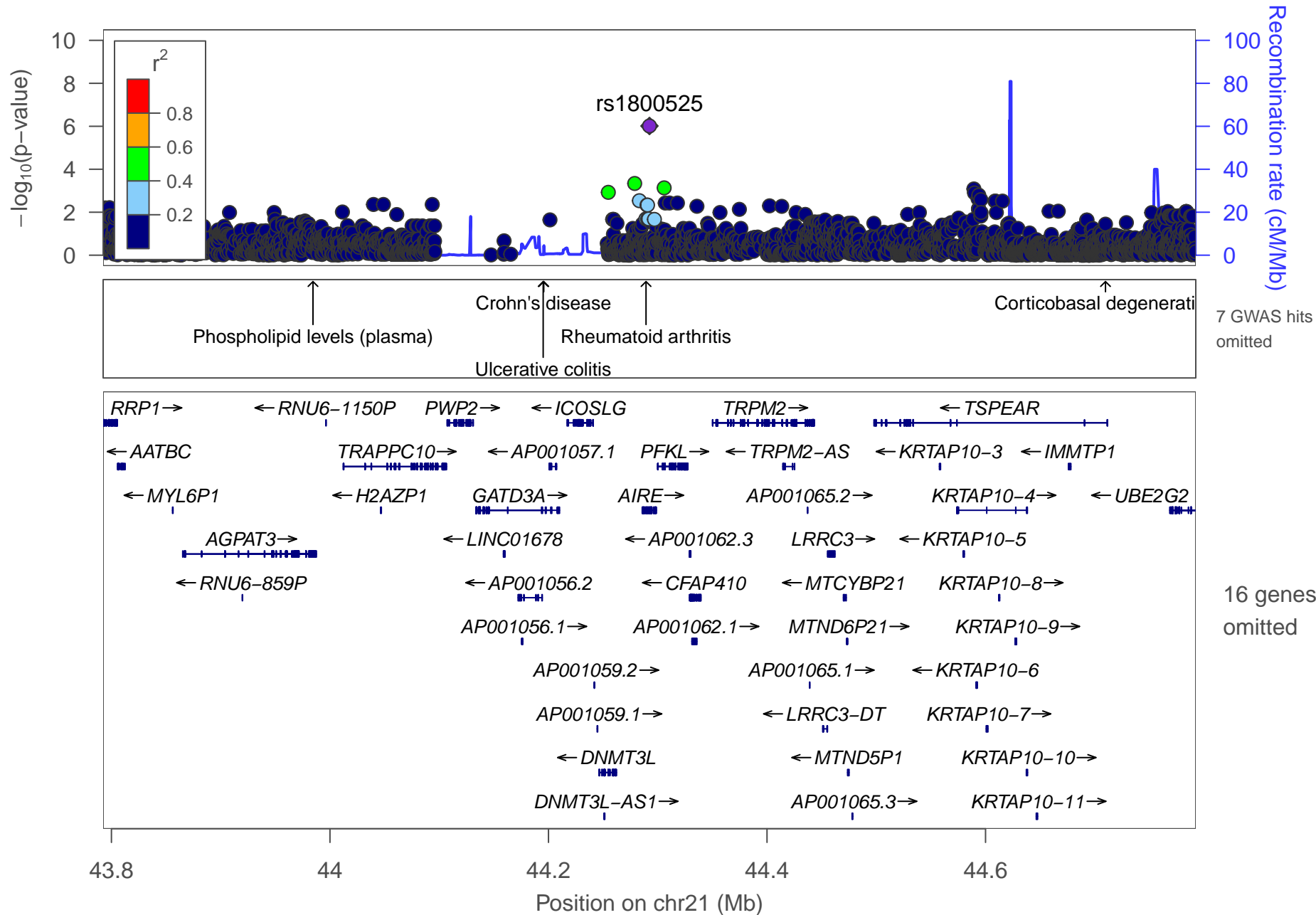
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
21	21.66078	Parental longevity (combined parental age at death)	rs11088872
21	21.76953	Dysphagia	rs2226441
21	21.77228	Dysphagia	rs2827025
21	21.77363	Diisocyanate-induced asthma	rs2014791
21	21.77912	Asthma	rs7281353
21	21.77912	Asthma (childhood onset)	rs7281353
21	22.25936	Alcoholism (heaviness of drinking)	rs2827312
21	22.82649	Self-rated health	rs7279441
21	23.04818	Colorectal or endometrial cancer	rs4816890
21	23.73289	Schizophrenia	rs2828478
21	23.77080	Major depressive disorder	rs2828520
21	24.06519	Urinary albumin-to-creatinine ratio	rs2828785
21	24.54093	Alzheimer's disease in APOE e4+ carriers	rs721146
21	25.27277	Non-alcoholic fatty liver disease histology (other)	rs9977253
21	25.45420	Adverse response to chemotherapy (neutropenia/leucopenia) (all antimetabolite drugs)	rs8127977
21	25.45746	Parasitemia in Tripanosoma cruzi seropositivity	rs12483240
21	25.63006	Cognitive performance	rs17001239
21	25.69203	Longitudinal change in brain amyloid plaque burden	rs8129913
21	26.34434	Airflow obstruction	rs9975851
21	26.49984	Response to exercise (triglyceride levels)	rs222158
21	26.76949	Parental extreme longevity (95 years and older)	rs73185805

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
21	26.77387	Metabolite levels (HVA)	rs2830487
21	26.77387	Metabolite levels (HVA–5–HIAA Factor score)	rs2830487
21	27.28563	Liver enzyme levels (aspartate transaminase)	rs457603
21	27.29303	Response to citalopram treatment	rs2830840
21	27.32416	Cerebrospinal AB1–42 levels	rs239713
21	27.36268	Dialysis–related mortality	rs9977499
21	27.37204	Dialysis–related mortality	rs1452093
21	27.45794	Post bronchodilator FEV1/FVC ratio	rs147130662
21	27.46976	Post bronchodilator FEV1/FVC ratio	rs139916902
21	27.48792	Post bronchodilator FEV1/FVC ratio	rs142181472
21	27.51337	Post bronchodilator FEV1	rs142429672
21	27.51337	Post bronchodilator FEV1/FVC ratio	rs142429672
21	27.51781	Daytime sleep phenotypes	rs242364
21	27.51811	Post bronchodilator FEV1	rs141838403
21	27.51811	Post bronchodilator FEV1/FVC ratio	rs141838403
21	27.54562	Post bronchodilator FEV1	rs139202427
21	27.54562	Post bronchodilator FEV1/FVC ratio	rs139202427
21	27.55480	Post bronchodilator FEV1	rs142976294
21	27.55480	Post bronchodilator FEV1/FVC ratio	rs142976294
21	27.57396	Response to cytidine analogues (gemcitabine)	rs1598848



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr21:43792407–44792407 [43792407–44792407]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:44292407

number of SNPs plotted: 3120

min P-value: 9.68E–7 [chr21:44292407]

max P-value: 10E–1 [chr21:44689277]

omitted Genes: AP001062.2, AP001063.1, LINC02575

omitted Genes: AP001065.4, TSPEAR–AS1, TSPEAR–AS2

omitted Genes: AP001066.1, KRTAP10–1, KRTAP10–2

omitted Genes: KRTAP12–4, KRTAP12–3, KRTAP12–2

omitted Genes: KRTAP12–1, KRTAP12–6P, KRTAP10–12

omitted Genes: KRTAP10–13P

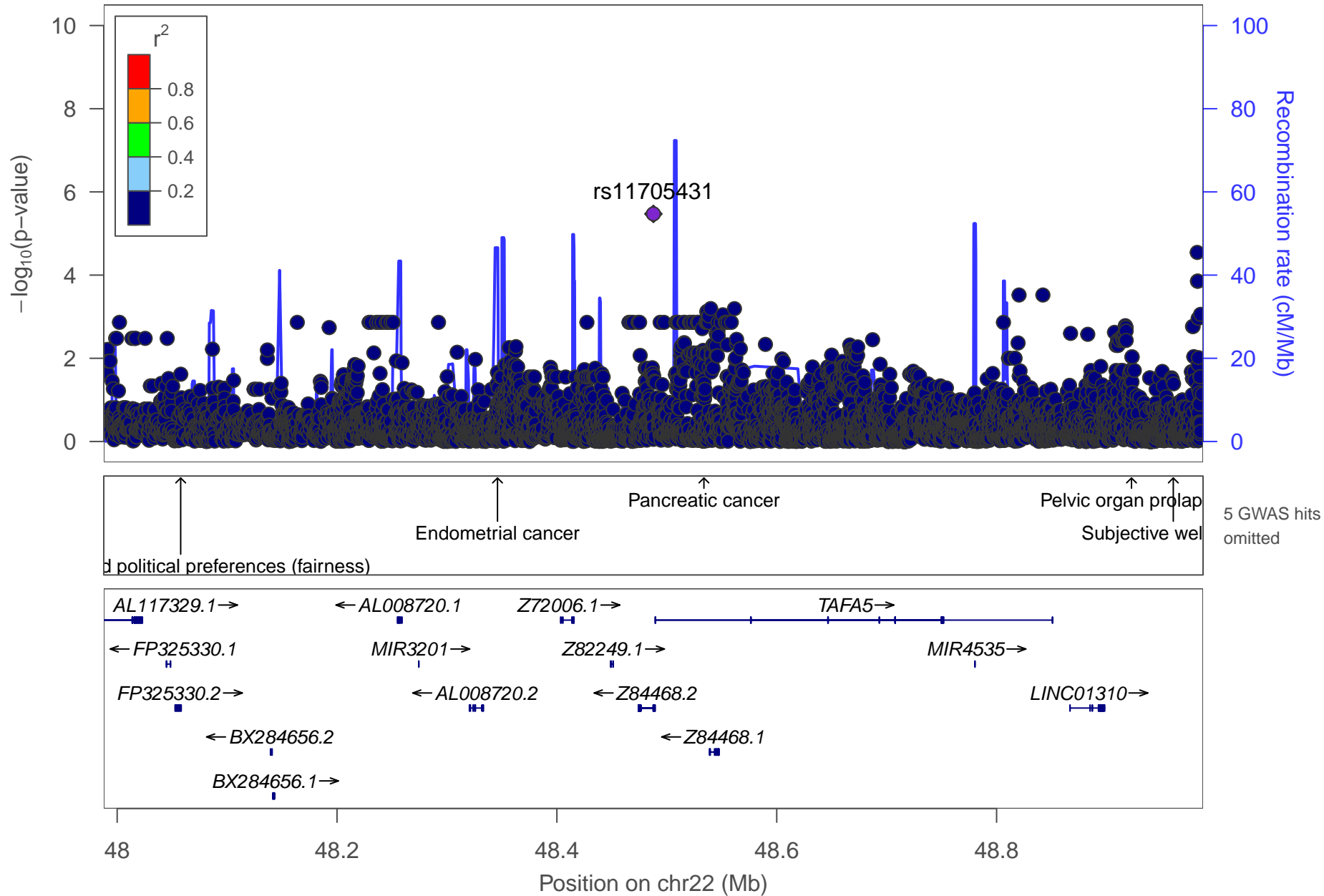
omitted GWAS Hits: chr21:44.709771–Corticobasal degeneration, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
21	43.98446	Phospholipid levels (plasma)	rs7435
21	44.19498	Inflammatory bowel disease	rs8127691
21	44.19514	Ulcerative colitis	rs2838519
21	44.19514	Crohn's disease	rs2838519
21	44.19568	Crohn's disease	rs762421
21	44.19586	Ulcerative colitis	rs7282490
21	44.19586	Crohn's disease	rs7282490
21	44.19586	Inflammatory bowel disease	rs7282490
21	44.22480	Left ventricular QRS voltage	rs8131653
21	44.22754	Celiac disease	rs4819388
21	44.28927	Rheumatoid arthritis	rs2075876
21	44.70977	Corticobasal degeneration	rs875125



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr22:47987809–48987809 [47987809–48987809]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:48487809

number of SNPs plotted: 5946

min P-value: 3.38E–6 [chr22:48487809]

