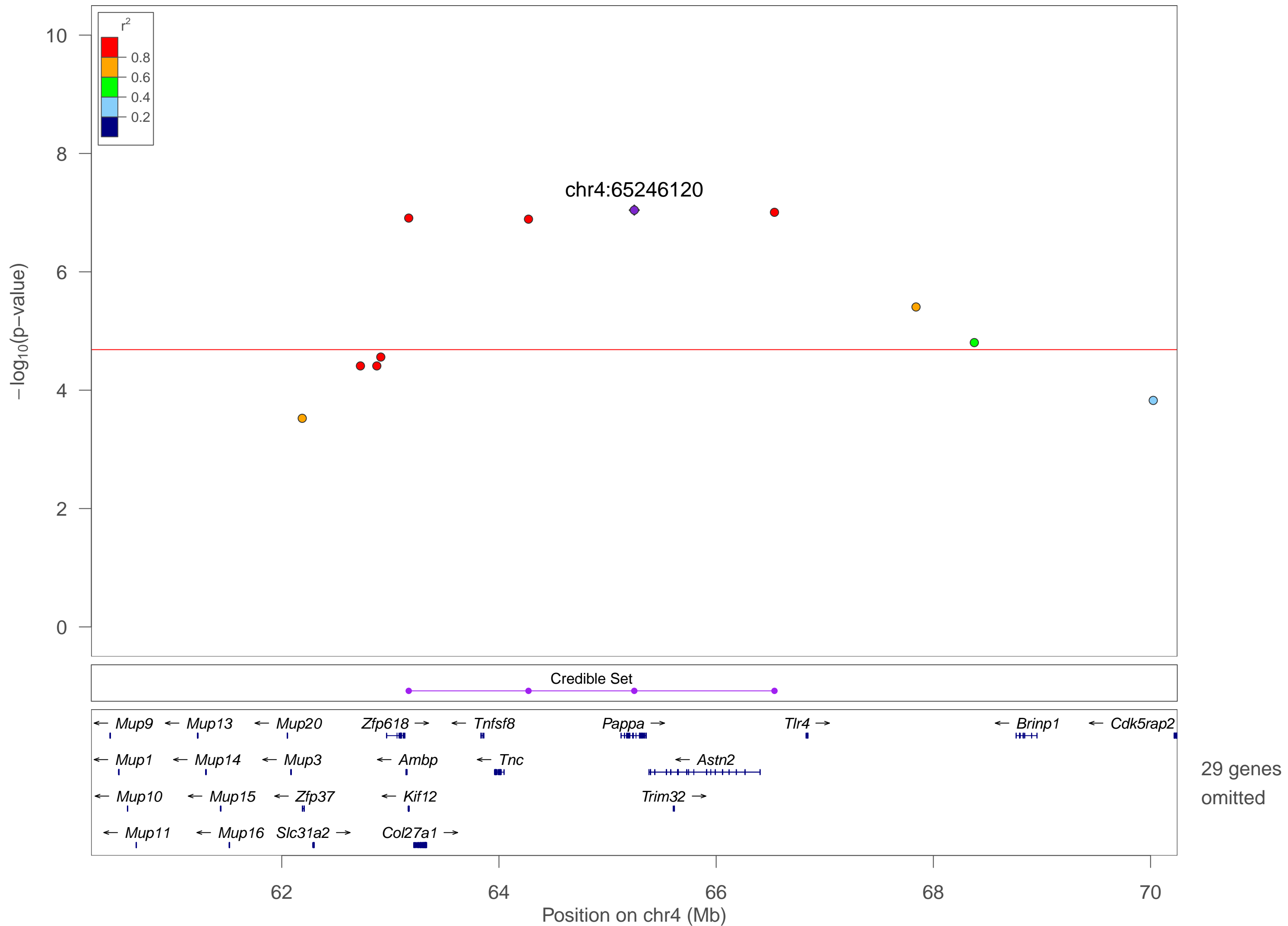


F34 Array, body weight day 1

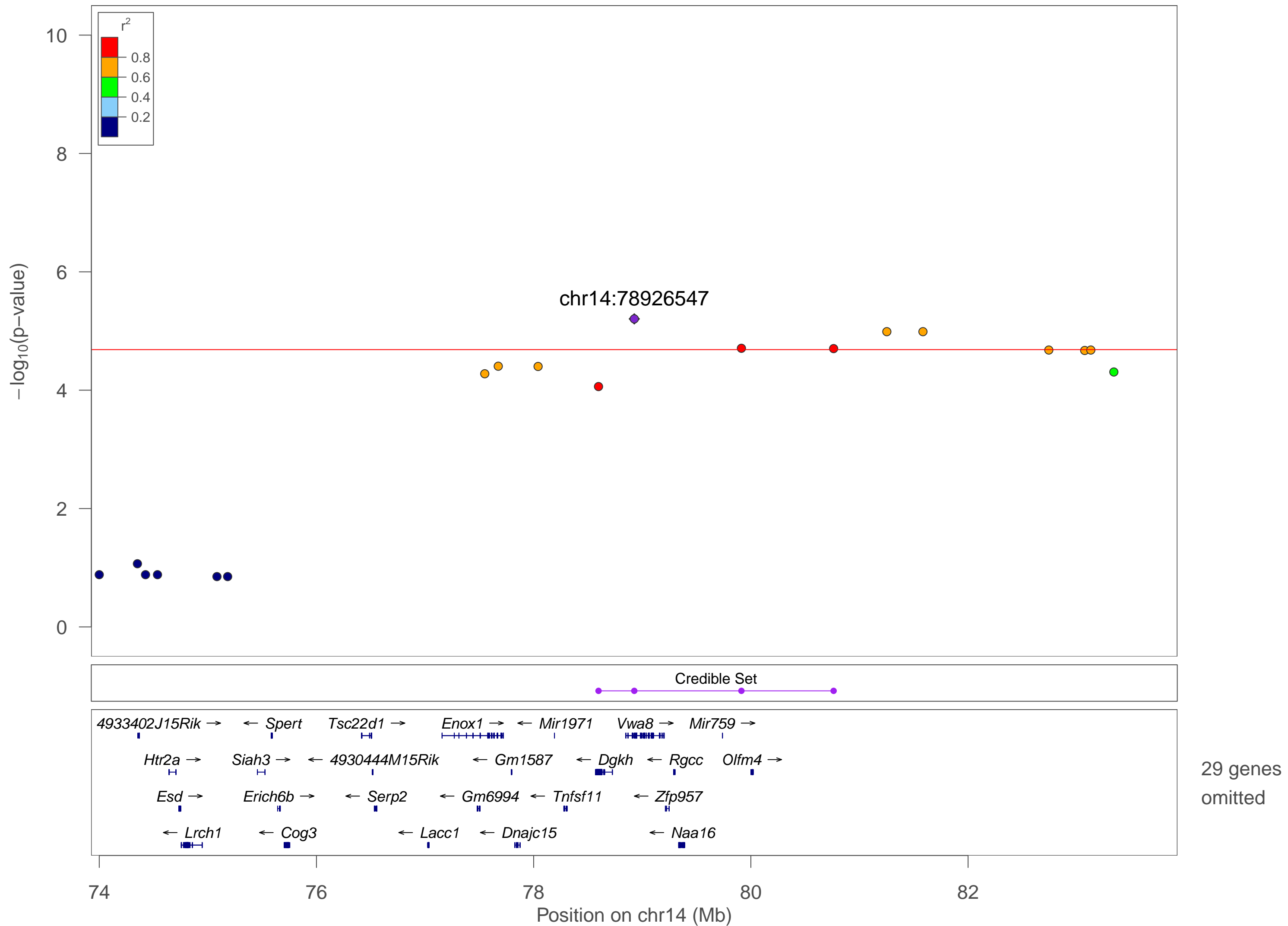


date: Thu Oct 25 16:44:34 2018
build: F34Array
display range: chr4:60246120–70246120 [60246120–70246120]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:65246120
number of SNPs plotted: 12
min P-value: 9.06E–8 [chr4:65246120]
max P-value: 2.99E–4 [chr4:62188670]
omitted Genes: Mup12, Mup17, Mup18
omitted Genes: Mup19, Mup5, Mup21
omitted Genes: Fkbp15, Slc31a1, Cdc26
omitted Genes: Prpf4, Rnf183, Wdr31
omitted Genes: Bspy, Hdhd3, Alad
omitted Genes: Pole3, 4933430I17Rik, Rgs3
omitted Genes: Mir455, Orm1, Orm3
omitted Genes: Orm2, Akna, Whrn
omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213
omitted Genes: 1700018C11Rik, Tnfsf15

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:63169190	4	63.16919	0.2189622	Credible Set	purple
chr4:64272026	4	64.27203	0.2102491	Credible Set	purple
chr4:65246120	4	65.24612	0.2955478	Credible Set	purple
chr4:66536974	4	66.53697	0.2722694	Credible Set	purple

F34 Array, body weight day 1

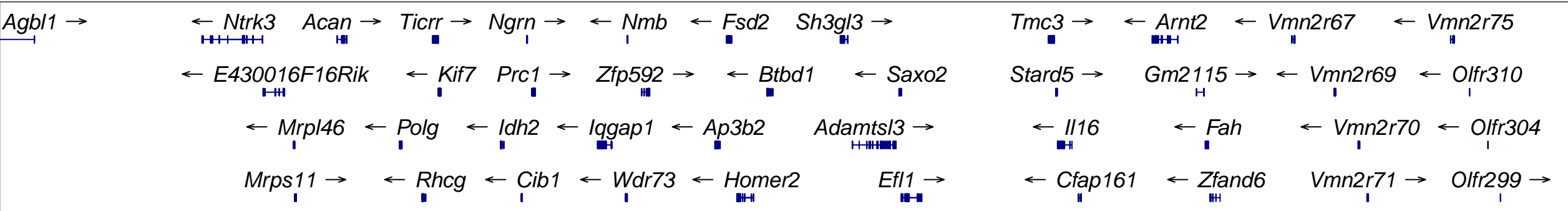
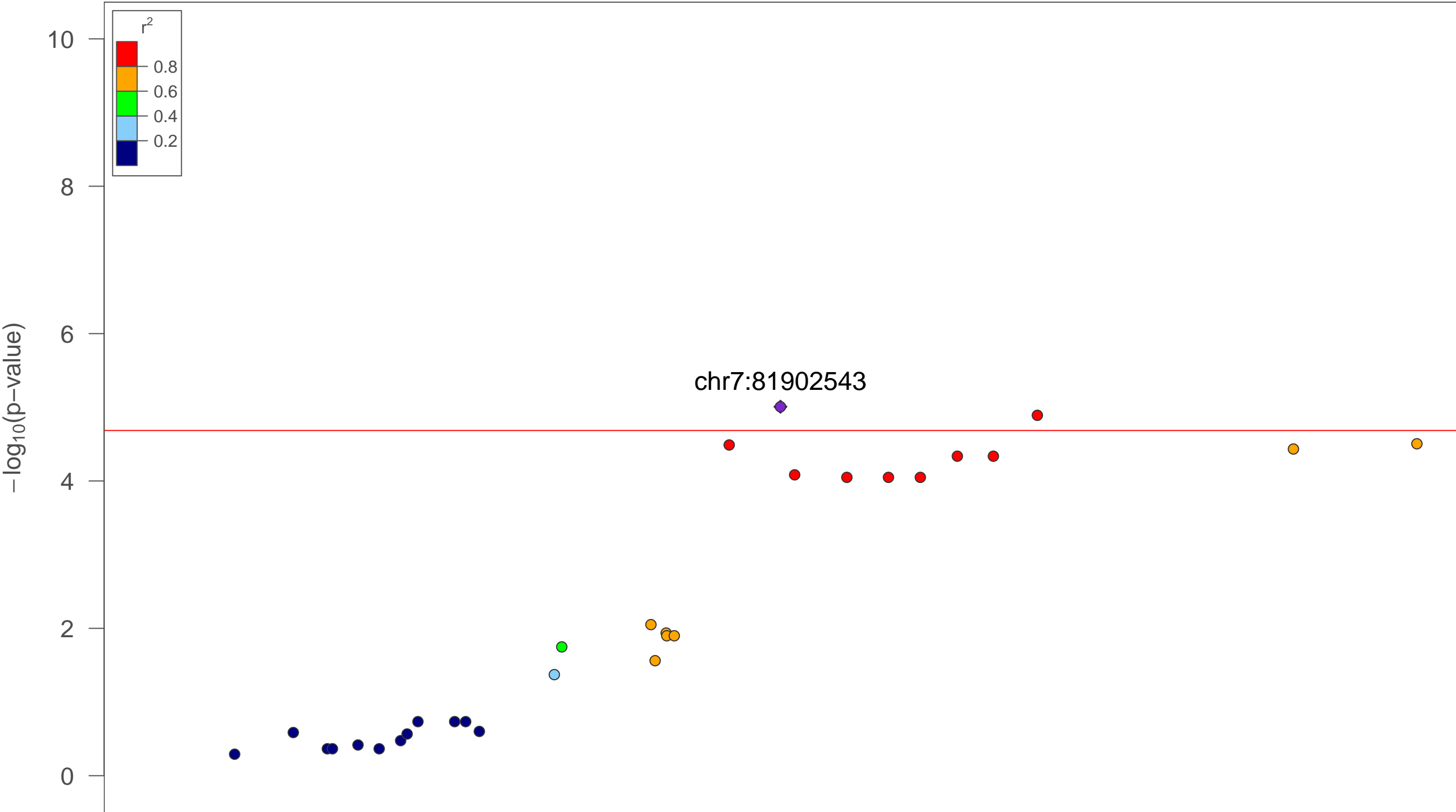


date: Thu Oct 25 16:44:27 2018
build: F34Array
display range: chr14:73926547–83926547 [73926547–83926547]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:78926547
number of SNPs plotted: 20
min P-value: 6.24E–6 [chr14:78926547]
max P-value: 1.41E–1 [chr14:75083773]
omitted Genes: Gm4278, 5031414D18Rik, Lrrc63
omitted Genes: Lcp1, Cpb2, Zc3h13
omitted Genes: Slc25a30, Gm4285, Tpt1
omitted Genes: Snora31, Gtf2f2, Kctd4
omitted Genes: Gpalpp1, Nufip1, 1700108F19Rik
omitted Genes: Ccdc122, Epsti1, Fam216b
omitted Genes: Akap11, Mtrf1, Kbtbd7
omitted Genes: Kbtbd6, Wbp4, Elf1
omitted Genes: Sugt1, Lect1, 4930452G13Rik
omitted Genes: Pcdh8, Gm10845

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:78597230	14	78.59723	0.04671101	Credible Set	purple
chr14:78926547	14	78.92655	0.57169961	Credible Set	purple
chr14:79913027	14	79.91303	0.19194230	Credible Set	purple
chr14:80762011	14	80.76201	0.18964708	Credible Set	purple

F34 Array, routine CBC white blood cell count



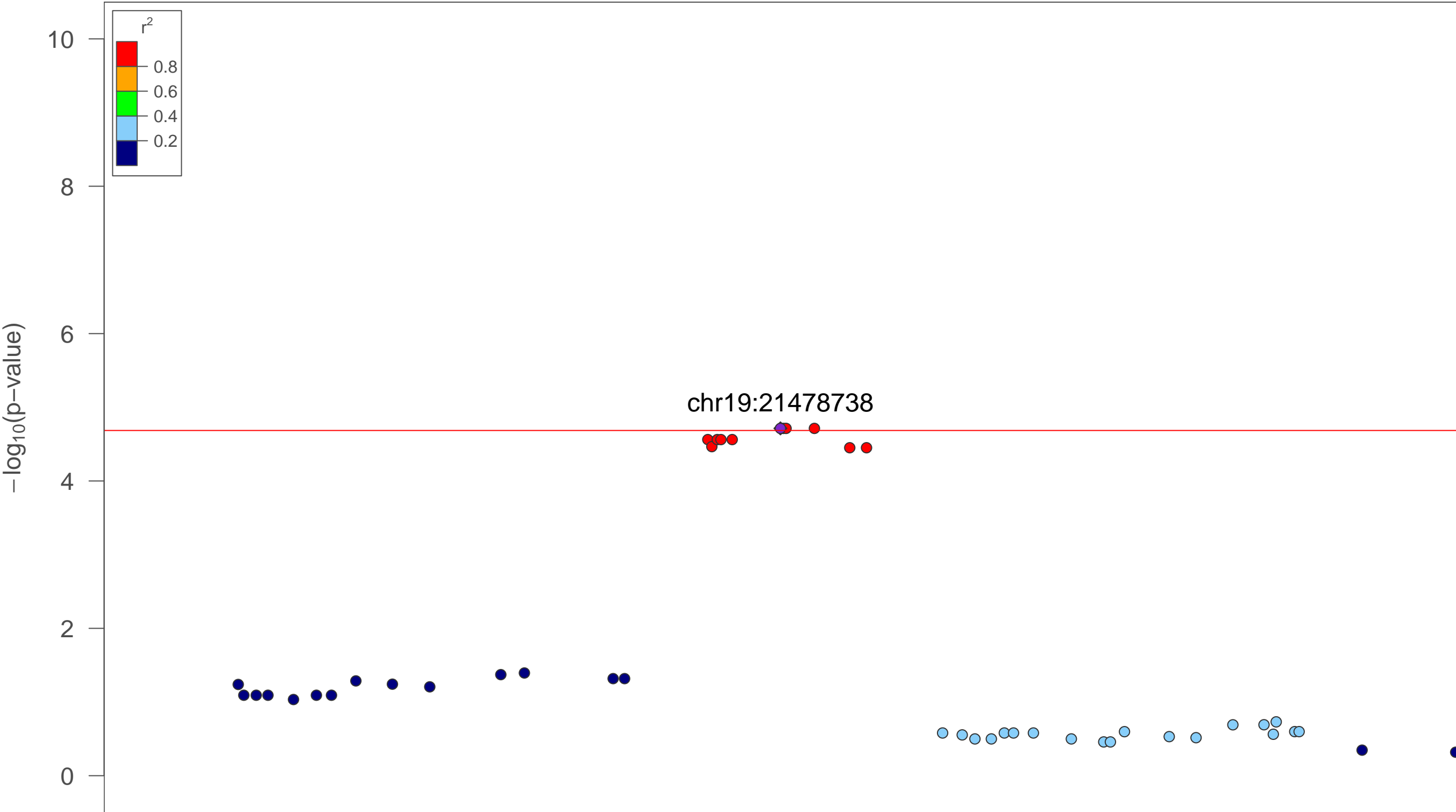
83 genes
omitted

date: Thu Oct 25 16:44:49 2018
build: F34Array
display range: chr7:76902543–86902543 [76902543–86902543]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:81902543
number of SNPs plotted: 31
min P-value: 9.83E–6 [chr7:81902543]
max P-value: 5.11E–1 [chr7:77868097]
omitted Genes: Det1, Mir7–2, Aen
omitted Genes: Isg20, Gm26633, Hapln3
omitted Genes: Mfge8, Abhd2, Rlbp1
omitted Genes: Fanci, Mir9–3hg, Mir9–3
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Sema4b, Gdpgp1
omitted Genes: Ttll13, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Blm
omitted Genes: Crtc3, Gm15880, Zscan2
omitted Genes: Sec11a, Alpk3, Slc28a1
omitted Genes: Pde8a, Rps17, Cpeb1
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr298, Olfr297, Olfr295
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77

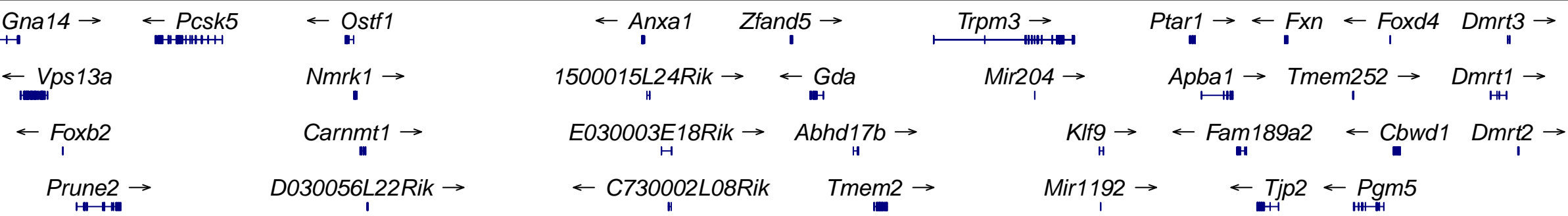
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81523675	7	81.52367	0.10491650	Credible Set	purple
chr7:81902543	7	81.90254	0.32716949	Credible Set	purple
chr7:82007699	7	82.00770	0.04331532	Credible Set	purple
chr7:82393693	7	82.39369	0.04018994	Credible Set	purple
chr7:82701107	7	82.70111	0.04018994	Credible Set	purple
chr7:82936666	7	82.93667	0.04018994	Credible Set	purple
chr7:83210268	7	83.21027	0.07521401	Credible Set	purple
chr7:83476529	7	83.47653	0.07521401	Credible Set	purple
chr7:83801589	7	83.80159	0.25360084	Credible Set	purple

F34 Array, routine CBC white blood cell count



Credible Set



18 genes
omitted

18

20

22

24

26

Position on chr19 (Mb)

date: Thu Oct 25 16:44:41 2018

build: F34Array

display range: chr19:16478738–26478738 [16478738–26478738]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21478738

number of SNPs plotted: 47

min P-value: 1.93E–5 [chr19:21478738]

max P-value: 4.8E–1 [chr19:26470094]

omitted Genes: Gcnt1, Rfk, Trpm6

omitted Genes: Rorb, Aldh1a1, Aldh1a7

omitted Genes: Tmc1, 4930554I06Rik, 1110059E24Rik

omitted Genes: Smc5, Mamdc2, 1700028P14Rik

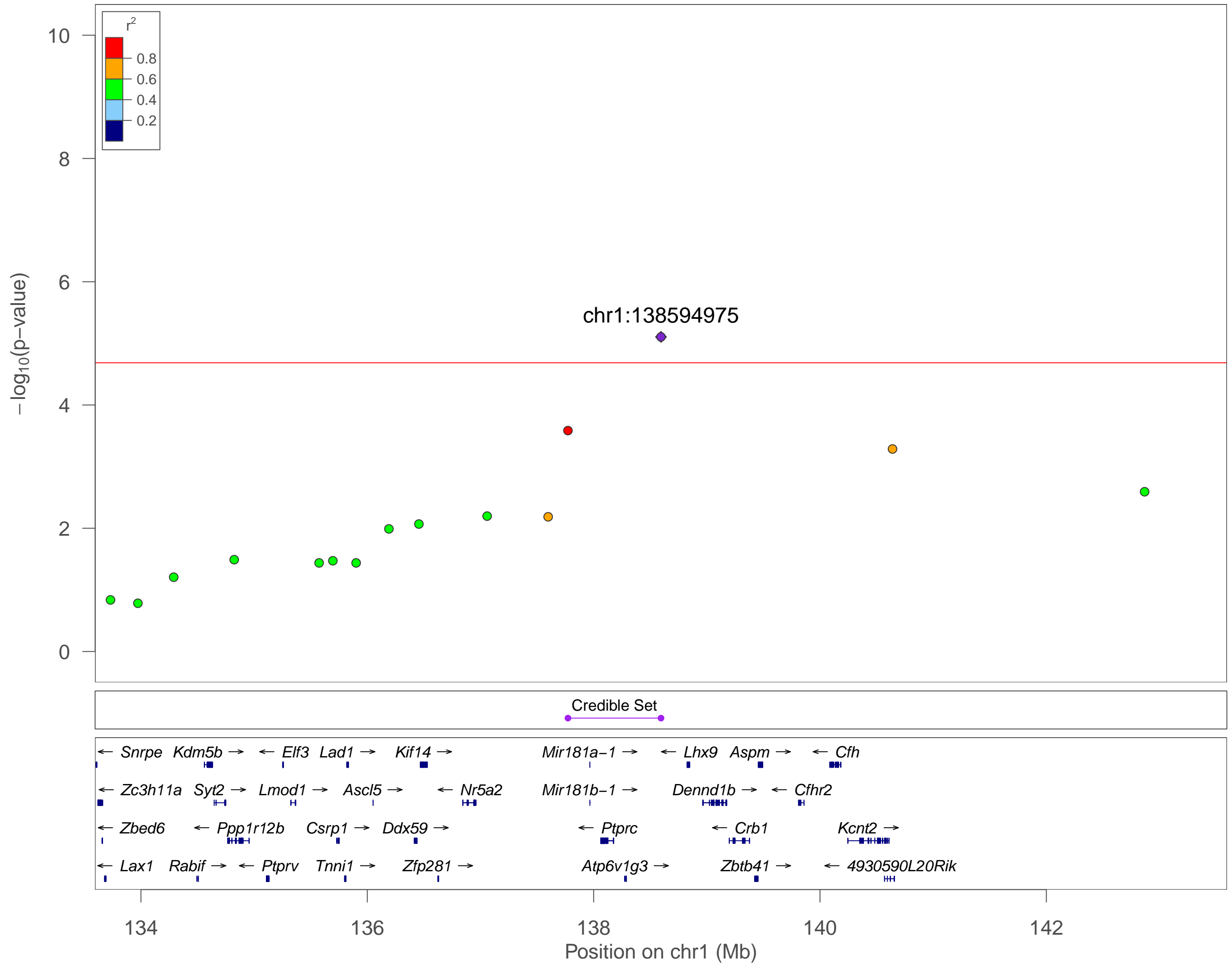
omitted Genes: Pip5k1b, Fam122a, Mir3084–1

omitted Genes: Dock8, Kank1, 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20941927	19	20.94193	0.08362408	Credible Set	purple
chr19:20971640	19	20.97164	0.06780032	Credible Set	purple
chr19:21011731	19	21.01173	0.08362408	Credible Set	purple
chr19:21038918	19	21.03892	0.08362408	Credible Set	purple
chr19:21122136	19	21.12214	0.08362408	Credible Set	purple
chr19:21478738	19	21.47874	0.11662427	Credible Set	purple
chr19:21500356	19	21.50036	0.11662427	Credible Set	purple
chr19:21520189	19	21.52019	0.11662427	Credible Set	purple
chr19:21729752	19	21.72975	0.11662427	Credible Set	purple
chr19:21991002	19	21.99100	0.06560313	Credible Set	purple
chr19:22115053	19	22.11505	0.06560313	Credible Set	purple

F34 Array, routine CBC red blood cell count

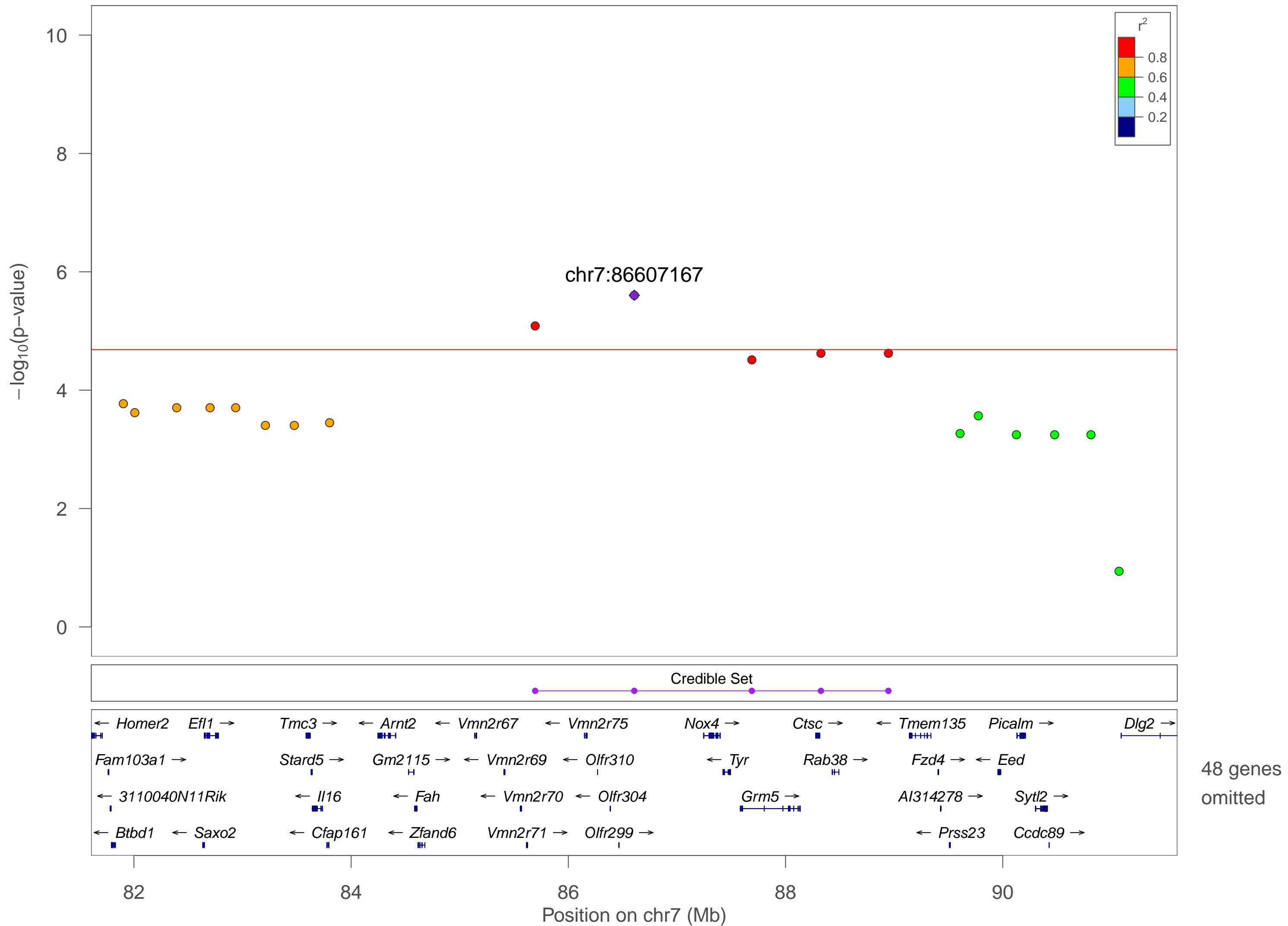


date: Thu Oct 25 16:46:11 2018
build: F34Array
display range: chr1:133594975–143594975 [133594975–143594975]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:138594975
number of SNPs plotted: 16
min P-value: 7.85E–6 [chr1:138594975]
max P-value: 1.65E–1 [chr1:133972959]
omitted Genes: Atp2b4, Mir6903, Optc
omitted Genes: Prelp, Fmod, Btg2
omitted Genes: Chit1, Chil1, Mybph
omitted Genes: Adora1, Myog, Ppfia4
omitted Genes: Tmem183a, 4933406M09Rik, Cyb5r1
omitted Genes: Adipor1, Klhl12, Mgat4e
omitted Genes: Ube2t, Lgr6, Ptpn7
omitted Genes: Arl8a, Gpr3711, Rnpep
omitted Genes: Timm17a, Shisa4, Ipo9
omitted Genes: Nav1, Mir1231, Phlda3
omitted Genes: Tnnt2, Pkp1, Igfn1
omitted Genes: Tmem9, Cacna1s, Gm15850
omitted Genes: Kif21b, 5730559C18Rik, Gpr25
omitted Genes: Camsap2, 9230116N13Rik, Gm19705
omitted Genes: Platr22, Nek7, Gm5833
omitted Genes: 2310009B15Rik, 4930596I21Rik, 4933436E23Rik
omitted Genes: F13b, Cfhr1, Gm4788

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:137772769	1	137.7728	0.03498787	Credible Set	purple
chr1:138594975	1	138.5950	0.96501213	Credible Set	purple

F34 Array, routine CBC hemoglobin

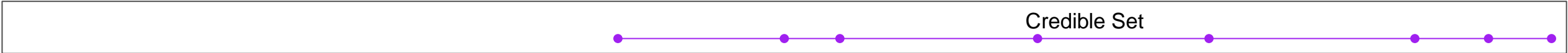
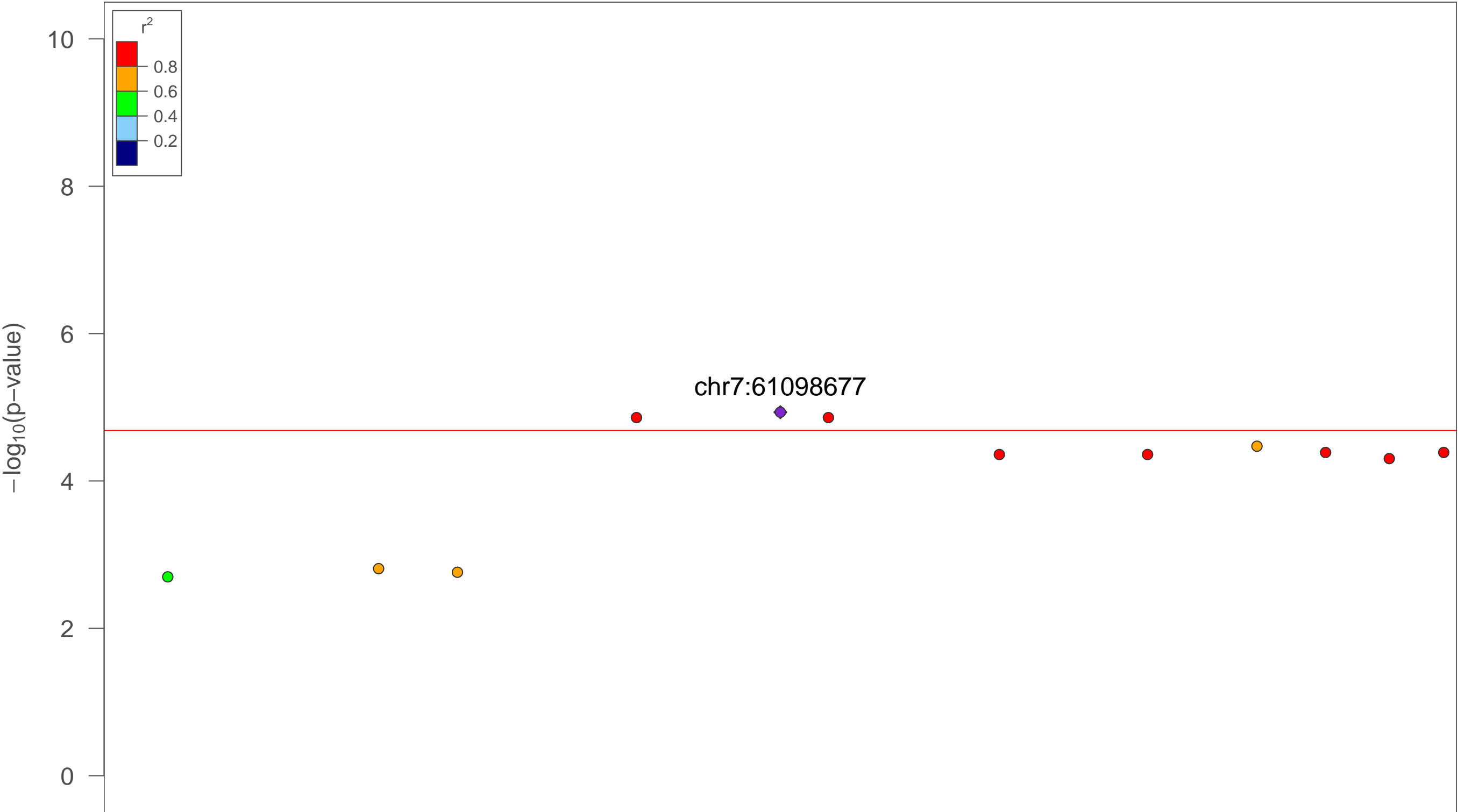


date: Thu Oct 25 16:47:30 2018
build: F34Array
display range: chr7:81607167–91607167 [81607167–91607167]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:86607167
number of SNPs plotted: 20
min P-value: 2.49E–6 [chr7:86607167]
max P-value: 1.15E–1 [chr7:91070939]
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, Sh3gl3, Adamtsl3
omitted Genes: 4933406J10Rik, Mex3b, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79
omitted Genes: Me3, Ccdc81, I7Rn6
omitted Genes: E230029C05Rik, 2310010J17Rik, Ccdc83
omitted Genes: Crebzf, Tmem126a, Tmem126b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:85694603	7	85.69460	0.19438670	Credible Set	purple
chr7:86607167	7	86.60717	0.60948915	Credible Set	purple
chr7:87689885	7	87.68989	0.05528989	Credible Set	purple
chr7:88325650	7	88.32565	0.07041713	Credible Set	purple
chr7:88947234	7	88.94723	0.07041713	Credible Set	purple

F34 Array, routine CBC mean corpuscular hemoglobin



34 genes
omitted

date: Thu Oct 25 16:52:02 2018

build: F34Array

display range: chr7:56098677–66098677 [56098677–66098677]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:61098677

number of SNPs plotted: 13

min P-value: 1.17E–5 [chr7:61098677]

max P-value: 2E–3 [chr7:56569907]

omitted Genes: Gabrb3, Snord116l2, Snord116l1

omitted Genes: Snhg14, Snord64, Snrpn

omitted Genes: Gm7367, Mir344d–3, Mir344e

omitted Genes: Mir344h–1, Mir344h–2, Mir344b

omitted Genes: Mir344c, Mir344, Mir344–2

omitted Genes: A330076H08Rik, Mir344g, Mir344f

omitted Genes: Mir344i, Ndn, Magel2

omitted Genes: Mkrn3, Peg12, Trpm1

omitted Genes: Mir211, Mir6416, Mtmr10

omitted Genes: Mphosph10, Fam189a1, Ndnl2

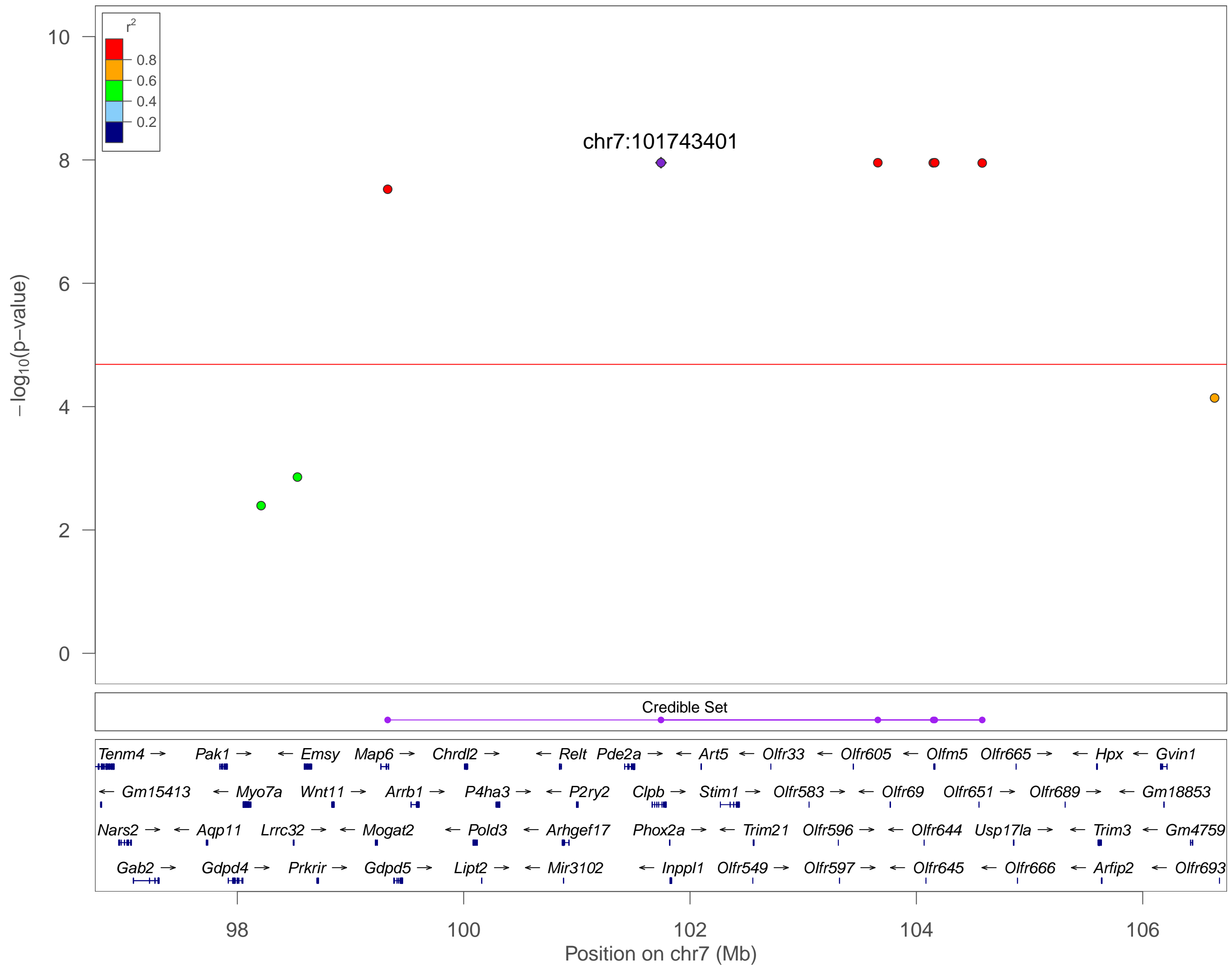
omitted Genes: 1810008I18Rik, Pcsk6, Snrpa1

omitted Genes: Vimp

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:60035047	7	60.03505	0.20630661	Credible Set	purple
chr7:61098677	7	61.09868	0.24234896	Credible Set	purple
chr7:61453986	7	61.45399	0.20630661	Credible Set	purple
chr7:62717634	7	62.71763	0.06883805	Credible Set	purple
chr7:63813305	7	63.81330	0.06883805	Credible Set	purple
chr7:65129296	7	65.12930	0.07316961	Credible Set	purple
chr7:65600162	7	65.60016	0.06102250	Credible Set	purple
chr7:66002947	7	66.00295	0.07316961	Credible Set	purple

F34 Array, routine CBC mean corpuscular hemoglobin concentration



date: Thu Oct 25 16:52:13 2018

build: F34Array

display range: chr7:96743401–106743401 [96743401–106743401]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:101743401

number of SNPs plotted: 10

min P-value: 1.11E–8 [chr7:101743401]

max P-value: 4.03E–3 [chr7:98210049]

omitted Genes: Usp35, Kctd21, Alg8

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Capn5

omitted Genes: Omp, Gm16938, B3gnt6

omitted Genes: Acer3, Tsku, Gucy2d

omitted Genes: Uvrag, Dgat2, Gm26705

omitted Genes: Serpinh1, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr520