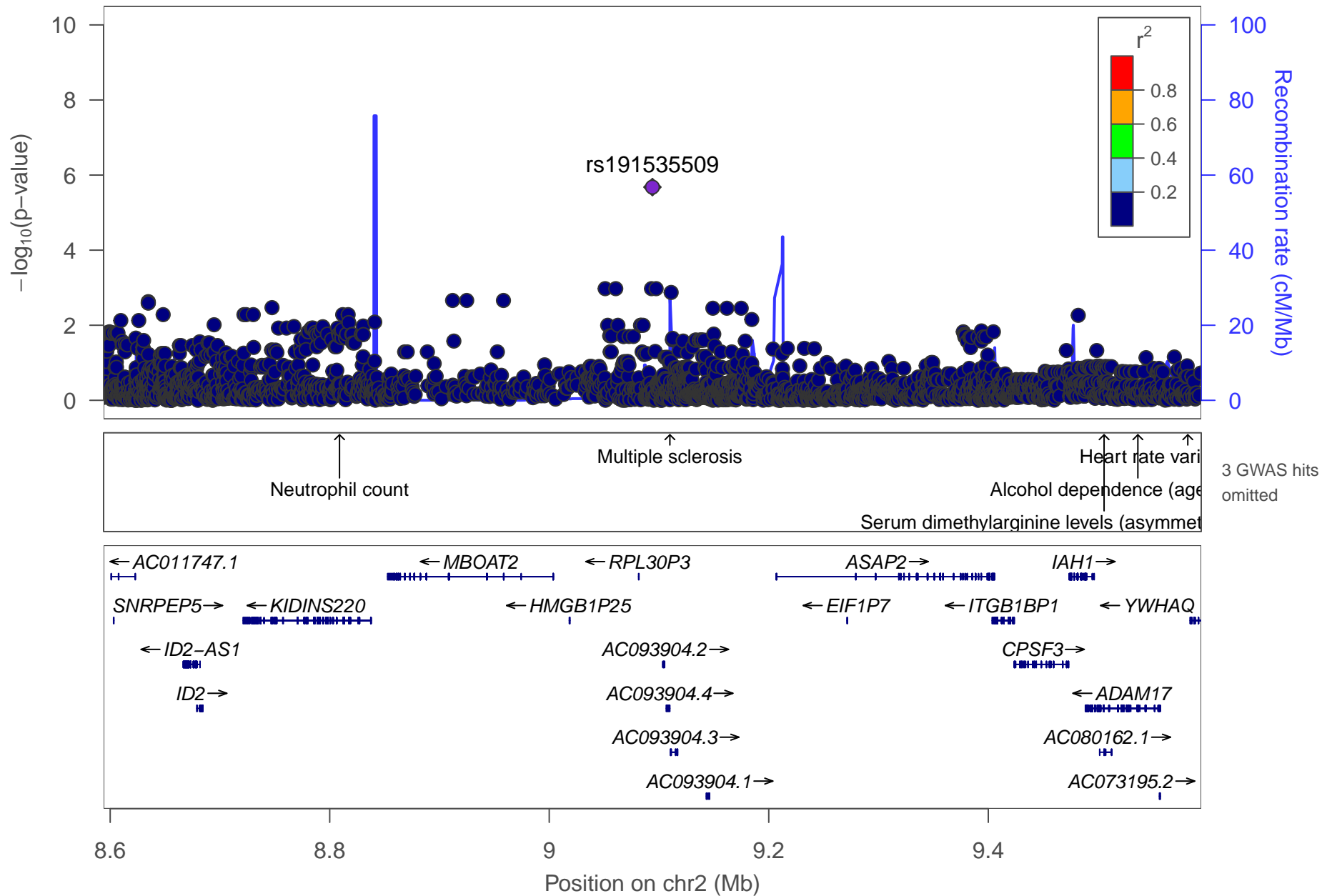
max P-value: 10E–1 [chr22:48705385]

omitted GWAS Hits: chr22:48.922714–Pelvic organ prolapse, chr22:48.960751–Subjective well-being

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
22	48.05777	Economic and political preferences (fairness)	rs117294
22	48.09884	Alzheimer disease and age of onset	rs150927461
22	48.23437	Obesity-related traits	rs13054085
22	48.25619	DNA methylation (variation)	rs1004689
22	48.34599	Endometrial cancer	rs4407
22	48.49244	Late-onset Alzheimer's disease	rs1034435
22	48.52765	Bipolar disorder (body mass index interaction)	rs80088139
22	48.53376	Pancreatic cancer	rs5768709
22	48.92271	Pelvic organ prolapse	rs7290192
22	48.96075	Subjective well-being	rs113959751



date: Thu Oct 20 22:13:33 2022

build: hg38

display range: chr2:8594003–9594003 [8594003–9594003]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:9094003

number of SNPs plotted: 2572

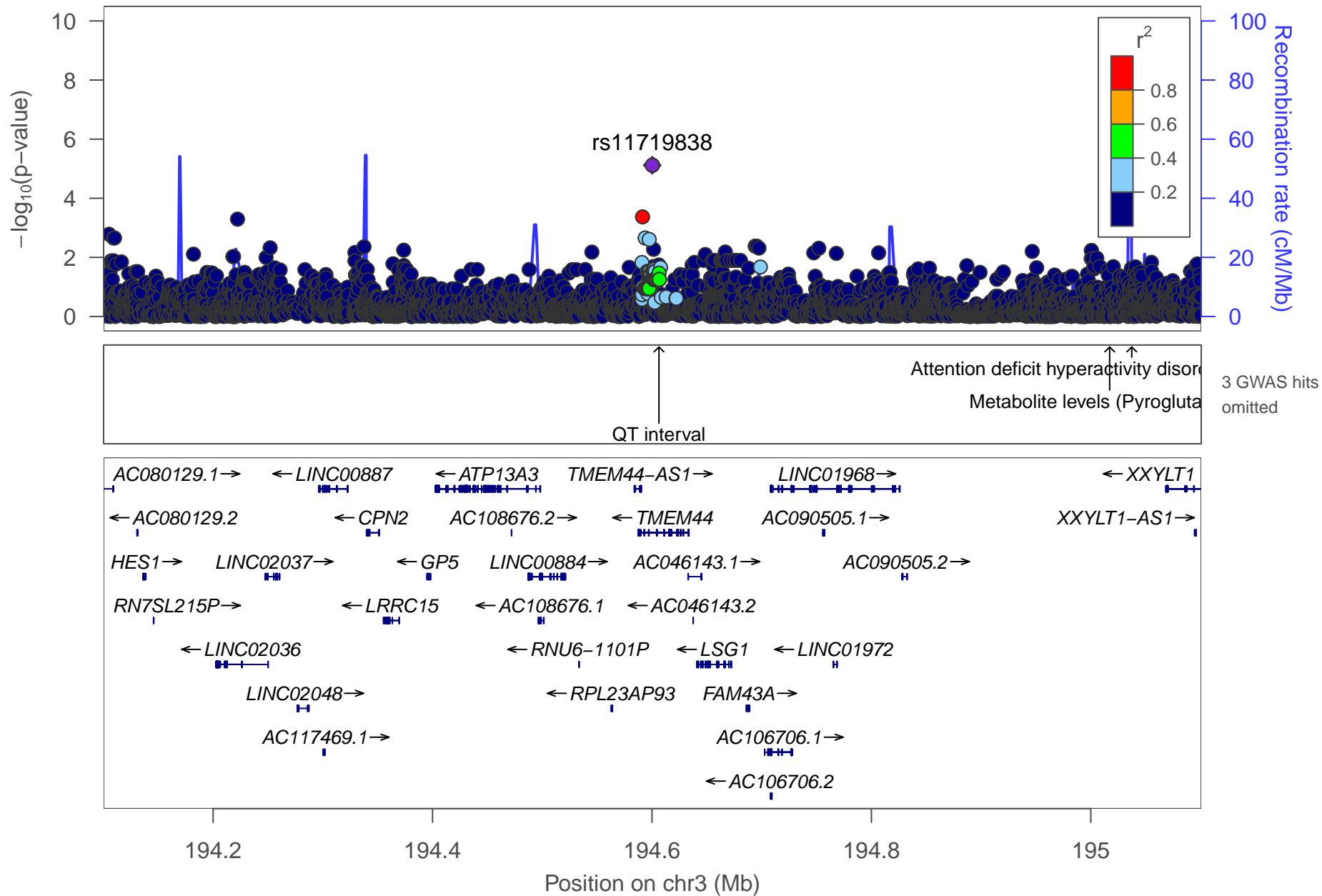
min P-value: 2.09E–6 [chr2:9094003]

max P-value: 9.99E–1 [chr2:8622782]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
2	8.598773	Schizophrenia	rs4669297
2	8.808940	Neutrophil count	rs7587928
2	9.109909	Multiple sclerosis	rs1109670
2	9.119469	IgG glycosylation	rs9636252
2	9.151105	Diisocyanate-induced asthma	rs73912949
2	9.505503	Serum dimethylarginine levels (asymmetric/symmetric ratio)	rs55794209
2	9.536284	Alcohol dependence (age at onset)	rs17362650
2	9.581767	Heart rate variability traits	rs6432018



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr3:194100199–195100608 [194100199–195100608]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:194600199

number of SNPs plotted: 4921

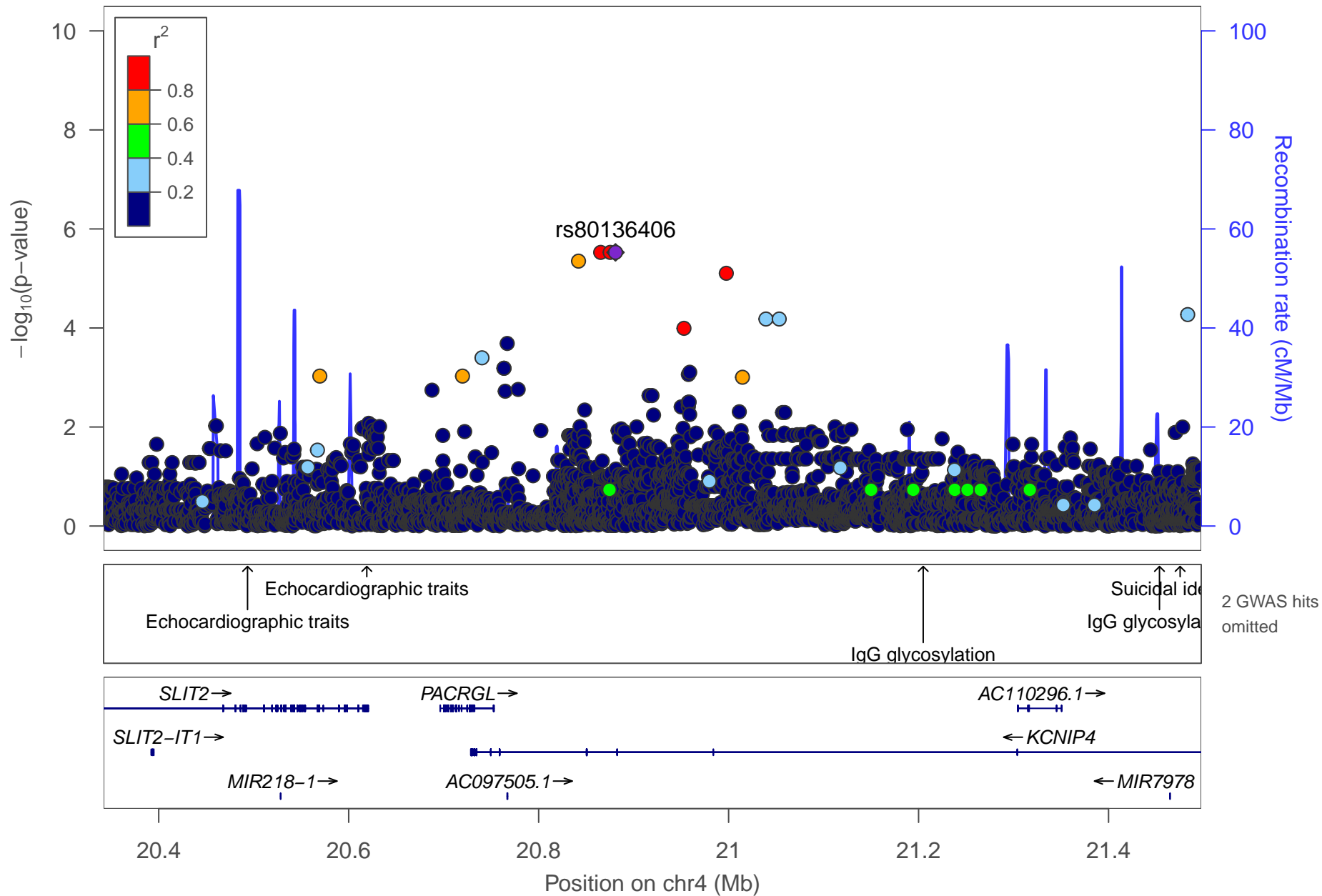
min P-value: 7.63E–6 [chr3:194600199]

max P-value: 10E–1 [chr3:194346011]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
3	194.3098	Mortality in sepsis	rs10933728
3	194.5172	3-hydroxypropylmercapturic acid levels in smokers	rs147484948
3	194.6064	QT interval	rs789852
3	194.6852	antipsychotic drug dosage in schizophrenia or schizoaffective disorder	rs789859
3	195.0171	Metabolite levels (Pyroglutamine)	rs2676917
3	195.0373	Attention deficit hyperactivity disorder (time to onset)	rs3892715



date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr4:20341970–21497591 [20341970–21497591]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:20880902

number of SNPs plotted: 4407

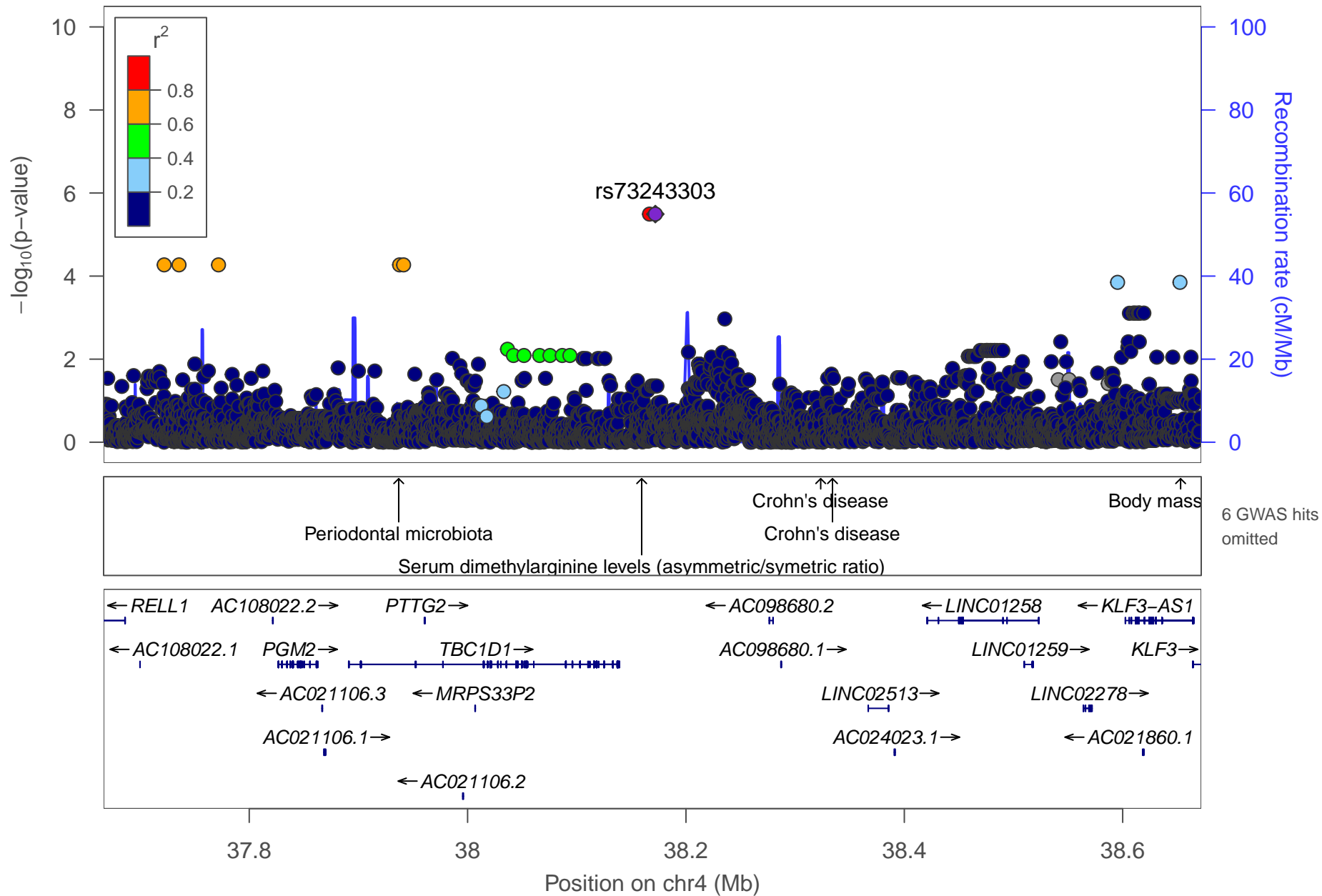
min P-value: 2.98E–6 [chr4:20865311]

max P-value: 10E–1 [chr4:21449638]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
4	20.49351	Echocardiographic traits	rs666088
4	20.61906	Echocardiographic traits	rs1379659
4	21.20487	IgG glycosylation	rs1023721
4	21.29181	Parkinson disease and lewy body pathology	rs141863958
4	21.39199	Cough in response to angiotensin–converting enzyme inhibitor drugs	rs1495509
4	21.45363	IgG glycosylation	rs11942476
4	21.47537	Suicidal ideation	rs358592



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr4:37666618–38671945 [37666618–38671945]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:38171945

number of SNPs plotted: 4373

min P-value: 3.21E–6 [chr4:38166618]

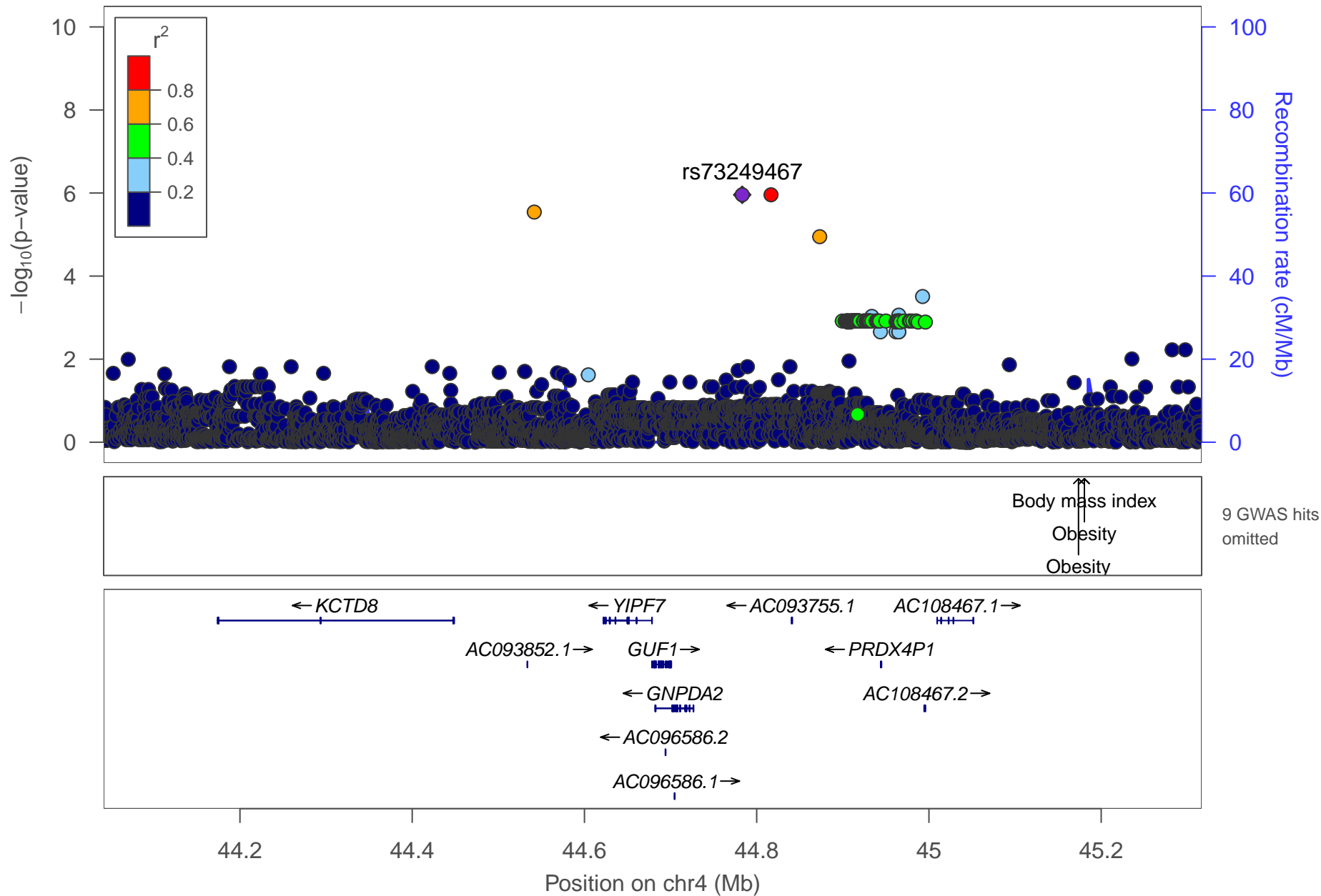
max P-value: 9.98E–1 [chr4:37864389]

omitted GWAS Hits: chr4:38.65306–Body mass index, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
4	37.73637	Staphylococcus aureus nasal carriage (intermittent)	rs16993852
4	37.93690	Periodontal microbiota	rs10010758
4	38.01141	Verbal declarative memory	rs13132184
4	38.15944	Serum dimethylarginine levels (asymmetric/symmetric ratio)	rs115426111
4	38.15944	Symmetrical dimethylarginine levels	rs115426111
4	38.32341	Crohn's disease	rs6856616
4	38.32341	Inflammatory bowel disease	rs6856616
4	38.33420	Crohn's disease	rs1487630
4	38.46385	Obesity-related traits	rs4615179
4	38.50312	Post bronchodilator FEV1/FVC ratio in COPD	rs142846286
4	38.65306	Body mass index	rs4833079



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr4:44041725–45316634 [44041725–45316634]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:44783196

number of SNPs plotted: 4920

min P-value: 1.1E-6 [chr4:44783196]

max P-value: 10E-1 [chr4:44931134]

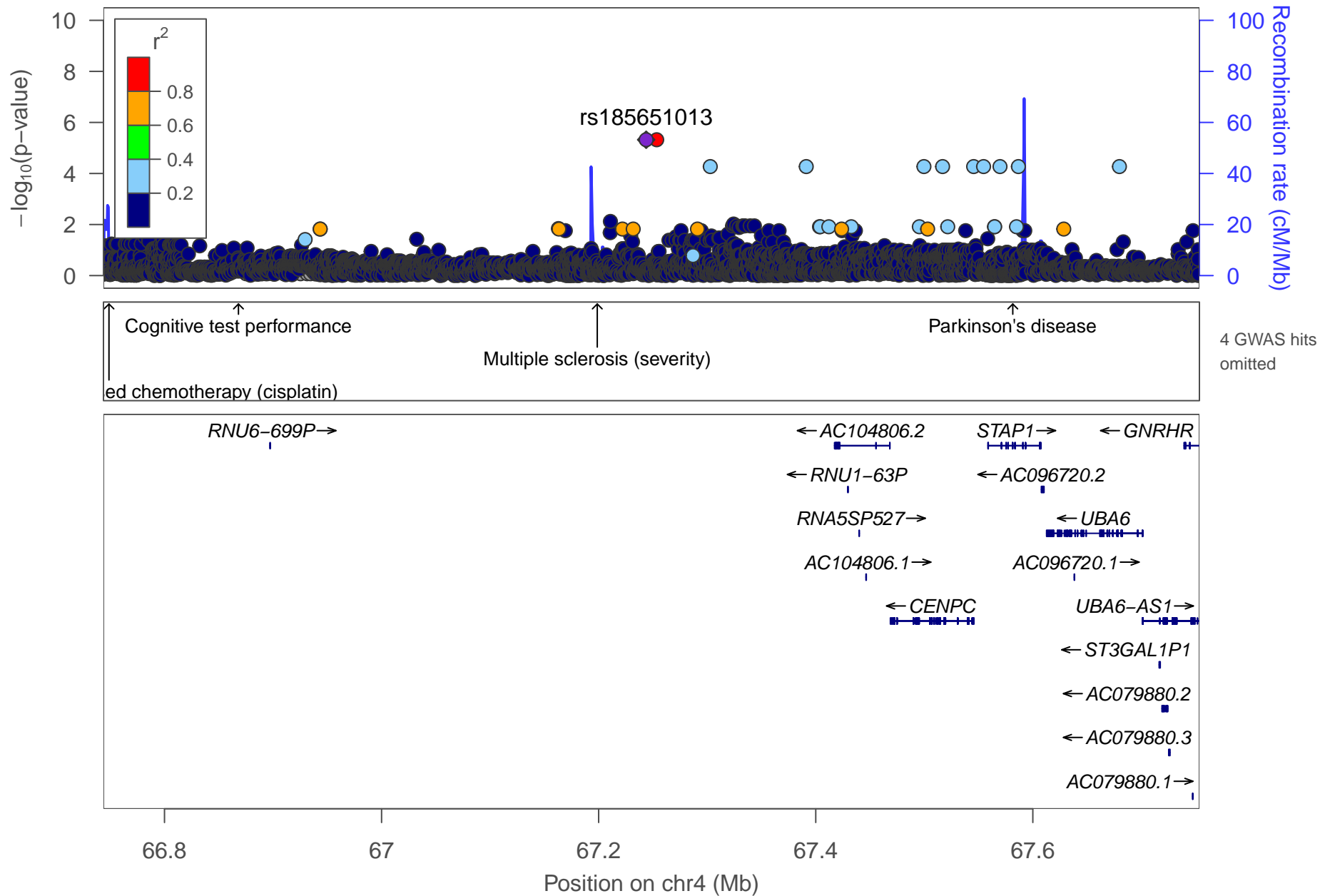
omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
4	44.21015	Response to amphetamines	rs17641529
4	44.58047	Body mass index	rs10938353
4	45.07699	Systolic blood pressure	rs996004
4	45.17367	Obesity	rs13130484
4	45.17367	Body mass index	rs13130484
4	45.17367	Childhood body mass index	rs13130484
4	45.17379	Body mass index	rs16858082
4	45.18051	Body mass index	rs10938397
4	45.18051	Obesity	rs10938397
4	45.18051	Menarche (age at onset)	rs10938397
4	45.18051	Childhood body mass index	rs10938397
4	45.18243	Body mass index	rs348495



date: Thu Oct 20 22:13:32 2022

build: hg38

display range: chr4:66743770–67753470 [66743770–67753470]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:67243770

number of SNPs plotted: 3487

min P-value: 4.77E–6 [chr4:67243770]