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Ucp3, Ucp2

omitted Genes: Dnajb13, Coa4, Mrpl48

omitted Genes: Rab6a, Plekhhb1, Fam168a

omitted Genes: P2ry6, Fchsd2, Atg16l2

omitted Genes: Stard10, Arap1, Mir139

omitted Genes: Art2a-ps, Art2b, Folr2

omitted Genes: Folr1, Anapc15, Tomt

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Il18bp, Rnf121, Xndc1

omitted Genes: Xntrpc, Trpc2, Art1

omitted Genes: Chrna10, Nup98, Pgap2

omitted Genes: Rhog, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr78

omitted Genes: Olfr560, Olfr561, Olfr564

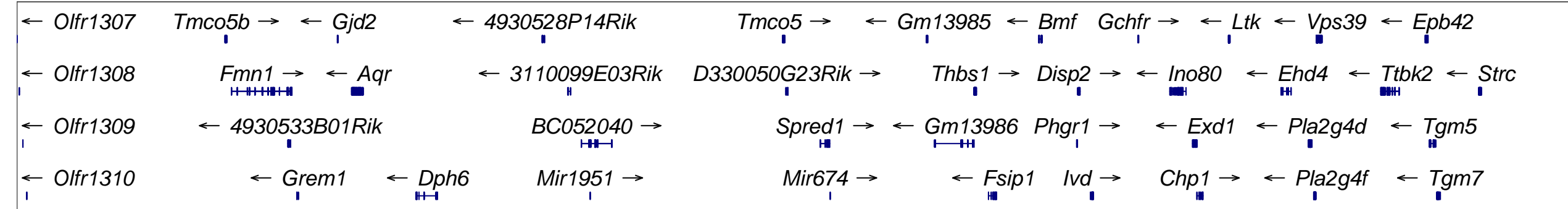
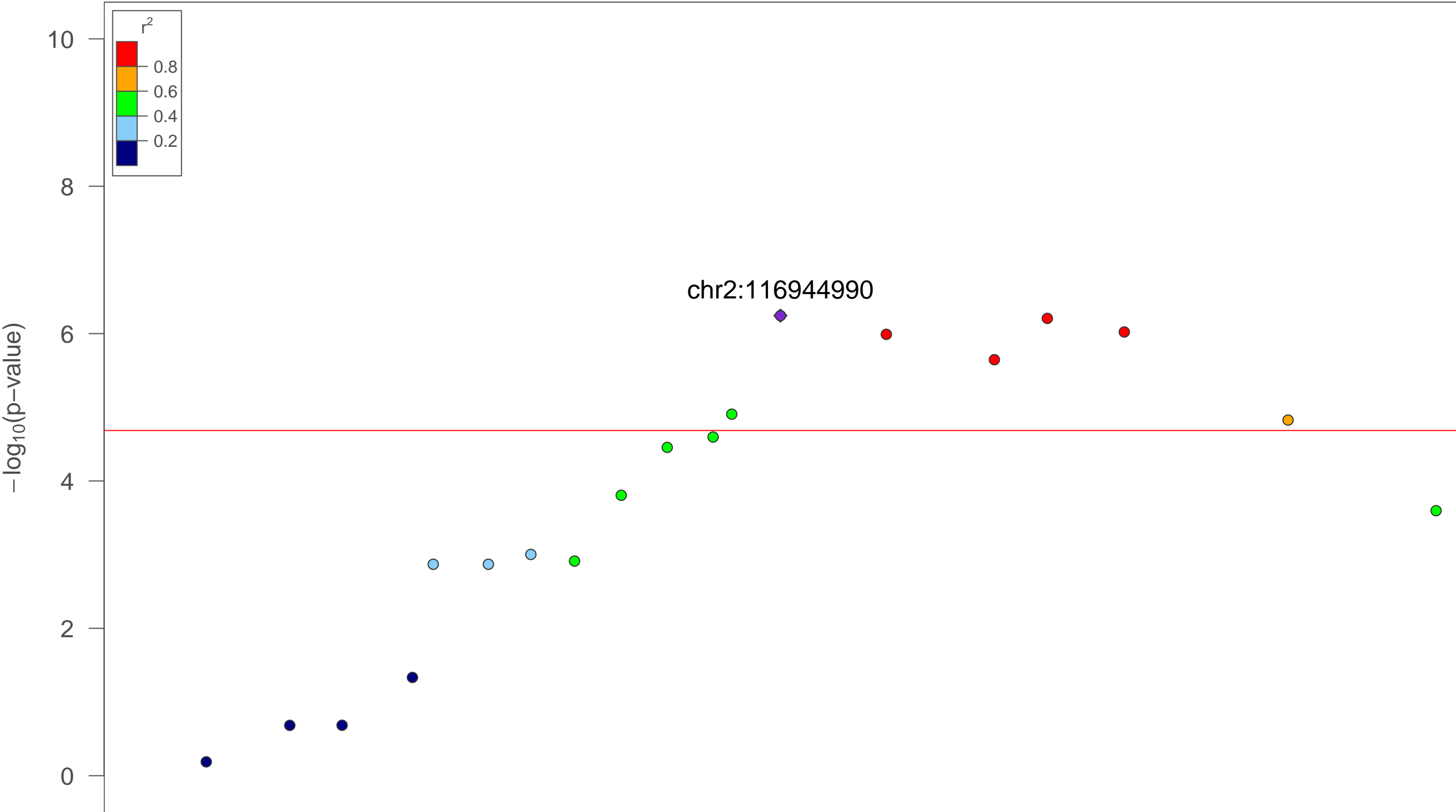
omitted Genes: Olfr566, Olfr568, Olfr569

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.07118739	Credible Set	purple
chr7:101743401	7	101.74340	0.18627943	Credible Set	purple
chr7:103659355	7	103.65936	0.18627943	Credible Set	purple
chr7:104149022	7	104.14902	0.18547207	Credible Set	purple
chr7:104162444	7	104.16244	0.18627943	Credible Set	purple
chr7:104581631	7	104.58163	0.18450225	Credible Set	purple

F34 Array, routine CBC cell hemoglobin concentration mean



104 genes
omitted

112 114 116 118 120

Position on chr2 (Mb)

date: Thu Oct 25 16:52:29 2018

build: F34Array

display range: chr2:111944990–121944990 [111944990–121944990]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:116944990

number of SNPs plotted: 20

min P-value: 5.7E–7 [chr2:116944990]

max P-value: 6.48E–1 [chr2:112700792]

omitted Genes: Olfr1311, Olfr1312, Olfr1313

omitted Genes: Olfr1314, Olfr1316, Olfr1317

omitted Genes: Olfr1318, Lpcat4, Nutm1

omitted Genes: Nop10, Slc12a6, Emc4

omitted Genes: Katnbl1, Emc7, Chrm5

omitted Genes: Aven, Ryr3, Scg5

omitted Genes: Arhgap11a, A530058N18Rik, Actc1

omitted Genes: C130080G10Rik, Mir7002, Zfp770

omitted Genes: Meis2, 2810405F15Rik, Fam98b

omitted Genes: Rasgrp1, 4930412B13Rik, Gpr176

omitted Genes: 1700054M17Rik, Eif2ak4, Srp14

omitted Genes: Bub1b, Pak6, Ankrd63

omitted Genes: Plcb2, Inafm2, A430105I19Rik

omitted Genes: Knstrn, Bahd1, Chst14

omitted Genes: Ccdc32, Rpusd2, Casc5

omitted Genes: Rad51, Rmdn3, Dnajc17

omitted Genes: Gm14137, Zfyve19, Ppp1r14d

omitted Genes: Spint1, Rhov, Vps18

omitted Genes: Gm14207, Dll4, Chac1

omitted Genes: 1700020I14Rik, Oip5, Nusap1

omitted Genes: Ndufaf1, Rtf1, Itpka

omitted Genes: Rpap1, Tyro3, Mga

omitted Genes: Mapkbp1, Mir7665, Jmjd7

omitted Genes: Gm28042, Pla2g4b, Pla2g4e

omitted Genes: Tmem87a, Ganc, 4931402G19Rik

omitted Genes: Capn3, Zfp106, Snap23

omitted Genes: Lrrc57, Haus2, Cdan1

omitted Genes: AV039307, Ubr1, Tmem62

omitted Genes: Ccndbp1, Lcmt2, Adal

omitted Genes: Zscan29, Tubgcp4, Trp53bp1

omitted Genes: Map1a, Ppip5k1, Gkmt1

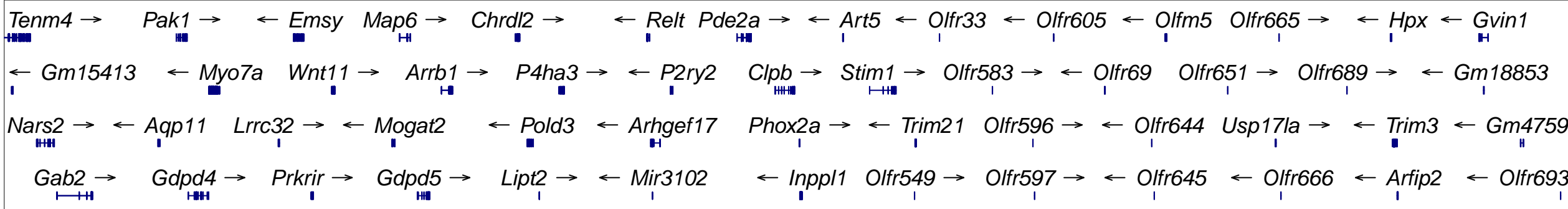
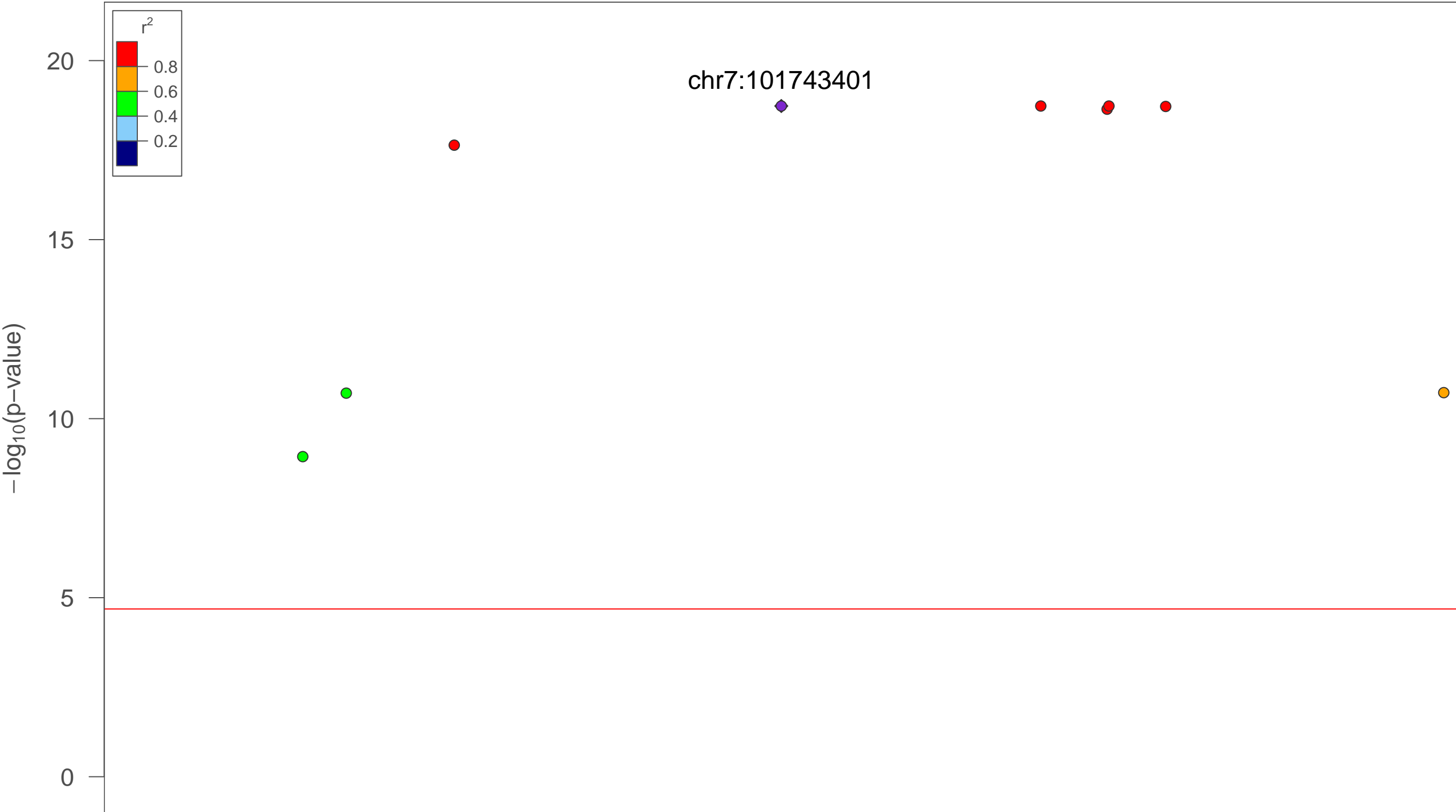
omitted Genes: Catsper2, Rdia3, E112

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:116944990	2	116.9450	0.29685060	Credible Set	purple
chr2:117727776	2	117.7278	0.16923215	Credible Set	purple
chr2:118526291	2	118.5263	0.07893283	Credible Set	purple
chr2:118917838	2	118.9178	0.27342629	Credible Set	purple
chr2:119486992	2	119.4870	0.18155814	Credible Set	purple

F34 Array, routine CBC cell hemoglobin concentration mean



232 genes
omitted

date: Thu Oct 25 16:52:40 2018

build: F34Array

display range: chr7:96743401–106743401 [96743401–106743401]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:101743401

number of SNPs plotted: 10

min P-value: 1.85E–19 [chr7:101743401]

max P-value: 1.15E–9 [chr7:98210049]

omitted Genes: Usp35, Kctd21, Alg8

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Capn5

omitted Genes: Omp, Gm16938, B3gnt6

omitted Genes: Acer3, Tsku, Gucy2d

omitted Genes: Uvrag, Dgat2, Gm26705

omitted Genes: Serpinh1, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr520

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Ucp3, Ucp2

omitted Genes: Dnajb13, Coa4, Mrpl48

omitted Genes: Rab6a, Plekhhb1, Fam168a

omitted Genes: P2ry6, Fchsd2, Atg16l2

omitted Genes: Stard10, Arap1, Mir139

omitted Genes: Art2a-ps, Art2b, Folr2

omitted Genes: Folr1, Anapc15, Tomt

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Il18bp, Rnf121, Xndc1

omitted Genes: Xntrpc, Trpc2, Art1

omitted Genes: Chrna10, Nup98, Pgap2

omitted Genes: Rhog, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr78

omitted Genes: Olfr560, Olfr561, Olfr564

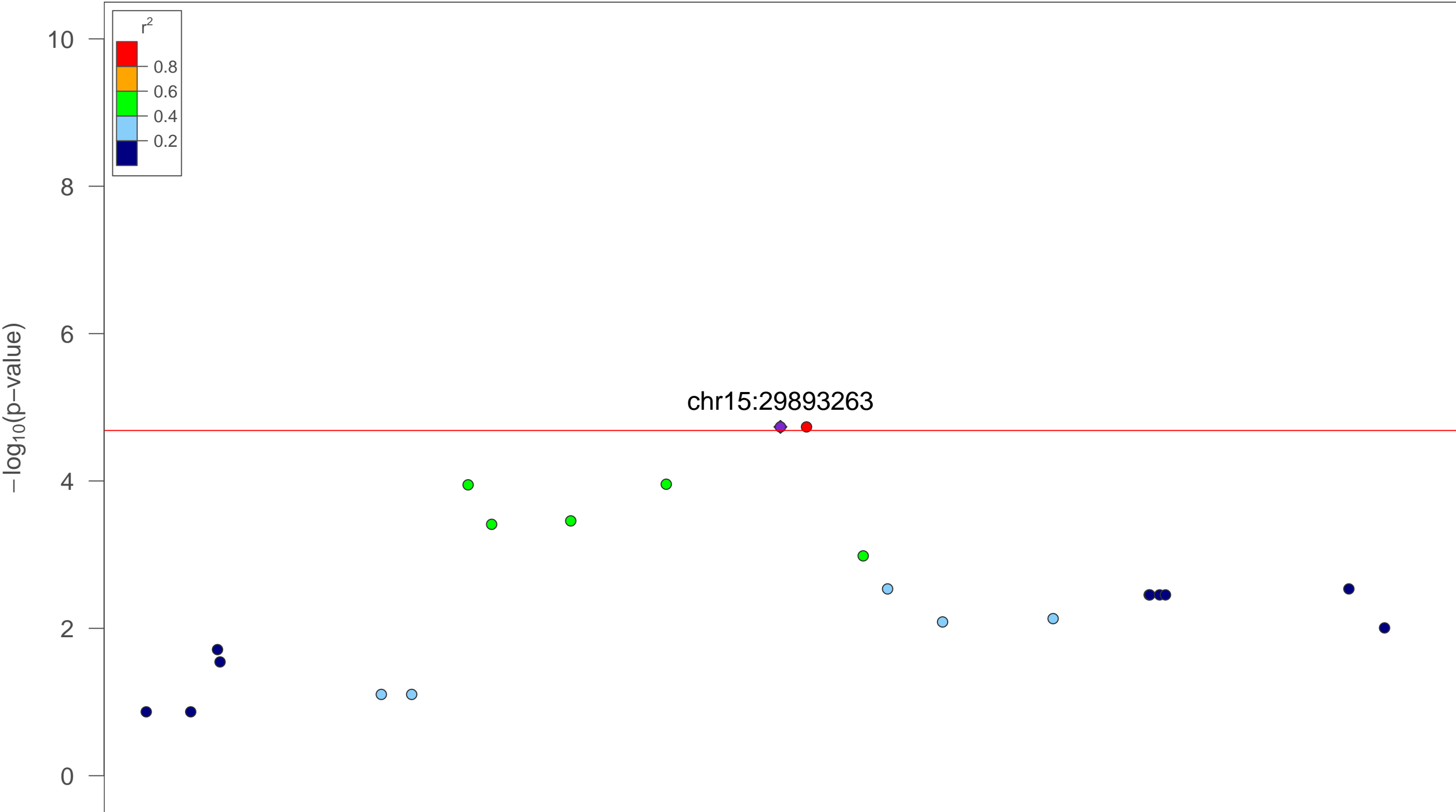
omitted Genes: Olfr566, Olfr568, Olfr569

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

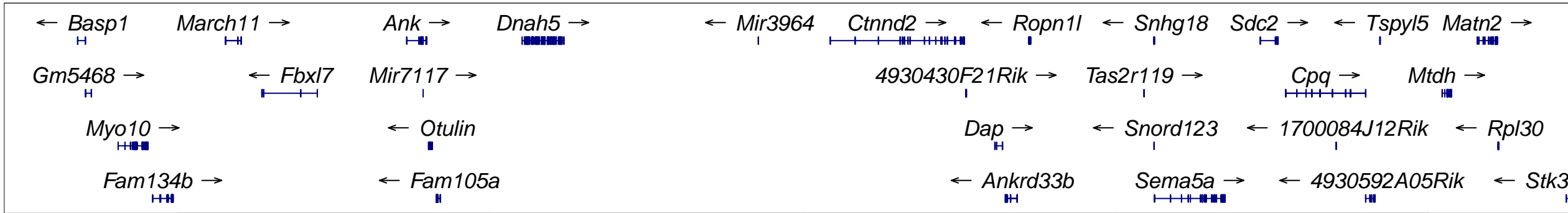
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.01707747	Credible Set	purple
chr7:101743401	7	101.74340	0.20517644	Credible Set	purple
chr7:103659355	7	103.65936	0.20517644	Credible Set	purple
chr7:104149022	7	104.14902	0.16778480	Credible Set	purple
chr7:104162444	7	104.16244	0.20517644	Credible Set	purple
chr7:104581631	7	104.58163	0.19960843	Credible Set	purple

F34 Array, routine CBC cell hemoglobin concentration mean



Credible Set



15 genes
omitted

Position on chr15 (Mb)

date: Thu Oct 25 16:52:20 2018

build: F34Array

display range: chr15:24893263–34893263 [24893263–34893263]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:29893263

number of SNPs plotted: 23

min P-value: 1.85E–5 [chr15:29893263]

max P-value: 1.36E–1 [chr15:25205426]

omitted Genes: Mir7212, Zfp622, Trio

omitted Genes: March6, Cmb1, Cct5

omitted Genes: Fam173b, Laptm4b, 9430069I07Rik

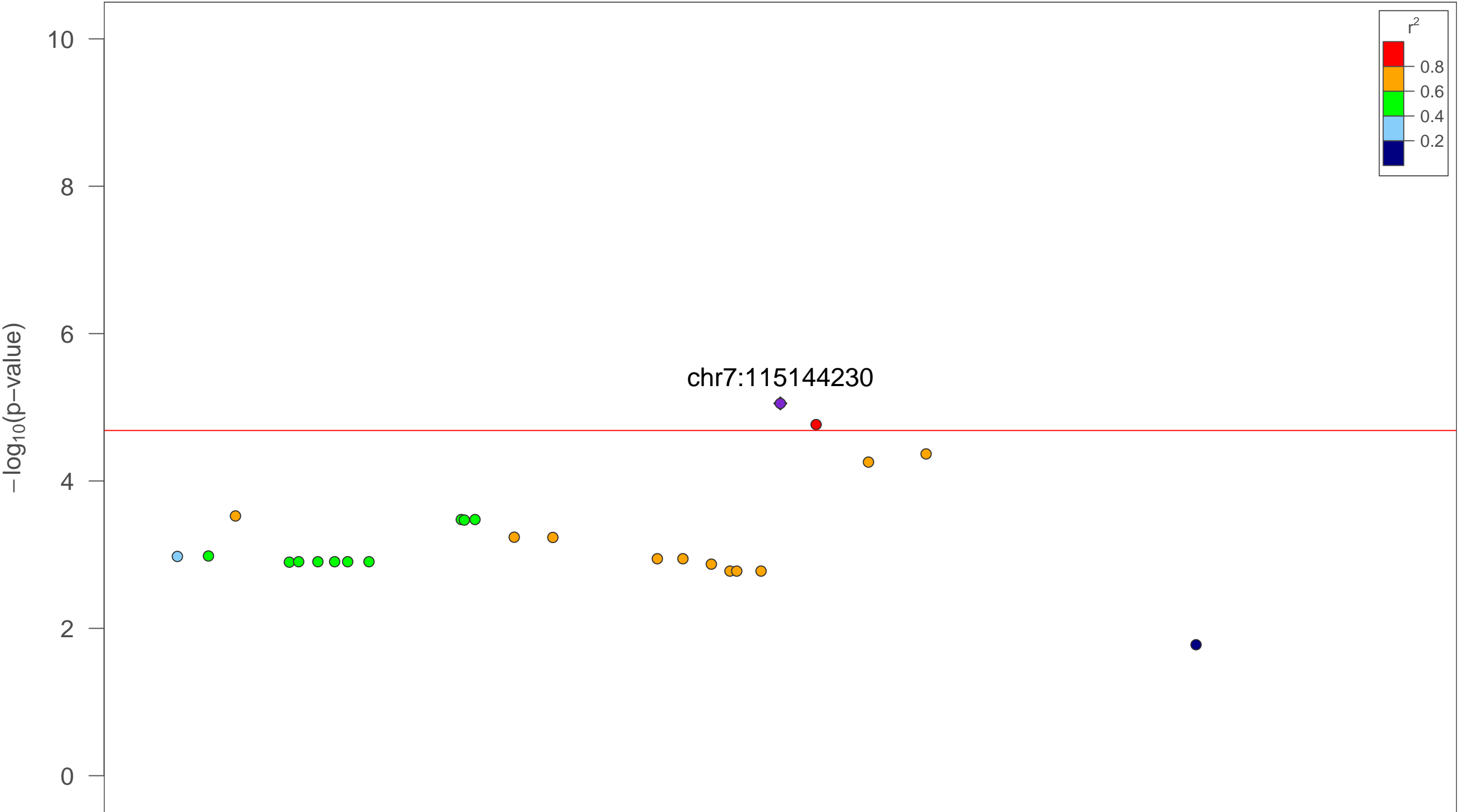
omitted Genes: Erich5, Rida, Pop1

omitted Genes: Nipal2, 4930413F20Rik, Kcns2

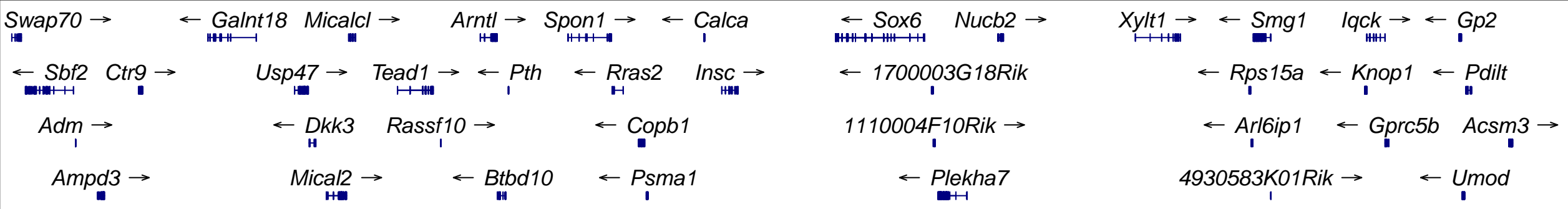
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:29893263	15	29.89326	0.5	Credible Set	purple
chr15:30086139	15	30.08614	0.5	Credible Set	purple

F34 Array, routine CBC red blood cell distribution width



Credible Set



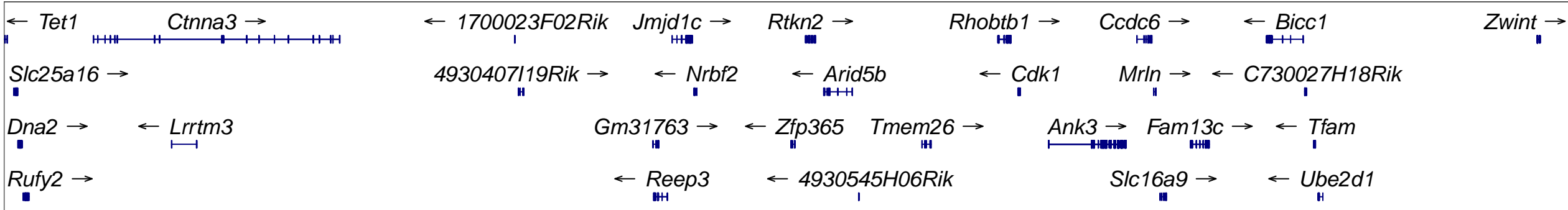
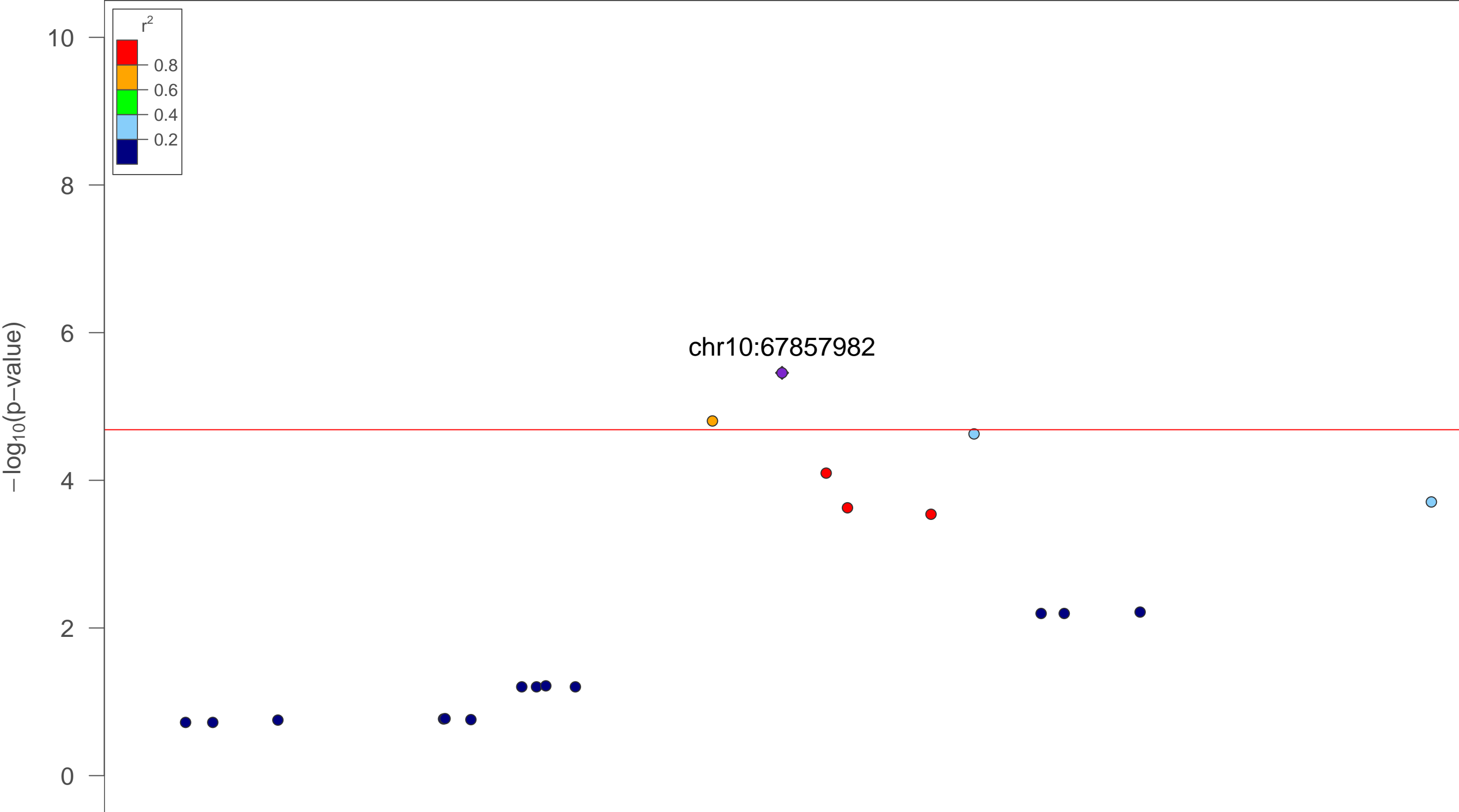
38 genes
omitted

date: Thu Oct 25 16:53:02 2018
build: F34Array
display range: chr7:110144230–120144230 [110144230–120144230]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:115144230
number of SNPs plotted: 26
min P-value: 8.86E–6 [chr7:115144230]
max P-value: 1.67E–2 [chr7:118217303]
omitted Genes: Rnf141, Lyve1, Mrvi1
omitted Genes: Gm16336, Eif4g2, 1700012D14Rik
omitted Genes: Parva, 4930543E12Rik, Far1
omitted Genes: Far1os, 4933406I18Rik, Pde3b
omitted Genes: Cyp2r1, Calcb, A730082K24Rik
omitted Genes: Rps13, Snord14a, Pik3c2a
omitted Genes: Syt17, Itpripl2, Coq7
omitted Genes: Tmc7, Tmc5, Gde1
omitted Genes: Ccp110, 9030624J02Rik, Gpr139
omitted Genes: Acsm5, Acsm2, Acsm1
omitted Genes: Acsm4, Thumpd1, Eri2
omitted Genes: 2610020H08Rik, Dcun1d3, Lymr1
omitted Genes: Tmem159, Zp2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:115144230	7	115.1442	0.6525872	Credible Set	purple
chr7:115408492	7	115.4085	0.3474128	Credible Set	purple

F34 Array, routine CBC red blood cell distribution width



17 genes
omitted

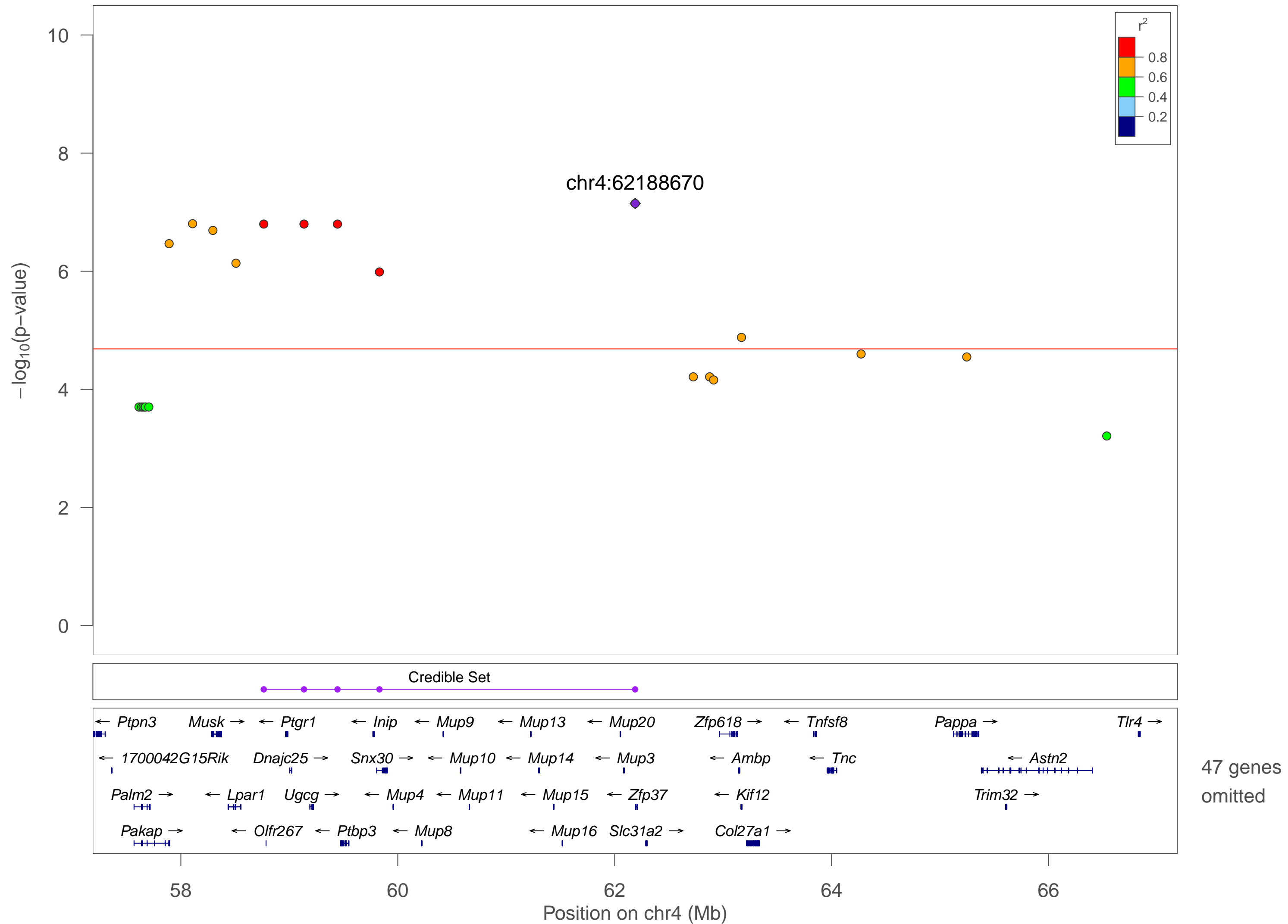
Position on chr10 (Mb)

date: Thu Oct 25 16:52:55 2018
build: F34Array
display range: chr10:62857982–72857982 [62857982–72857982]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:67857982
number of SNPs plotted: 21
min P-value: 3.5E–6 [chr10:67857982]
max P-value: 1.9E–1 [chr10:63458094]
omitted Genes: Hnrnph3, Pbd2, Pbd1
omitted Genes: Atoh7, Mypn, Herc4
omitted Genes: Sirt1, Dnajc12, Egr2
omitted Genes: Ado, 1700040L02Rik, Phyhipl
omitted Genes: D630013N20Rik, 1700113B09Rik, Cisd1
omitted Genes: Ipmk, 1700049L16Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:67857982	10	67.85798	0.92212713	Credible Set	purple
chr10:68183490	10	68.18349	0.04691722	Credible Set	purple
chr10:68340621	10	68.34062	0.01693441	Credible Set	purple
chr10:68956755	10	68.95676	0.01402124	Credible Set	purple

F34 Array, routine CBC hemoglobin distribution width

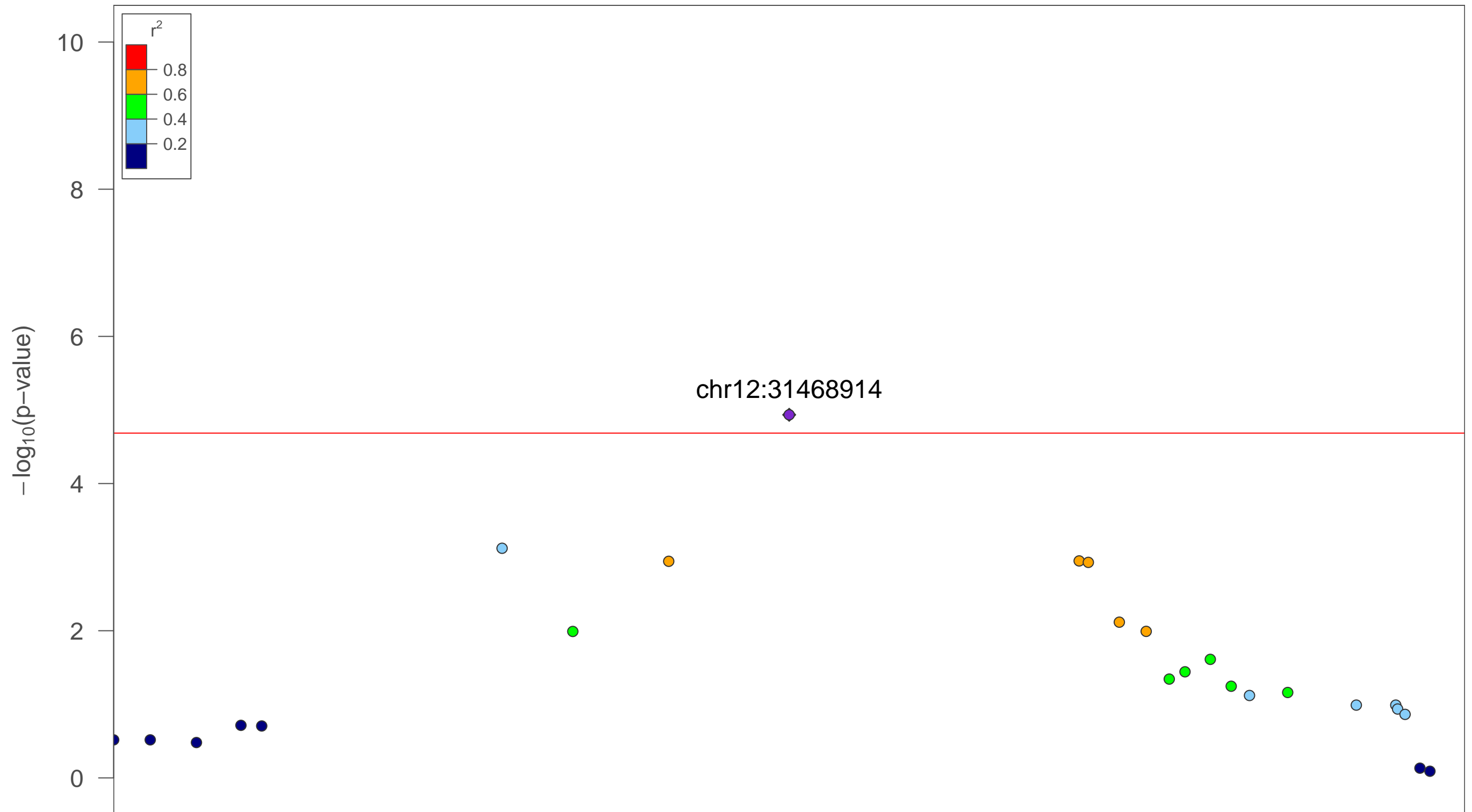


date: Thu Oct 25 16:45:10 2018
build: F34Array
display range: chr4:57188670–67188670 [57188670–67188670]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:62188670
number of SNPs plotted: 23
min P-value: 7.11E–8 [chr4:62188670]
max P-value: 6.17E–4 [chr4:66536974]
omitted Genes: Akap2, D630039A03Rik, Txn1
omitted Genes: Txndc8, Slep1, Mir3095
omitted Genes: AI314180, Zkscan16, Gng10
omitted Genes: Gm12596, Susd1, Hsd12
omitted Genes: E130308A19Rik, Slc46a2, Mup6
omitted Genes: Mup7, Mup2, Mup1
omitted Genes: Mup12, Mup17, Mup18
omitted Genes: Mup19, Mup5, Mup21
omitted Genes: Fkbp15, Slc31a1, Cdc26
omitted Genes: Prpf4, Rnf183, Wdr31
omitted Genes: Bspry, Hdhd3, Alad
omitted Genes: Pole3, 4933430I17Rik, Rgs3
omitted Genes: Mir455, Orm1, Orm3
omitted Genes: Orm2, Akna, Whrn
omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213
omitted Genes: 1700018C11Rik, Tnfsf15

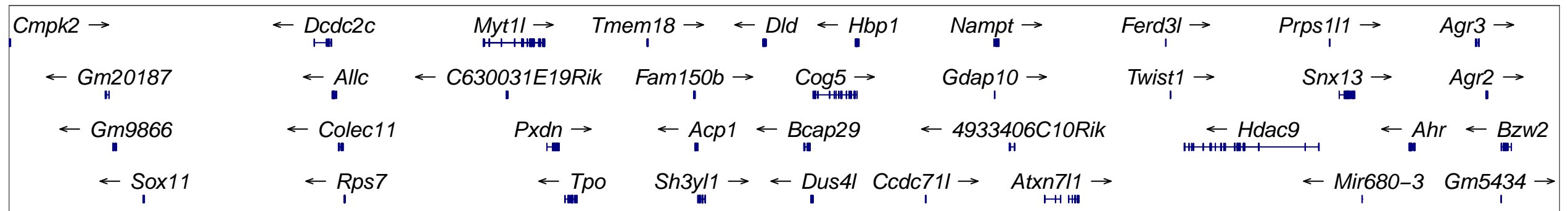
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:58764292	4	58.76429	0.18717006	Credible Set	purple
chr4:59135384	4	59.13538	0.18717006	Credible Set	purple
chr4:59443996	4	59.44400	0.18717006	Credible Set	purple
chr4:59830858	4	59.83086	0.03088785	Credible Set	purple
chr4:62188670	4	62.18867	0.40760197	Credible Set	purple