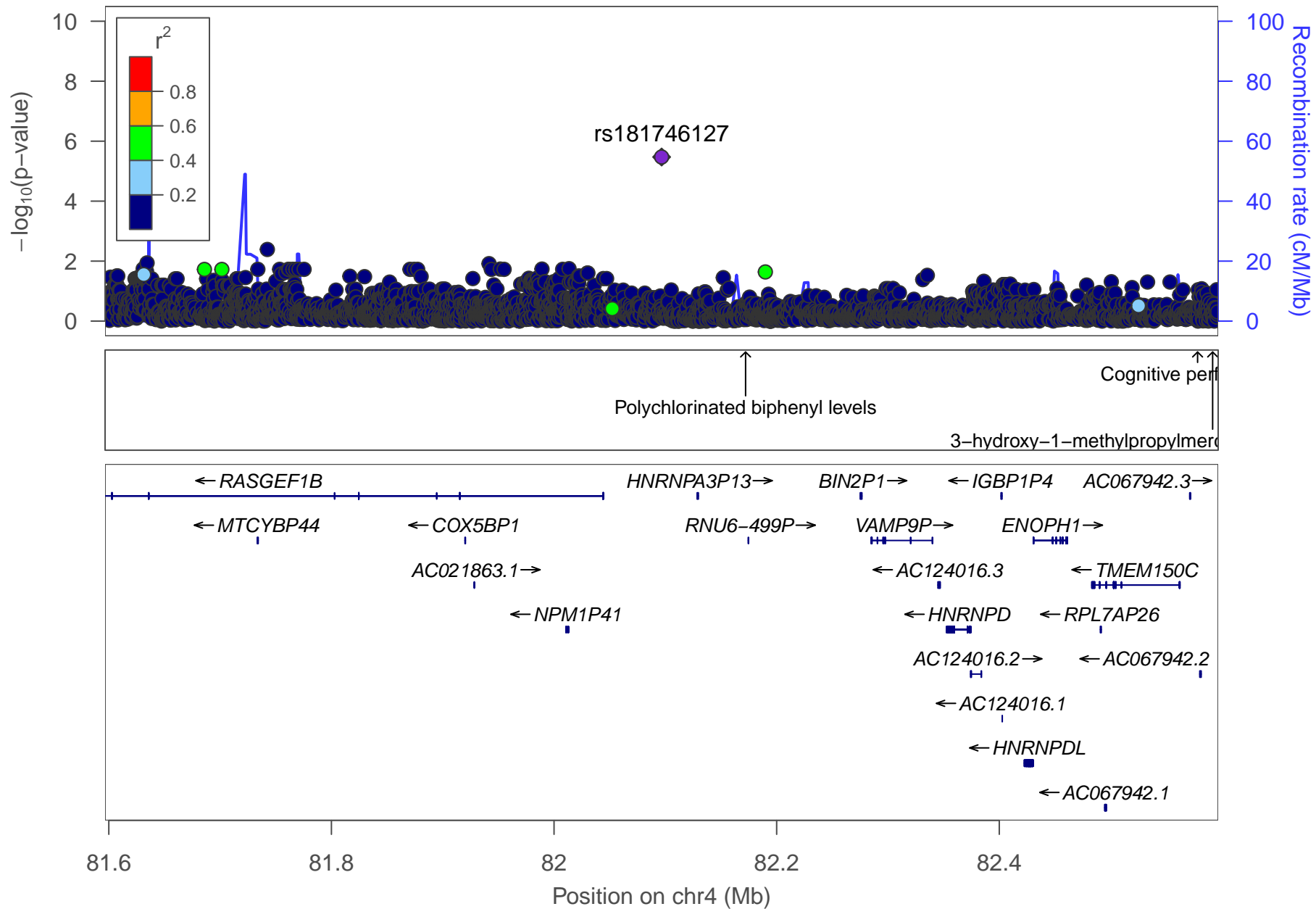
max P-value: 9.99E–1 [chr4:67170358]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
4	66.74885	Response to platinum–based chemotherapy (cisplatin)	rs4860223
4	66.86814	Cognitive test performance	rs1155865
4	66.86818	Urate levels (BMI interaction)	rs1155866
4	66.95616	Educational attainment (years of education)	rs4308415
4	67.19089	Glucose homeostasis traits	rs7690543
4	67.19863	Positive affect	rs17766081
4	67.19872	Multiple sclerosis (severity)	rs10518025
4	67.58153	Parkinson's disease	rs2242330



date: Thu Oct 20 22:13:31 2022

build: hg38

display range: chr4:81596651–82596651 [81596651–82596651]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:82096651

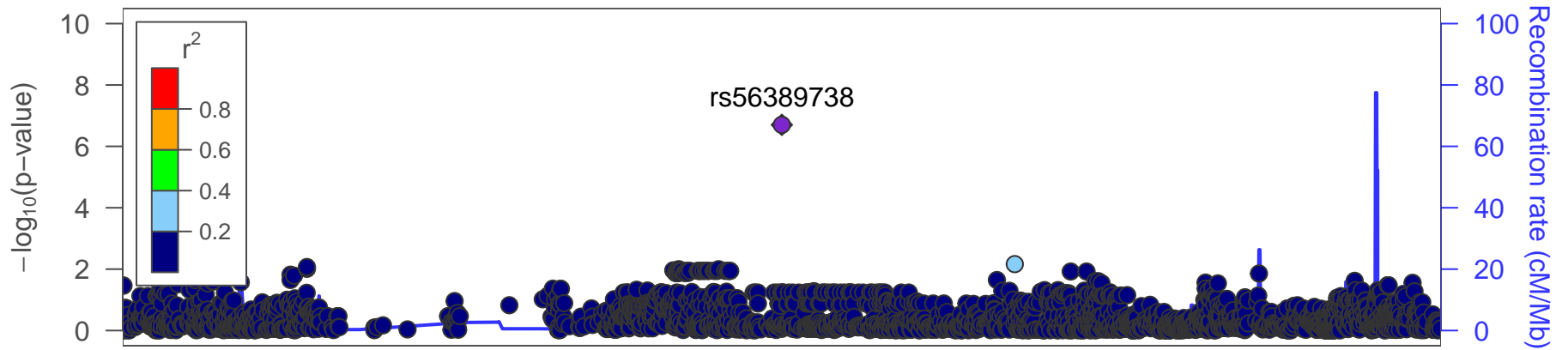
number of SNPs plotted: 3440

min P-value: 3.38E–6 [chr4:82096651]

max P-value: 10E–1 [chr4:82107786]

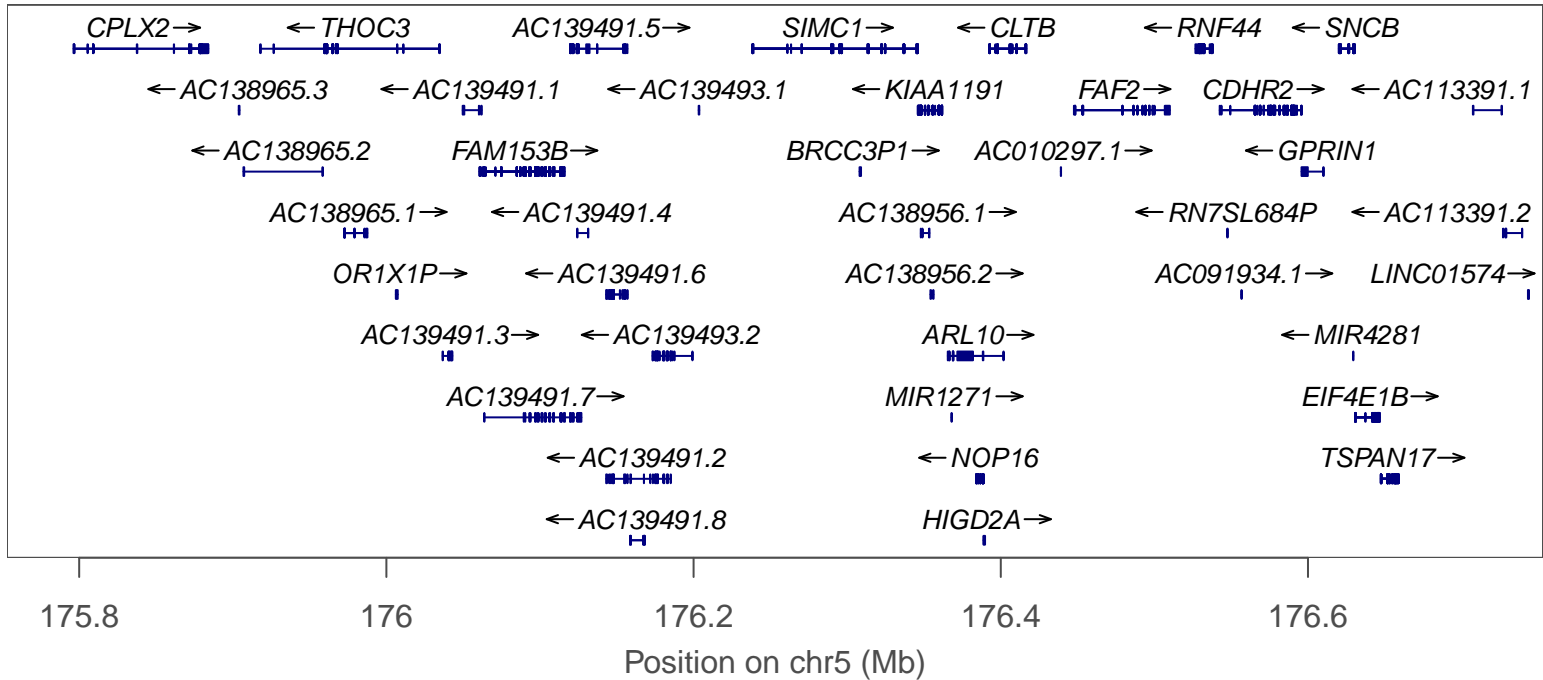
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
4	82.17208	Polychlorinated biphenyl levels	rs182442984
4	82.57816	Cognitive performance	rs7658637
4	82.59169	3-hydroxy-1-methylpropylmercapturic acid levels in smokers	rs72909131



↑ related nuclear cataracts
 ↑ activity disorder (inattention symptoms)

↑ Obesity-related traits
 ↑ Menopause (age at onset)



date: Thu Oct 20 22:13:33 2022

build: hg38

display range: chr5:175753006–176753006 [175753006–176753006]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:176253006

number of SNPs plotted: 2346

min P-value: 1.99E-7 [chr5:176253006]

max P-value: 9.99E-1 [chr5:176519943]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
5	175.8170	Attention deficit hyperactivity disorder (inattention symptoms)	rs7448069
5	175.8174	Age-related nuclear cataracts	rs55914911
5	176.4230	Obesity-related traits	rs2913737
5	176.5293	Menopause (age at onset)	rs890835

date: Thu Oct 20 22:13:31 2022

build: hg38

display range: chr6:112863777–113865898 [112863777–113865898]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:113363777

number of SNPs plotted: 3079

min P-value: 8.06E–6 [chr6:113363777]

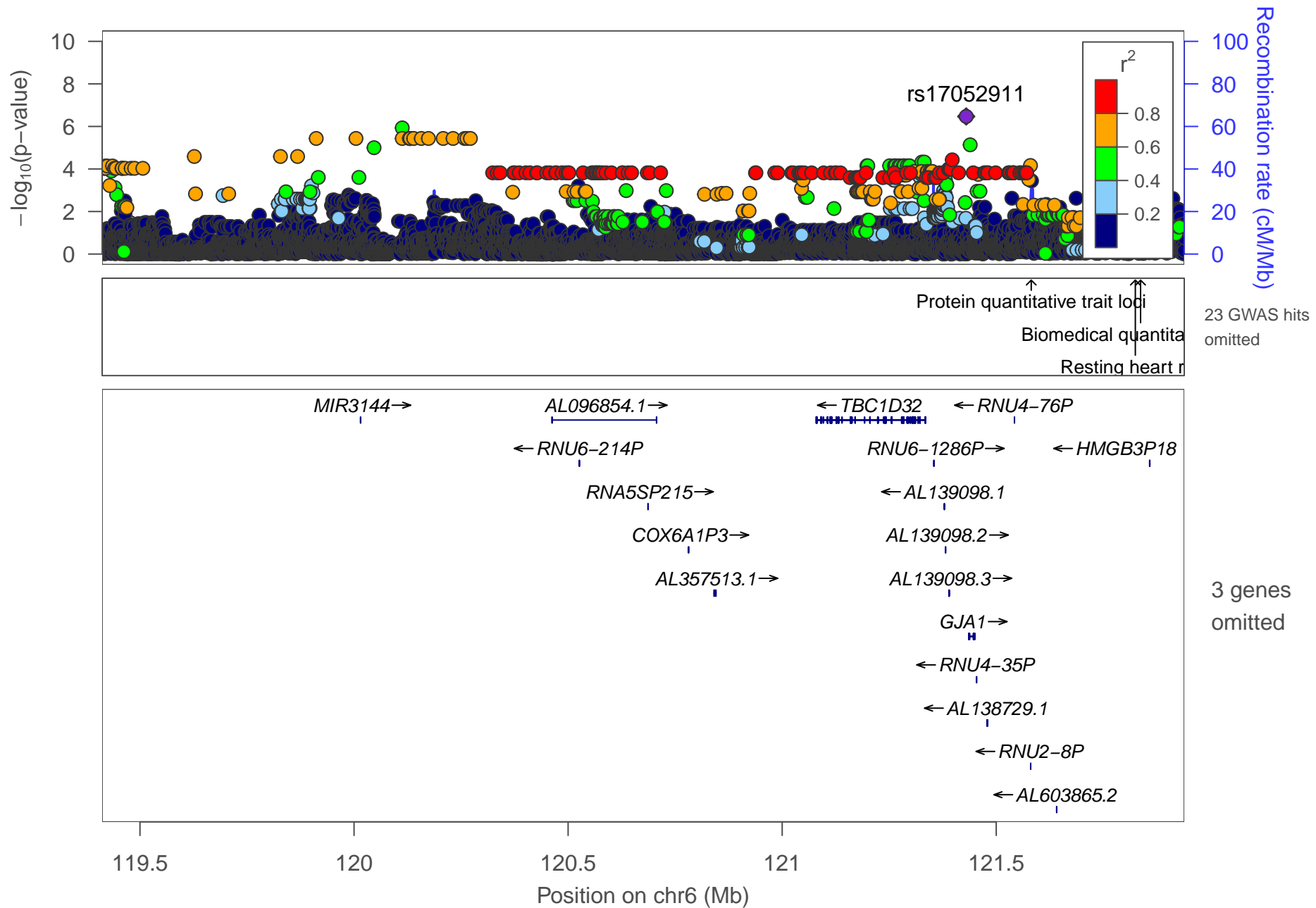
max P-value: 10E–1 [chr6:113388411]

omitted GWAS Hits: chr6:113.586847–Type 2 diabetes, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	113.1382	Plasma clusterin levels	rs2502399
6	113.1581	Asthma (childhood onset)	rs2473967
6	113.3200	Plasma omega-6 polyunsaturated fatty acid levels (arachidonic acid)	rs9942436
6	113.3247	Plasma omega-6 polyunsaturated fatty acid levels (arachidonic acid)	rs2637523
6	113.3441	Coronary artery calcification	rs7765175
6	113.3990	Alzheimer disease and age of onset	rs11961710
6	113.5868	Type 2 diabetes	rs149358103
6	113.6959	Disc degeneration (lumbar)	rs9488238
6	113.7505	Event free survival in diffuse large B-cell lymphoma treated with immunochemotherapy	rs7765004