F34 Array, routine CBC hemoglobin distribution width



Credible Set



28 genes
omitted

28

30

32

34

36

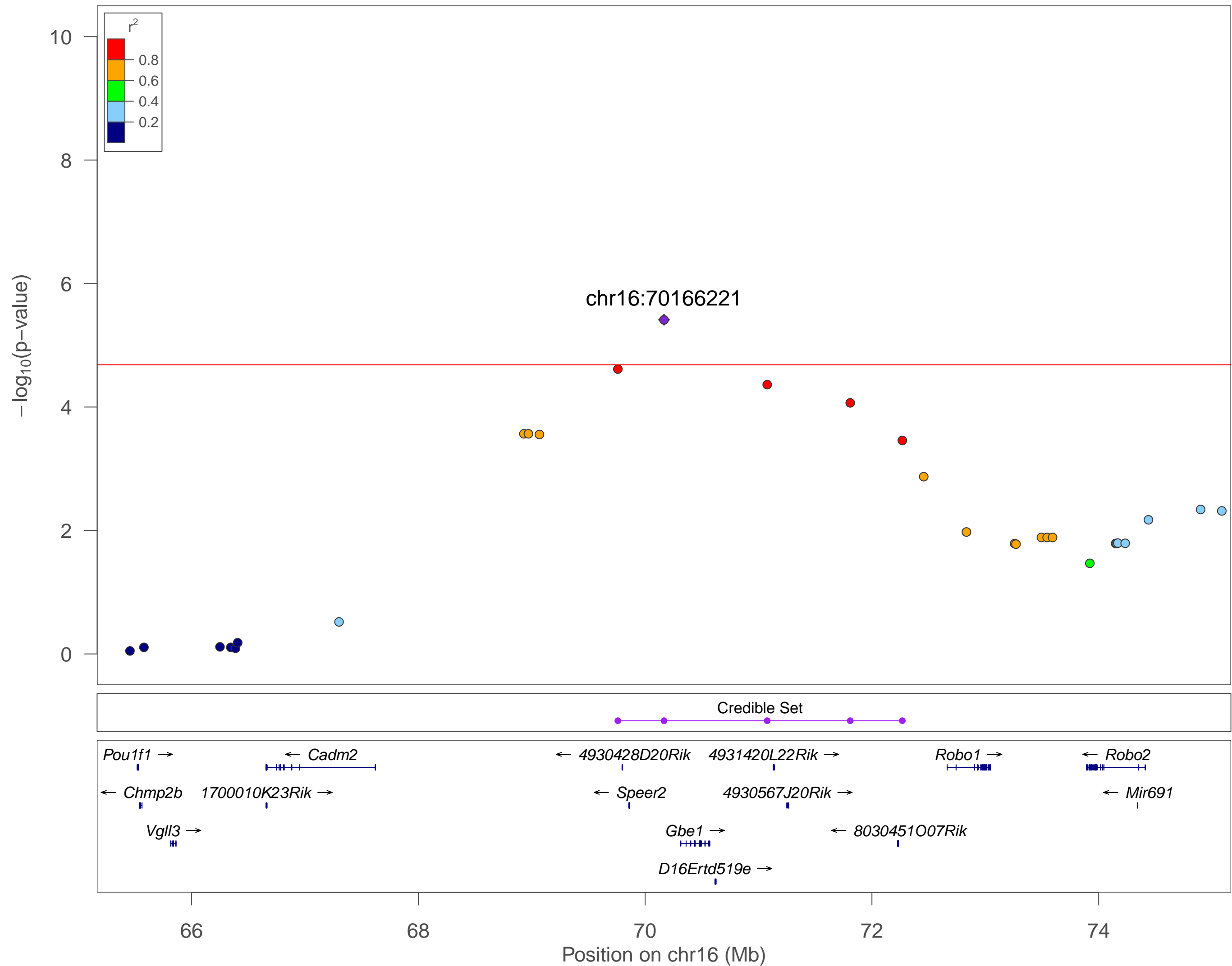
Position on chr12 (Mb)

date: Thu Oct 25 16:44:56 2018
build: F34Array
display range: chr12:26468914–36468914 [26468914–36468914]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:31468914
number of SNPs plotted: 26
min P-value: 1.16E–5 [chr12:31468914]
max P-value: 8.11E–1 [chr12:36210830]
omitted Genes: Rnaseh1, Adi1, Mir6937
omitted Genes: Trappc12, Tssc1, Sntg2
omitted Genes: 2310016D03Rik, Fam110c, 6030469F06Rik
omitted Genes: Lamb1, Slc26a3, Cbll1
omitted Genes: Slc26a4, Gpr22, Prkar2b
omitted Genes: Pik3cg, Sypl, Cdhr3
omitted Genes: F730043M19Rik, Atxn7l1os2, Efcab10
omitted Genes: Twistnb, 9130015A21Rik, Tspan13
omitted Genes: Ankmy2, Lrrc72, Sostdc1
omitted Genes: lspd

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:31468914	12	31.46891	1	Credible Set	purple

F34 Array, routine CBC hemoglobin distribution width



date: Thu Oct 25 16:45:02 2018

build: F34Array

display range: chr16:65166221–75166221 [65166221–75166221]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:70166221

number of SNPs plotted: 31

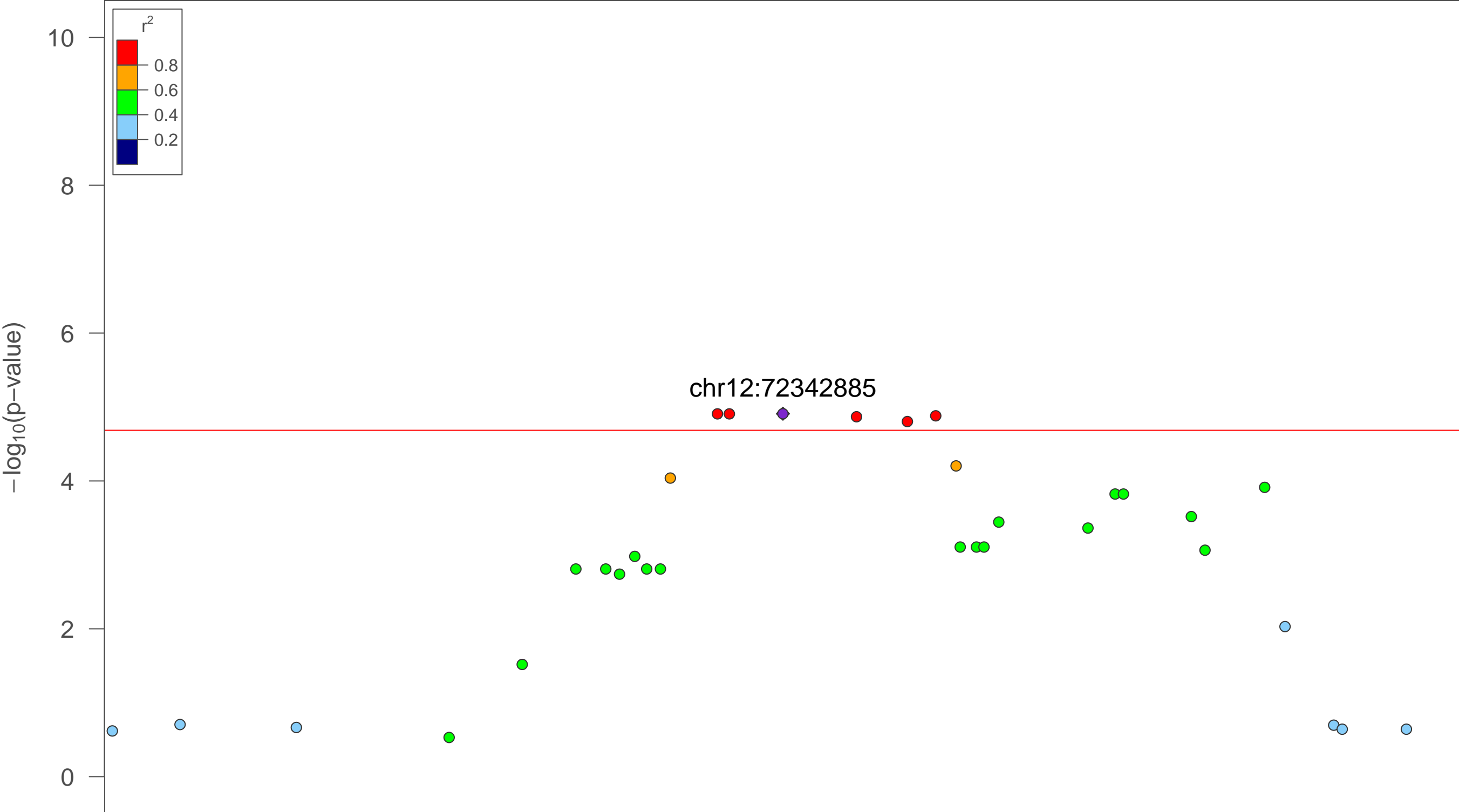
min P-value: 3.86E–6 [chr16:70166221]

max P-value: 8.91E–1 [chr16:65456201]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:69759143	16	69.75914	0.12904633	Credible Set	purple
chr16:70166221	16	70.16622	0.74694638	Credible Set	purple
chr16:71076501	16	71.07650	0.07445709	Credible Set	purple
chr16:71808739	16	71.80874	0.03909493	Credible Set	purple
chr16:72268105	16	72.26811	0.01045527	Credible Set	purple

F34 Array, routine CBC mean platelet volume



Credible Set

← *Rps29* → *Atf1* → *Frmd6* → *Daam1* → ← *Dhrs7* ← *Tmem30b* ← *Kcnh5* *Syne2* → ← *Sptb*
← *Rn7s1* → ← *Gm3086* → ← *Actr10* → ← *Gpr135* *Six6* → ← *Prkch* → ← *Rhoj* → ← *Esr2* ← *Gpx2*
← *Lrr1* → ← *Cdkl1* *Tmx1* → ← *Dact1* → ← *L3hypdh* ← *Six1* *Hif1a* → ← *Gphb5* ← *Tex21* *Fntb* →
← *Rpl36al* ← *Sav1* *Pasma3* → ← *Jkamp* → ← *Six4* *Snappc1* → ← *Ppp2r5e* *Akap5* → ← *Max*

60 genes
omitted

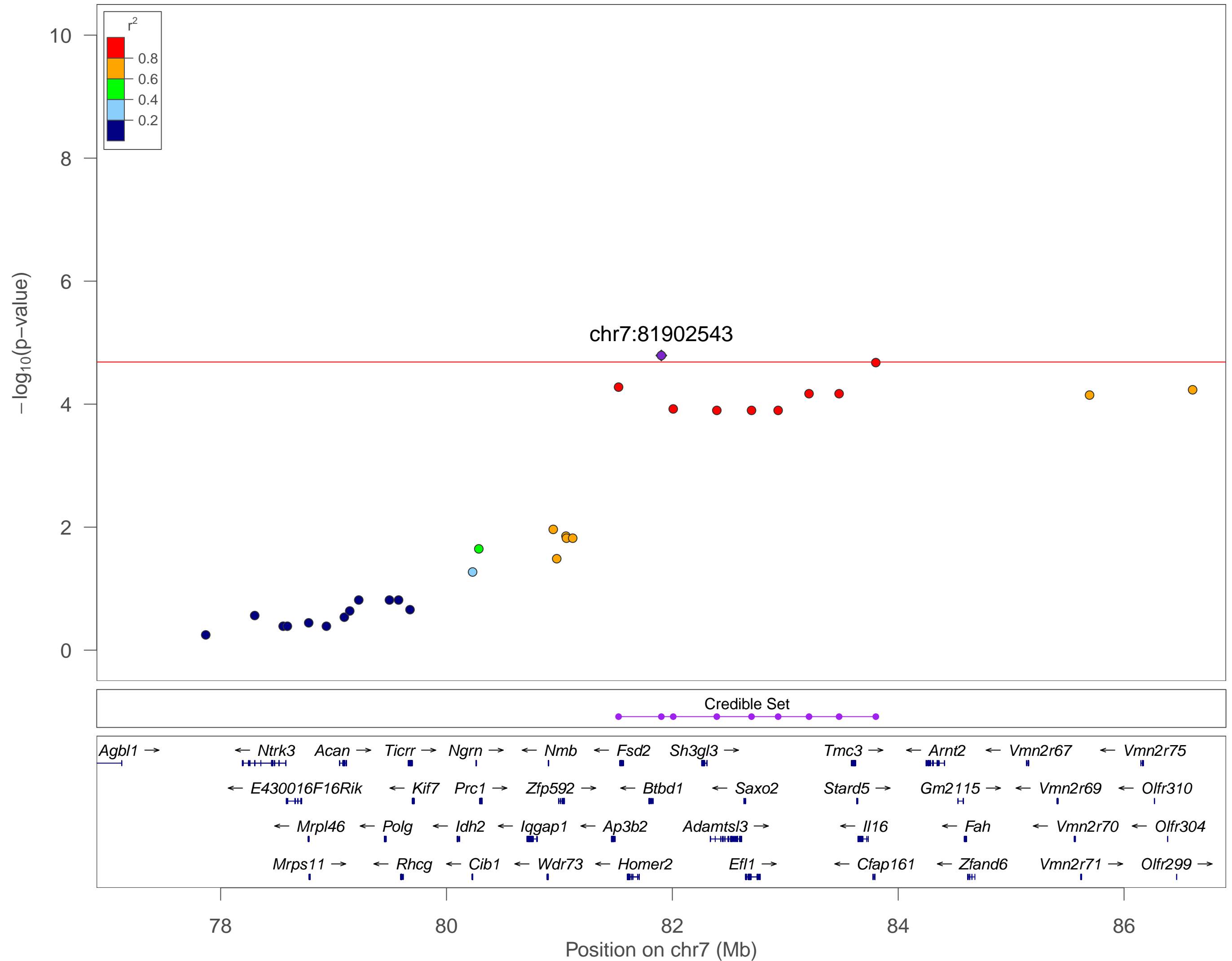
Position on chr12 (Mb)

date: Thu Oct 25 16:45:17 2018
build: F34Array
display range: chr12:67342885–77342885 [67342885–77342885]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:72342885
number of SNPs plotted: 34
min P-value: 1.23E–5 [chr12:72342885]
max P-value: 2.95E–1 [chr12:69883335]
omitted Genes: Mgat2, Dnaaf2, 9330151L19Rik
omitted Genes: Pole2, Klhdc1, Klhdc2
omitted Genes: Nemf, Rn7s2, Arf6
omitted Genes: 5830428M24Rik, Vcpkmt, Sos2
omitted Genes: L2hgdh, Atp5s, Mir681
omitted Genes: 4930512B01Rik, Map4k5, 4931403G20Rik
omitted Genes: Nin, Abhd12b, Pygl
omitted Genes: F730035M05Rik, Trim9, 3110056K07Rik
omitted Genes: Arid4a, Tomm20l, Timm9
omitted Genes: 2700049A03Rik, 1700083H02Rik, 4930404H11Rik
omitted Genes: Ccdc175, Rtn1, Lrrc9
omitted Genes: Pcnx4, Ppm1a, 4930447C04Rik
omitted Genes: Mnat1, Trmt5, Slc38a6
omitted Genes: D830013O20Rik, 2210039B01Rik, Syt16
omitted Genes: 1700086L19Rik, Dbpht2, Wdr89
omitted Genes: Rplp2-ps1, Sgpp1, Mir5101
omitted Genes: Mthfd1, Zbtb25, Zbtb1
omitted Genes: Hspa2, Ppp1r36, Gm10451
omitted Genes: Mir5135, Plekhg3, AI463170
omitted Genes: Churc1, Rab15, Fut8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:71860639	12	71.86064	0.1766683	Credible Set	purple
chr12:71948169	12	71.94817	0.1766683	Credible Set	purple
chr12:72342885	12	72.34288	0.1773017	Credible Set	purple
chr12:72885260	12	72.88526	0.1621440	Credible Set	purple
chr12:73260123	12	73.26012	0.1405488	Credible Set	purple
chr12:73468910	12	73.46891	0.1666690	Credible Set	purple

F34 Array, routine WBC differential white blood cell count

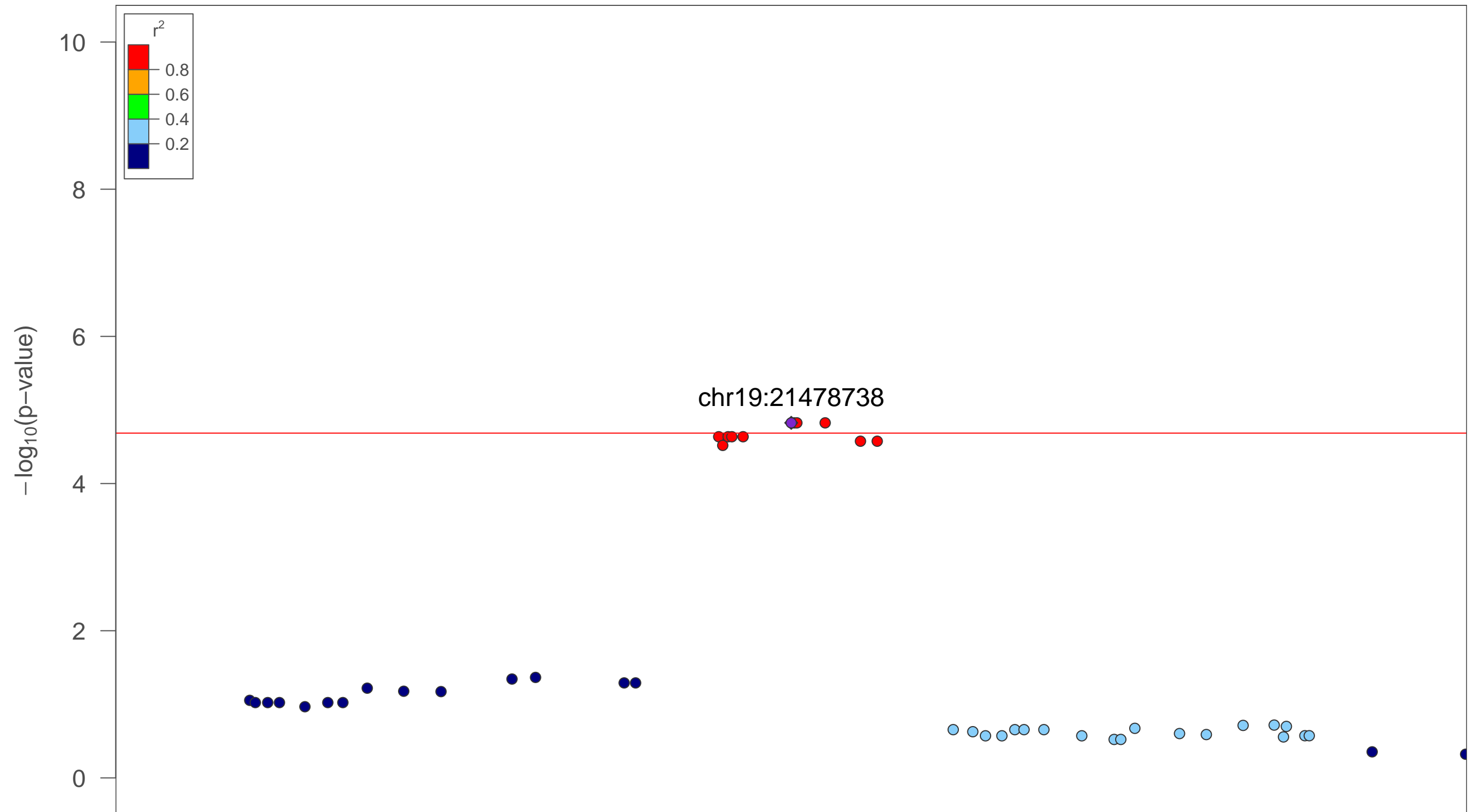


date: Thu Oct 25 16:45:32 2018
build: F34Array
display range: chr7:76902543–86902543 [76902543–86902543]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:81902543
number of SNPs plotted: 31
min P-value: 1.62E–5 [chr7:81902543]
max P-value: 5.64E–1 [chr7:77868097]
omitted Genes: Det1, Mir7–2, Aen
omitted Genes: Isg20, Gm26633, Hapln3
omitted Genes: Mfge8, Abhd2, Rlbp1
omitted Genes: Fanci, Mir9–3hg, Mir9–3
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Sema4b, Gdpgp1
omitted Genes: Ttl13, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Blm
omitted Genes: Crtc3, Gm15880, Zscan2
omitted Genes: Sec11a, Alpk3, Slc28a1
omitted Genes: Pde8a, Rps17, Cpeb1
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr298, Olfr297, Olfr295
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77

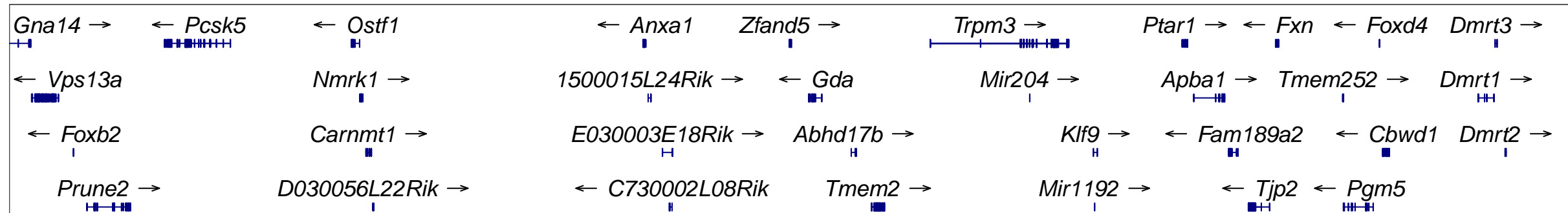
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81523675	7	81.52367	0.10160705	Credible Set	purple
chr7:81902543	7	81.90254	0.31339737	Credible Set	purple
chr7:82007699	7	82.00770	0.04694282	Credible Set	purple
chr7:82393693	7	82.39369	0.04460747	Credible Set	purple
chr7:82701107	7	82.70111	0.04460747	Credible Set	purple
chr7:82936666	7	82.93667	0.04460747	Credible Set	purple
chr7:83210268	7	83.21027	0.08050627	Credible Set	purple
chr7:83476529	7	83.47653	0.08050627	Credible Set	purple
chr7:83801589	7	83.80159	0.24321781	Credible Set	purple

F34 Array, routine WBC differential white blood cell count



Credible Set



18 genes
omitted

18

20

22

24

26

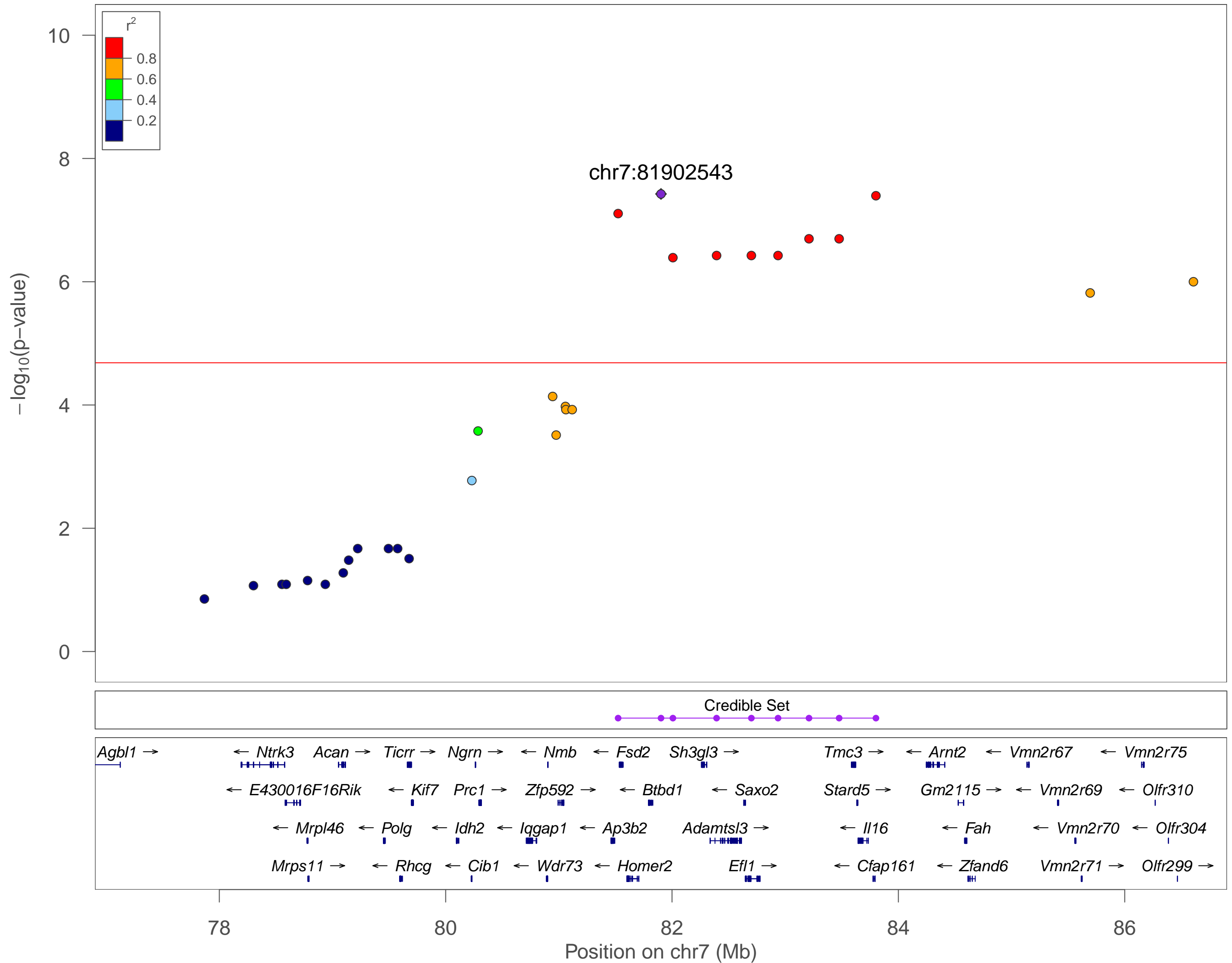
Position on chr19 (Mb)

date: Thu Oct 25 16:45:24 2018
build: F34Array
display range: chr19:16478738–26478738 [16478738–26478738]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr19:21478738
number of SNPs plotted: 47
min P-value: 1.5E–5 [chr19:21478738]
max P-value: 4.76E–1 [chr19:26470094]
omitted Genes: Gcnt1, Rfk, Trpm6
omitted Genes: Rorb, Aldh1a1, Aldh1a7
omitted Genes: Tmc1, 4930554I06Rik, 1110059E24Rik
omitted Genes: Smc5, Mamdc2, 1700028P14Rik
omitted Genes: Pip5k1b, Fam122a, Mir3084–1
omitted Genes: Dock8, Kank1, 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20941927	19	20.94193	0.07955138	Credible Set	purple
chr19:20971640	19	20.97164	0.06146381	Credible Set	purple
chr19:21011731	19	21.01173	0.07955138	Credible Set	purple
chr19:21038918	19	21.03892	0.07955138	Credible Set	purple
chr19:21122136	19	21.12214	0.07955138	Credible Set	purple
chr19:21478738	19	21.47874	0.12027742	Credible Set	purple
chr19:21500356	19	21.50036	0.12027742	Credible Set	purple
chr19:21520189	19	21.52019	0.12027742	Credible Set	purple
chr19:21729752	19	21.72975	0.12027742	Credible Set	purple
chr19:21991002	19	21.99100	0.06961049	Credible Set	purple
chr19:22115053	19	22.11505	0.06961049	Credible Set	purple

F34 Array, routine WBC differential lymphocyte number

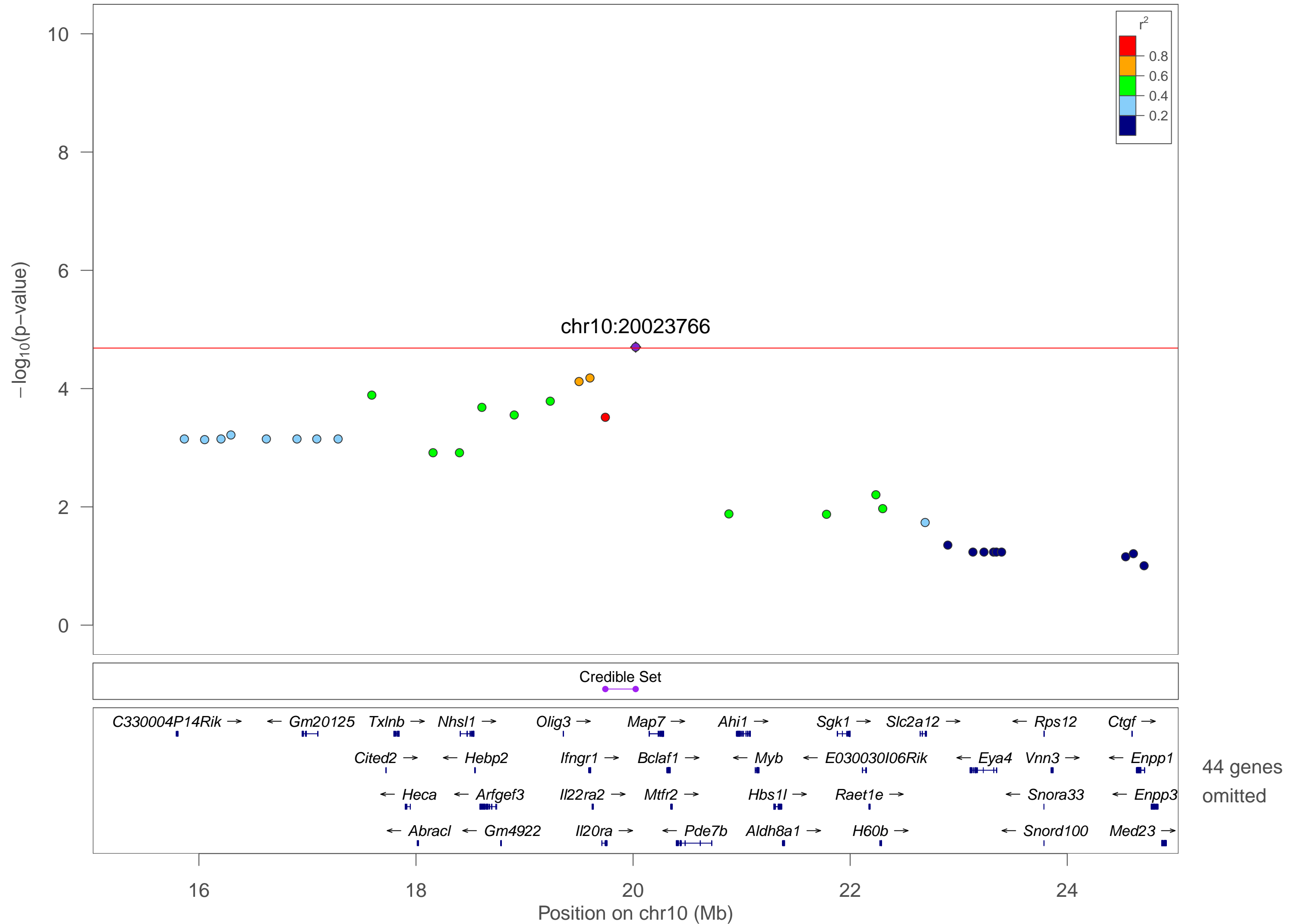


date: Thu Oct 25 16:45:40 2018
build: F34Array
display range: chr7:76902543–86902543 [76902543–86902543]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:81902543
number of SNPs plotted: 31
min P-value: 3.76E–8 [chr7:81902543]
max P-value: 1.4E–1 [chr7:77868097]
omitted Genes: Det1, Mir7–2, Aen
omitted Genes: Isg20, Gm26633, Hapln3
omitted Genes: Mfge8, Abhd2, Rlbp1
omitted Genes: Fanci, Mir9–3hg, Mir9–3
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Sema4b, Gdpgp1
omitted Genes: Ttll13, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Blm
omitted Genes: Crtc3, Gm15880, Zscan2
omitted Genes: Sec11a, Alpk3, Slc28a1
omitted Genes: Pde8a, Rps17, Cpeb1
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr298, Olfr297, Olfr295
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81523675	7	81.52367	0.15135341	Credible Set	purple
chr7:81902543	7	81.90254	0.30774554	Credible Set	purple
chr7:82007699	7	82.00770	0.03078917	Credible Set	purple
chr7:82393693	7	82.39369	0.03325479	Credible Set	purple
chr7:82701107	7	82.70111	0.03325479	Credible Set	purple
chr7:82936666	7	82.93667	0.03325479	Credible Set	purple
chr7:83210268	7	83.21027	0.06082235	Credible Set	purple
chr7:83476529	7	83.47653	0.06082235	Credible Set	purple
chr7:83801589	7	83.80159	0.28870281	Credible Set	purple

F34 Array, routine WBC differential monocyte percentage

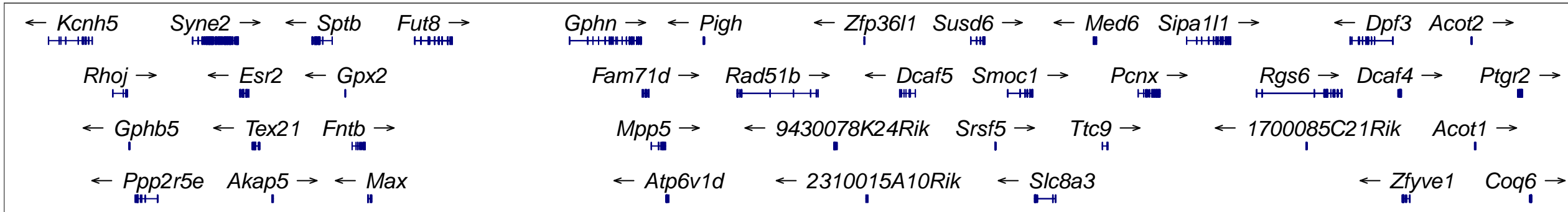
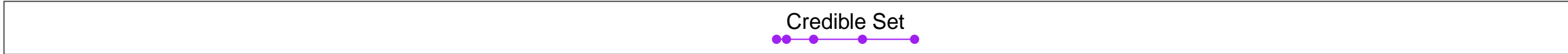
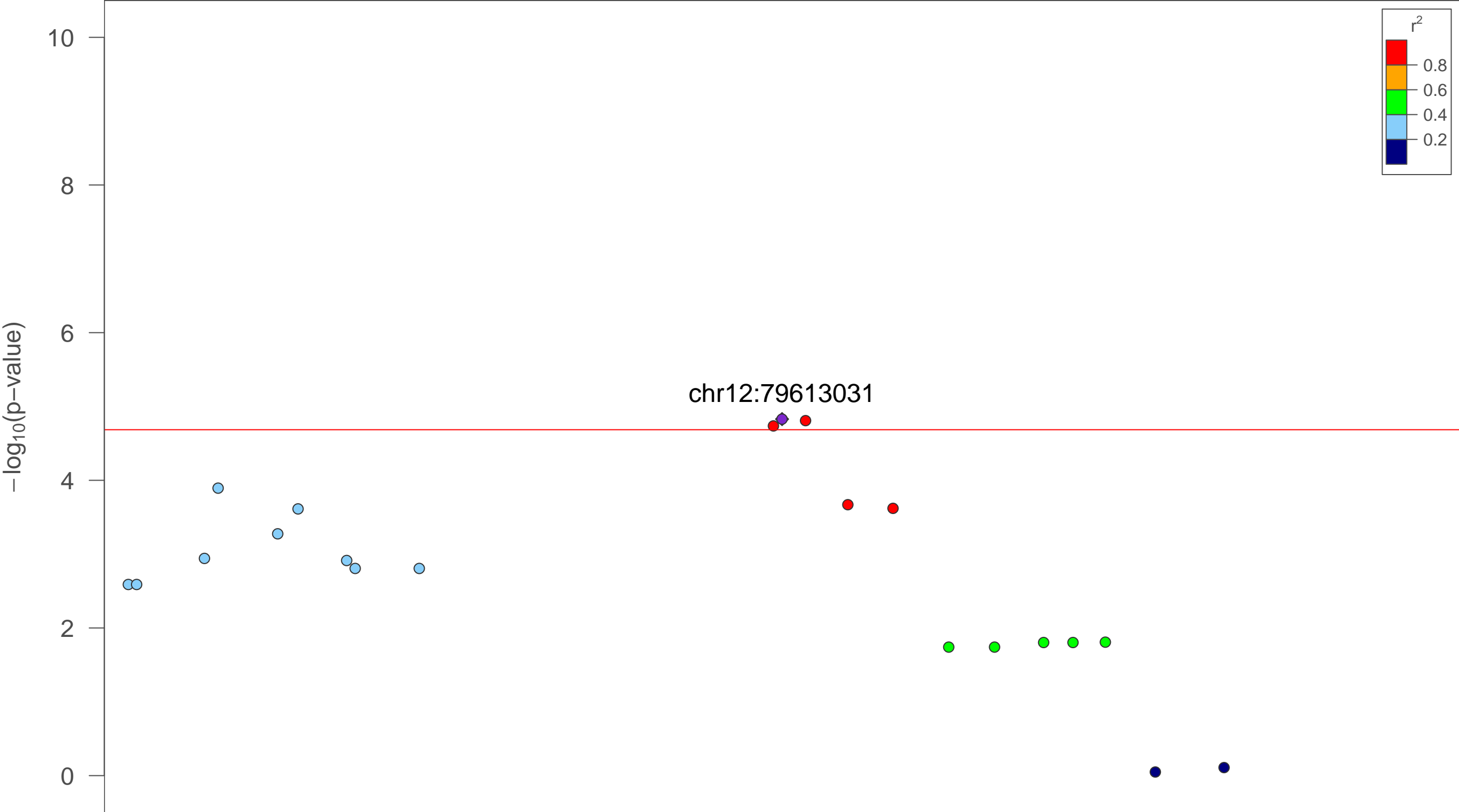


date: Thu Oct 25 16:45:48 2018
build: F34Array
display range: chr10:15023766–25023766 [15023766–25023766]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:20023766
number of SNPs plotted: 33
min P-value: 1.99E–5 [chr10:20023766]
max P-value: 9.9E–2 [chr10:24708091]
omitted Genes: Repts1, Ect2l, Ccdc28a
omitted Genes: 4930444F02Rik, Perp, Tnfaip3
omitted Genes: Gm20139, Slc35d3, Pex7
omitted Genes: Map3k5, 4930405J17Rik, Rpl32l
omitted Genes: Mir6413, 4930455C13Rik, 1700020N01Rik
omitted Genes: Gm5420, 4930444G20Rik, C920009B18Rik
omitted Genes: Raet1d, Gm10825, Tbp1l
omitted Genes: Mir7663, Tcf21, Slc18b1
omitted Genes: Vnn1, Taar1, Taar2
omitted Genes: Taar3, Taar4, Taar5
omitted Genes: Taar6, Taar7a, Taar7b
omitted Genes: Taar7d, Taar7e, Taar7f
omitted Genes: Taar8a, Taar8b, Taar8c
omitted Genes: Taar9, Stx7, Moxd1
omitted Genes: Mir6905, Arg1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:19744511	10	19.74451	0.0702341	Credible Set	purple
chr10:20023766	10	20.02377	0.9297659	Credible Set	purple

F34 Array, routine WBC differential monocyte percentage



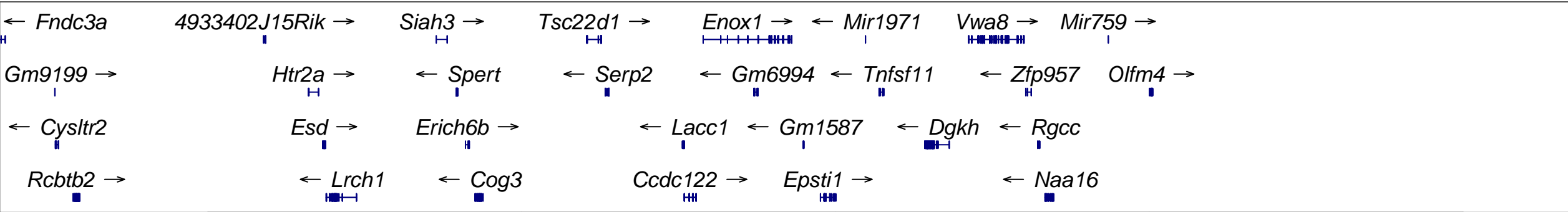
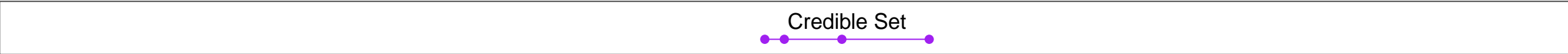
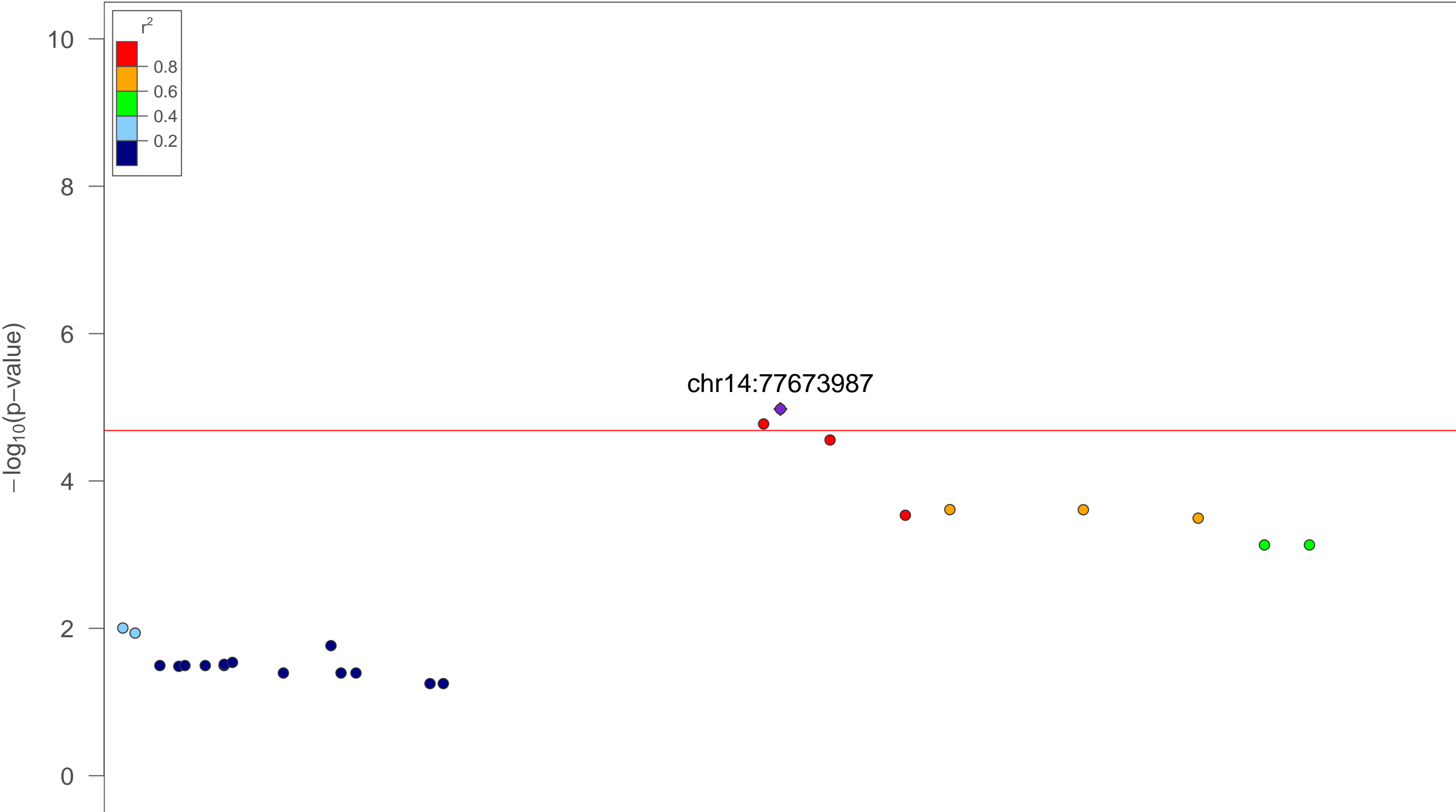
68 genes
omitted

date: Thu Oct 25 16:45:56 2018
build: F34Array
display range: chr12:74613031–84613031 [74613031–84613031]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:79613031
number of SNPs plotted: 22
min P-value: 1.48E–5 [chr12:79613031]
max P-value: 8.93E–1 [chr12:82366650]
omitted Genes: Wdr89, Rplp2-ps1, Sgpp1
omitted Genes: Mir5101, Mthfd1, Zbtb25
omitted Genes: Zbtb1, Hspa2, Ppp1r36
omitted Genes: Gm10451, Mir5135, Plekhg3
omitted Genes: Al463170, Churc1, Rab15
omitted Genes: Eif2s1, Plek2, Tmem229b
omitted Genes: Plekhh1, 9230116L04Rik, Arg2
omitted Genes: Vti1b, Rdh11, Rdh12
omitted Genes: Zfyve26, Actn1, Mir1843a
omitted Genes: Scarna3b, Exd2, 2310002D06Rik
omitted Genes: Galnt16, Erh, Slc39a9
omitted Genes: Plekhd1os, Plekhd1, Ccdc177
omitted Genes: 1700052I22Rik, Gm20337, Slc10a1
omitted Genes: Mir3067, Cox16, Synj2bp-cox16
omitted Genes: Gm4787, Adam4, Synj2bp
omitted Genes: Adam21, Map3k9, Rbm25
omitted Genes: Psen1, Papln, Numb
omitted Genes: 2410016O06Rik, Acot4, Acot3
omitted Genes: Acot5, Acot6, Dnal1
omitted Genes: Pnma1, Elmsan1, Zfp410
omitted Genes: Fam161b, Entpd5, Bbof1
omitted Genes: Rnf113a2, Aldh6a1, Lin52
omitted Genes: Vsx2, Abcd4

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:79549412	12	79.54941	0.27927771	Credible Set	purple
chr12:79613031	12	79.61303	0.34193524	Credible Set	purple
chr12:79786451	12	79.78645	0.32692496	Credible Set	purple
chr12:80098407	12	80.09841	0.02731771	Credible Set	purple
chr12:80431588	12	80.43159	0.02454438	Credible Set	purple

F34 Array, routine WBC differential monocyte percentage



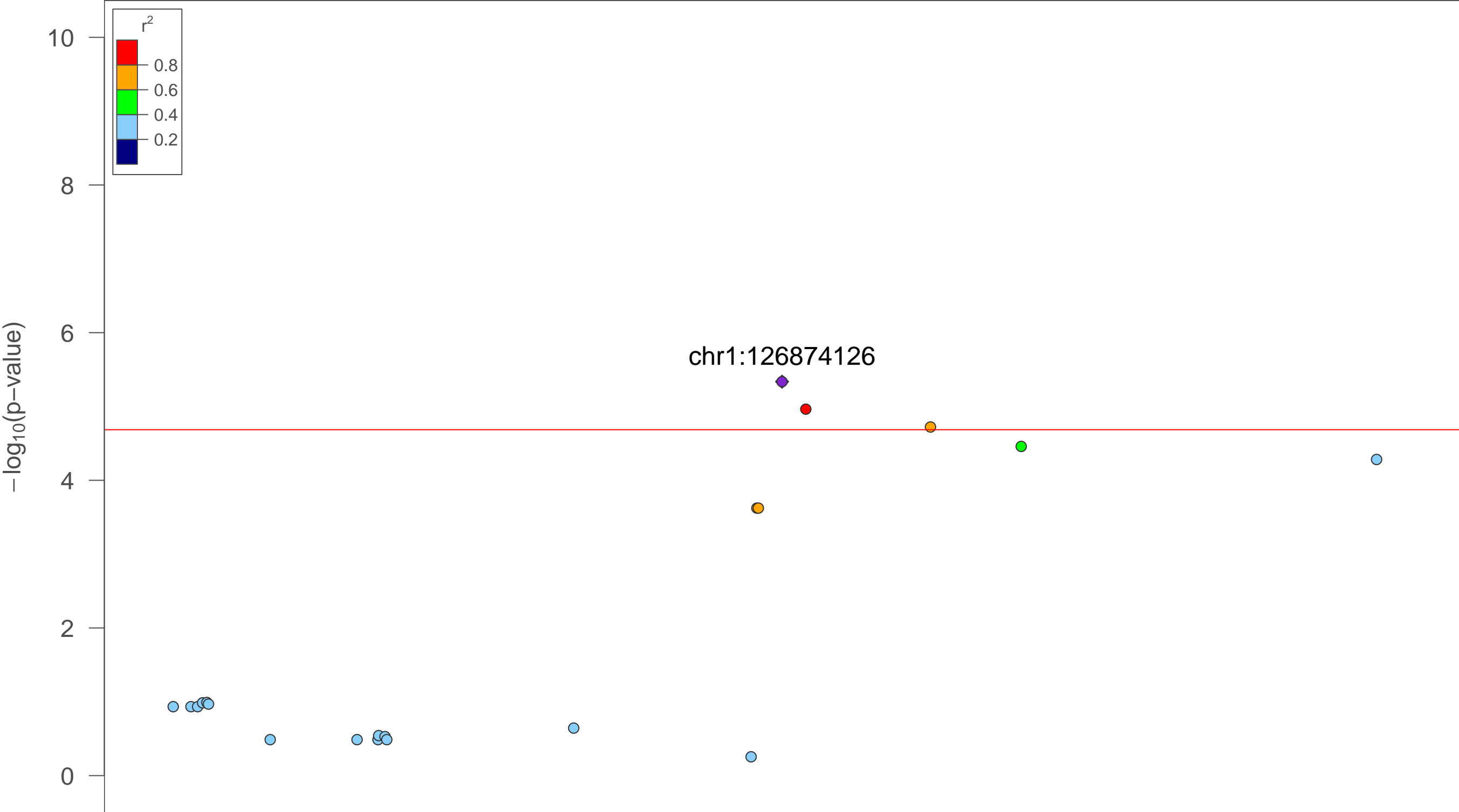
36 genes
omitted

date: Thu Oct 25 16:46:03 2018
build: F34Array
display range: chr14:72673987–82673987 [72673987–82673987]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:77673987
number of SNPs plotted: 25
min P-value: 1.06E–5 [chr14:77673987]
max P-value: 5.62E–2 [chr14:75083773]
omitted Genes: Rb1, Mir687, Lpar6
omitted Genes: Itm2b, Med4, Nudt15
omitted Genes: Sucla2, Gm4278, 5031414D18Rik
omitted Genes: Lrrc63, Lcp1, Cpb2
omitted Genes: Zc3h13, Slc25a30, Gm4285
omitted Genes: Tpt1, Snora31, Gtf2f2
omitted Genes: Kctd4, Gpalpp1, Nufip1
omitted Genes: 4930444M15Rik, 1700108F19Rik, Dnajc15
omitted Genes: Fam216b, Akap11, Mtrf1
omitted Genes: Kbtbd7, Kbtbd6, Wbp4
omitted Genes: Elf1, Sugt1, Lect1
omitted Genes: 4930452G13Rik, Pcdh8, Gm10845

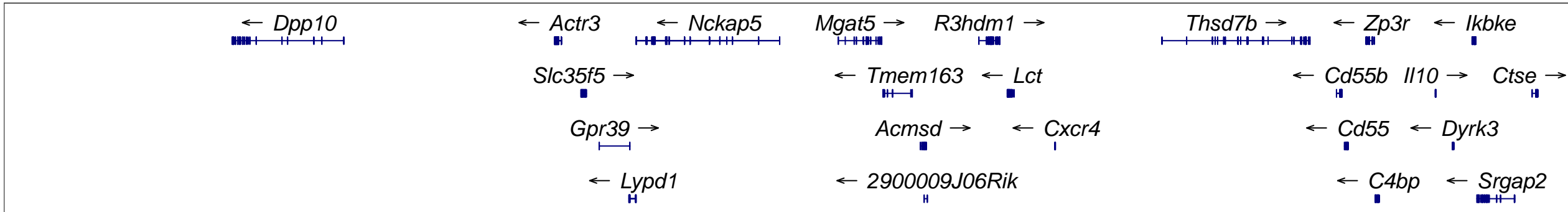
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:77549688	14	77.54969	0.30787002	Credible Set	purple
chr14:77673987	14	77.67399	0.48026350	Credible Set	purple
chr14:78040815	14	78.04081	0.19112811	Credible Set	purple
chr14:78597230	14	78.59723	0.02073838	Credible Set	purple

F34 Array, routine WBC differential eosinophil percentage



Credible Set



28 genes
omitted

122

124

126

128

130

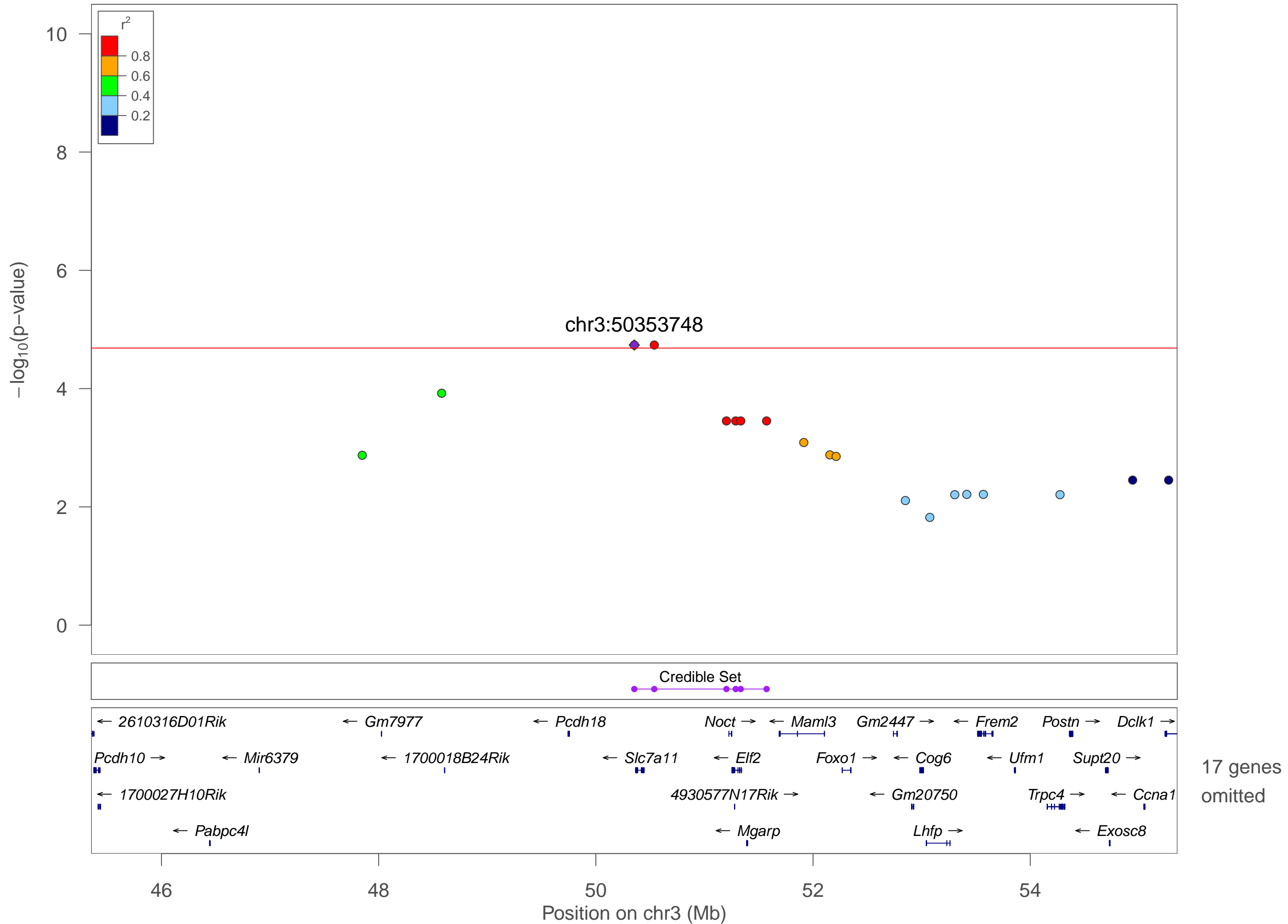
Position on chr1 (Mb)

date: Thu Oct 25 16:46:17 2018
build: F34Array
display range: chr1:121874126–131874126 [121874126–131874126]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:126874126
number of SNPs plotted: 22
min P-value: 4.61E–6 [chr1:126874126]
max P-value: 5.56E–1 [chr1:126645886]
omitted Genes: Ccnt2, Map3k19, Rab3gap1
omitted Genes: Zranb3, Mir128–1, Ubxn4
omitted Genes: Mcm6, Dars, C4bp–ps1
omitted Genes: Pfkfb2, Yod1, AA986860
omitted Genes: Fcamr, Pigr, Fcmr
omitted Genes: Il24, Il20, Il19
omitted Genes: Mapkapk2, Eif2d, Rassf5
omitted Genes: Fam72a, Avpr1b, Rab7b
omitted Genes: Slc26a9, Pm20d1, Slc41a1
omitted Genes: Rab29

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:126874126	1	126.8741	0.694067	Credible Set	purple
chr1:127049404	1	127.0494	0.305933	Credible Set	purple

F34 Array, routine WBC differential large unstained cell number



date: Thu Oct 25 16:46:24 2018

build: F34Array

display range: chr3:45353748–55353748 [45353748–55353748]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:50353748

number of SNPs plotted: 20

min P-value: 1.83E–5 [chr3:50353748]

max P-value: 1.51E–2 [chr3:53074908]

omitted Genes: Ndufc1, Naa15, Rab33b

omitted Genes: Setd7, 5031434O11Rik, Mgst2

omitted Genes: Nhlrc3, Proser1, Stoml3

omitted Genes: Alg5, Smad9, Rfxap

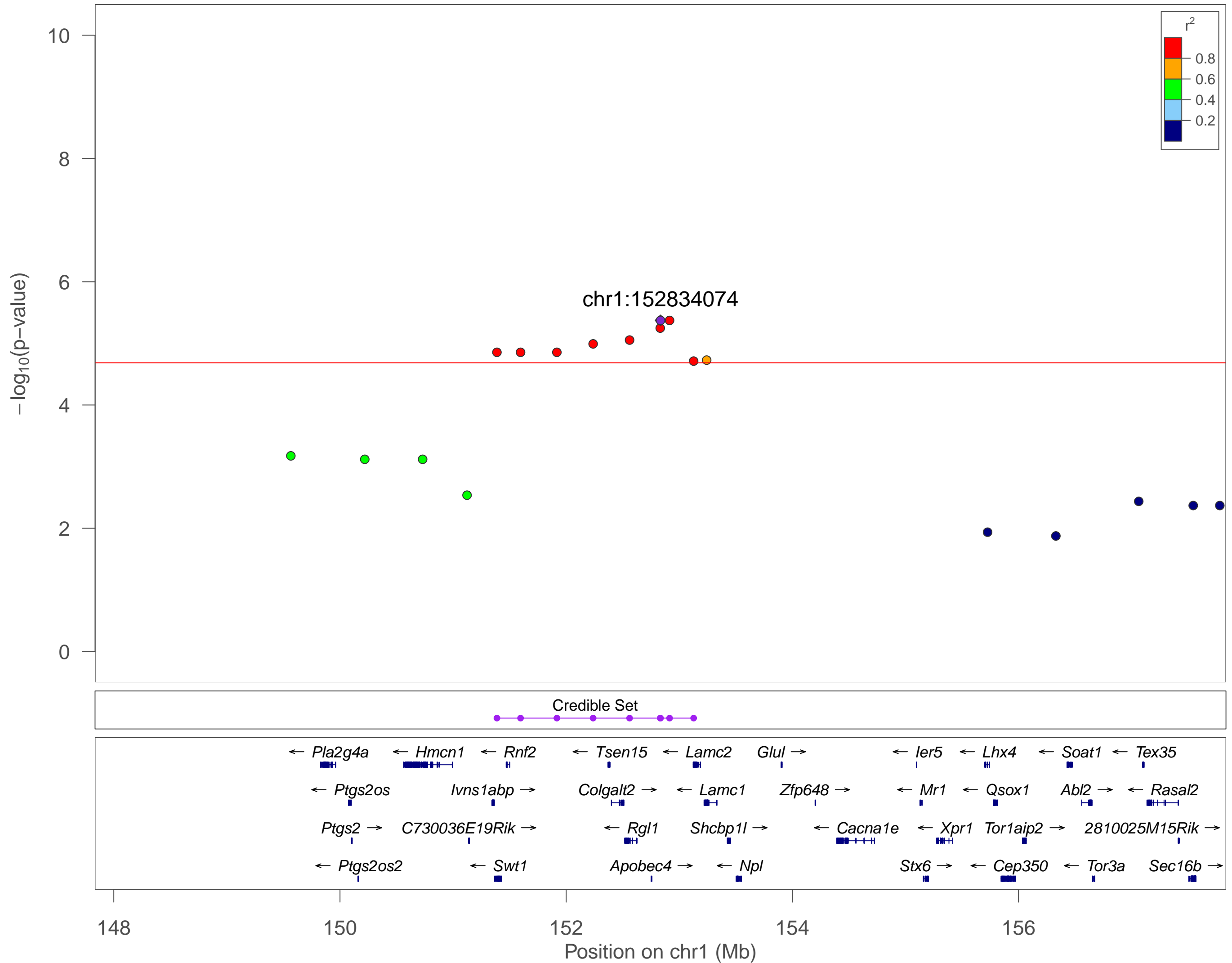
omitted Genes: Sertm1, 4931419H13Rik, Spg20

omitted Genes: Ccdc169, Sohlh2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:50353748	3	50.35375	0.44546368	Credible Set	purple
chr3:50537878	3	50.53788	0.44546368	Credible Set	purple
chr3:51202322	3	51.20232	0.02726816	Credible Set	purple
chr3:51287862	3	51.28786	0.02726816	Credible Set	purple
chr3:51333971	3	51.33397	0.02726816	Credible Set	purple
chr3:51571920	3	51.57192	0.02726816	Credible Set	purple

F34 Array, retic parameters reticulocyte percent

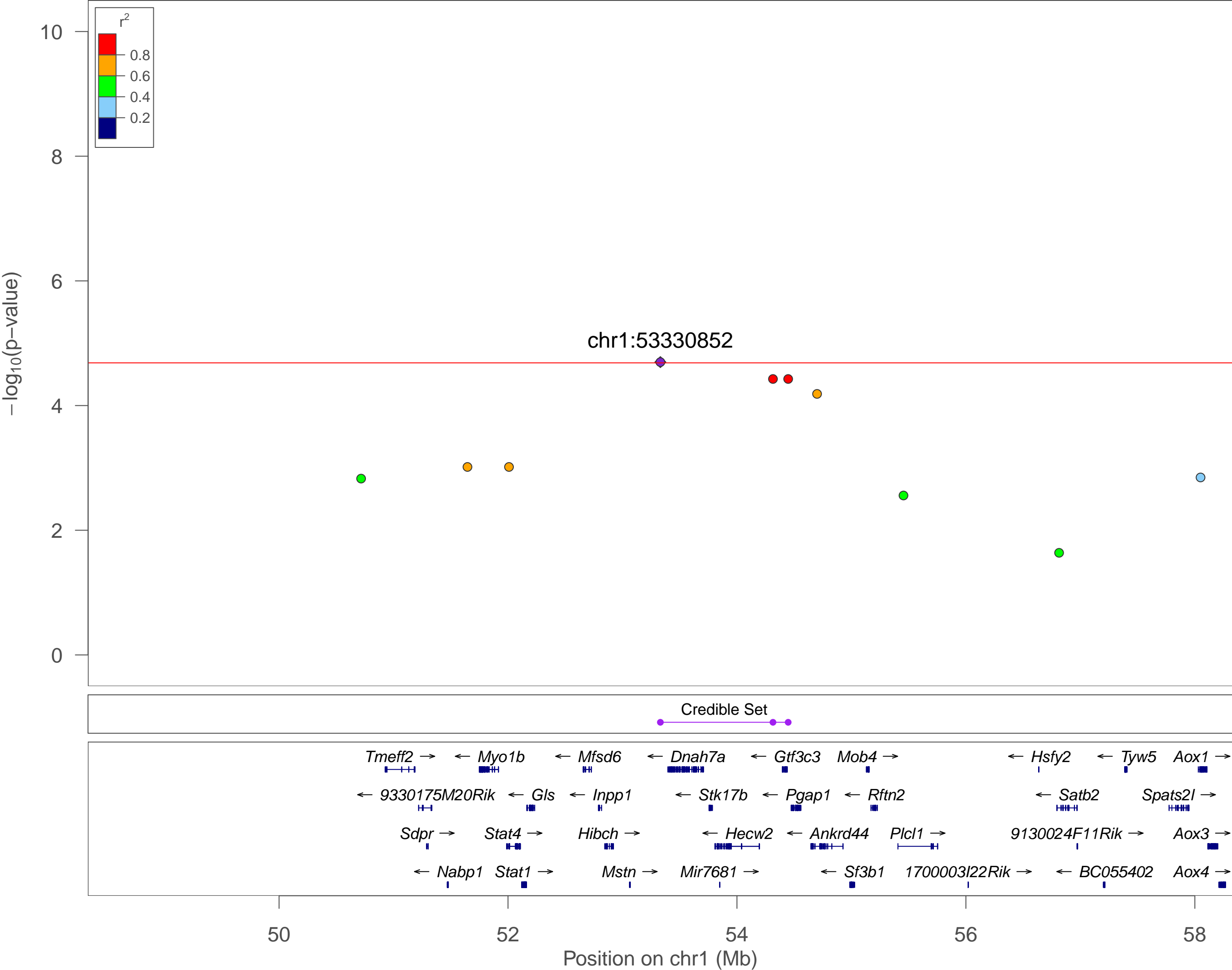


date: Thu Oct 25 16:46:31 2018
build: F34Array
display range: chr1:147834074–157834074 [147834074–157834074]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:152834074
number of SNPs plotted: 20
min P-value: 4.24E–6 [chr1:152834074]
max P-value: 1.33E–2 [chr1:156329965]
omitted Genes: Pdc, 2310030A07Rik, BC003331
omitted Genes: Tpr, Prg4, Trmt1l
omitted Genes: Mir7682, Fam129a, Edem3
omitted Genes: 1700025G04Rik, Arpc5, Ncf2
omitted Genes: Smg7, Nmnat2, E330020D12Rik
omitted Genes: Dhx9, Rgs8, C230024C17Rik
omitted Genes: Rgs16, Rnasel, Rgs1
omitted Genes: Teddm2, Teddm1b, Teddm1a
omitted Genes: Mir8114, 4930452N14Rik, 4930532M18Rik
omitted Genes: Gm5532, Acbd6, Tor1aip1
omitted Genes: Fam163a, Tdrd5, Nphs2
omitted Genes: Fam20b, Ralgps2, Angptl1
omitted Genes: BC026585

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:151387651	1	151.3877	0.06561180	Credible Set	purple
chr1:151596615	1	151.5966	0.06561180	Credible Set	purple
chr1:151917608	1	151.9176	0.06561180	Credible Set	purple
chr1:152238182	1	152.2382	0.08858970	Credible Set	purple
chr1:152560587	1	152.5606	0.10155521	Credible Set	purple
chr1:152831634	1	152.8316	0.15553687	Credible Set	purple
chr1:152834074	1	152.8341	0.20476992	Credible Set	purple
chr1:152914150	1	152.9142	0.20476992	Credible Set	purple
chr1:153126949	1	153.1269	0.04794298	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes

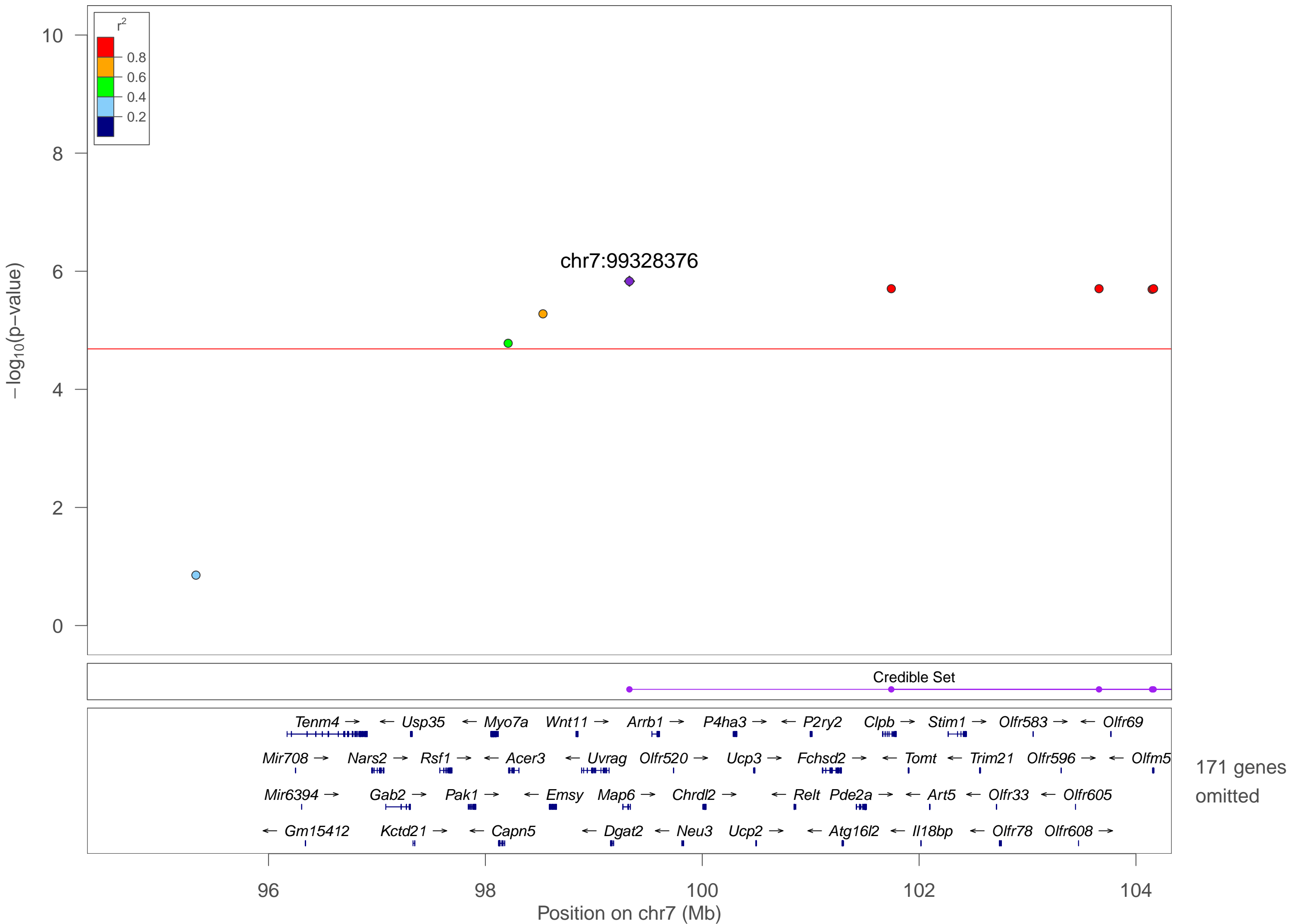


date: Thu Oct 25 16:46:38 2018
build: F34Array
display range: chr1:48330852–58330852 [48330852–58330852]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:53330852
number of SNPs plotted: 11
min P-value: 2.01E–5 [chr1:53330852]
max P-value: 2.3E–2 [chr1:56814006]
omitted Genes: Nab1, Tmem194b, 1700019D03Rik
omitted Genes: 1700019A02Rik, Pms1, Ormdl1
omitted Genes: Osgepl1, Asnsd1, Ccdc150
omitted Genes: Coq10b, Hspd1, Hspe1
omitted Genes: Mars2, Boll, Gm6644
omitted Genes: 9130227L01Rik, 4930558J18Rik, 1700066M21Rik
omitted Genes: 9430016H08Rik, Kctd18, Sgol2a
omitted Genes: Aox2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:53330852	1	53.33085	0.4747306	Credible Set	purple
chr1:54314429	1	54.31443	0.2626347	Credible Set	purple
chr1:54447274	1	54.44727	0.2626347	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes



date: Thu Oct 25 16:46:56 2018

build: F34Array

display range: chr7:94328376–104328376 [94328376–104328376]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:99328376

number of SNPs plotted: 9

min P-value: 1.48E–6 [chr7:99328376]

max P-value: 1.4E–1 [chr7:95330810]

omitted Genes: Gm15413, Alg8, Ndufc2

omitted Genes: Thrsp, Kctd14, Ints4

omitted Genes: Aamdc, Rsf1os1, Clns1a

omitted Genes: Aqp11, Gdpd4, Omp

omitted Genes: Gm16938, B3gnt6, Tsku

omitted Genes: Gucy2d, Lrrc32, Prkrir

omitted Genes: Mogat2, Gm26705, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr521

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekhh1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Phox2a, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr549, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

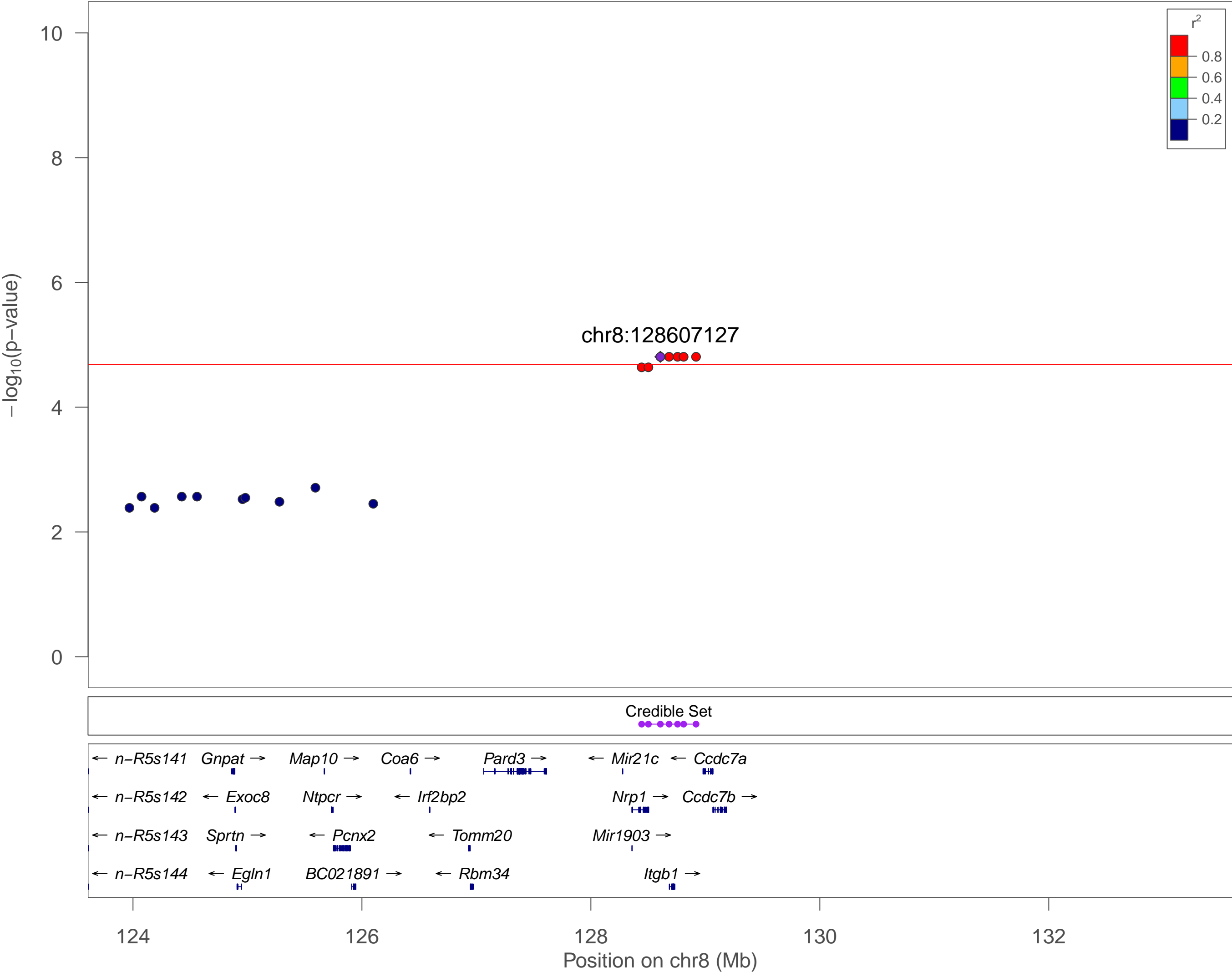
omitted Genes: Olfr569, Olfr570, Olfr571

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.2096164	Credible Set	purple
chr7:101743401	7	101.74340	0.1586110	Credible Set	purple
chr7:103659355	7	103.65936	0.1586110	Credible Set	purple
chr7:104149022	7	104.14902	0.1547811	Credible Set	purple
chr7:104162444	7	104.16244	0.1586110	Credible Set	purple
chr7:104581631	7	104.58163	0.1597694	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes

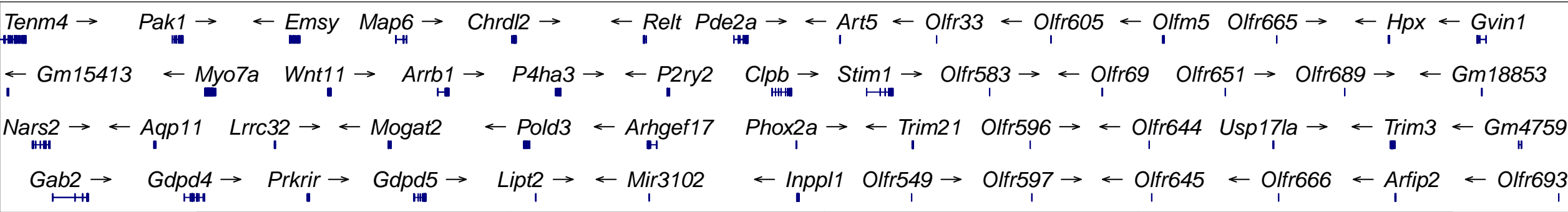
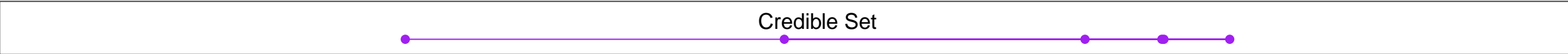
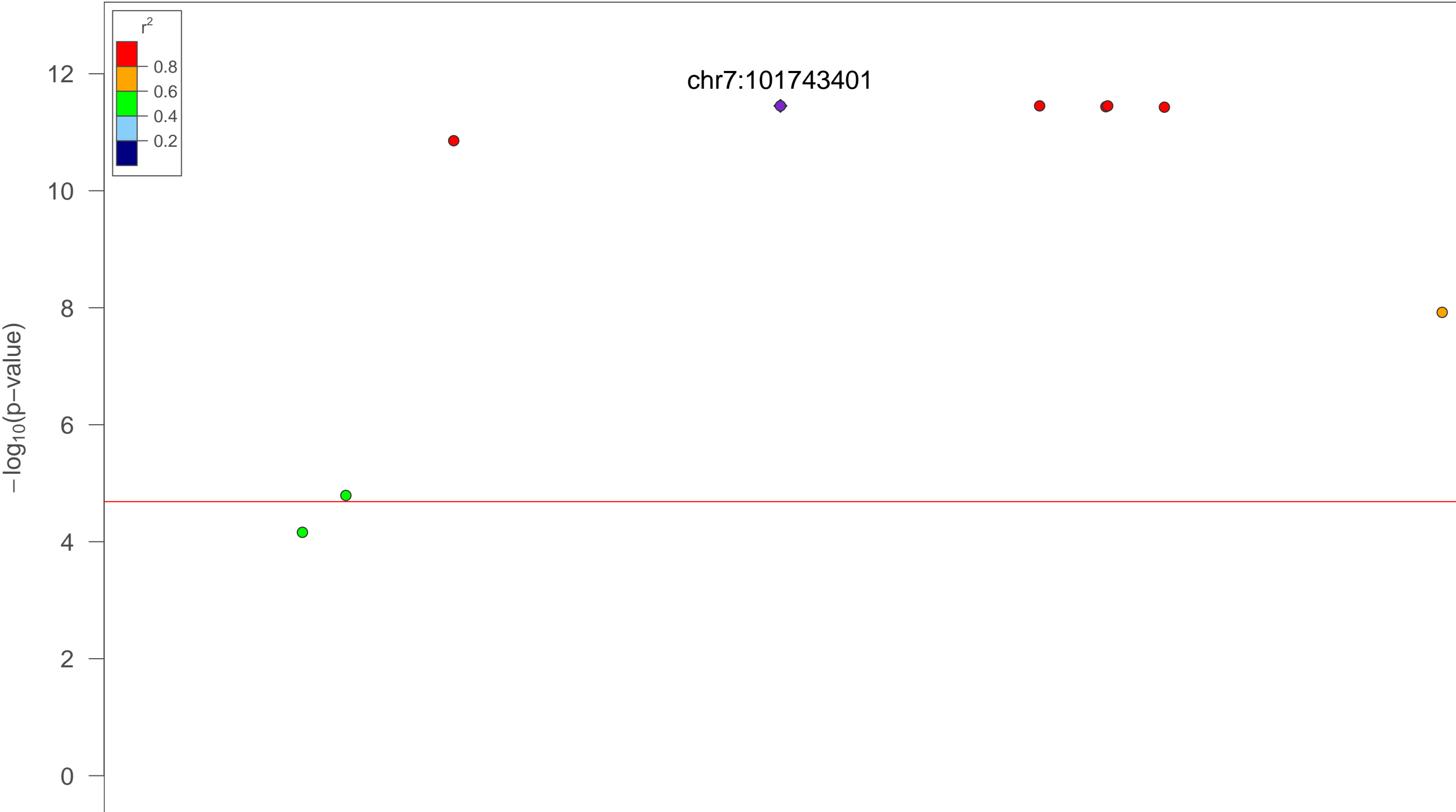


date: Thu Oct 25 16:47:03 2018
build: F34Array
display range: chr8:123607127–133607127 [123607127–133607127]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128607127
number of SNPs plotted: 18
min P-value: 1.56E–5 [chr8:128607127]
max P-value: 4.1E–3 [chr8:123968866]
omitted Genes: Gm25212, n-R5s146, Gm22291
omitted Genes: Gm23284, n-R5s149, Rhou
omitted Genes: 6030466F02Rik, Rab4a, Ccsap
omitted Genes: Acta1, Nup133, Abcb10
omitted Genes: Taf5l, Mir1967, Urb2
omitted Genes: Galnt2, Pgbd5, Cog2
omitted Genes: Agt, Capn9, 2310022B05Rik
omitted Genes: Ttc13, Arv1, Fam89a
omitted Genes: Trim67, 2810004N23Rik, Tsnax
omitted Genes: Disc1, Sipa1l2, 4930567H12Rik
omitted Genes: Kcnk1, Slc35f3, Gm17296
omitted Genes: 2610044O15Rik8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128443469	8	128.4435	0.1081470	Credible Set	purple
chr8:128502425	8	128.5024	0.1083470	Credible Set	purple
chr8:128607127	8	128.6071	0.1567012	Credible Set	purple
chr8:128683251	8	128.6833	0.1567012	Credible Set	purple
chr8:128757217	8	128.7572	0.1567012	Credible Set	purple
chr8:128810304	8	128.8103	0.1567012	Credible Set	purple
chr8:128918665	8	128.9187	0.1567012	Credible Set	purple