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr6:119411624–121939143 [119411624–121939143]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:121429849

number of SNPs plotted: 9023

min P-value: 3.39E-7 [chr6:121429849]

max P-value: 10E-1 [chr6:121311588]

omitted Genes: SLC25A5P7, RPL23AP48, AL603865.1

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

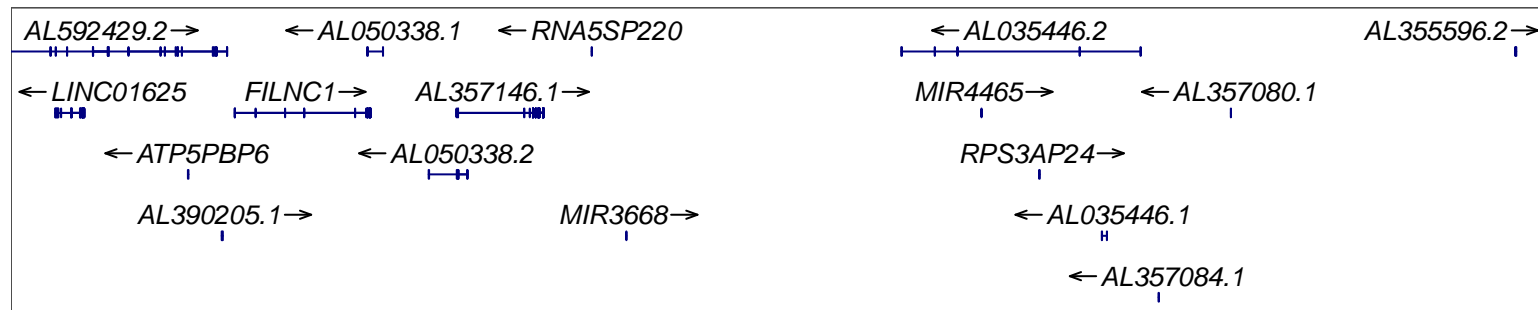
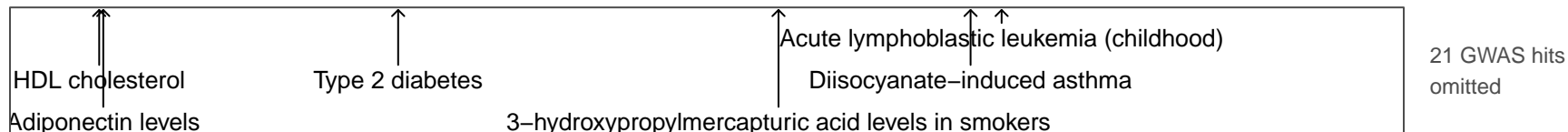
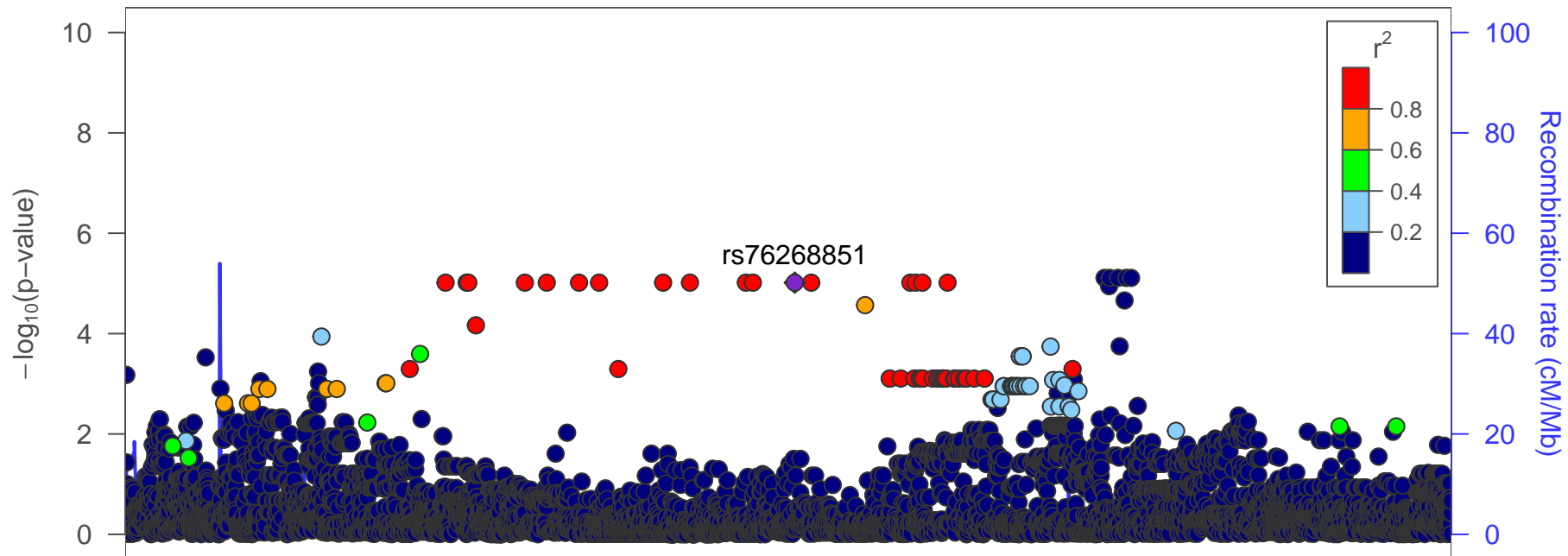
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	119.5450	Immune reponse to smallpox (secreted IL-2)	rs1392089
6	119.6222	Spontaneous preterm birth (preterm birth)	rs2794256
6	119.8645	Body mass index	rs9374842
6	119.9464	Neuroticism	rs6569095
6	119.9536	Systemic lupus erythematosus	rs4574684
6	120.1544	Post bronchodilator FEV1/FVC ratio	rs56804048
6	120.1760	Post bronchodilator FEV1/FVC ratio	rs56392554
6	120.4428	Post bronchodilator FEV1 in COPD	rs73527062
6	120.7773	Primary tooth development (number of teeth)	rs2817937
6	120.7790	HIV-1 viral setpoint	rs2789066
6	120.8687	Peak creatinine levels in vancomycin therapy	rs2789047
6	121.0180	Cognitive performance	rs1343075
6	121.4096	Heart rate	rs17083533
6	121.4274	Resting heart rate	rs11154022
6	121.4374	Resting heart rate	rs3792943
6	121.4602	Heart rate	rs11154027
6	121.4957	Migraine	rs9490306
6	121.4957	Migraine without aura	rs9490306
6	121.5249	Migraine	rs28455731
6	121.5817	Protein quantitative trait loci	rs4541776
6	121.6145	Systolic blood pressure response to hydrochlorothiazide in hypertension	rs11750990

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	121.7933	Resting heart rate	rs9320841
6	121.8103	Heart rate	rs1015451
6	121.8249	Resting heart rate	rs9398652
6	121.8371	Biomedical quantitative traits	rs12110693
6	121.8470	Resting heart rate	rs1320761



139.5

140

140.5

141

Position on chr6 (Mb)

date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr6:139376036–141445884 [139376036–141445884]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:140421061

number of SNPs plotted: 5695

min P-value: 7.76E–6 [chr6:140904514]

max P-value: 10E–1 [chr6:140223977]

omitted GWAS Hits: chr6:140.802574–Diisocyanate–induced asthma, chr6:140.517337–3–hydroxypropylmercaptur

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

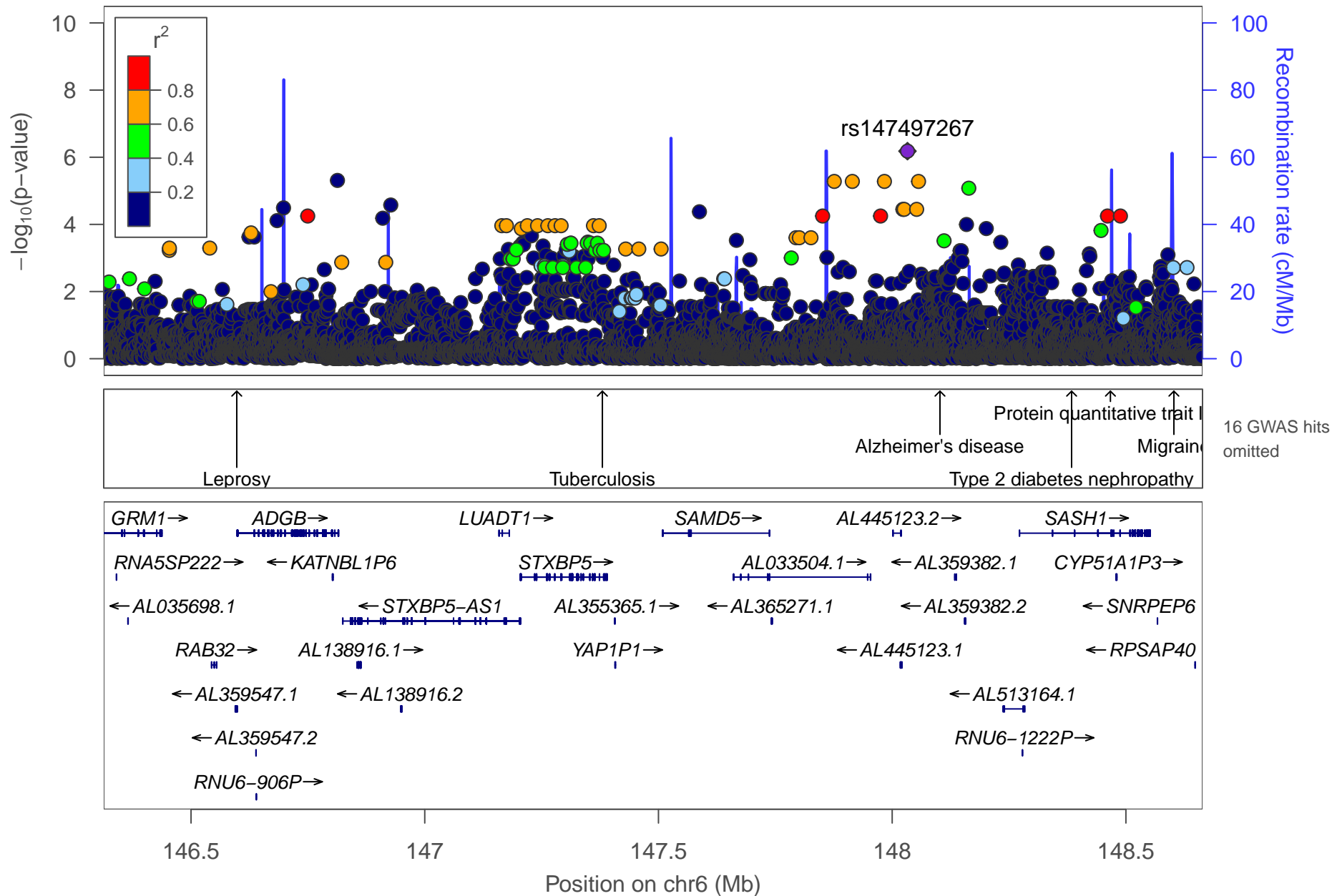
omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	139.4567	Post bronchodilator FEV1/FVC ratio	rs184091137
6	139.5085	HDL cholesterol	rs605066
6	139.5100	Blood trace element (Se levels)	rs679582
6	139.5129	Mean corpuscular hemoglobin	rs632057
6	139.5129	Mean corpuscular volume	rs632057
6	139.5144	Triglycerides	rs17585887
6	139.5146	Adiponectin levels	rs668459
6	139.5146	Mean corpuscular volume	rs668459
6	139.5146	Mean corpuscular hemoglobin	rs668459
6	139.5173	Mean corpuscular hemoglobin	rs628751
6	139.5183	Mean corpuscular volume	rs643381
6	139.5184	Triglycerides	rs608736
6	139.5196	Adiponectin levels	rs592423
6	139.5233	Red blood cell traits	rs590856
6	139.5777	Urate levels in lean individuals	rs9495528
6	139.8187	IgG glycosylation	rs12664111
6	139.8323	Response to simvastatin treatment (PCSK9 protein level change)	rs6903961
6	139.8749	Alzheimer disease and age of onset	rs17069431
6	139.9525	Type 2 diabetes	rs642858
6	140.1277	3-hydroxypropylmercapturic acid levels in smokers	rs75402058
6	140.1958	3-hydroxypropylmercapturic acid levels in smokers	rs76846186