F34 Array, retic parameters mean reticulocyte volume



232 genes
omitted

date: Thu Oct 25 16:47:22 2018

build: F34Array

display range: chr7:96743401–106743401 [96743401–106743401]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:101743401

number of SNPs plotted: 10

min P-value: 3.54E–12 [chr7:101743401]

max P-value: 6.9E–5 [chr7:98210049]

omitted Genes: Usp35, Kctd21, Alg8

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Capn5

omitted Genes: Omp, Gm16938, B3gnt6

omitted Genes: Acer3, Tsku, Gucy2d

omitted Genes: Uvrag, Dgat2, Gm26705

omitted Genes: Serpinh1, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr520

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Ucp3, Ucp2

omitted Genes: Dnajb13, Coa4, Mrpl48

omitted Genes: Rab6a, Plekha7, Fam168a

omitted Genes: P2ry6, Fchs2, Atg16l2

omitted Genes: Stard10, Arap1, Mir139

omitted Genes: Art2a-ps, Art2b, Folr2

omitted Genes: Folr1, Anapc15, Tomt

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Il18bp, Rnf121, Xndc1

omitted Genes: Xntrpc, Trpc2, Art1

omitted Genes: Chrna10, Nup98, Pgap2

omitted Genes: Rhog, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr78

omitted Genes: Olfr560, Olfr561, Olfr564

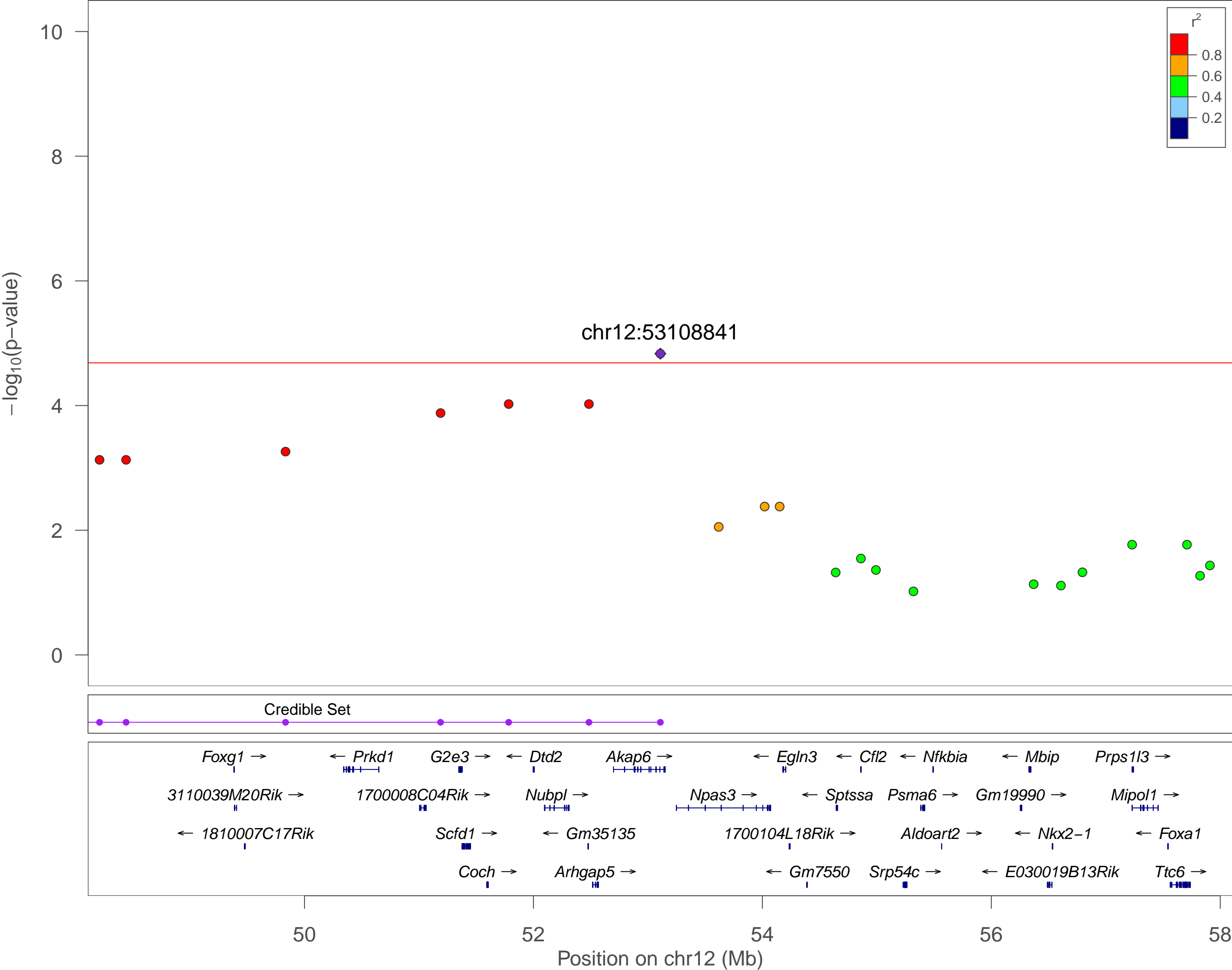
omitted Genes: Olfr566, Olfr568, Olfr569

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.05039541	Credible Set	purple
chr7:101743401	7	101.74340	0.19303482	Credible Set	purple
chr7:103659355	7	103.65936	0.19303482	Credible Set	purple
chr7:104149022	7	104.14902	0.18688221	Credible Set	purple
chr7:104162444	7	104.16244	0.19303482	Credible Set	purple
chr7:104581631	7	104.58163	0.18361792	Credible Set	purple

F34 Array, retic parameters mean reticulocyte volume

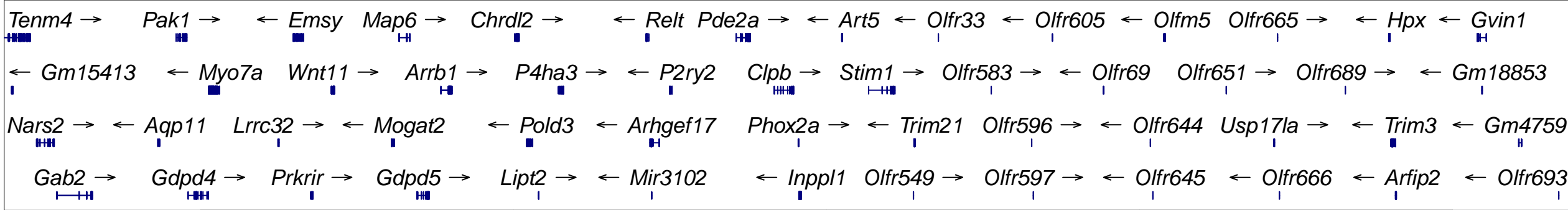
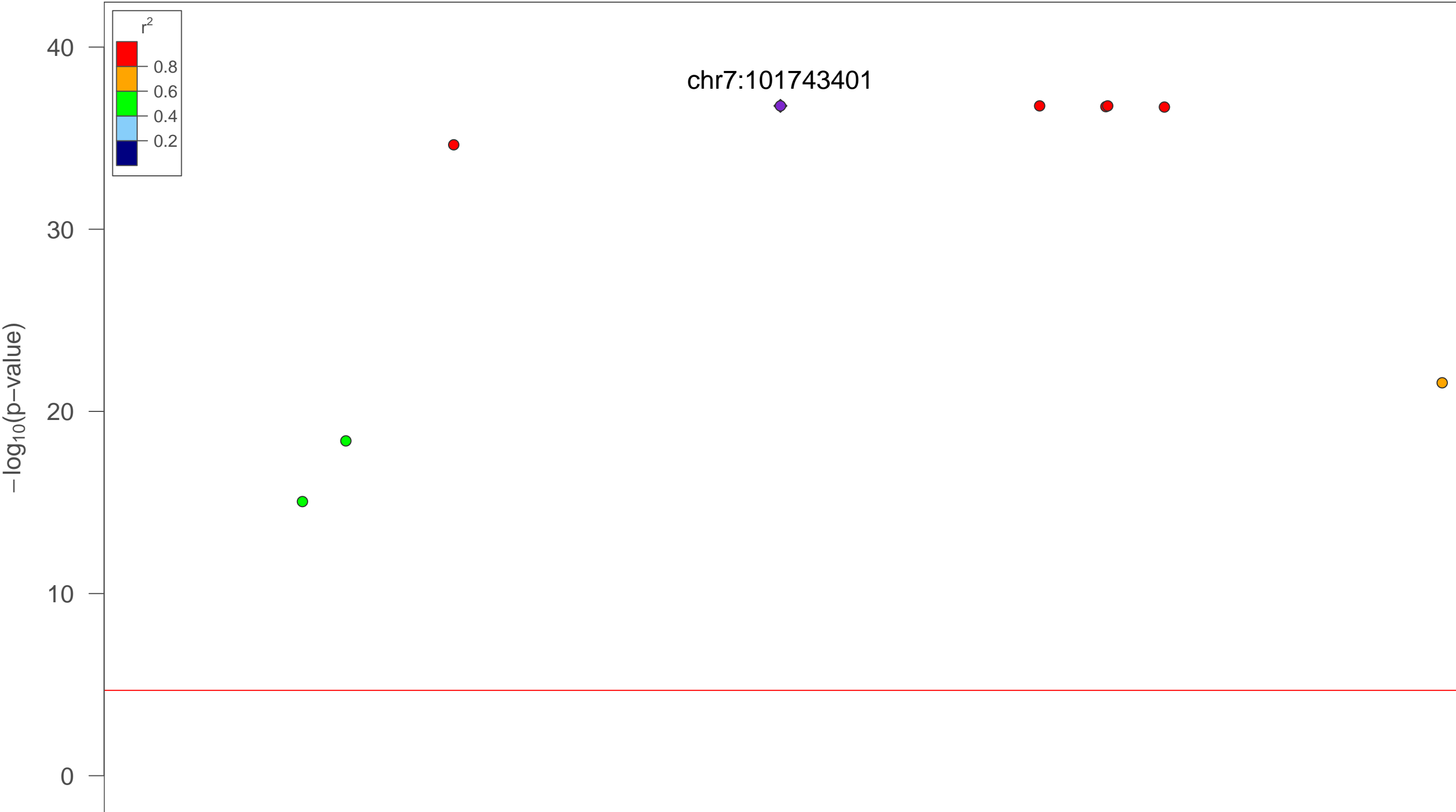


date: Thu Oct 25 16:47:11 2018
build: F34Array
display range: chr12:48108841–58108841 [48108841–58108841]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:53108841
number of SNPs plotted: 22
min P-value: 1.47E–5 [chr12:53108841]
max P-value: 9.56E–2 [chr12:55319581]
omitted Genes: Strn3, Ap4s1, Hectd1
omitted Genes: Heatr5a, Gpr33, 1700031P21Rik
omitted Genes: Mir1892, Eapp, Snx6
omitted Genes: Baz1a, 2700097O09Rik, Srp54a
omitted Genes: Fam177a, Srp54b, 1700047I17Rik2
omitted Genes: Ppp2r3c, 1110008L16Rik, Insm2
omitted Genes: Ralgapa1, Brms1l, C87198
omitted Genes: Nkx2–9, Pax9, Slc25a21
omitted Genes: 4921518K17Rik, BC042761

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:46941836	12	46.94184	0.01575526	Credible Set	purple
chr12:48209549	12	48.20955	0.01575526	Credible Set	purple
chr12:48441097	12	48.44110	0.01575526	Credible Set	purple
chr12:49834234	12	49.83423	0.02088924	Credible Set	purple
chr12:51188722	12	51.18872	0.07939813	Credible Set	purple
chr12:51783700	12	51.78370	0.10856270	Credible Set	purple
chr12:52484891	12	52.48489	0.10856270	Credible Set	purple
chr12:53108841	12	53.10884	0.63532146	Credible Set	purple

F34 Array, retic parameters cell hemoglobin concentration mean



232 genes
omitted

date: Thu Oct 25 16:47:43 2018

build: F34Array

display range: chr7:96743401–106743401 [96743401–106743401]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:101743401

number of SNPs plotted: 10

min P-value: 1.69E–37 [chr7:101743401]

max P-value: 8.92E–16 [chr7:98210049]

omitted Genes: Usp35, Kctd21, Alg8

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Capn5

omitted Genes: Omp, Gm16938, B3gnt6

omitted Genes: Acer3, Tsku, Gucy2d

omitted Genes: Uvrag, Dgat2, Gm26705

omitted Genes: Serpinh1, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr520

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Ucp3, Ucp2

omitted Genes: Dnajb13, Coa4, Mrpl48

omitted Genes: Rab6a, Plekhhb1, Fam168a

omitted Genes: P2ry6, Fchsd2, Atg16l2

omitted Genes: Stard10, Arap1, Mir139

omitted Genes: Art2a-ps, Art2b, Folr2

omitted Genes: Folr1, Anapc15, Tomt

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Il18bp, Rnf121, Xndc1

omitted Genes: Xntrpc, Trpc2, Art1

omitted Genes: Chrna10, Nup98, Pgap2

omitted Genes: Rhog, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr78

omitted Genes: Olfr560, Olfr561, Olfr564

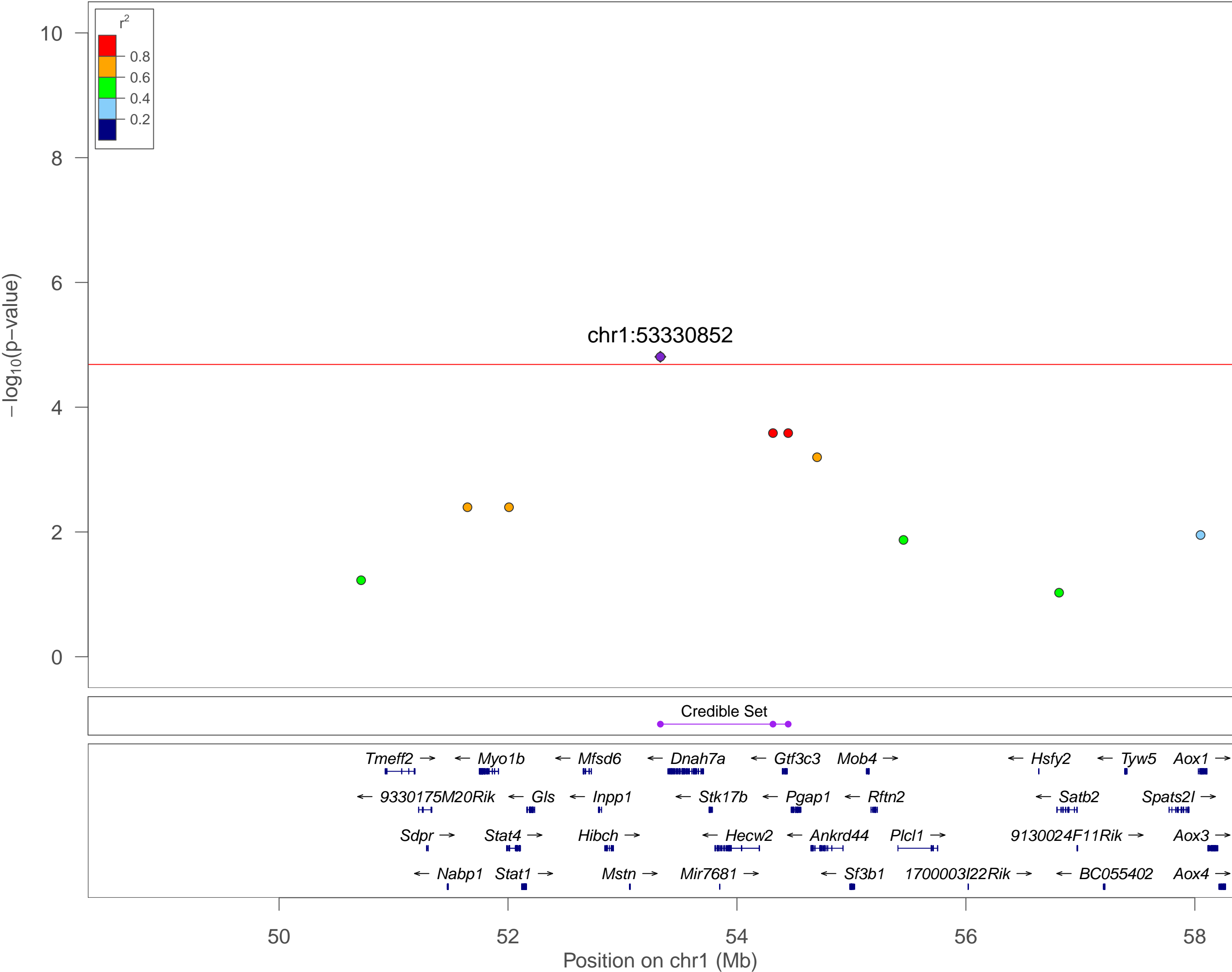
omitted Genes: Olfr566, Olfr568, Olfr569

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101743401	7	101.7434	0.2093022	Credible Set	purple
chr7:103659355	7	103.6594	0.2093022	Credible Set	purple
chr7:104149022	7	104.1490	0.1900482	Credible Set	purple
chr7:104162444	7	104.1624	0.2093022	Credible Set	purple
chr7:104581631	7	104.5816	0.1804691	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat

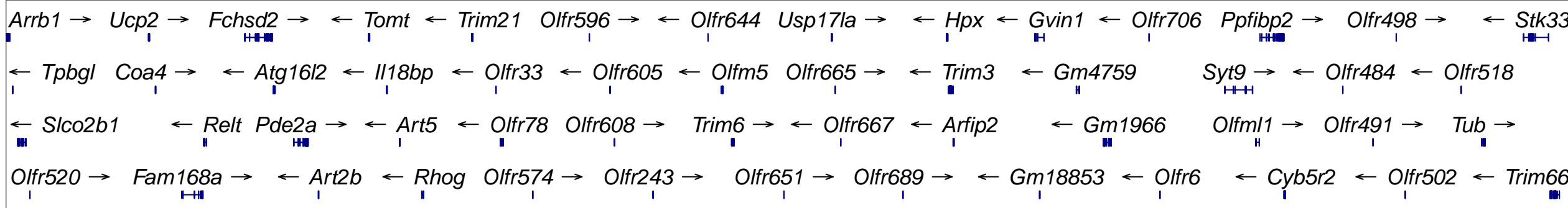
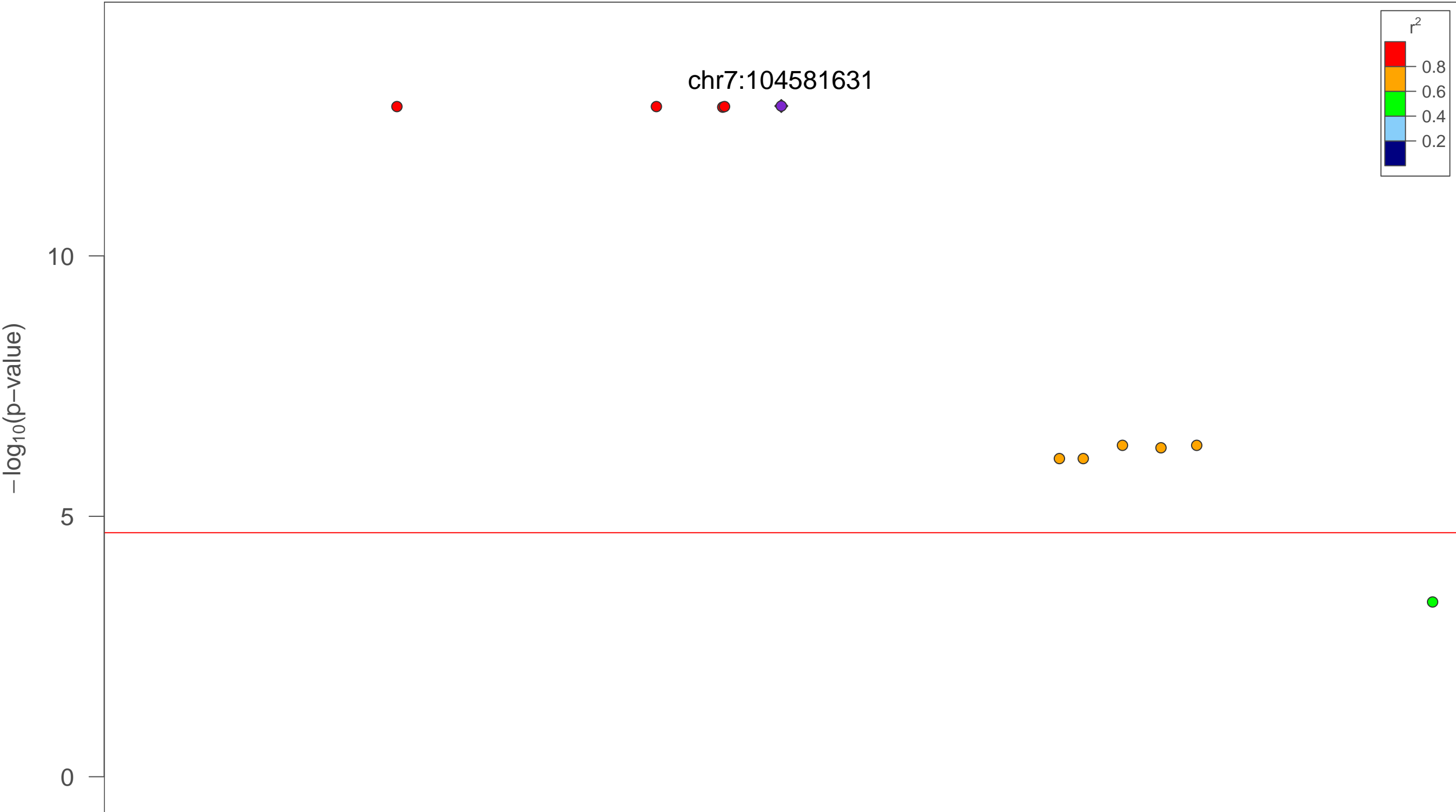


date: Thu Oct 25 16:47:59 2018
build: F34Array
display range: chr1:48330852–58330852 [48330852–58330852]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:53330852
number of SNPs plotted: 11
min P-value: 1.55E–5 [chr1:53330852]
max P-value: 9.41E–2 [chr1:56814006]
omitted Genes: Nab1, Tmem194b, 1700019D03Rik
omitted Genes: 1700019A02Rik, Pms1, Ormdl1
omitted Genes: Osgepl1, Asnsd1, Ccdc150
omitted Genes: Coq10b, Hspd1, Hspe1
omitted Genes: Mars2, Boll, Gm6644
omitted Genes: 9130227L01Rik, 4930558J18Rik, 1700066M21Rik
omitted Genes: 9430016H08Rik, Kctd18, Sgol2a
omitted Genes: Aox2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:53330852	1	53.33085	0.8778534	Credible Set	purple
chr1:54314429	1	54.31443	0.0610733	Credible Set	purple
chr1:54447274	1	54.44727	0.0610733	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat



270 genes
omitted

date: Thu Oct 25 16:48:27 2018

build: F34Array

display range: chr7:99581631–109581631 [99581631–109581631]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104581631

number of SNPs plotted: 12

min P-value: 1.32E–13 [chr7:104581631]

max P-value: 4.41E–4 [chr7:109390566]

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Chrdl2

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, P4ha3

omitted Genes: Ppme1, C2cd3, Ucp3

omitted Genes: Dnajb13, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Arhgef17, Mir3102

omitted Genes: P2ry6, P2ry2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Clpb, Phox2a, Inpp1

omitted Genes: Folr2, Folr1, Anapc15

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Stim1

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr575

omitted Genes: Olfr576, Olfr577, Olfr578

omitted Genes: Olfr582, Olfr583, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

omitted Genes: Olfr594, Usp17ld, Olfr597

omitted Genes: Olfr598, Olfr599, Olfr600

omitted Genes: Olfr601, Olfr603, Usp17lc

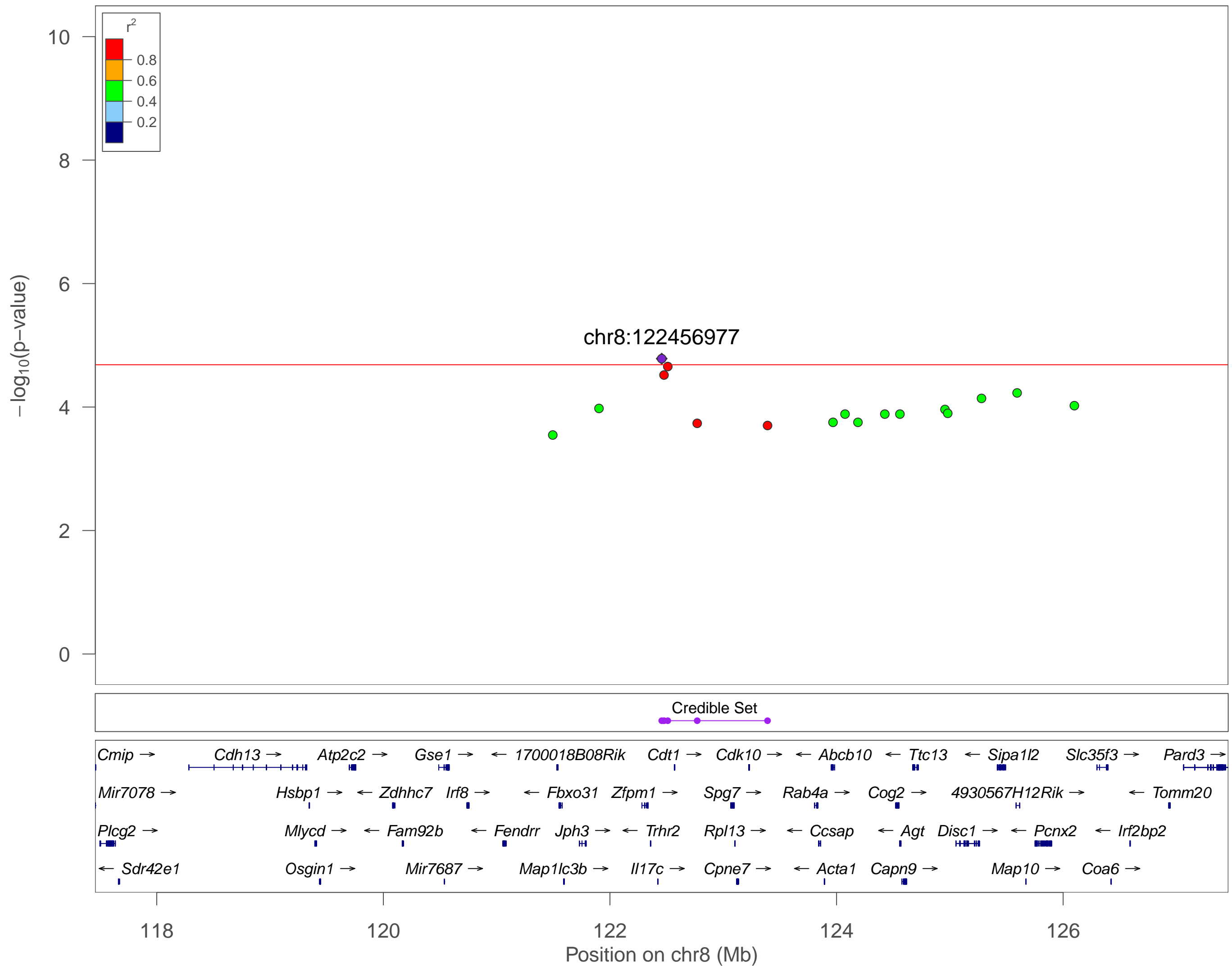
omitted Genes: Olfr606, Olfr609, Olfr610

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.06413313	Credible Set	purple
chr7:101743401	7	101.74340	0.18722938	Credible Set	purple
chr7:103659355	7	103.65936	0.18722938	Credible Set	purple
chr7:104149022	7	104.14902	0.18251656	Credible Set	purple
chr7:104162444	7	104.16244	0.18722938	Credible Set	purple
chr7:104581631	7	104.58163	0.19166215	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 16:48:47 2018

build: F34Array

display range: chr8:117456977–127456977 [117456977–127456977]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:122456977

number of SNPs plotted: 18

min P-value: 1.65E–5 [chr8:122456977]

max P-value: 2.84E–4 [chr8:121495351]

omitted Genes: Gm38416, Hsd17b2, Mphosph6

omitted Genes: Necab2, Slc38a8, Mbtps1

omitted Genes: Hsd11, Dnaaf1, Taf1c

omitted Genes: Adad2, Kcng4, Wfdc1

omitted Genes: Tldc1, Cotl1, Klhl36

omitted Genes: Usp10, Crispld2, 6430548M08Rik

omitted Genes: A330074K22Rik, Gins2, Emc8–1190005i06rik

omitted Genes: 1190005I06Rik, Emc8, Cox4i1

omitted Genes: Foxf1, Mthfsd, Foxc2

omitted Genes: Foxl1, 1700030M09Rik, Zcchc14

omitted Genes: Klhdc4, Slc7a5, BC048644

omitted Genes: Car5a, Banp, Mir7237

omitted Genes: Zc3h18, Cyba, Mvd

omitted Genes: 9330133O14Rik, Gm20735, Snai3

omitted Genes: Rnf166, Ctu2, Piezo1

omitted Genes: Aprt, Galns, Trappc2l

omitted Genes: Pabpn1l, Mir6396, Cbfa2t3

omitted Genes: Acsf3, Cdh15, Ankrd11

omitted Genes: 2810013P06Rik, Snord68, Mir7079

omitted Genes: Mir7080, Sult5a1, Dpep1

omitted Genes: Chmp1a, Spata33, Spata2l

omitted Genes: 4933417D19Rik, Vps9d1, Zfp276

omitted Genes: Fanca, Spire2, Tcf25

omitted Genes: Mc1r, Tubb3, Def8

omitted Genes: Afg3l1, Dbn1d1, Gas8

omitted Genes: n-R5s100, n-R5s103, n-R5s104

omitted Genes: n-R5s105, n-R5s108, n-R5s110

omitted Genes: n-R5s111, n-R5s113, Gm25018

omitted Genes: n-R5s117, n-R5s121, n-R5s122

omitted Genes: n-R5s123, n-R5s124, n-R5s128

omitted Genes: Gm26391, n-R5s133, n-R5s134

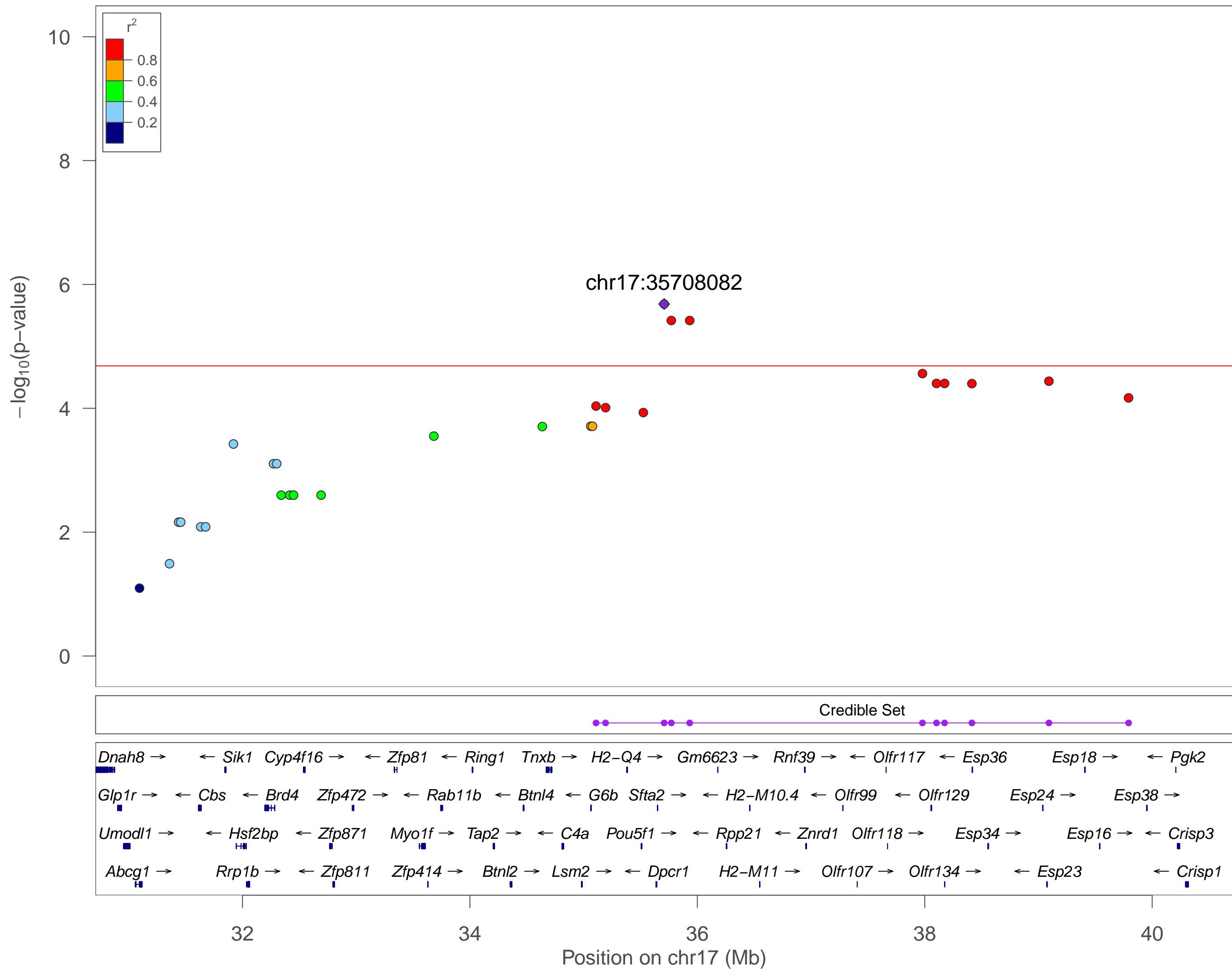
omitted Genes: n-R5s135, n-R5s136, n-R5s138

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:122456977	8	122.4570	0.39795211	Credible Set	purple
chr8:122477261	8	122.4773	0.22278052	Credible Set	purple
chr8:122510562	8	122.5106	0.30110485	Credible Set	purple
chr8:122770060	8	122.7701	0.04056677	Credible Set	purple
chr8:123390979	8	123.3910	0.03759574	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 16:48:13 2018

build: F34Array

display range: chr17:30708082–40708082 [30708082–40708082]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:35708082

number of SNPs plotted: 30

min P-value: 2.07E–6 [chr17:35708082]

max P-value: 8.03E–2 [chr17:31094466]

omitted Genes: Tff3, Tff2, LOC102631757

omitted Genes: Tff1, Tmprss3, Ubash3a

omitted Genes: Rsph1, Slc37a1, Pde9a

omitted Genes: Wdr4, Ndufv3, Pknox1

omitted Genes: U2af1, Cryaa, Pdxk-ps

omitted Genes: Notch3, Ephx3, Gm4432

omitted Genes: Akap8, Akap8l, Wiz

omitted Genes: Rasal3, A530088E08Rik, Pglyrp2

omitted Genes: Cyp4f39, Cyp4f17, Cyp4f37

omitted Genes: Cyp4f40, Cyp4f15, Zfp799

omitted Genes: Zfp870, Cyp4f14, Cyp4f13

omitted Genes: Cyp4f41-ps, Zfp952, Zfp763

omitted Genes: 4921501E09Rik, Zfp563, Morc2b

omitted Genes: Olfr55, Olfr239, Gm4461

omitted Genes: Zfp955a, Olfr63, Zfp955b

omitted Genes: Zfp101, Actl9, Adamts10

omitted Genes: Pram1, Hnrnpm, March2

omitted Genes: Angptl4, Kank3, Rps28

omitted Genes: Ndufa7, Cd320, Kifc1

omitted Genes: Gm27740, Platr17, BC051226

omitted Genes: Daxx, Zbtb22, Tapbp

omitted Genes: Rgl2, Pfdn6, Wdr46

omitted Genes: B3galt4, Rps18, Vps52

omitted Genes: H2-K2, AA388235, H2-K1

omitted Genes: Mir219a-1, Mir219c, H2-Ke6

omitted Genes: Slc39a7, Rxrb, Col11a2

omitted Genes: BC051537, H2-Oa, Brd2

omitted Genes: H2-DMa, H2-DMb2, H2-DMb1

omitted Genes: Psmb9, Tap1, Psmb8

omitted Genes: H2-Ob, H2-Ab1, H2-Aa

omitted Genes: H2-Eb1, H2-Ep2, Btln1

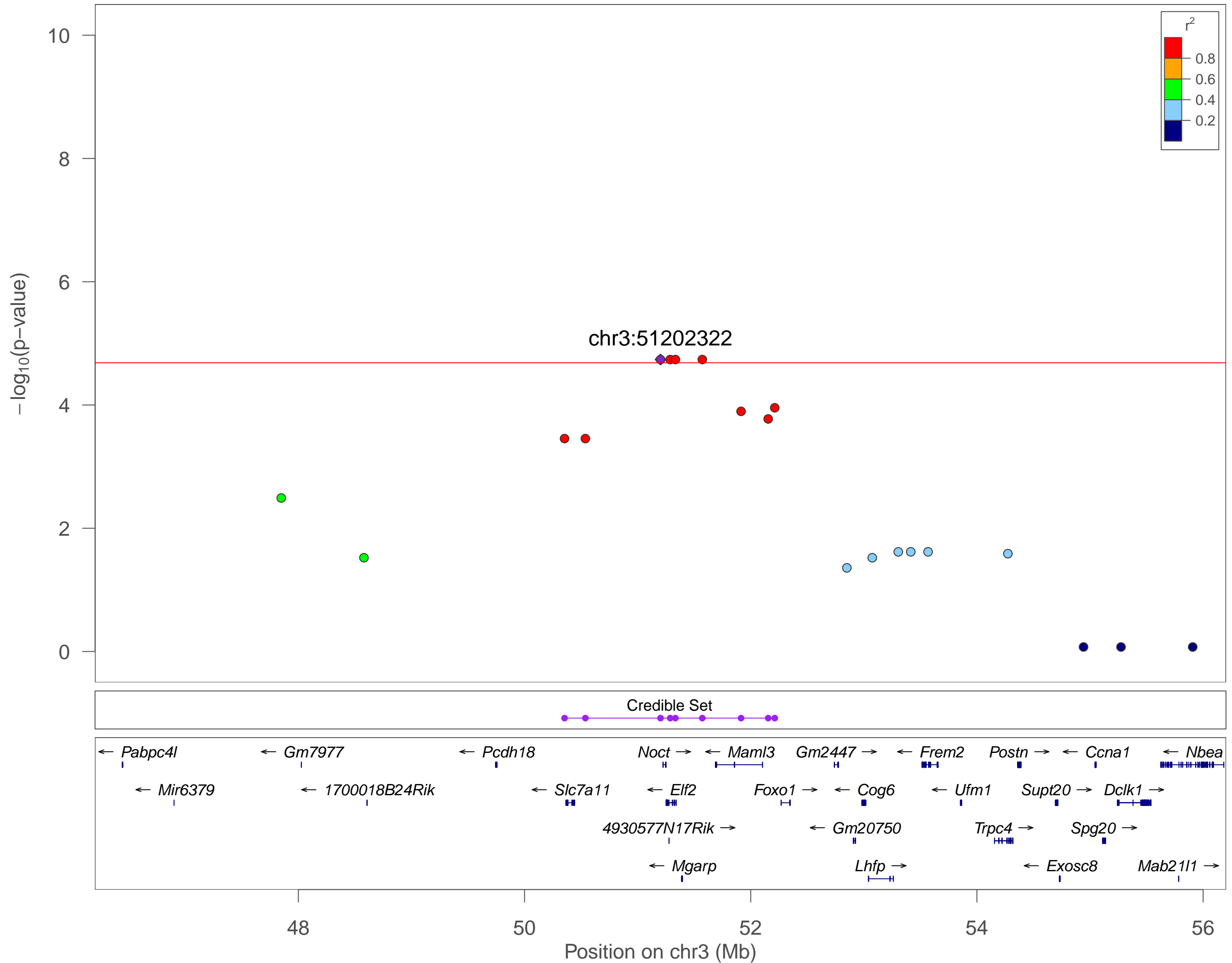
omitted Genes: BC051143, Btln5, ps, Btln6

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:35109063	17	35.10906	0.01054350	Credible Set	purple
chr17:35193207	17	35.19321	0.00996709	Credible Set	purple
chr17:35708082	17	35.70808	0.39239080	Credible Set	purple
chr17:35771114	17	35.77111	0.21807460	Credible Set	purple
chr17:35932844	17	35.93284	0.21807460	Credible Set	purple
chr17:37979659	17	37.97966	0.03314126	Credible Set	purple
chr17:38103272	17	38.10327	0.02339890	Credible Set	purple
chr17:38174076	17	38.17408	0.02339890	Credible Set	purple
chr17:38414260	17	38.41426	0.02322488	Credible Set	purple
chr17:39091675	17	39.09168	0.02533380	Credible Set	purple
chr17:39792213	17	39.79221	0.01405672	Credible Set	purple

F34 Array, retic parameters cell hemoglobin distribution width



date: Thu Oct 25 16:49:06 2018

build: F34Array

display range: chr3:46202322–56202322 [46202322–56202322]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:51202322

number of SNPs plotted: 21

min P-value: 1.83E–5 [chr3:51202322]

max P-value: 8.44E–1 [chr3:54942736]

omitted Genes: Ndufc1, Naa15, Rab33b

omitted Genes: Setd7, 5031434O11Rik, Mgst2

omitted Genes: Nhlrc3, Proser1, Stoml3

omitted Genes: Alg5, Smad9, Rfxap

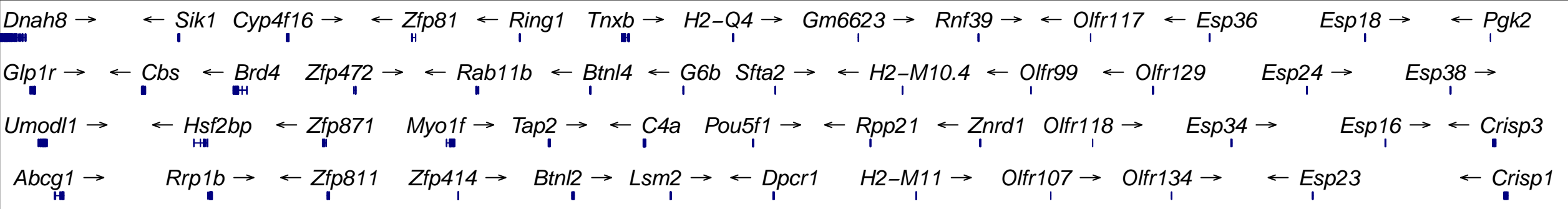
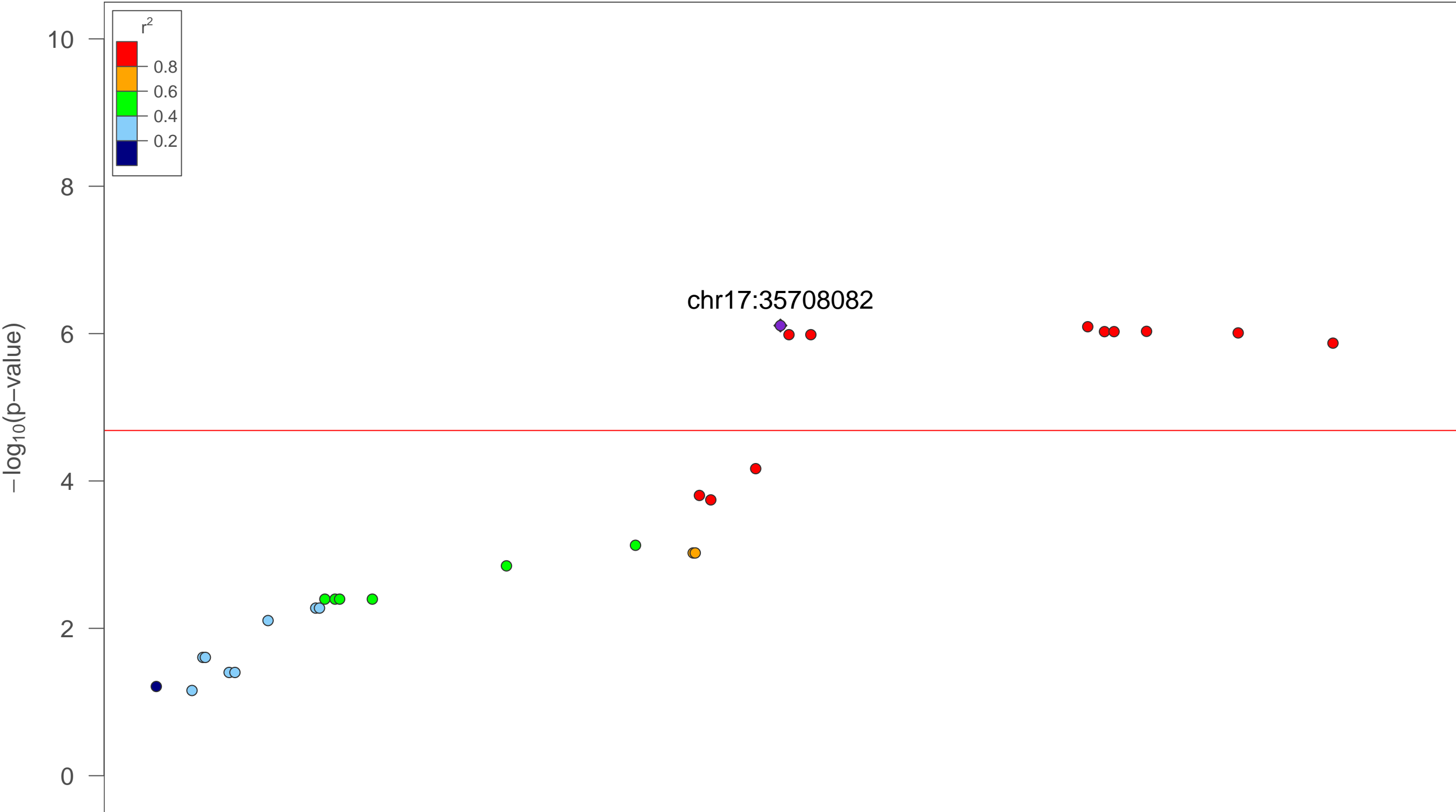
omitted Genes: Sertm1, 4931419H13Rik, Ccdc169

omitted Genes: Sohlh2, 4933417G07Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:50353748	3	50.35375	0.01339687	Credible Set	purple
chr3:50537878	3	50.53788	0.01339687	Credible Set	purple
chr3:51202322	3	51.20232	0.21806426	Credible Set	purple
chr3:51287862	3	51.28786	0.21806426	Credible Set	purple
chr3:51333971	3	51.33397	0.21806426	Credible Set	purple
chr3:51571920	3	51.57192	0.21806426	Credible Set	purple
chr3:51914573	3	51.91457	0.03481626	Credible Set	purple
chr3:52154479	3	52.15448	0.02667820	Credible Set	purple
chr3:52212374	3	52.21237	0.03945476	Credible Set	purple

F34 Array, retic parameters cell hemoglobin distribution width



279 genes
omitted

date: Thu Oct 25 16:49:00 2018

build: F34Array

display range: chr17:30708082–40708082 [30708082–40708082]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:35708082

number of SNPs plotted: 30

min P-value: 7.77E-7 [chr17:35708082]

max P-value: 6.97E-2 [chr17:31358358]

omitted Genes: Tff3, Tff2, LOC102631757

omitted Genes: Tff1, Tmprss3, Ubash3a

omitted Genes: Rsph1, Slc37a1, Pde9a

omitted Genes: Wdr4, Ndufv3, Pknox1

omitted Genes: U2af1, Cryaa, Pdxk-ps

omitted Genes: Notch3, Ephx3, Gm4432

omitted Genes: Akap8, Akap8l, Wiz

omitted Genes: Rasal3, A530088E08Rik, Pglyrp2

omitted Genes: Cyp4f39, Cyp4f17, Cyp4f37

omitted Genes: Cyp4f40, Cyp4f15, Zfp799

omitted Genes: Zfp870, Cyp4f14, Cyp4f13

omitted Genes: Cyp4f41-ps, Zfp952, Zfp763

omitted Genes: 4921501E09Rik, Zfp563, Morc2b

omitted Genes: Olfr55, Olfr239, Gm4461

omitted Genes: Zfp955a, Olfr63, Zfp955b

omitted Genes: Zfp101, Actl9, Adamts10

omitted Genes: Pram1, Hnrnpm, March2

omitted Genes: Angptl4, Kank3, Rps28

omitted Genes: Ndufa7, Cd320, Kifc1

omitted Genes: Gm27740, Platr17, BC051226

omitted Genes: Daxx, Zbtb22, Tapbp

omitted Genes: Rgl2, Pfdn6, Wdr46

omitted Genes: B3galt4, Rps18, Vps52

omitted Genes: H2-K2, AA388235, H2-K1

omitted Genes: Mir219a-1, Mir219c, H2-Ke6

omitted Genes: Slc39a7, Rxrb, Col11a2

omitted Genes: BC051537, H2-Oa, Brd2

omitted Genes: H2-DMa, H2-DMb2, H2-DMb1

omitted Genes: Psmb9, Tap1, Psmb8

omitted Genes: H2-Ob, H2-Ab1, H2-Aa

omitted Genes: H2-Eb1, H2-Ep2, Btln1

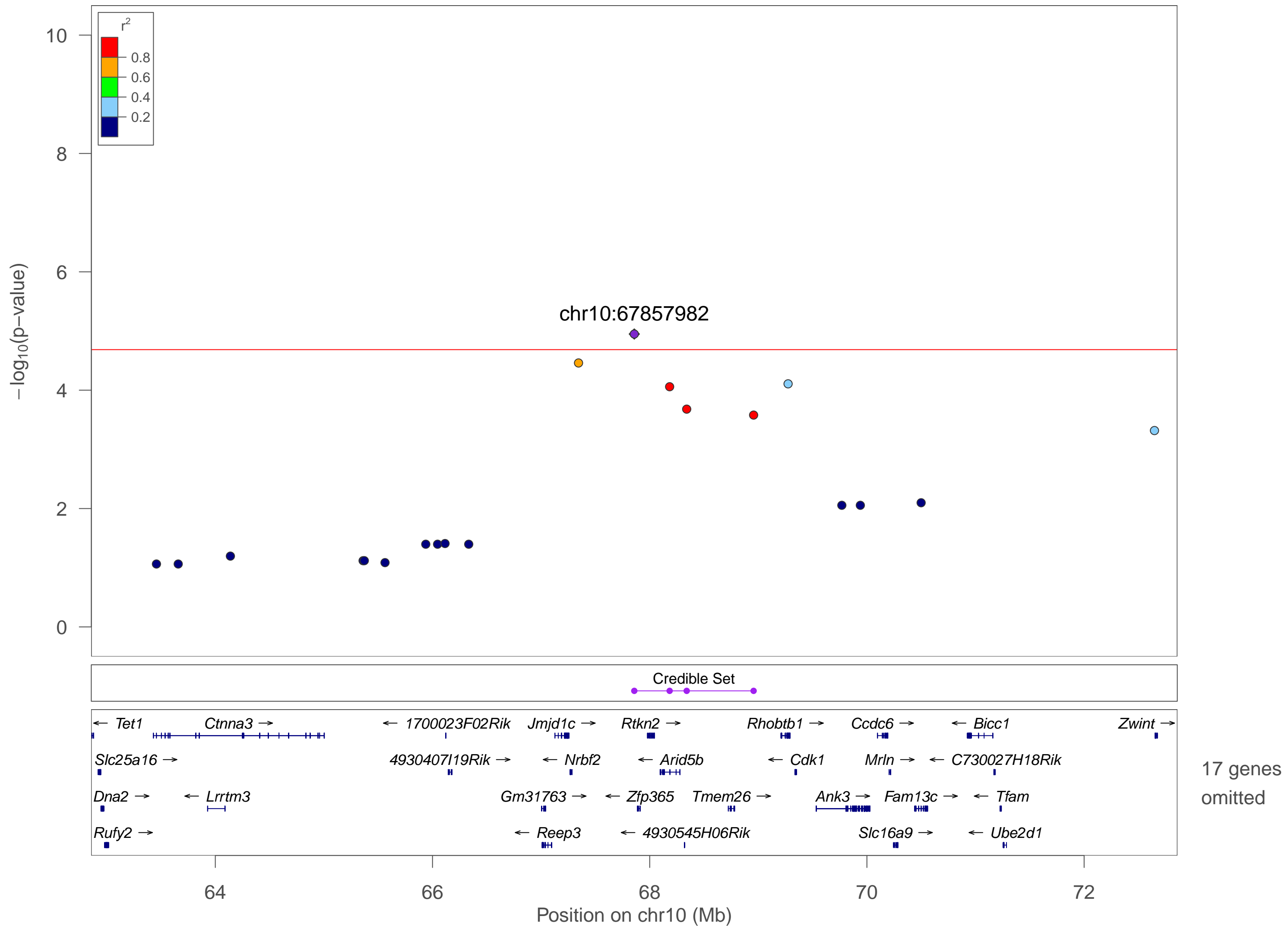
omitted Genes: BC051143, Btln5, ps, Btln6

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:35708082	17	35.70808	0.13502166	Credible Set	purple
chr17:35771114	17	35.77111	0.10257697	Credible Set	purple
chr17:35932844	17	35.93284	0.10257697	Credible Set	purple
chr17:37979659	17	37.97966	0.13031025	Credible Set	purple
chr17:38103272	17	38.10327	0.11243731	Credible Set	purple
chr17:38174076	17	38.17408	0.11243731	Credible Set	purple
chr17:38414260	17	38.41426	0.11339820	Credible Set	purple
chr17:39091675	17	39.09168	0.10819998	Credible Set	purple
chr17:39792213	17	39.79221	0.07956072	Credible Set	purple

F34 Array, retic parameters red cell distribution width



date: Thu Oct 25 16:49:14 2018

build: F34Array

display range: chr10:62857982–72857982 [62857982–72857982]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:67857982

number of SNPs plotted: 21

min P-value: 1.12E–5 [chr10:67857982]

max P-value: 8.65E–2 [chr10:63458094]

omitted Genes: Hnrnph3, Pbld2, Pbld1

omitted Genes: Atoh7, Mypn, Herc4

omitted Genes: Sirt1, Dnajc12, Egr2

omitted Genes: Ado, 1700040L02Rik, Phyhipl

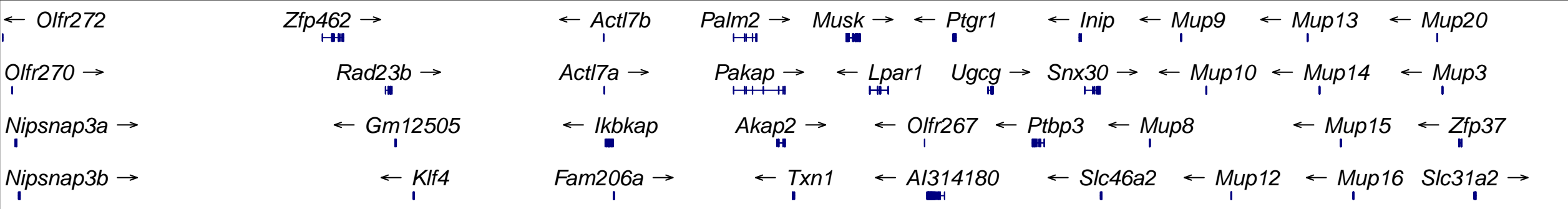
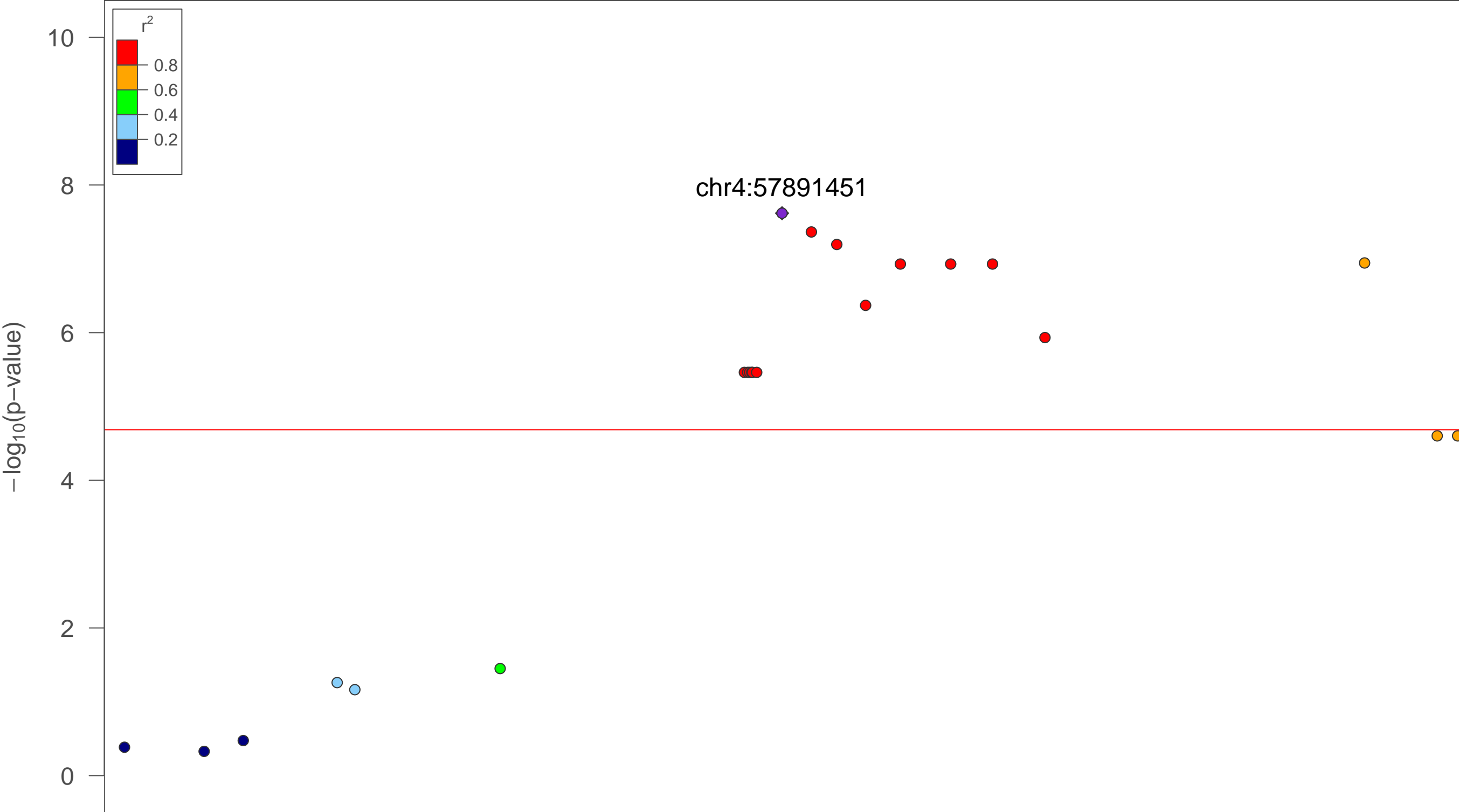
omitted Genes: D630013N20Rik, 1700113B09Rik, Cisd1

omitted Genes: Ipmk, 1700049L16Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:67857982	10	67.85798	0.79629461	Credible Set	purple
chr10:68183490	10	68.18349	0.11355990	Credible Set	purple
chr10:68340621	10	68.34062	0.04993989	Credible Set	purple
chr10:68956755	10	68.95676	0.04020560	Credible Set	purple

F34 Array, retic parameters hemoglobin distribution width



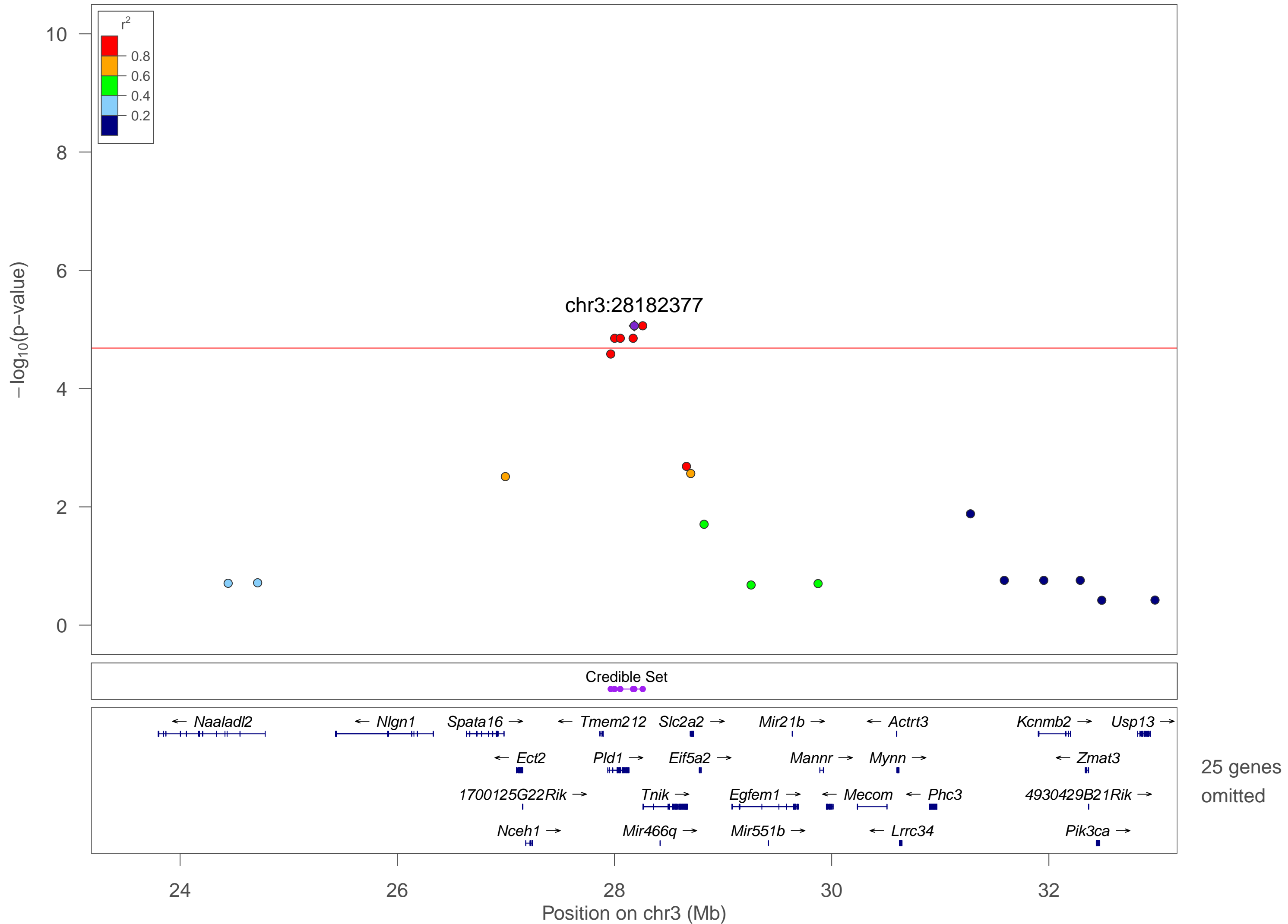
50 genes omitted

date: Thu Oct 25 16:49:21 2018
build: F34Array
display range: chr4:52891451–62891451 [52891451–62891451]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:57891451
number of SNPs plotted: 24
min P-value: 2.41E–8 [chr4:57891451]
max P-value: 4.69E–1 [chr4:53628462]
omitted Genes: Abca1, 4930522O17Rik, AI427809
omitted Genes: Slc44a1, Fsd1l, Fktn
omitted Genes: Tal2, Tmem38b, Ctnnal1
omitted Genes: Tmem245, Mir32, Frrs1l
omitted Genes: Epb41l4b, Gm12530, Ptpn3
omitted Genes: 1700042G15Rik, D630039A03Rik, Txndc8
omitted Genes: Sveg1, Mir3095, Zkscan16
omitted Genes: Dnajc25, Gng10, Gm12596
omitted Genes: Susd1, Hsd12, E130308A19Rik
omitted Genes: Mup4, Mup6, Mup7
omitted Genes: Mup2, Mup1, Mup11
omitted Genes: Mup17, Mup18, Mup19
omitted Genes: Mup5, Mup21, Fkbp15
omitted Genes: Slc31a1, Cdc26, Prpf4
omitted Genes: Rnf183, Wdr31, Bspry
omitted Genes: Hdhd3, Alad, Pole3
omitted Genes: 4933430I17Rik, Rgs3

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:57613710	4	57.61371	0.003029939	Credible Set	purple
chr4:57637755	4	57.63775	0.003029939	Credible Set	purple
chr4:57652730	4	57.65273	0.003029939	Credible Set	purple
chr4:57891451	4	57.89145	0.365446528	Credible Set	purple
chr4:58107891	4	58.10789	0.207204646	Credible Set	purple
chr4:58295311	4	58.29531	0.141999469	Credible Set	purple
chr4:58507849	4	58.50785	0.022635370	Credible Set	purple
chr4:58764292	4	58.76429	0.078645589	Credible Set	purple
chr4:59135384	4	59.13538	0.078645589	Credible Set	purple
chr4:59443996	4	59.44400	0.078645589	Credible Set	purple
chr4:59830858	4	59.83086	0.008597585	Credible Set	purple

F34 Array, retic parameters mean reticulocyte volume, repeat

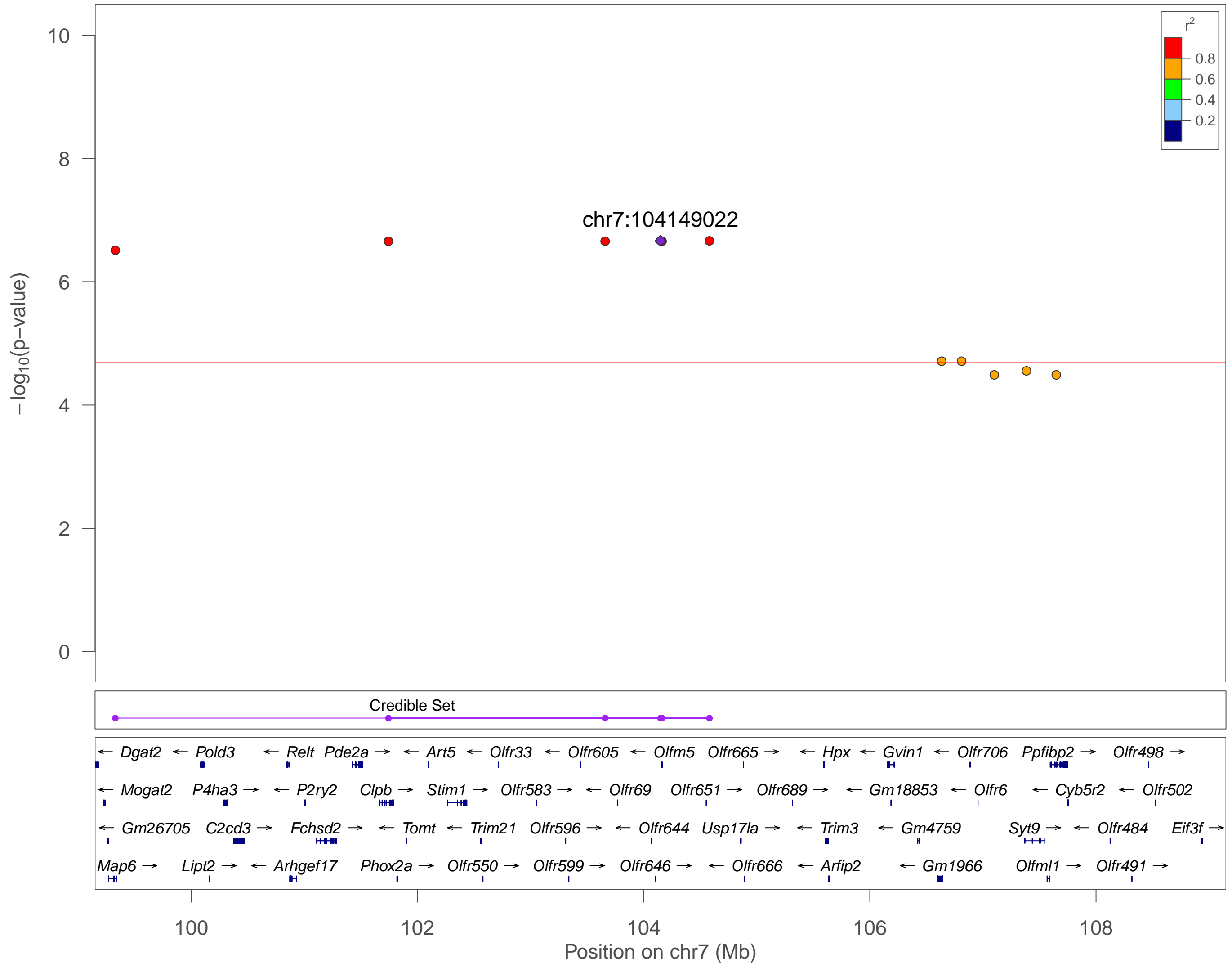


date: Thu Oct 25 16:49:46 2018
build: F34Array
display range: chr3:23182377–33182377 [23182377–33182377]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr3:28182377
number of SNPs plotted: 21
min P-value: 8.66E–6 [chr3:28182377]
max P-value: 3.8E–1 [chr3:32486921]
omitted Genes: Tnfsf10, Ghser, Fndc3b
omitted Genes: Mir3092, Rpl22l1, Gm1527
omitted Genes: Lrriq4, Lrrc31, Samd7
omitted Genes: Sec62, Gpr160, Prkci
omitted Genes: Mir7008, Skil, Cldn11
omitted Genes: Slc7a14, Kcnmb3, Zfp639
omitted Genes: Mfn1, Gnb4, Actl6a
omitted Genes: Mrpl47, Ndubf5, Pex5l
omitted Genes: 4930419G24Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:27965717	3	27.96572	0.08266309	Credible Set	purple
chr3:28001696	3	28.00170	0.14814397	Credible Set	purple
chr3:28053395	3	28.05339	0.14814397	Credible Set	purple
chr3:28171809	3	28.17181	0.14814397	Credible Set	purple
chr3:28182377	3	28.18238	0.23576811	Credible Set	purple
chr3:28259887	3	28.25989	0.23576811	Credible Set	purple

F34 Array, retic parameters mean reticulocyte volume, repeat



date: Thu Oct 25 16:49:59 2018

build: F34Array

display range: chr7:99149022–109149022 [99149022–109149022]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104149022

number of SNPs plotted: 12

min P-value: 2.16E–7 [chr7:104149022]

max P-value: 3.24E–5 [chr7:107100725]

omitted Genes: Serpinh1, Gdpd5, Khlh35

omitted Genes: Rps3, Snord15b, Snord15a

omitted Genes: Arrb1, Mir326, Tpbgl

omitted Genes: Slco2b1, Olfr520, Olfr521

omitted Genes: Neu3, Spcs2, Xrra1

omitted Genes: Rnf169, Chrdl2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: Ucp3, Ucp2, Dnajb13

omitted Genes: Coa4, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Fam168a, Mir3102

omitted Genes: P2ry6, Atg16l2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Art2b, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Il18bp

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr78, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

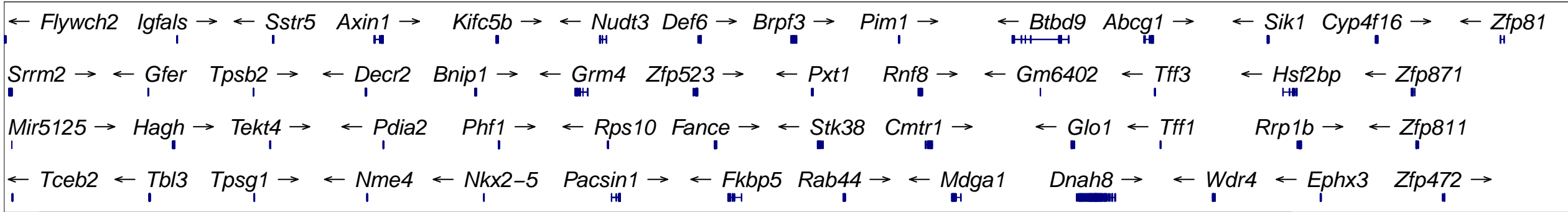
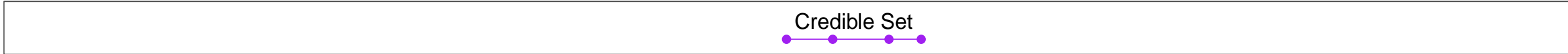
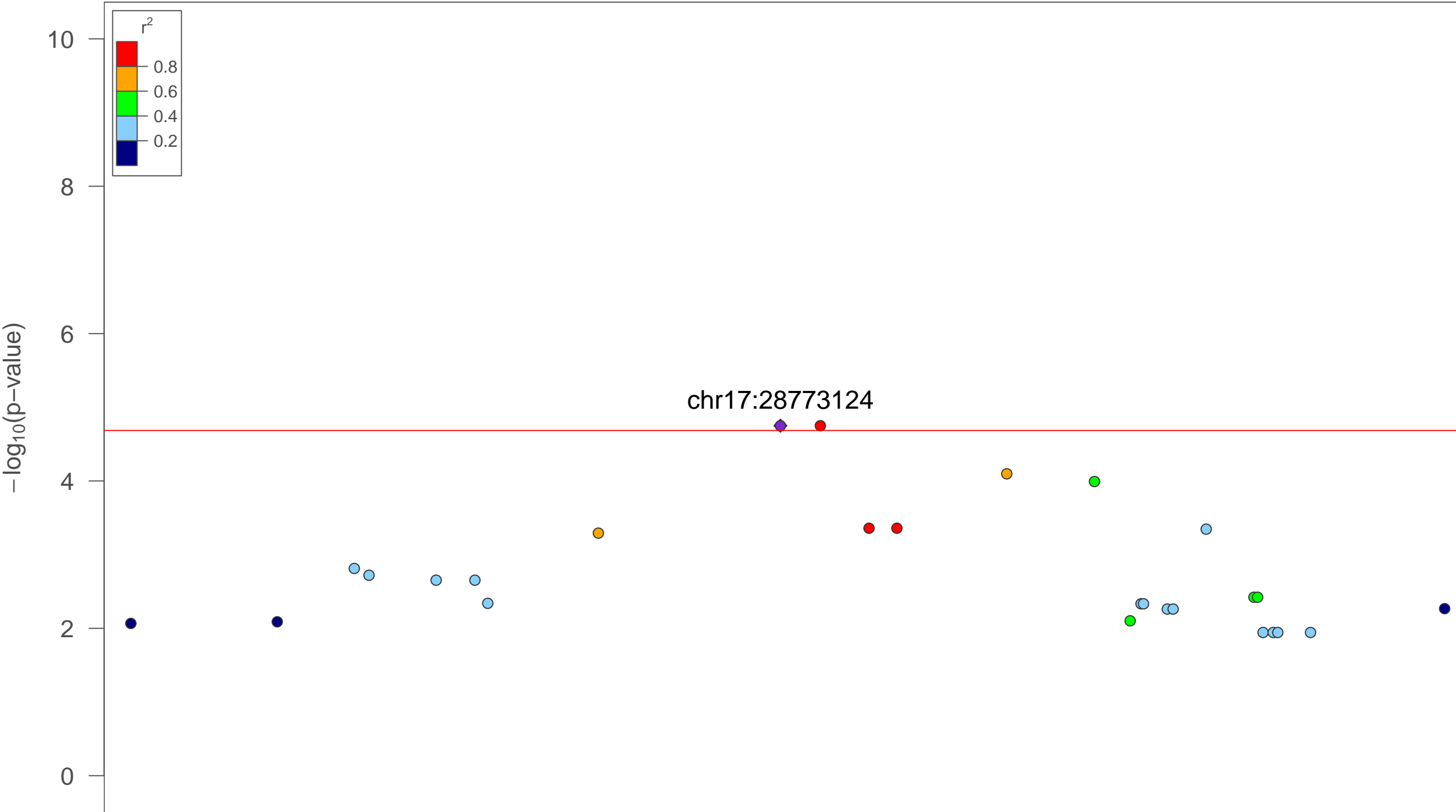
omitted Genes: Olfr594, Ucp17ld, Olfr597

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.1256159	Credible Set	purple
chr7:101743401	7	101.74340	0.1736837	Credible Set	purple
chr7:103659355	7	103.65936	0.1736837	Credible Set	purple
chr7:104149022	7	104.14902	0.1770891	Credible Set	purple
chr7:104162444	7	104.16244	0.1736837	Credible Set	purple
chr7:104581631	7	104.58163	0.1762440	Credible Set	purple

F34 Array, retic parameters mean reticulocyte volume, repeat



241 genes
omitted

date: Thu Oct 25 16:49:33 2018

build: F34Array

display range: chr17:23773124–33773124 [23773124–33773124]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:28773124

number of SNPs plotted: 28

min P-value: 1.78E–5 [chr17:28773124]

max P-value: 1.14E–2 [chr17:32340563]

omitted Genes: Prss33, Prss41, Prss32

omitted Genes: Prss21, Dcpp1, Dcpp2

omitted Genes: Dcpp3, Sbp, Sbp1

omitted Genes: Prss30, Prss22, Prss27

omitted Genes: Kctd5, Pdk1, Amdhd2

omitted Genes: Atp6v0c, Tbc1d24, Ntn3

omitted Genes: 1600002H07Rik, Ccnf, Mir5134

omitted Genes: Mir6965, Abca17, Abca3

omitted Genes: D330041H03Rik, Rnps1, Eci1

omitted Genes: Dnase1l2, E4f1, Pgp

omitted Genes: Mlst8, Bricd5, Caskin1

omitted Genes: Traf7, Rab26os, Rab26

omitted Genes: Pkd1, Tsc2, Nthl1

omitted Genes: Slc9a3r2, Npw, Zfp598

omitted Genes: Syng3, Noxo1, Rnf151

omitted Genes: Snhg9, Snora78, Rps2

omitted Genes: Snora64, Ndubf10, Rpl3l

omitted Genes: Msrb1, Hs3st6, Meiob

omitted Genes: Fahd1, Nubp2, Spsb3

omitted Genes: Eme2, Mrps34, Nme3

omitted Genes: Mapk8ip3, Hn1l, Cramp1l

omitted Genes: Ifit140, Tmem204, Telo2

omitted Genes: Ptx4, Clcn7, Ccdc154

omitted Genes: BC003965, Unkl, Gnptg

omitted Genes: Tsr3, Baiap3, Mir3547

omitted Genes: Ube2i, Gm17801, Prss34

omitted Genes: Prss28, Prss29, Tpsab1

omitted Genes: Cacna1h, Sox8, 2810468N07Rik

omitted Genes: Lmf1, Gng13, Chtf18

omitted Genes: Rpusd1, Mslnl, Msln

omitted Genes: Narfl, Haghl, Mir6966

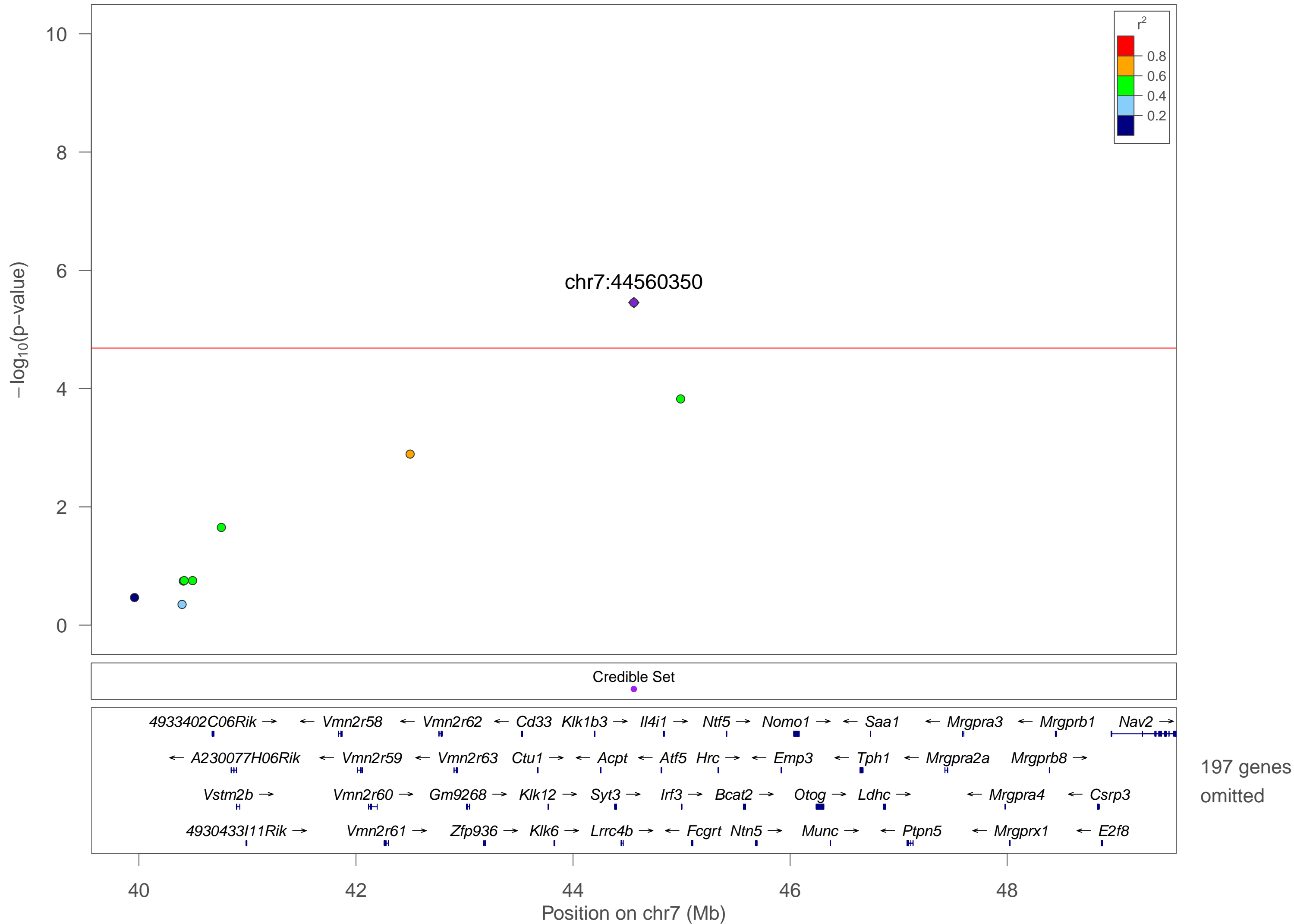
omitted Genes: Ccdc78, Fam173a, Motrn

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:28773124	17	28.77312	0.47684602	Credible Set	purple
chr17:29068384	17	29.06838	0.47684602	Credible Set	purple
chr17:29427987	17	29.42799	0.02315398	Credible Set	purple
chr17:29633989	17	29.63399	0.02315398	Credible Set	purple

F34 Array, retic parameters cell hemoglobin concentration mean, repeat



date: Thu Oct 25 16:50:26 2018

build: F34Array

display range: chr7:39560350–49560350 [39560350–49560350]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44560350

number of SNPs plotted: 10

min P-value: 3.51E–6 [chr7:44560350]

max P-value: 4.46E–1 [chr7:40397482]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