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	140.5173	3-hydroxypropylmercapturic acid levels in smokers	rs146383502
6	140.7007	Night sleep phenotypes	rs6900992
6	140.7014	Night sleep phenotypes	rs7740706
6	140.7368	Systolic blood pressure response to hydrochlorothiazide in hypertension	rs2876449
6	140.8026	Diisocyanate-induced asthma	rs61613191
6	140.8487	Acute lymphoblastic leukemia (childhood)	rs11155133



date: Thu Oct 20 22:13:36 2022

build: hg38

display range: chr6:146313216–148663893 [146313216–148663893]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:148032677

number of SNPs plotted: 8154

min P-value: 6.58E-7 [chr6:148032677]

max P-value: 9.99E-1 [chr6:147745470]

omitted GWAS Hits: chr6:148.602653–Migraine, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	146.3600	Cerebral amyloid deposition (PET imaging)	rs362902
6	146.5765	Leprosy	rs13220141
6	146.5978	Leprosy	rs2275606
6	147.2099	Bronchopulmonary dysplasia	rs2786189
6	147.2142	Low vWF levels	rs1221638
6	147.2282	Bronchopulmonary dysplasia	rs556493
6	147.3592	vWF levels	rs9390459
6	147.3800	Tuberculosis	rs9373523
6	147.3822	Plasma plasminogen activator levels	rs9399599
6	147.4384	IgG glycosylation	rs9403856
6	147.6138	Obesity-related traits	rs9377063
6	147.6504	Myopia (pathological)	rs1302019
6	147.6719	Asthma	rs9390491
6	148.0693	Night sleep phenotypes	rs112390069
6	148.1022	Alzheimer's disease	rs9390537
6	148.2002	Thyroid hormone levels	rs9497965
6	148.2267	HIV-1 control	rs9497975
6	148.3838	Type 2 diabetes nephropathy	rs6930576
6	148.4660	Rotator cuff tears	rs12527089
6	148.4669	Protein quantitative trait loci	rs6930337
6	148.5206	Smoking quantity	rs1147857

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	148.6027	Migraine	rs13196614

date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr6:17003320–18026280 [17003320–18026280]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:17503320

number of SNPs plotted: 3761

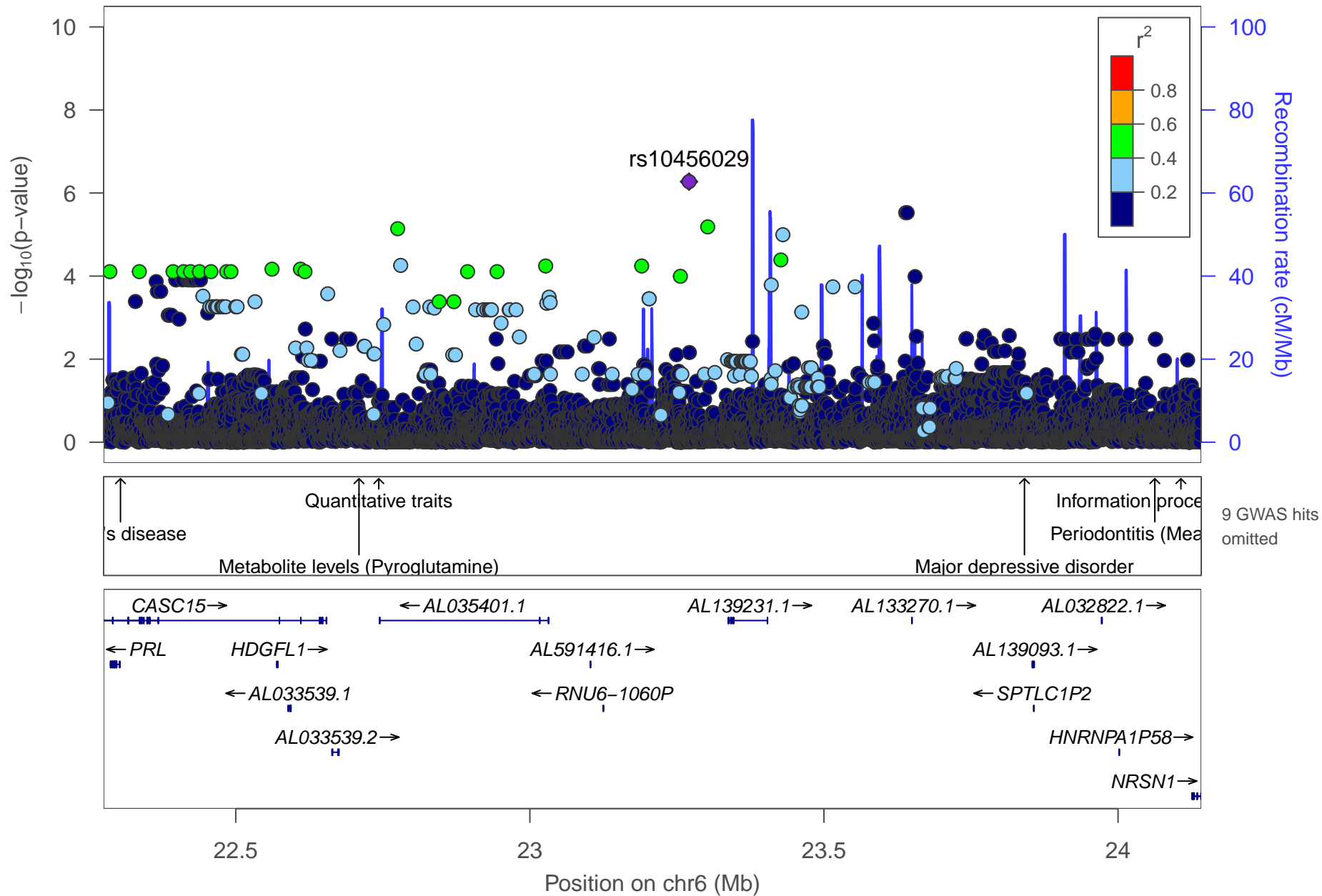
min P-value: 2.16E–6 [chr6:17503320]

max P-value: 9.99E–1 [chr6:17657409]

omitted GWAS Hits: chr6:17.63283–Obesity–related traits, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	17.16089	Response to lithium treatment in bipolar disorder	rs9396756
6	17.24092	Immune response to smallpox vaccine (IL-6)	rs1322846
6	17.28309	Glucose homeostasis traits	rs3749855
6	17.42231	Mitochondrial DNA levels	rs10485376
6	17.50571	Response to serotonin reuptake inhibitors in major depressive disorder	rs910039
6	17.63283	Obesity-related traits	rs2274136
6	17.69909	Height	rs12199222
6	17.74578	Thiopurine S-methyltransferase activity	rs187976596



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr6:22275312–24141446 [22275312–24141446]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:23270633

number of SNPs plotted: 8410

min P-value: 5.31E-7 [chr6:23270633]

max P-value: 9.99E-1 [chr6:23951286]

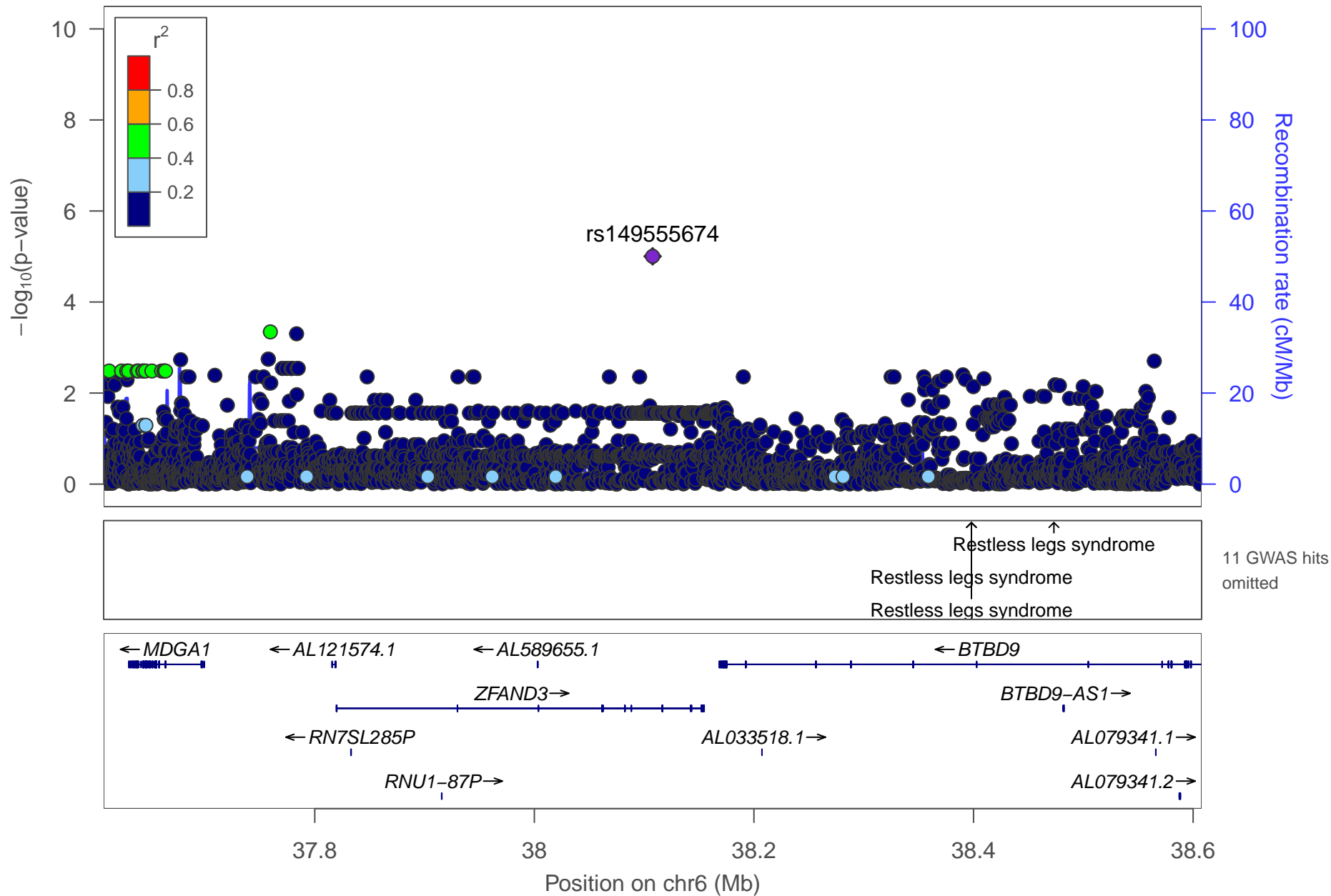
omitted GWAS Hits: chr6:23.840904–Major depressive disorder, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	22.30398	Paget's disease	rs1341239
6	22.70951	Metabolite levels (Pyroglutamine)	rs4712709
6	22.70981	Number of children (6+ vs. 0 or 1)	rs4712710
6	22.71372	Number of children (6+ vs. 0 or 1)	rs7775534
6	22.74317	Quantitative traits	rs10498712
6	22.75282	Obesity-related traits	rs7356884
6	23.07708	Tourette syndrome	rs9393366
6	23.31863	Late-onset Alzheimer's disease	rs193129245
6	23.43745	Immune reponse to smallpox (secreted IL-12p40)	rs7771911
6	23.84090	Major depressive disorder	rs9466930
6	24.00633	Post bronchodilator FEV1 in COPD	rs138325416
6	24.06256	Periodontitis (Mean PAL)	rs146696563
6	24.07783	Response to abacavir-containing treatment in HIV-1 infection (virologic failure)	rs9358749
6	24.07783	Response to efavirenz-containing treatment in HIV 1 infection (virologic failure)	rs9358749
6	24.10686	Information processing speed	rs6922632



date: Thu Oct 20 22:13:34 2022

build: hg38

display range: chr6:37607725–38607725 [37607725–38607725]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:38107725

number of SNPs plotted: 3196

min P-value: $9.91E-6$ [chr6:38107725]

max P-value: $10E-1$ [chr6:38562524]