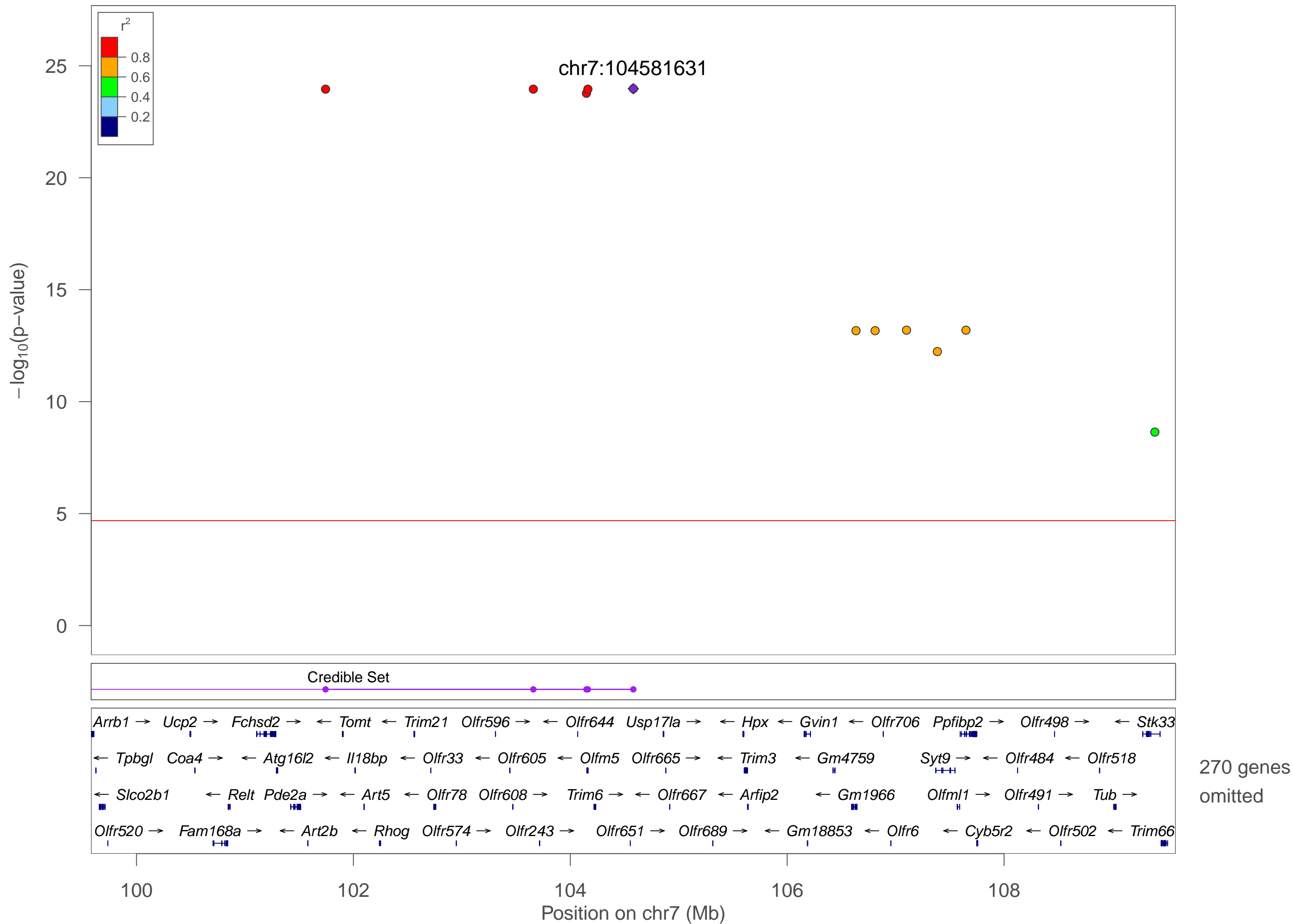
omitted Genes: Gm15545, Bcl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44560350	7	44.56035	1	Credible Set	purple

F34 Array, retic parameters cell hemoglobin concentration mean, repeat



date: Thu Oct 25 16:50:16 2018

build: F34Array

display range: chr7:99581631–109581631 [99581631–109581631]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104581631

number of SNPs plotted: 12

min P-value: 1.06E–24 [chr7:104581631]

max P-value: 2.29E–9 [chr7:109390566]

omitted Genes: Olfr521, Neu3, Spcs2

omitted Genes: Xrra1, Rnf169, Chrdl2

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, P4ha3

omitted Genes: Ppme1, C2cd3, Ucp3

omitted Genes: Dnajb13, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Arhgef17, Mir3102

omitted Genes: P2ry6, P2ry2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Clpb, Phox2a, Inpp1

omitted Genes: Folr2, Folr1, Anapc15

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Stim1

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr575

omitted Genes: Olfr576, Olfr577, Olfr578

omitted Genes: Olfr582, Olfr583, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

omitted Genes: Olfr594, Usp17ld, Olfr597

omitted Genes: Olfr598, Olfr599, Olfr600

omitted Genes: Olfr601, Olfr603, Usp17lc

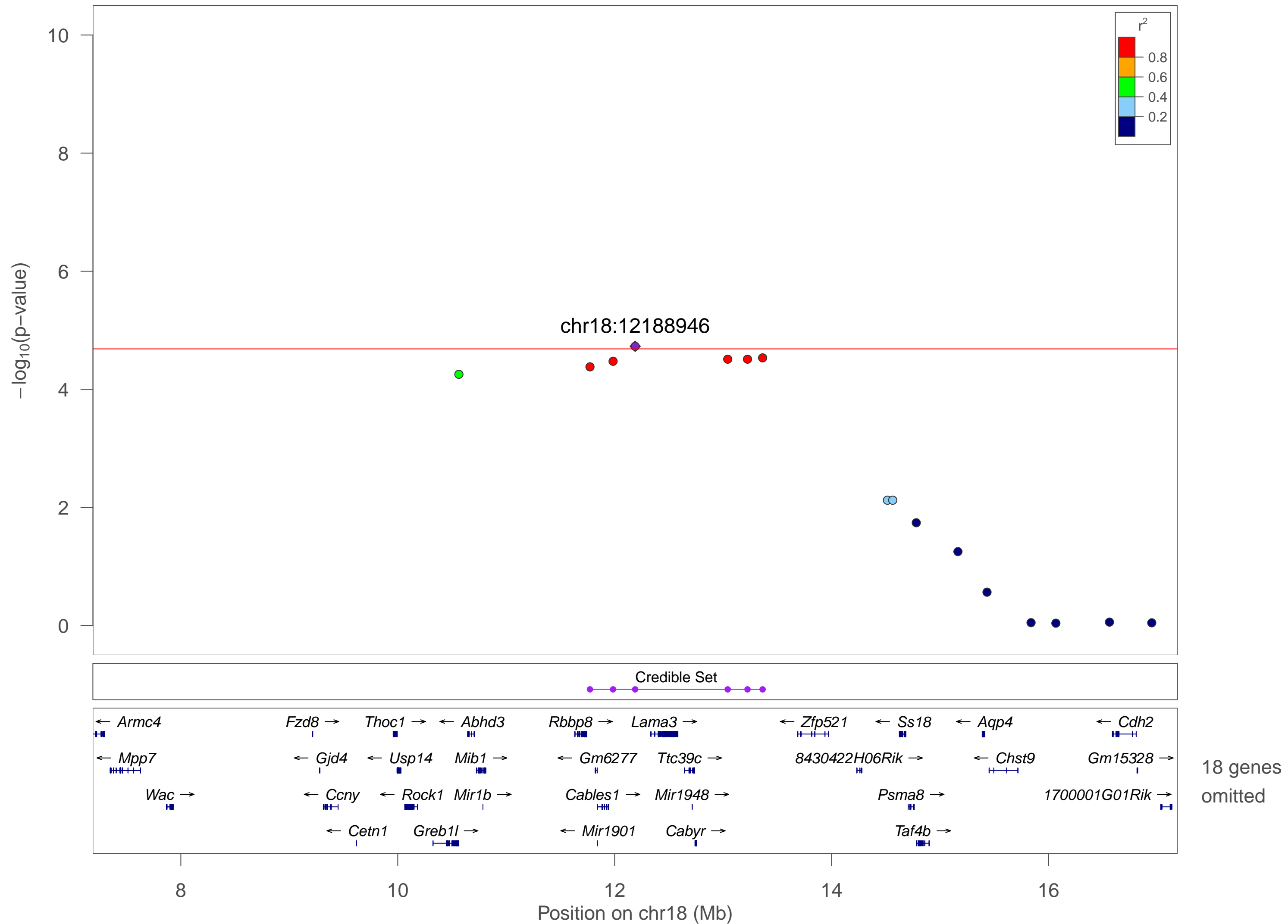
omitted Genes: Olfr606, Olfr609, Olfr610

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.1261267	Credible Set	purple
chr7:101743401	7	101.74340	0.1859423	Credible Set	purple
chr7:103659355	7	103.65936	0.1859423	Credible Set	purple
chr7:104149022	7	104.14902	0.1218390	Credible Set	purple
chr7:104162444	7	104.16244	0.1859423	Credible Set	purple
chr7:104581631	7	104.58163	0.1942073	Credible Set	purple

F34 Array, retic parameters cell hemoglobin concentration mean, repeat



date: Thu Oct 25 16:50:04 2018

build: F34Array

display range: chr18:7188946–17188946 [7188946–17188946]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:12188946

number of SNPs plotted: 17

min P-value: 1.87E–5 [chr18:12188946]

max P-value: 9.11E–1 [chr18:16068097]

omitted Genes: Colec12, Esco1, Snrpd1

omitted Genes: 4930563E18Rik, Mir133a–1, Mir1a–2

omitted Genes: 1010001N08Rik, Gata6, Tmem241

omitted Genes: Riok3, 3110002H16Rik, Npc1

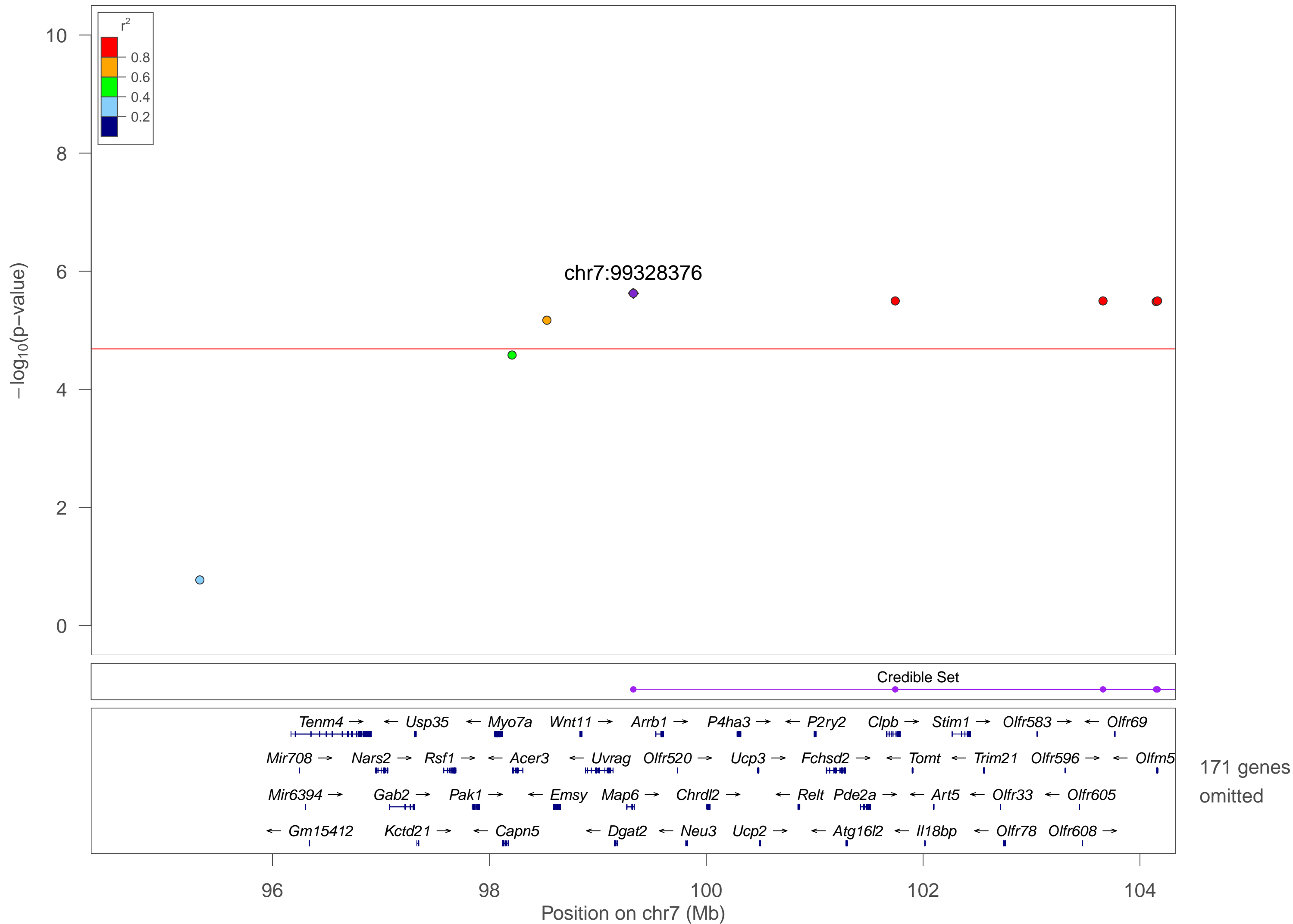
omitted Genes: Ankrd29, Osbp1a, Impact

omitted Genes: Hrh4, Kctd1, 4933424G05Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:11772246	18	11.77225	0.1187936	Credible Set	purple
chr18:11985350	18	11.98535	0.1459508	Credible Set	purple
chr18:12188946	18	12.18895	0.2541053	Credible Set	purple
chr18:13042279	18	13.04228	0.1577027	Credible Set	purple
chr18:13224851	18	13.22485	0.1577027	Credible Set	purple
chr18:13364094	18	13.36409	0.1657449	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 16:50:45 2018

build: F34Array

display range: chr7:94328376–104328376 [94328376–104328376]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:99328376

number of SNPs plotted: 9

min P-value: 2.37E–6 [chr7:99328376]

max P-value: 1.69E–1 [chr7:95330810]

omitted Genes: Gm15413, Alg8, Ndufc2

omitted Genes: Thrsp, Kctd14, Ints4

omitted Genes: Aamdc, Rsf1os1, Clns1a

omitted Genes: Aqp11, Gdpd4, Omp

omitted Genes: Gm16938, B3gnt6, Tsku

omitted Genes: Gucy2d, Lrrc32, Prkrir

omitted Genes: Mogat2, Gm26705, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr521

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekhh1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Phox2a, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr549, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

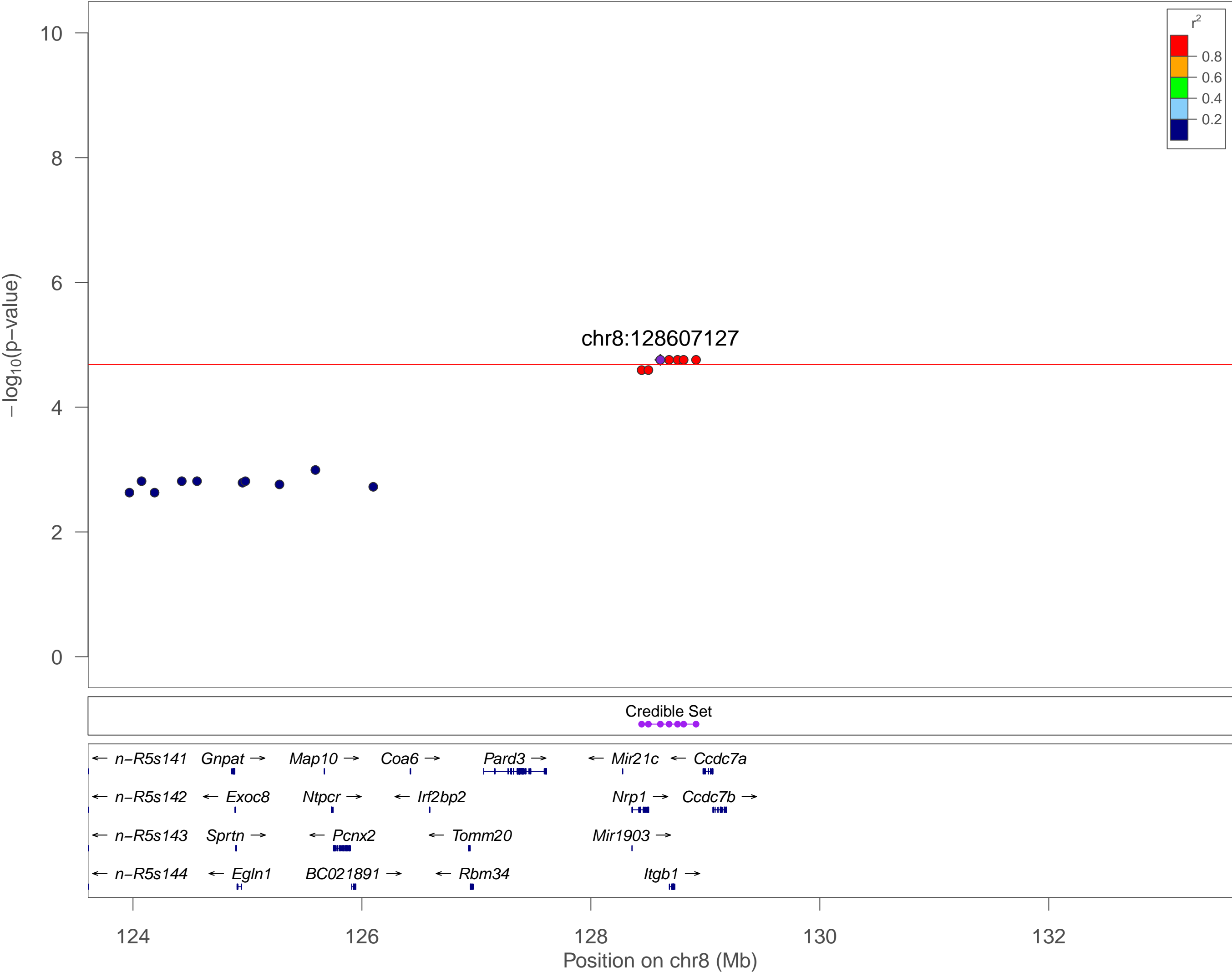
omitted Genes: Olfr569, Olfr570, Olfr571

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.2105870	Credible Set	purple
chr7:101743401	7	101.74340	0.1585895	Credible Set	purple
chr7:103659355	7	103.65936	0.1585895	Credible Set	purple
chr7:104149022	7	104.14902	0.1547852	Credible Set	purple
chr7:104162444	7	104.16244	0.1585895	Credible Set	purple
chr7:104581631	7	104.58163	0.1588594	Credible Set	purple

F34 Array, retic parameters concentration of hemoglobin in reticulocytes, repeat

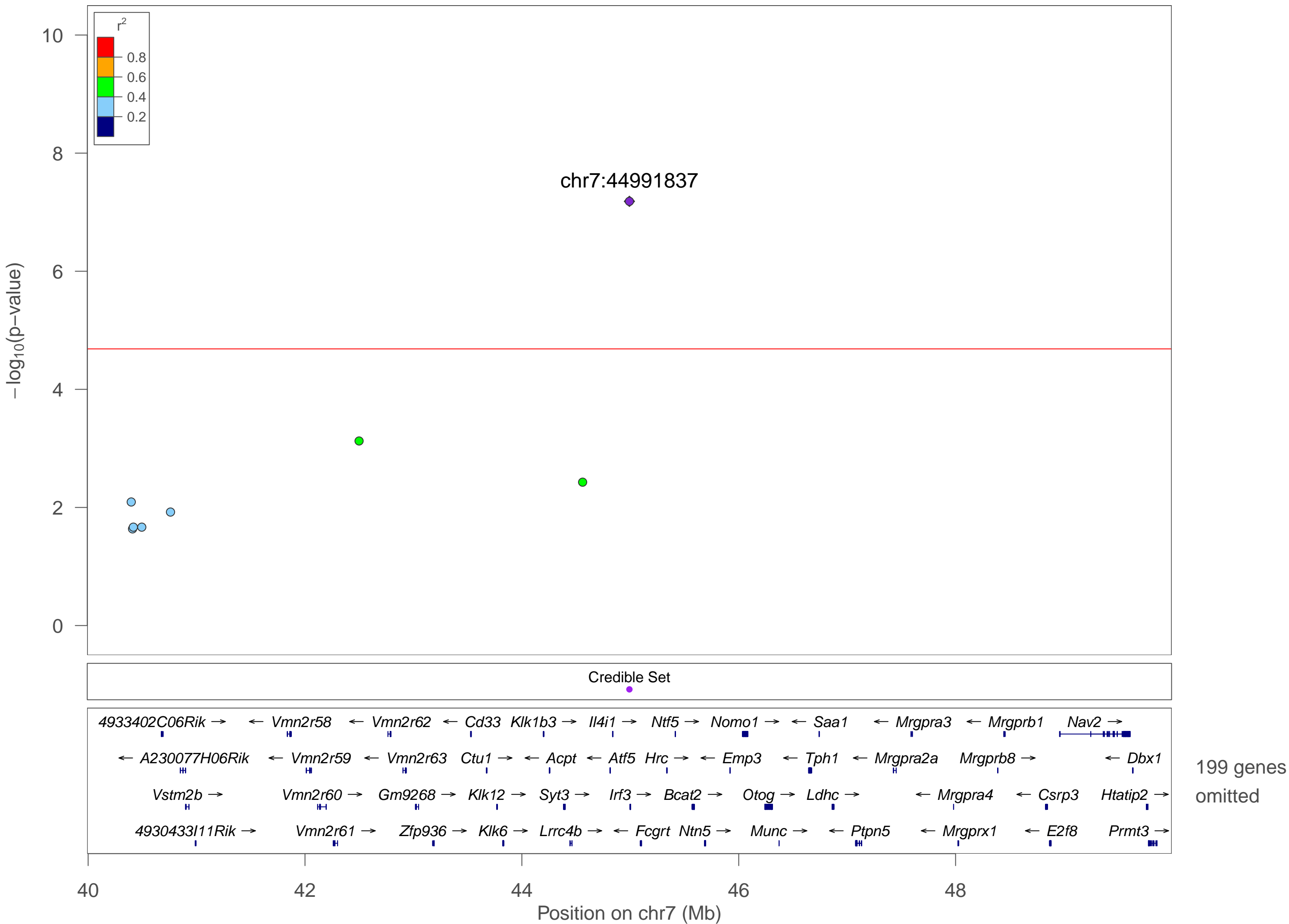


date: Thu Oct 25 16:50:52 2018
build: F34Array
display range: chr8:123607127–133607127 [123607127–133607127]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128607127
number of SNPs plotted: 18
min P-value: 1.74E–5 [chr8:128607127]
max P-value: 2.34E–3 [chr8:123968866]
omitted Genes: Gm25212, n-R5s146, Gm22291
omitted Genes: Gm23284, n-R5s149, Rhou
omitted Genes: 6030466F02Rik, Rab4a, Ccsap
omitted Genes: Acta1, Nup133, Abcb10
omitted Genes: Taf5l, Mir1967, Urb2
omitted Genes: Galnt2, Pgbd5, Cog2
omitted Genes: Agt, Capn9, 2310022B05Rik
omitted Genes: Ttc13, Arv1, Fam89a
omitted Genes: Trim67, 2810004N23Rik, Tsnax
omitted Genes: Disc1, Sipa1l2, 4930567H12Rik
omitted Genes: Kcnk1, Slc35f3, Gm17296
omitted Genes: 2610044O15Rik8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128443469	8	128.4435	0.1089254	Credible Set	purple
chr8:128502425	8	128.5024	0.1091172	Credible Set	purple
chr8:128607127	8	128.6071	0.1563915	Credible Set	purple
chr8:128683251	8	128.6833	0.1563915	Credible Set	purple
chr8:128757217	8	128.7572	0.1563915	Credible Set	purple
chr8:128810304	8	128.8103	0.1563915	Credible Set	purple
chr8:128918665	8	128.9187	0.1563915	Credible Set	purple

F34 Array, retic parameters cell hemoglobin distribution width, repeat



date: Thu Oct 25 16:51:02 2018

build: F34Array

display range: chr7:39991837–49991837 [39991837–49991837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44991837

number of SNPs plotted: 9

min P-value: 6.55E–8 [chr7:44991837]

max P-value: 2.31E–2 [chr7:40409511]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Pto1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Pmt1

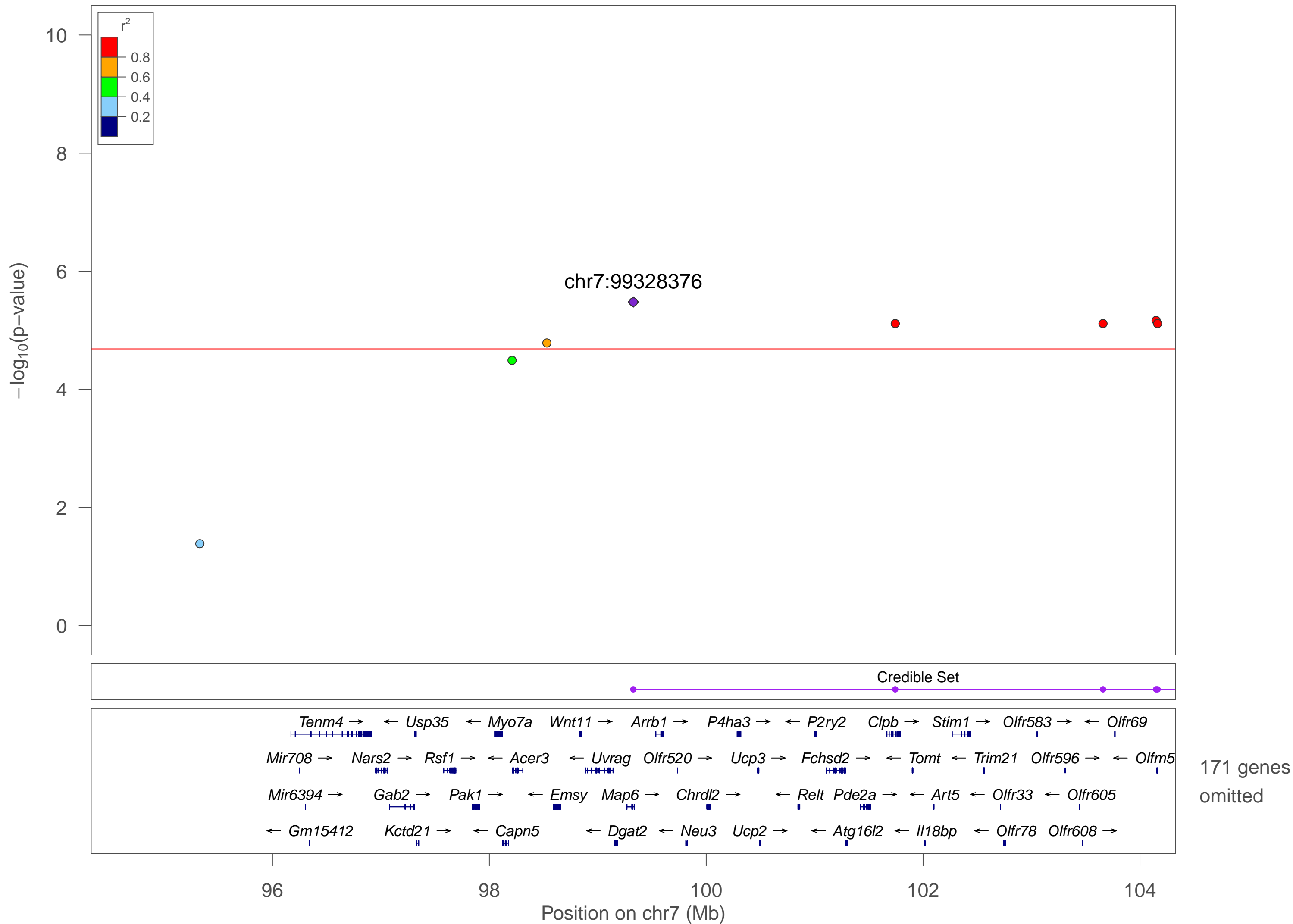
omitted Genes: Gm15545, Bcl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44991837	7	44.99184	1	Credible Set	purple

F34 Array, retic parameters cell hemoglobin distribution width, repeat



date: Thu Oct 25 16:51:12 2018

build: F34Array

display range: chr7:94328376–104328376 [94328376–104328376]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:99328376

number of SNPs plotted: 9

min P-value: 3.32E–6 [chr7:99328376]

max P-value: 4.12E–2 [chr7:95330810]

omitted Genes: Gm15413, Alg8, Ndufc2

omitted Genes: Thrsp, Kctd14, Ints4

omitted Genes: Aamdc, Rsf1os1, Clns1a

omitted Genes: Aqp11, Gdpd4, Omp

omitted Genes: Gm16938, B3gnt6, Tsku

omitted Genes: Gucy2d, Lrrc32, Prkrir

omitted Genes: Mogat2, Gm26705, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr521

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekhhb1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Phox2a, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr549, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

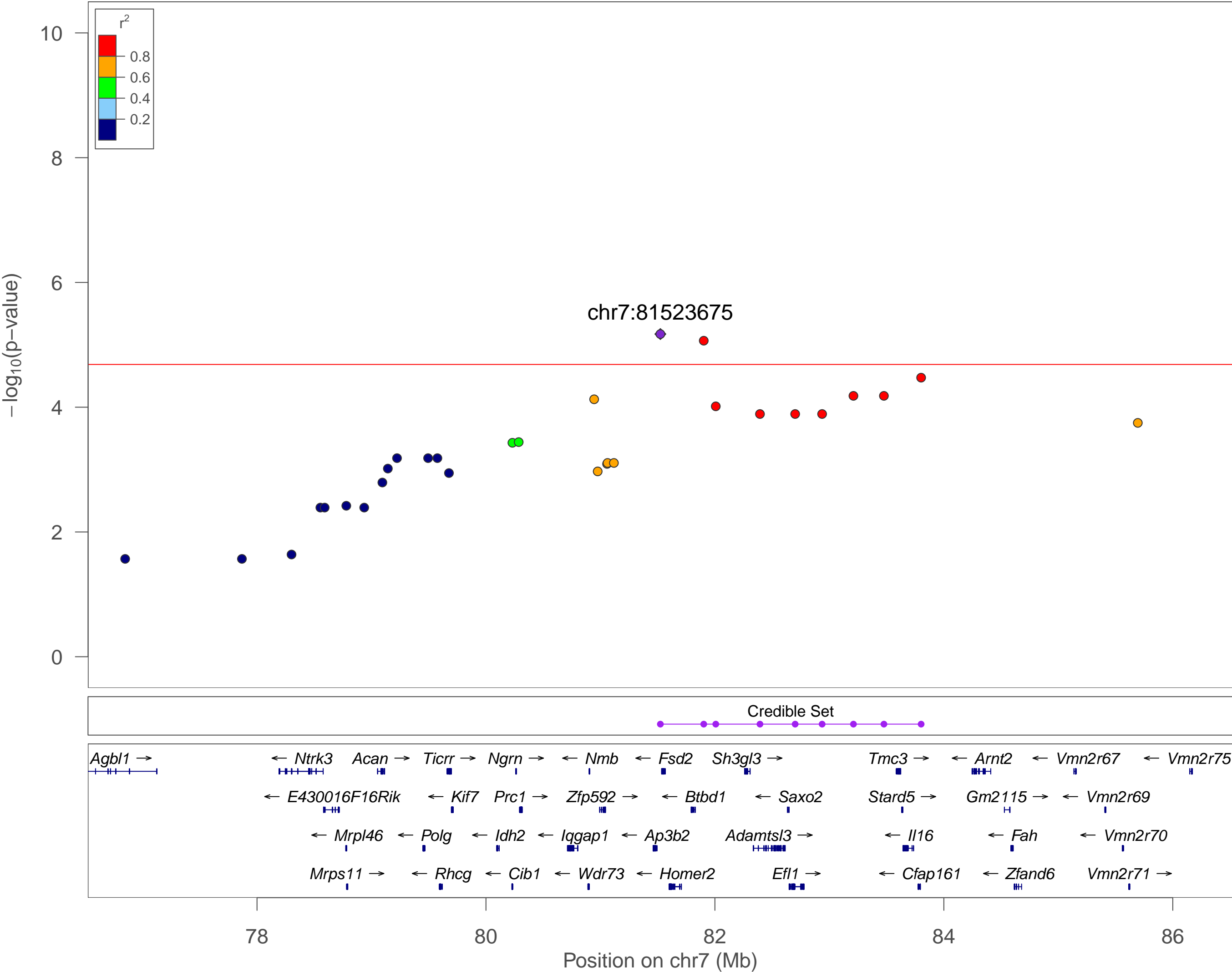
omitted Genes: Olfr569, Olfr570, Olfr571

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:99328376	7	99.32838	0.3050743	Credible Set	purple
chr7:101743401	7	101.74340	0.1364009	Credible Set	purple
chr7:103659355	7	103.65936	0.1364009	Credible Set	purple
chr7:104149022	7	104.14902	0.1531233	Credible Set	purple
chr7:104162444	7	104.16244	0.1364009	Credible Set	purple
chr7:104581631	7	104.58163	0.1325995	Credible Set	purple

F34 Array, retic parameters red cell distribution width, repeat

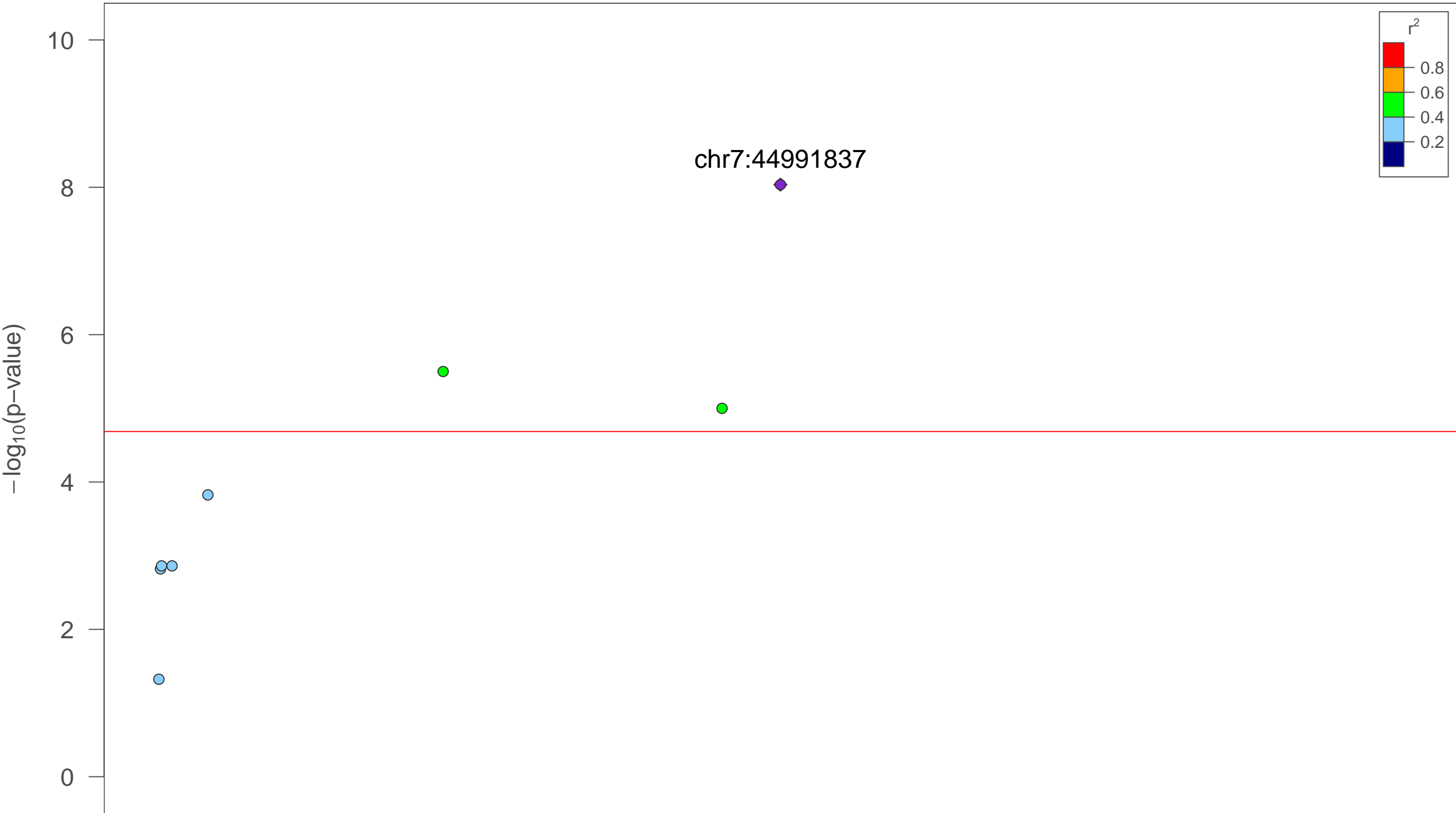


date: Thu Oct 25 16:51:19 2018
build: F34Array
display range: chr7:76523675–86523675 [76523675–86523675]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:81523675
number of SNPs plotted: 31
min P-value: 6.72E–6 [chr7:81523675]
max P-value: 2.7E–2 [chr7:76848144]
omitted Genes: Det1, Mir7–2, Aen
omitted Genes: Isg20, Gm26633, Hapln3
omitted Genes: Mfge8, Abhd2, Rlbp1
omitted Genes: Fanci, Mir9–3hg, Mir9–3
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Sema4b, Gdpgp1
omitted Genes: Ttl13, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Blm
omitted Genes: Crtc3, Gm15880, Zscan2
omitted Genes: Sec11a, Alpk3, Slc28a1
omitted Genes: Pde8a, Rps17, Cpeb1
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr310, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr304
omitted Genes: Olfr303, Olfr301, Olfr299
omitted Genes: Olfr298

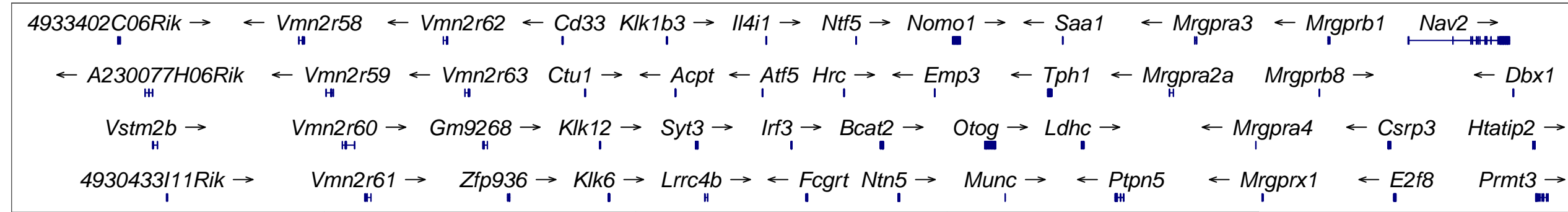
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81523675	7	81.52367	0.40068110	Credible Set	purple
chr7:81902543	7	81.90254	0.31702067	Credible Set	purple
chr7:82007699	7	82.00770	0.03171553	Credible Set	purple
chr7:82393693	7	82.39369	0.02426518	Credible Set	purple
chr7:82701107	7	82.70111	0.02426518	Credible Set	purple
chr7:82936666	7	82.93667	0.02426518	Credible Set	purple
chr7:83210268	7	83.21027	0.04570385	Credible Set	purple
chr7:83476529	7	83.47653	0.04570385	Credible Set	purple
chr7:83801589	7	83.80159	0.08637946	Credible Set	purple

F34 Array, retic parameters hemoglobin distribution width, repeat



Credible Set



199 genes
omitted

40 42 44 46 48

Position on chr7 (Mb)

date: Thu Oct 25 16:51:40 2018

build: F34Array

display range: chr7:39991837–49991837 [39991837–49991837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44991837

number of SNPs plotted: 9

min P-value: 9.2E–9 [chr7:44991837]

max P-value: 4.75E–2 [chr7:40397482]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prr1

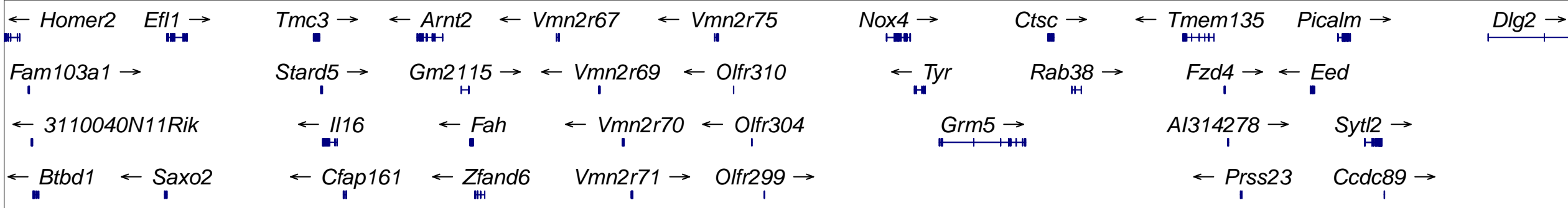
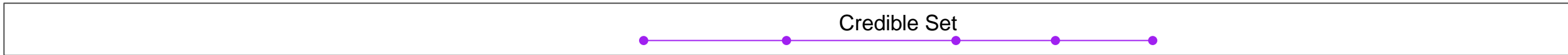
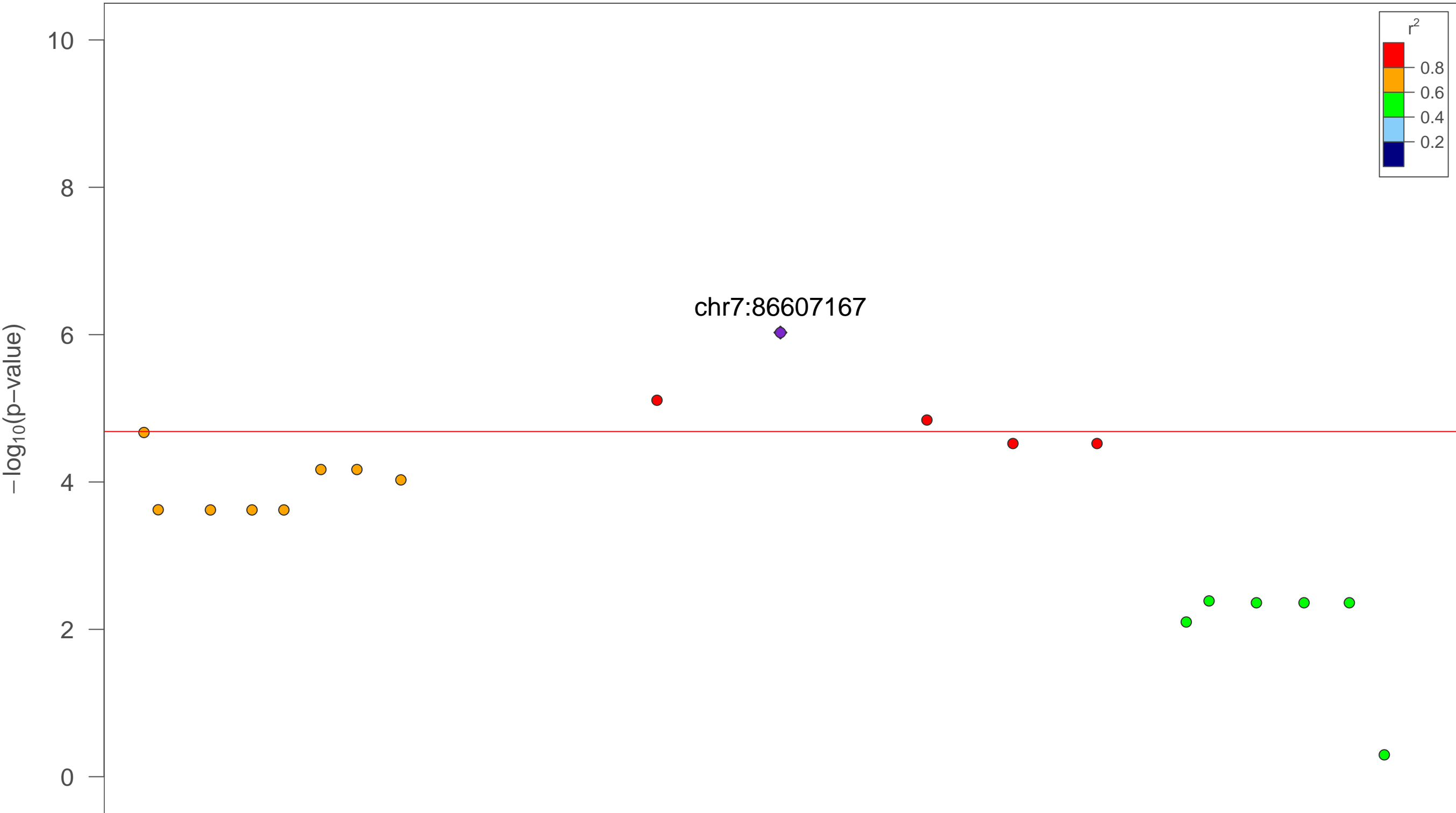
omitted Genes: Gm15545, Bcl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44991837	7	44.99184	1	Credible Set	purple