omitted GWAS Hits: NA, NA

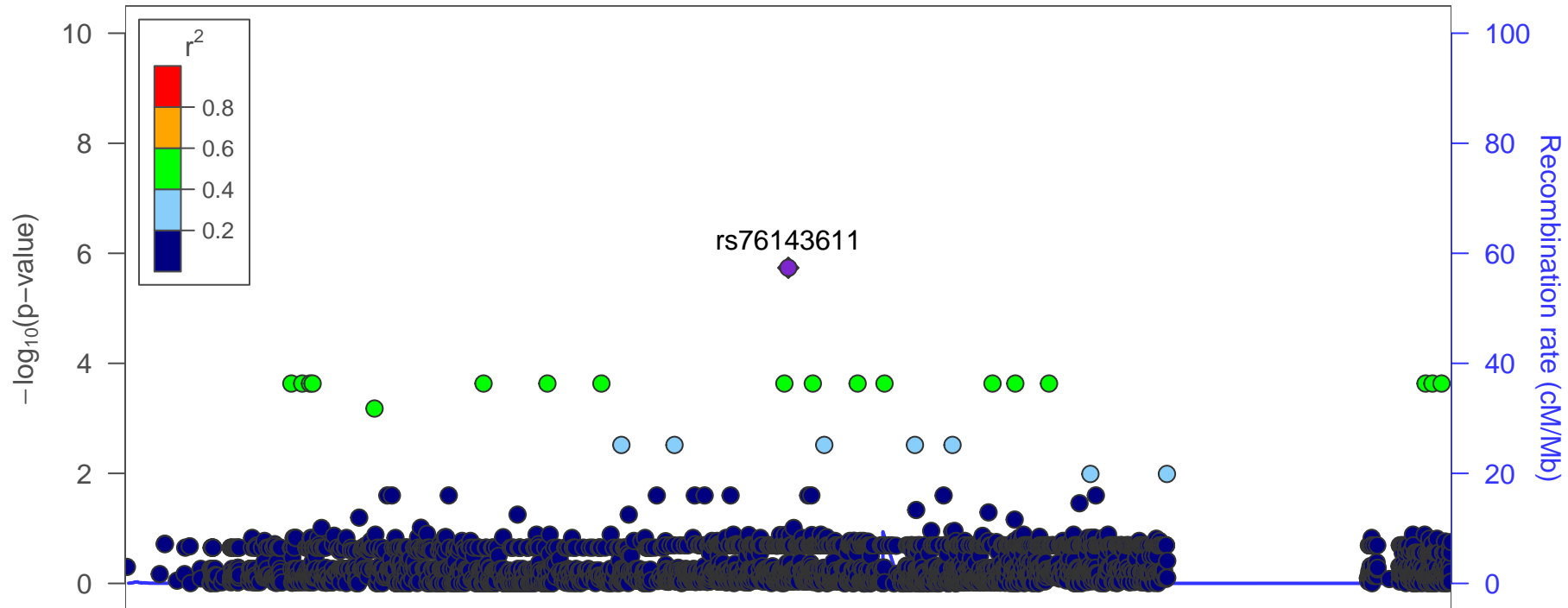
omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	37.67774	Coronary artery aneurysm in Kawasaki disease	rs12210919
6	37.73083	Sitting height ratio	rs6458016
6	38.06864	Insulin resistance/response	rs17589516
6	38.13907	Type 2 diabetes	rs9470794
6	38.15097	Post bronchodilator FEV1/FVC ratio	rs190027738
6	38.28360	Post bronchodilator FEV1/FVC ratio	rs77928651
6	38.28604	Post bronchodilator FEV1/FVC ratio	rs139632137
6	38.37176	Post bronchodilator FEV1/FVC ratio in COPD	rs150713181
6	38.38334	Post bronchodilator FEV1/FVC ratio in COPD	rs114407411
6	38.38753	Post bronchodilator FEV1/FVC ratio in COPD	rs192452148
6	38.39807	Restless legs syndrome	rs9296249
6	38.39810	Restless legs syndrome	rs9357271
6	38.43236	Mammographic density	rs4565302
6	38.47319	Restless legs syndrome	rs3923809



Esophageal adenocarcinoma
 Digestive system disease (Barrett's esophagus and esophageal adenocarcinoma)
 Barrett's esophagus or Esophag



60.6 60.8 61 61.2 61.4
 Position on chr6 (Mb)

date: Thu Oct 20 22:13:33 2022

build: hg38

display range: chr6:60536388–61536388 [60536388–61536388]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:61036388

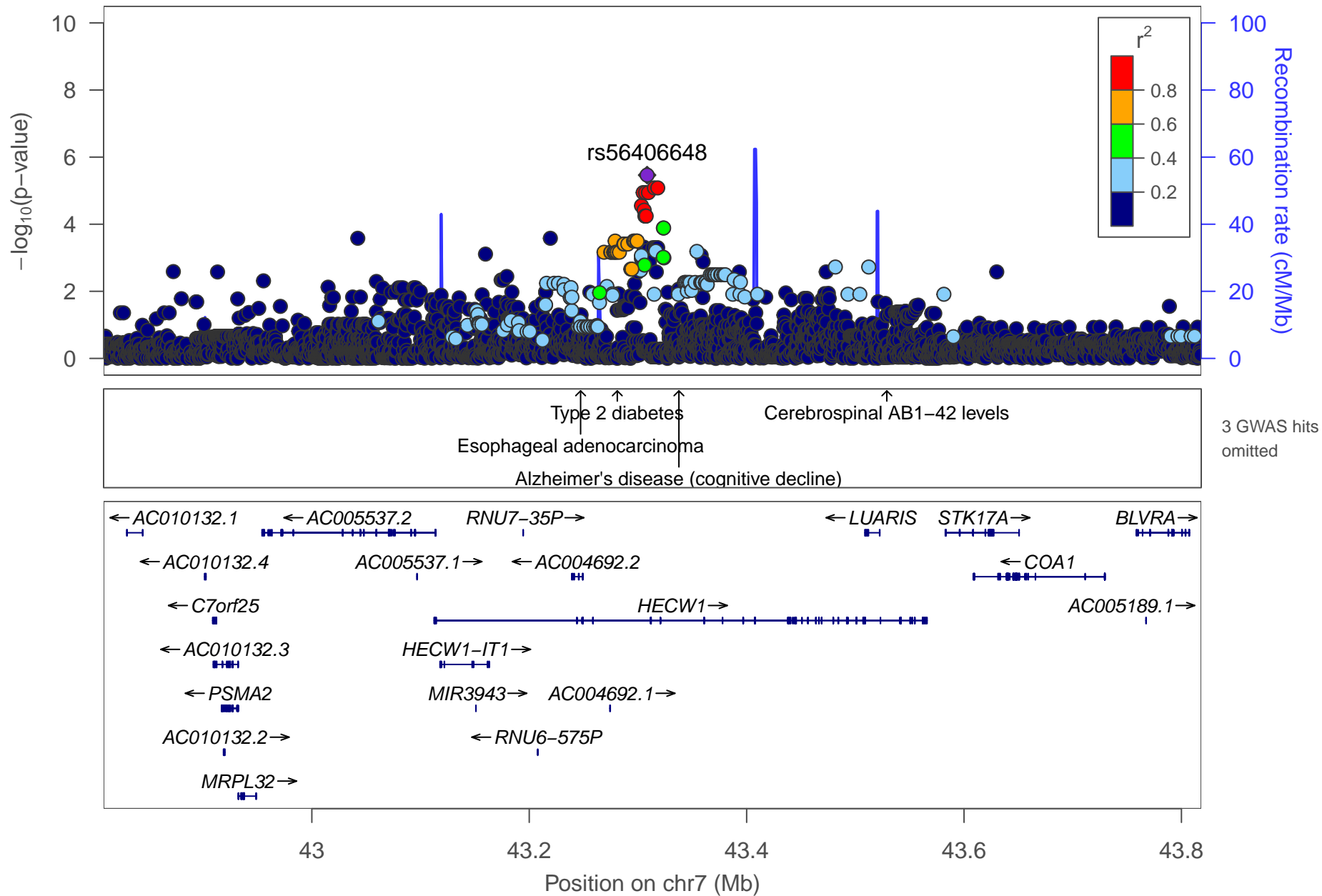
number of SNPs plotted: 3033

min P-value: 1.84E-6 [chr6:61036388]

max P-value: 10E-1 [chr6:61078936]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
6	61.28585	Esophageal adenocarcinoma	rs2342002
6	61.28585	Digestive system disease (Barrett's esophagus and esophageal adenocarcinoma combined)	rs2342002
6	61.48546	Barrett's esophagus or Esophageal adenocarcinoma	rs62423175



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr7:42808424–43818207 [42808424–43818207]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:43308424

number of SNPs plotted: 3546

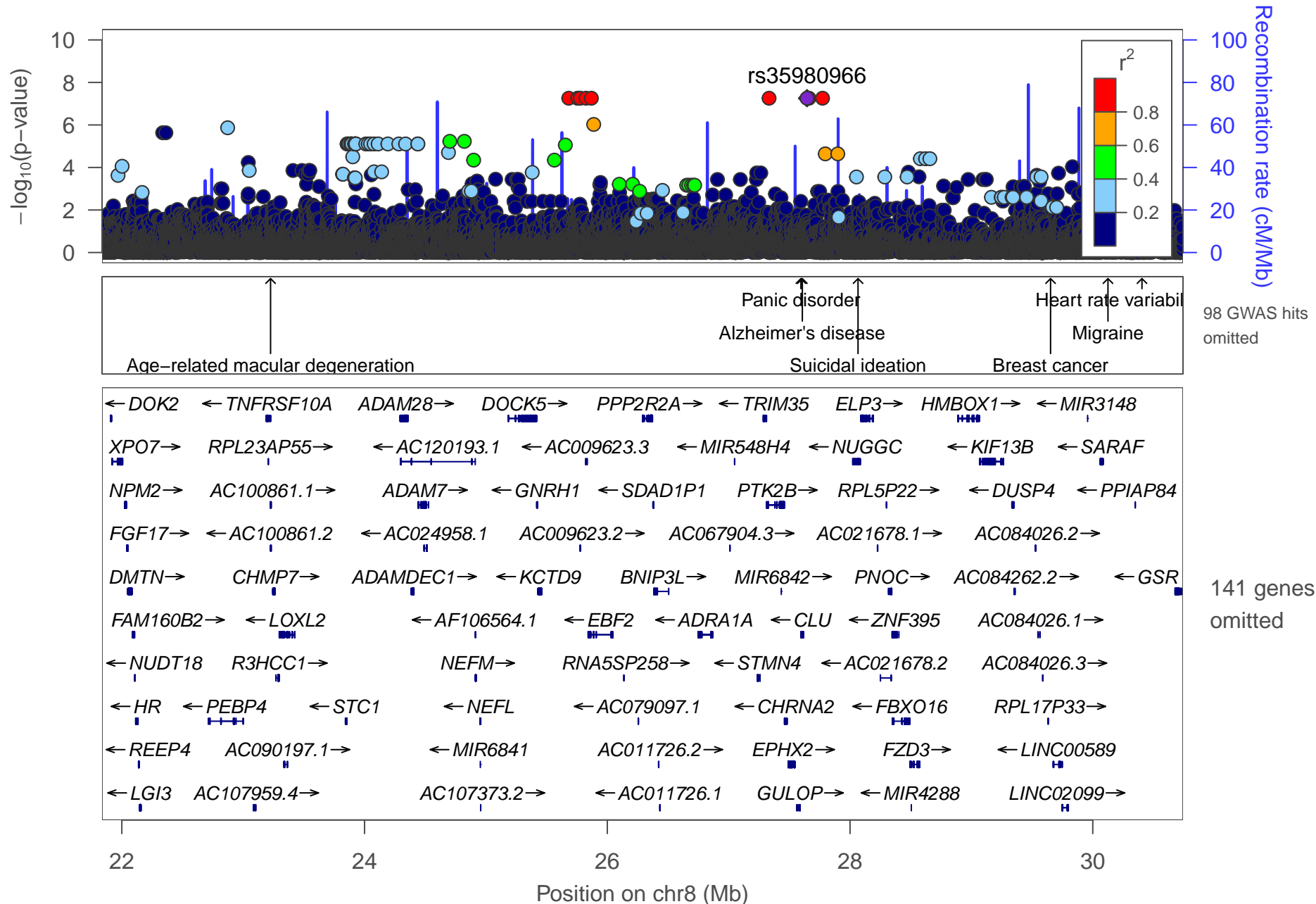
min P-value: 3.43E–6 [chr7:43308424]

max P-value: 9.99E–1 [chr7:43371610]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
7	43.11888	Obesity-related traits	rs2024125
7	43.18704	3-hydroxy-1-methylpropylmercapturic acid levels in smokers	rs73099645
7	43.24724	Esophageal adenocarcinoma	rs17172185
7	43.28099	Type 2 diabetes	rs10231619
7	43.29498	Bone mineral density (Ward's triangle area)	rs34610745
7	43.33768	Alzheimer's disease (cognitive decline)	rs17172199
7	43.52897	Cerebrospinal AB1-42 levels	rs55704525



date: Thu Oct 20 22:13:43 2022

build: hg38

display range: chr8:21836974–30743250 [21836974–30743250]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:27645419

number of SNPs plotted: 29523

min P-value: 5.51E–8 [chr8:25682310]

max P-value: 10E–1 [chr8:25282458]

omitted Genes: SFTPC, BMP1, AC105206.1

omitted Genes: AC105206.3, PHYHIP, MIR320A

omitted Genes: POLR3D, AC105206.2, PIWIL2

omitted Genes: SLC39A14, AC105910.1, RNU6–336P

omitted Genes: PPP3CC, AC087854.1, AC087854.2

omitted Genes: SORBS3, AC037459.4, AC037459.3

omitted Genes: PDLIM2, AC037459.1, C8orf58

omitted Genes: CCAR2, AC037459.2, BIN3

omitted Genes: AC105046.1, EGR3, AC055854.1

omitted Genes: AC105046.2, AC037441.1, AC037441.2

omitted Genes: RN7SL303P, AC107959.1, RHOBTB2

omitted Genes: TNFRSF10B, AC107959.2, AC107959.3

omitted Genes: AC107959.5, TNFRSF10C, TNFRSF10D

omitted Genes: TNFRSF10A–AS1, ENTPD4, AC104561.1

omitted Genes: AC104561.2, AC104561.4, AC104561.3

Make more plots at <http://csg.sph.umich.edu/locuszoom/>

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
8	21.85392	Neuropathic pain in type 2 diabetes	rs17428041
8	21.96330	Mean corpuscular volume	rs7843479
8	22.02703	Obesity-related traits	rs11776272
8	22.12086	Obesity-related traits	rs76547188
8	22.22420	Subjective well-being	rs4075536
8	22.23092	Hypertriglyceridemia	rs12541335
8	22.40682	Verbal declarative memory	rs7828089
8	22.54348	HIV-1 viral setpoint	rs4872511
8	22.54733	HIV-1 viral setpoint	rs2280890
8	22.60534	Exploratory eye movement dysfunction in schizophrenia (cognitive search score)	rs11778693
8	22.60534	Exploratory eye movement dysfunction in schizophrenia (responsive search score)	rs11778693
8	22.64432	Exploratory eye movement dysfunction in schizophrenia (cognitive search score)	rs4242434
8	22.76204	Visceral fat	rs11998649
8	22.78619	Asymmetrical dimethylarginine levels	rs12155789
8	22.90573	Preschool internalizing problems	rs6557600
8	23.08115	Parasitemia in <i>Trypanosoma cruzi</i> seropositivity	rs57302454
8	23.10484	Exploratory eye movement dysfunction in schizophrenia (responsive search score)	rs4077341
8	23.22546	Age-related macular degeneration	rs13278062
8	23.22546	Advanced age-related macular degeneration	rs79037040
8	23.24411	Attention deficit hyperactivity disorder	rs7463256
8	23.64975	Prostate cancer	rs142463603

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
8	23.64987	Post bronchodilator FEV1/FVC ratio in COPD	rs147410223
8	23.64987	Post bronchodilator FEV1/FVC ratio	rs147410223
8	23.66895	Prostate cancer	rs1512268
8	23.67650	Prostate cancer	rs10503733
8	23.72671	Treatment response for severe sepsis	rs13273073
8	23.74581	Waist-to-hip ratio adjusted for body mass index	rs7830933
8	23.77877	Response to mTOR inhibitor (everolimus)	rs218869
8	23.78598	Preschool internalizing problems	rs310272
8	23.85748	Glomerular filtration rate (creatinine)	rs3758086
8	23.89364	Glomerular filtration rate in non diabetics (creatinine)	rs10109414
8	23.89364	Chronic kidney disease	rs10109414
8	23.89364	Glomerular filtration rate	rs10109414
8	23.91949	Urate levels	rs17786744
8	23.96117	Subcutaneous adipose tissue	rs7833268
8	24.18679	Migraine – clinic-based	rs11777116
8	24.25879	Height	rs1013209
8	24.35133	Hair greying	rs7009516
8	24.37684	Post bronchodilator FEV1	rs147851892
8	24.37684	Post bronchodilator FEV1/FVC ratio	rs147851892
8	24.52123	White matter integrity	rs11781622
8	24.53775	Post bronchodilator FEV1/FVC ratio	rs113414285

GWAS Catalog SNPs in Region

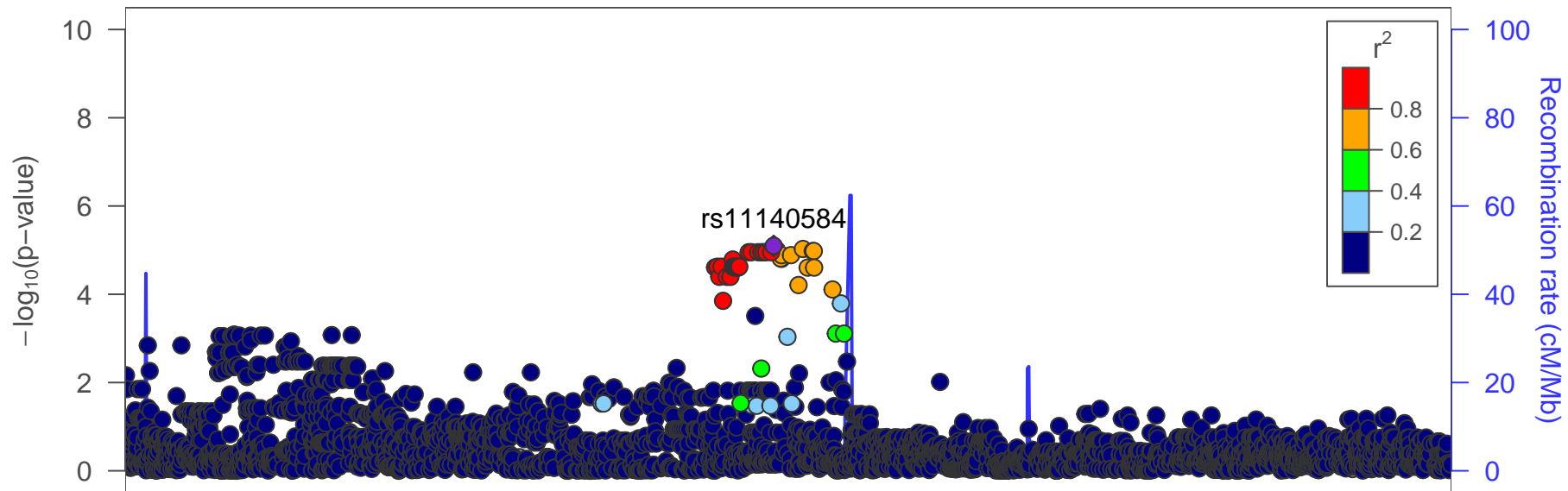
chr	pos (Mb)	trait	snp
8	24.54313	Post bronchodilator FEV1/FVC ratio	rs111754512
8	24.67568	Cingulate cortical amyloid beta load	rs4625043
8	24.87716	Seasonality	rs196889
8	24.94223	Response to anti-retroviral therapy (ddl/d4T) in HIV-1 infection (Grade 2 peripheral neuropathy)	rs6557786
8	25.25409	Post bronchodilator FEV1/FVC ratio	rs187162159
8	25.27121	Post bronchodilator FEV1/FVC ratio	rs182115318
8	25.27219	Post bronchodilator FEV1	rs182387400
8	25.27219	Post bronchodilator FEV1/FVC ratio	rs182387400
8	25.27272	Post bronchodilator FEV1	rs147913210
8	25.27272	Post bronchodilator FEV1/FVC ratio	rs147913210
8	25.27394	Post bronchodilator FEV1/FVC ratio	rs150281976
8	25.27401	Post bronchodilator FEV1/FVC ratio	rs190951784
8	25.33919	Glucose homeostasis traits	rs13267838
8	25.68716	Response to efavirenz-containing treatment in HIV 1 infection (virologic failure)	rs9314308
8	25.84990	Inguinal hernia	rs6991952
8	26.03463	Prostate cancer	rs11135910
8	26.09183	Multiple system atrophy	rs4872401
8	26.34856	Height	rs1594829
8	26.41167	Schizophrenia	rs1042992
8	26.45458	Cognitive decline rate in late mild cognitive impairment	rs77609452
8	26.85736	Blood metabolite levels	rs13278849

GWAS Catalog SNPs in Region

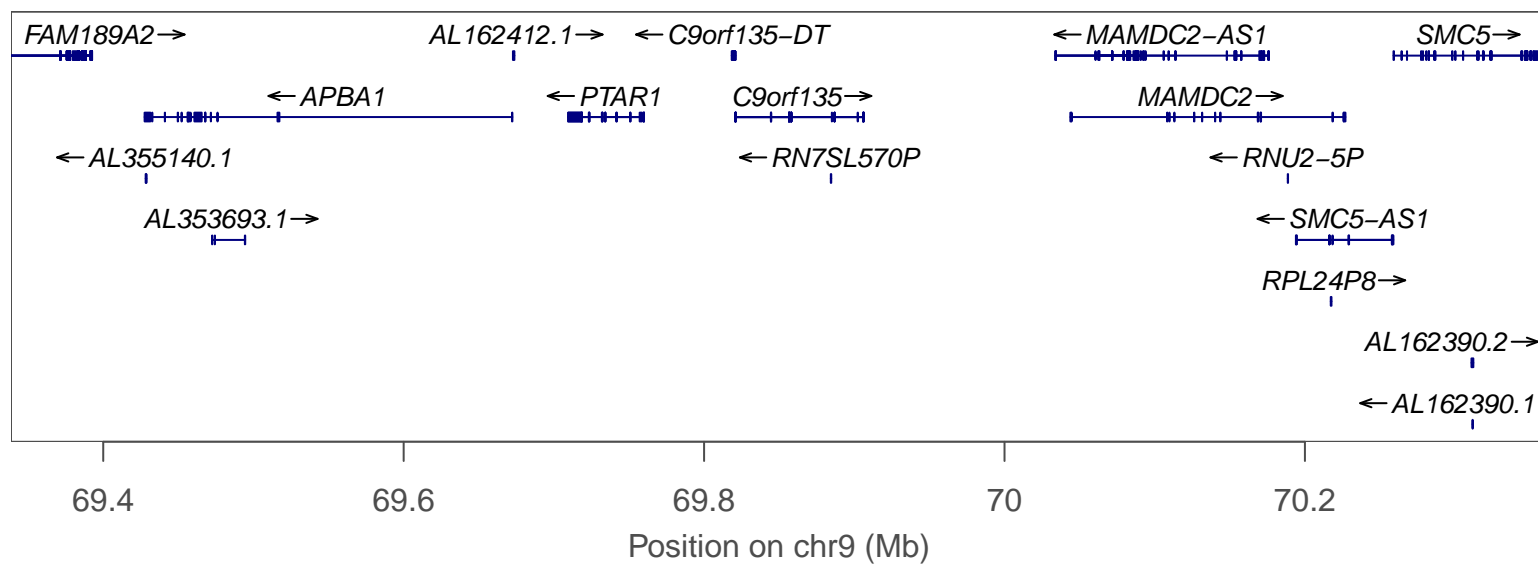
chr	pos (Mb)	trait	snp
8	26.86136	Response to amphetamines	rs4732957
8	27.03703	Epilepsy and lamotrigine-induced maculopapular eruptions	rs7461897
8	27.06460	Musician's dystonia	rs17060993
8	27.21908	Bipolar disorder and schizophrenia	rs1446682
8	27.33760	Alzheimer's disease (late onset)	rs28834970
8	27.37004	Crohn's disease	rs17057051
8	27.37004	Inflammatory bowel disease	rs17057051
8	27.42717	Neuroticism	rs3779635
8	27.45860	Alzheimer's disease in APOE e4- carriers	rs2271920
8	27.47050	Schizophrenia	rs2565065
8	27.48027	Response to zileuton treatment in asthma (FEV1 change interaction)	rs2741335
8	27.55928	Dental caries	rs17057381
8	27.58461	Schizophrenia	rs73229090
8	27.59533	Panic disorder	rs17466684
8	27.59874	Alzheimer's disease in APOE e4- carriers	rs2279590
8	27.60700	Alzheimer's disease	rs11136000
8	27.60880	Alzheimer's disease (late onset)	rs1532278
8	27.61017	Alzheimer's disease (late onset)	rs9331896
8	27.61017	Alzheimer's disease in APOE e4+ carriers	rs9331896
8	27.63027	Alzheimer's disease	rs569214
8	27.69901	Plasma clusterin levels	rs4545046

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
8	27.88290	Adverse response to chemotherapy (neutropenia/leucopenia) (cisplatin)	rs11774576
8	27.94608	Low vWF levels	rs4276643
8	28.04837	Cardiac Troponin-T levels	rs6983473
8	28.06587	Suicidal ideation	rs4732812
8	28.20446	Childhood body mass index	rs13253111
8	28.32424	IgG glycosylation	rs11779594
8	28.74727	Height	rs10448080
8	28.93364	Obesity-related traits	rs2221894
8	29.09737	Metabolite levels (X-11787)	rs7844537
8	29.13751	Metabolite levels (HVA-5-HIAA Factor score)	rs13251954
8	29.22477	PR interval in <i>Tripanosoma cruzi</i> seropositivity	rs75609241
8	29.24854	Metabolite levels (HVA)	rs2954793
8	29.29626	Corticobasal degeneration	rs643472
8	29.48694	Colorectal cancer	rs12548021
8	29.50279	Response to statin therapy	rs10091038
8	29.65210	Breast cancer	rs9693444
8	29.85874	Diisocyanate-induced asthma	rs16876083
8	30.12500	Migraine	rs12681963
8	30.40527	Heart rate variability traits	rs2979481
8	30.57934	Metabolite levels (X-11787)	rs10503871
8	30.64134	Cognitive performance	rs2978263



Schizophrenia
 educational attainment (years of education)



date: Thu Oct 20 22:13:35 2022

build: hg38

display range: chr9:69338597–70361150 [69338597–70361150]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:69838597

number of SNPs plotted: 3077

min P-value: 7.96E–6 [chr9:69838597]

max P-value: 9.99E–1 [chr9:69679829]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	snp
9	69.44024	Educational attainment (years of education)	rs7033137
9	69.47232	Schizophrenia	rs4744901