F34 Array, retic parameters hemoglobin distribution width, repeat



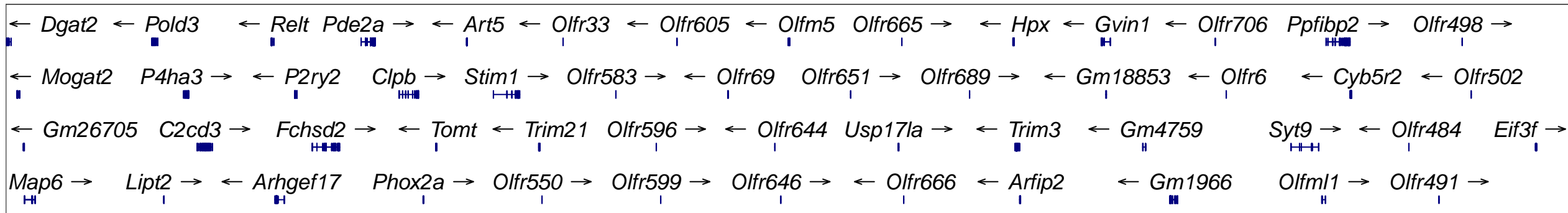
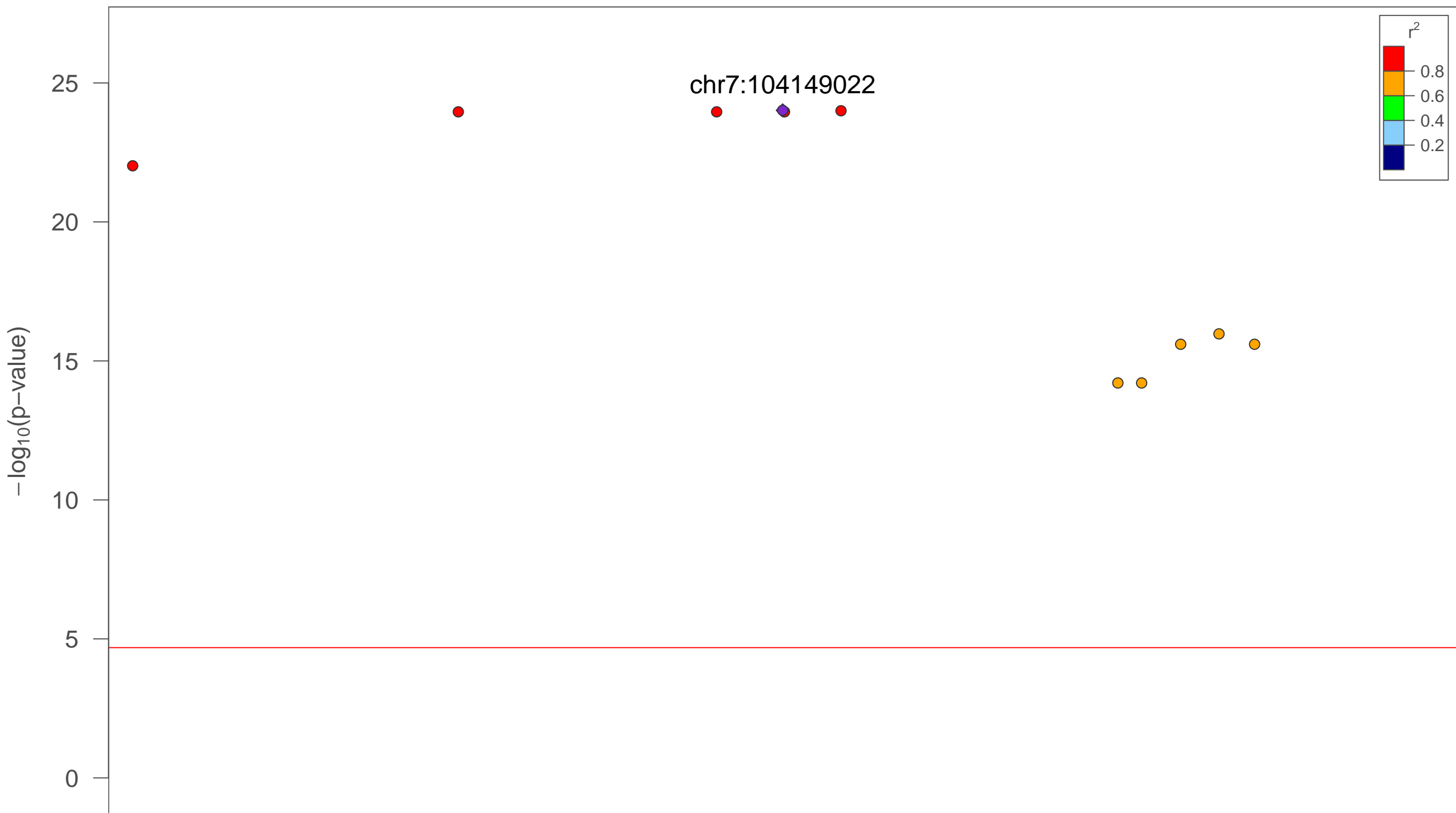
48 genes
omitted

date: Thu Oct 25 16:51:47 2018
build: F34Array
display range: chr7:81607167–91607167 [81607167–91607167]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:86607167
number of SNPs plotted: 20
min P-value: 9.36E–7 [chr7:86607167]
max P-value: 5.05E–1 [chr7:91070939]
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, Sh3gl3, Adamtsl3
omitted Genes: 4933406J10Rik, Mex3b, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79
omitted Genes: Me3, Ccdc81, l7Rn6
omitted Genes: E230029C05Rik, 2310010J17Rik, Ccdc83
omitted Genes: Crebzf, Tmem126a, Tmem126b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:85694603	7	85.69460	0.10284755	Credible Set	purple
chr7:86607167	7	86.60717	0.78343314	Credible Set	purple
chr7:87689885	7	87.68989	0.05701918	Credible Set	purple
chr7:88325650	7	88.32565	0.02835006	Credible Set	purple
chr7:88947234	7	88.94723	0.02835006	Credible Set	purple

F34 Array, retic parameters hemoglobin distribution width, repeat



277 genes
omitted

date: Thu Oct 25 16:51:30 2018

build: F34Array

display range: chr7:99149022–109149022 [99149022–109149022]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104149022

number of SNPs plotted: 12

min P-value: 9.67E–25 [chr7:104149022]

max P-value: 6.21E–15 [chr7:106634943]

omitted Genes: Serpinh1, Gdpd5, Khlh35

omitted Genes: Rps3, Snord15b, Snord15a

omitted Genes: Arrb1, Mir326, Tpbgl

omitted Genes: Slco2b1, Olfr520, Olfr521

omitted Genes: Neu3, Spcs2, Xrra1

omitted Genes: Rnf169, Chrdl2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: Ucp3, Ucp2, Dnajb13

omitted Genes: Coa4, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Fam168a, Mir3102

omitted Genes: P2ry6, Atg16l2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Art2b, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Il18bp

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr78, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

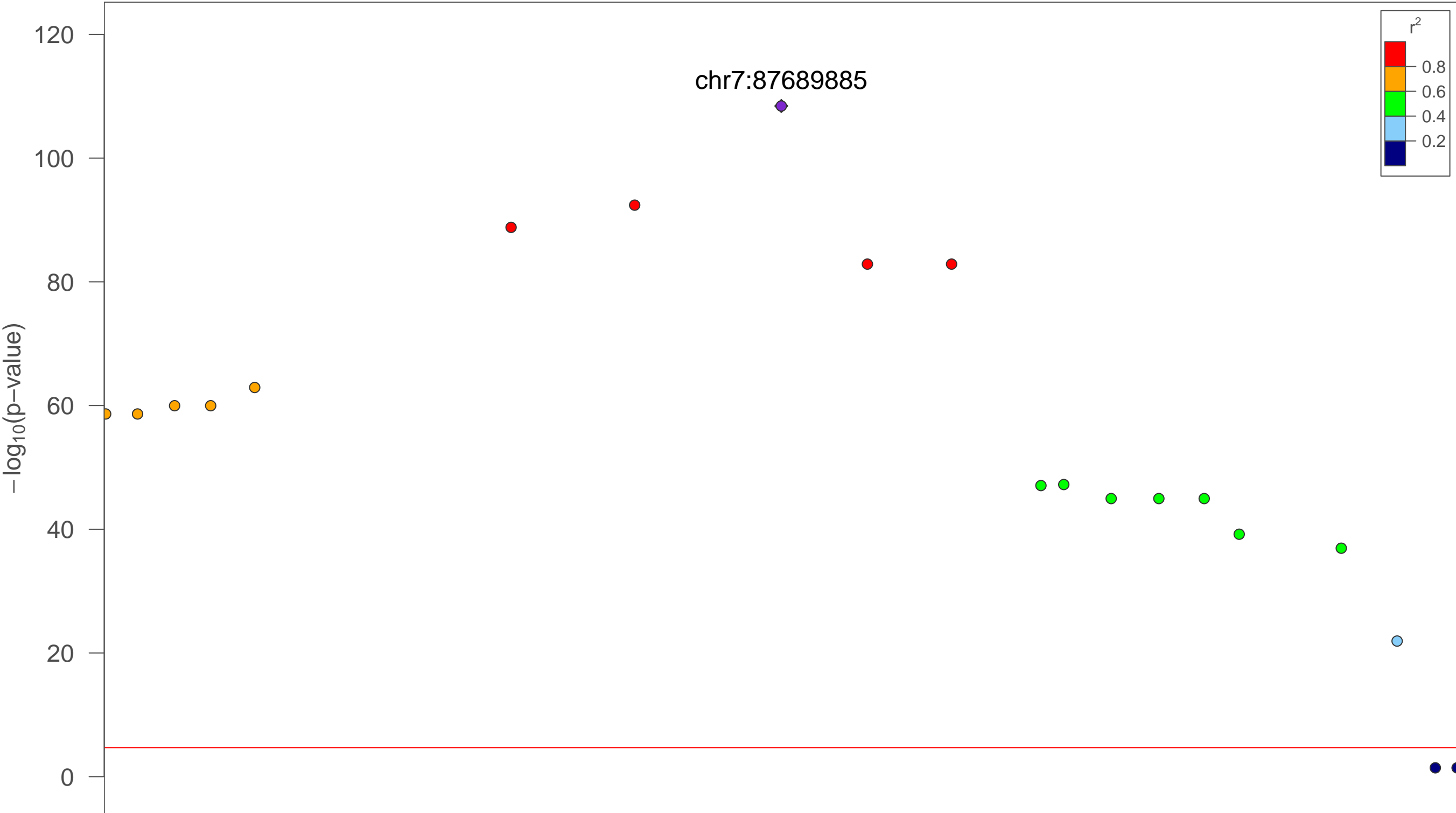
omitted Genes: Olfr594, Ucp17ld, Olfr597

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

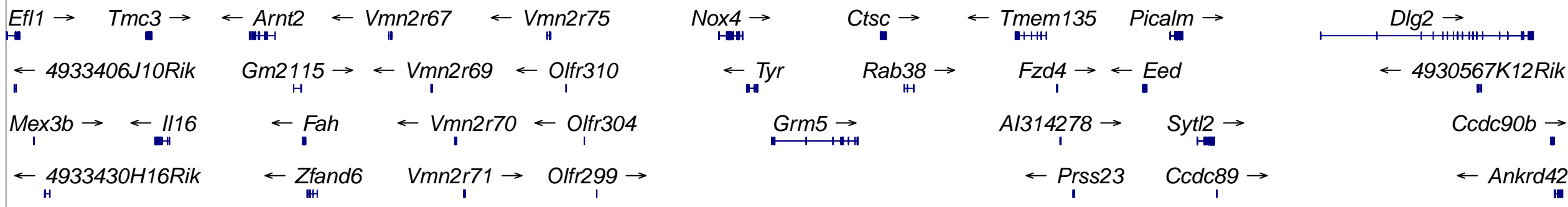
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101743401	7	101.7434	0.1909593	Credible Set	purple
chr7:103659355	7	103.6594	0.1909593	Credible Set	purple
chr7:104149022	7	104.1490	0.2159842	Credible Set	purple
chr7:104162444	7	104.1624	0.1909593	Credible Set	purple
chr7:104581631	7	104.5816	0.2088515	Credible Set	purple

F34 Array, coat color, albino



Credible Set



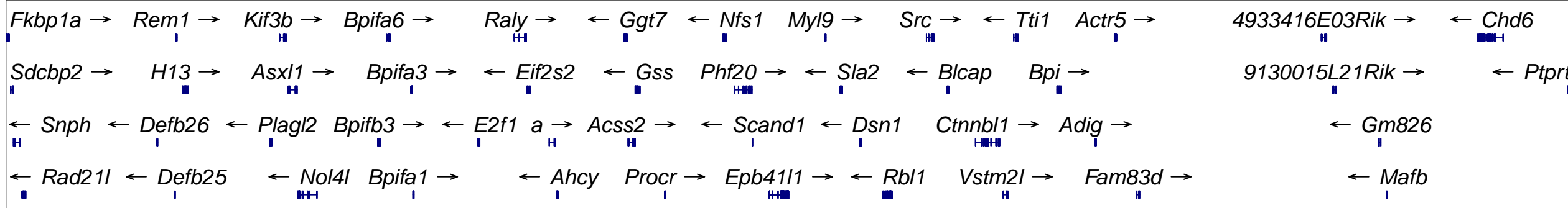
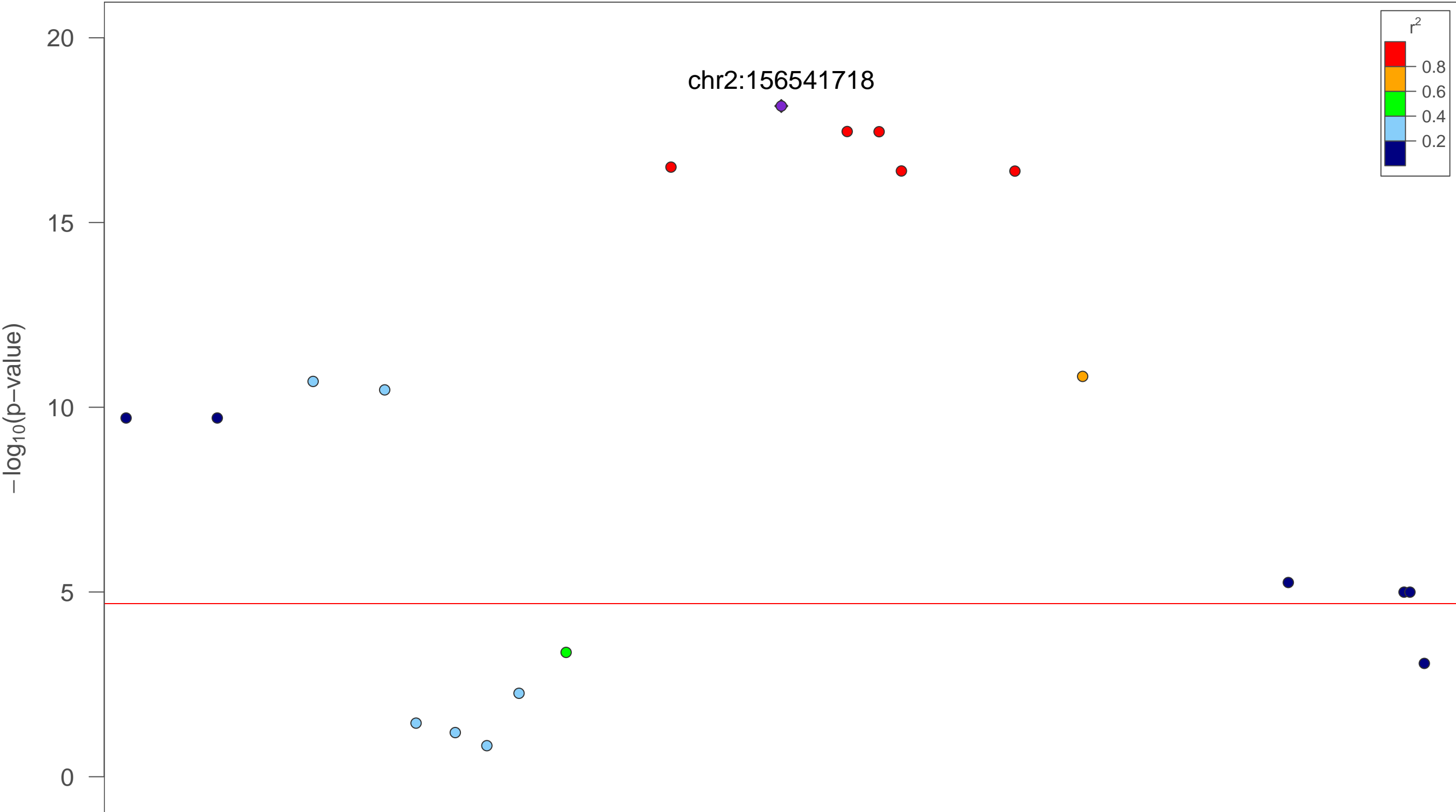
42 genes
omitted

date: Thu Oct 25 16:53:09 2018
build: F34Array
display range: chr7:82689885–92689885 [82689885–92689885]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87689885
number of SNPs plotted: 21
min P-value: 3.76E–109 [chr7:87689885]
max P-value: 3.73E–2 [chr7:92679853]
omitted Genes: Stard5, Cfap161, Mesdc1
omitted Genes: Mesdc2, Cemip, Abhd17c
omitted Genes: 2610206C17Rik, Olfr291, Olfr290
omitted Genes: Vmn2r65, Vmn2r66, Vmn2r68
omitted Genes: Vmn2r72, Vmn2r73, Vmn2r74
omitted Genes: Vmn2r76, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr303
omitted Genes: Olfr301, Olfr298, Olfr297
omitted Genes: Olfr295, Olfr294, Olfr293
omitted Genes: Olfr292, Folh1, Vmn2r77
omitted Genes: Vmn2r78, Vmn2r79, Me3
omitted Genes: Ccdc81, l7Rn6, E230029C05Rik
omitted Genes: 2310010J17Rik, Ccdc83, Crebzf
omitted Genes: Tmem126a, Tmem126b, Pcf11

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87689885	7	87.68989	1	Credible Set	purple

F34 Array, coat color, agouti



136 genes
omitted

date: Thu Oct 25 16:53:19 2018

build: F34Array

display range: chr2:151541718–161541718 [151541718–161541718]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:156541718

number of SNPs plotted: 21

min P-value: 7.02E–19 [chr2:156541718]

max P-value: 1.44E–1 [chr2:154367620]

omitted Genes: Tmem74b, Psmf1, Rspo4

omitted Genes: Angpt4, Mir1953, Fam110a

omitted Genes: Slc52a3, Scrt2, Srxn1

omitted Genes: Tcf15, Csnk2a1, Tbc1d20

omitted Genes: Rbck1, Trib3, Gm14164

omitted Genes: Nrsn2, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb28, Defb29

omitted Genes: Defb21, Defb19, Defb45

omitted Genes: Defb36, Mcts2, Id1

omitted Genes: Cox4i2, Bcl2l1, Tpx2

omitted Genes: Mir5622, Mylk2, Foxs1

omitted Genes: Dusp15, Ttl9, Pdrg1

omitted Genes: Xkr7, Ccm2l, Hck

omitted Genes: Tm9sf4, Tspyl3, Pofut1

omitted Genes: 2500004C02Rik, Commd7, Dnmt3b

omitted Genes: Mapre1, Efcab8, Sun5

omitted Genes: Bpifb2, Bpifb6, Bpifb4

omitted Genes: Bpifa2, Bpifa5, Bpifb1

omitted Genes: Bpifb5, Bpifb9a, Bpifb9b

omitted Genes: Cdk5rap1, Snta1, Cbfa2t2

omitted Genes: Necab3, 1700003F12Rik, Actl10

omitted Genes: Pxmp4, Zfp341, Chmp4b

omitted Genes: 2310005A03Rik, Itch, Dynlrb1

omitted Genes: Map1lc3a, Pigu, Mir695

omitted Genes: Trp53inp2, Ncoa6, Acss2os

omitted Genes: Myh7b, Mir499, Trpc4ap

omitted Genes: Edem2, Mmp24, BC029722

omitted Genes: Eif6, Fam83c, Uqcc1

omitted Genes: Gdf5, Cep250, 6430550D23Rik

omitted Genes: Ergic3, Fer1l4, Spag4

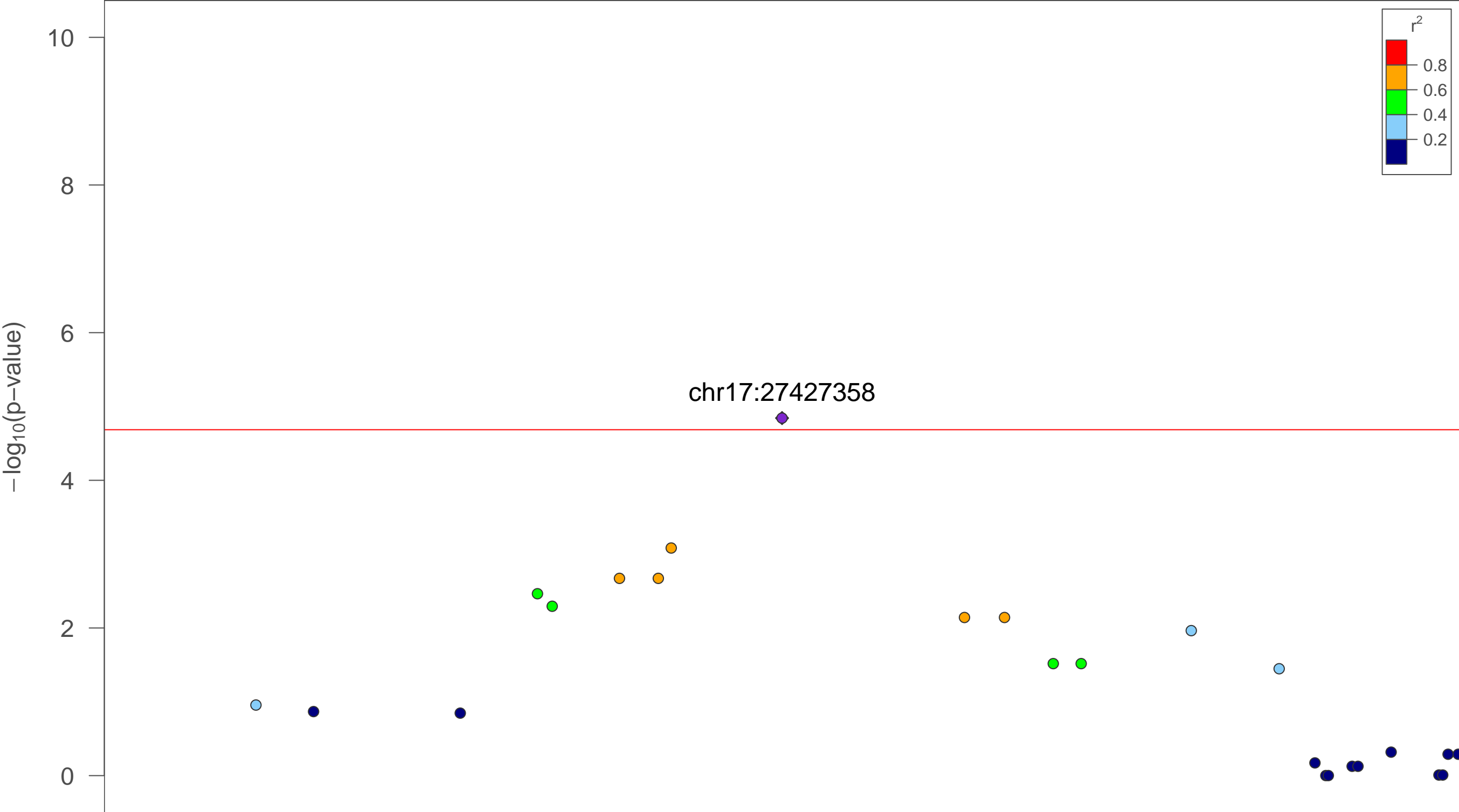
omitted Genes: Cnna1, Rbm12, Rame1

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

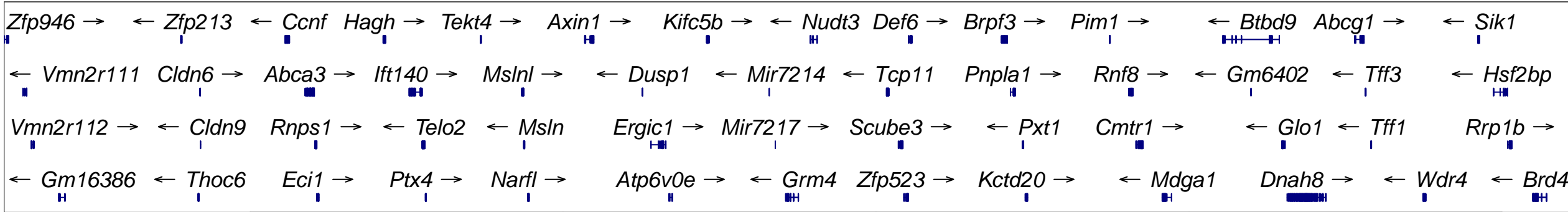
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155727021	2	155.7270	0.01582778	Credible Set	purple
chr2:156541718	2	156.5417	0.67845350	Credible Set	purple
chr2:157028101	2	157.0281	0.14122750	Credible Set	purple
chr2:157263817	2	157.2638	0.13963072	Credible Set	purple
chr2:157428508	2	157.4285	0.01247776	Credible Set	purple
chr2:158266555	2	158.2666	0.01238273	Credible Set	purple

F34 Array, open field, distance travelled in periphery (cm)



Credible Set



234 genes
omitted

date: Thu Oct 25 16:53:43 2018

build: F34Array

display range: chr17:22427358–32427358 [22427358–32427358]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:27427358

number of SNPs plotted: 26

min P-value: 1.44E–5 [chr17:27427358]

max P-value: 9.97E–1 [chr17:31438721]

omitted Genes: Zfp945, Vmn2r113, Vmn2r-ps129

omitted Genes: Zfp40, Vmn2r114, Vmn2r115

omitted Genes: Vmn2r116, Vmn2r117, 6330415G19Rik

omitted Genes: Zfp13, Zscan10, Mmp25

omitted Genes: Ccdc64b, Hcfc1r1, Tnfrsf12a

omitted Genes: Pkmyt1, Paqr4, Kremen2

omitted Genes: 9530082P21Rik, Flywch1, Flywch2

omitted Genes: Srrm2, Mir5125, Tceb2

omitted Genes: Prss33, Prss41, Prss32

omitted Genes: Prss21, Dcpp1, Dcpp2

omitted Genes: Dcpp3, Sbp, Sbpl

omitted Genes: Prss30, Prss22, Prss27

omitted Genes: Kctd5, Pdpk1, Amdhd2

omitted Genes: Atp6v0c, Tbc1d24, Ntn3

omitted Genes: 1600002H07Rik, Mir5134, Mir6965

omitted Genes: Abca17, D330041H03Rik, Dnase1l2

omitted Genes: E4f1, Pgp, Mlst8

omitted Genes: Bricd5, Caskin1, Traf7

omitted Genes: Rab26os, Rab26, Pkd1

omitted Genes: Tsc2, Nthl1, Slc9a3r2

omitted Genes: Npw, Zfp598, Syngn3

omitted Genes: Gfer, Noxo1, Tbl3

omitted Genes: Rnf151, Snhg9, Snora78

omitted Genes: Rps2, Snora64, Ndubf10

omitted Genes: Rpl3l, Msrb1, Hs3st6

omitted Genes: Meib, Fahd1, Igfbp3

omitted Genes: Nubp2, Spsb3, Eme2

omitted Genes: Mrps34, Nme3, Mapk8ip3

omitted Genes: Hn1l, Cramp1l, Tmem204

omitted Genes: Clcn7, Ccdc154, BC003965

omitted Genes: Unkl, Gnptg, Tnfrsf12a

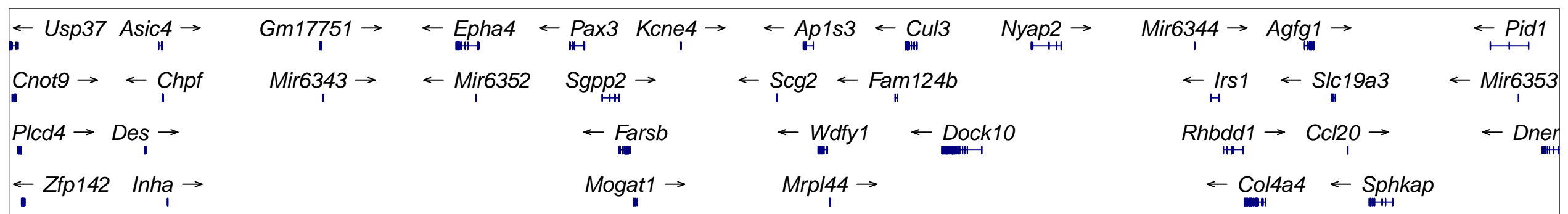
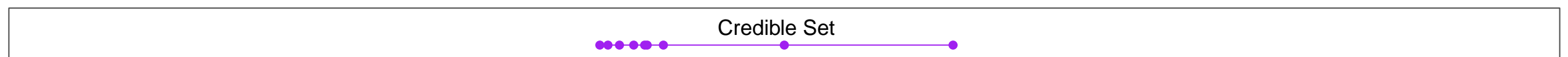
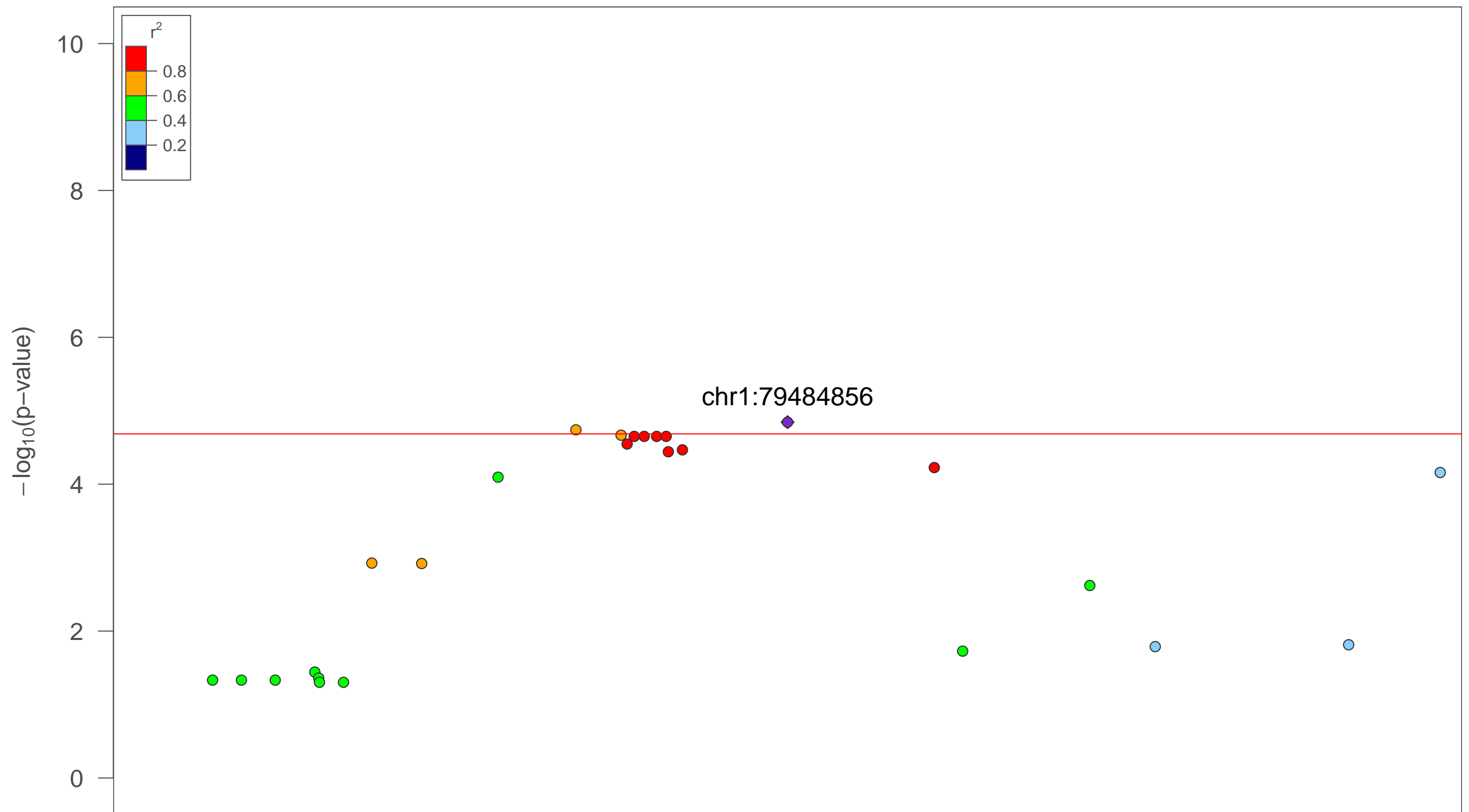
omitted Genes: Baicp3, Mir3517, Ube2i

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27427358	17	27.42736	1	Credible Set	purple

F34 Array, tibia length (cm)



46 genes
omitted

76

78

80

82

84

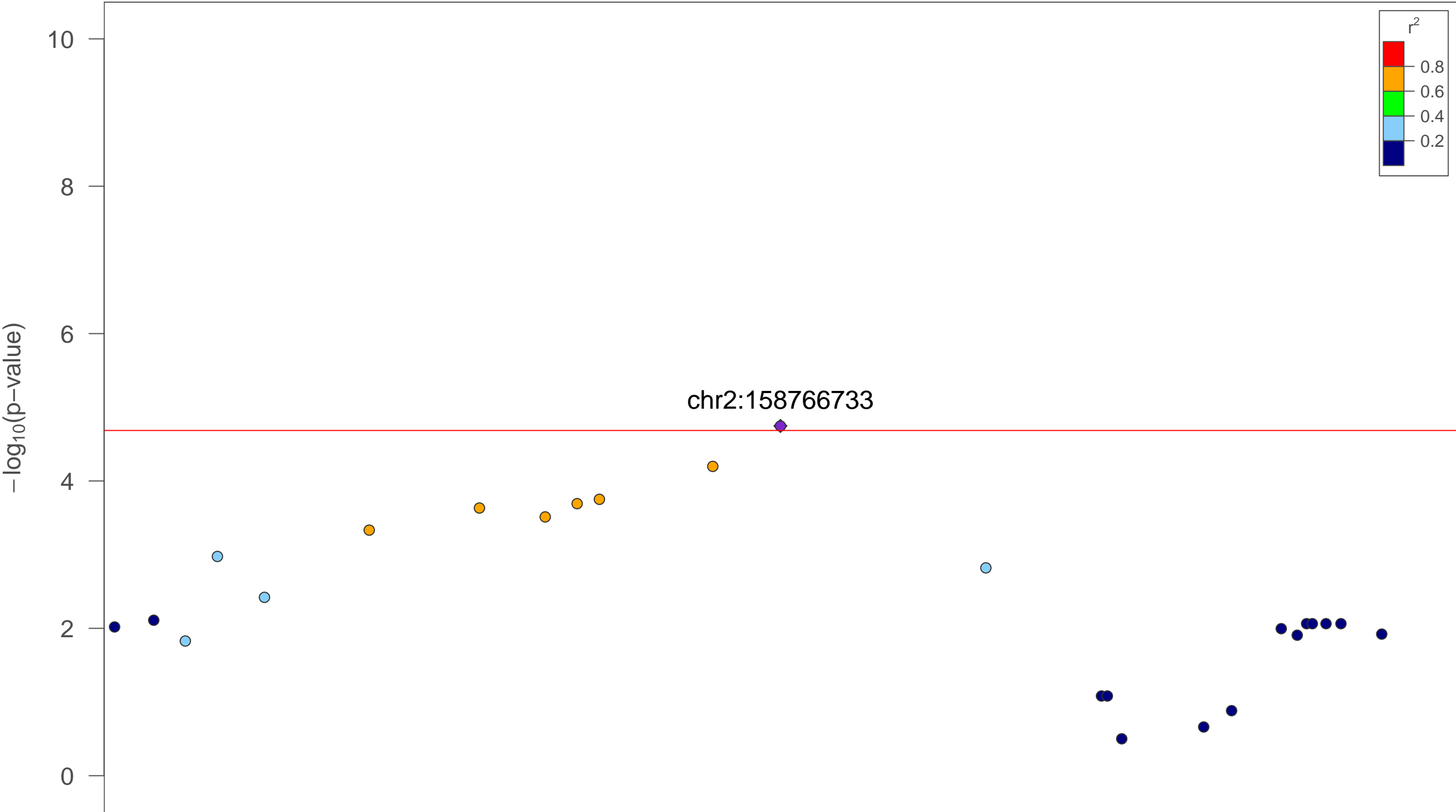
Position on chr1 (Mb)

date: Thu Oct 25 16:53:49 2018
build: F34Array
display range: chr1:74484856–84484856 [74484856–84484856]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:79484856
number of SNPs plotted: 27
min P-value: 1.43E–5 [chr1:79484856]
max P-value: 4.98E–2 [chr1:76013512]
omitted Genes: Bcs1l, Rnf25, Stk36
omitted Genes: Tll4, Cyp27a1, Prkag3
omitted Genes: Wnt6, Wnt10a, Cdk5r2
omitted Genes: Fev, Cryba2, Mir375
omitted Genes: Ccdc108, Ihh, Nhej1
omitted Genes: Slc23a3, Cnppd1, Fam134a
omitted Genes: Zfand2b, Abcb6, Atg9a
omitted Genes: Ankzf1, Glb1l, Stk16
omitted Genes: Tuba4a, A630095N17Rik, Dnajb2
omitted Genes: Ptpn, Resp18, Dnpep
omitted Genes: Gm15179, Speg, Gmppa
omitted Genes: Tmem198, Obsl1, Stk11ip
omitted Genes: Slc4a3, Utp14b, Acsl3
omitted Genes: Serpine2, 1700016L21Rik, Col4a3
omitted Genes: Mff, Tm4sf20, Krtap28–13
omitted Genes: Daw1

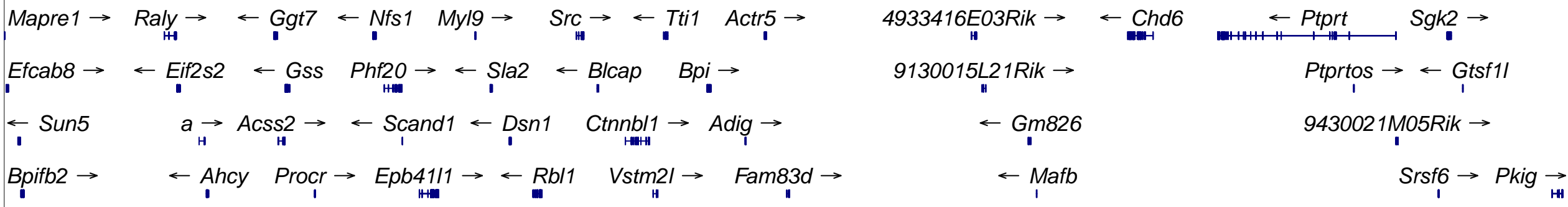
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:78295279	1	78.29528	0.09930320	Credible Set	purple
chr1:78347824	1	78.34782	0.12464403	Credible Set	purple
chr1:78421886	1	78.42189	0.12464403	Credible Set	purple
chr1:78513810	1	78.51381	0.12464403	Credible Set	purple
chr1:78584391	1	78.58439	0.12464403	Credible Set	purple
chr1:78600600	1	78.60060	0.07883549	Credible Set	purple
chr1:78705181	1	78.70518	0.08339751	Credible Set	purple
chr1:79484856	1	79.48486	0.19063059	Credible Set	purple
chr1:80573002	1	80.57300	0.04925710	Credible Set	purple

F34 Array, heart_tibia.gs_wt



Credible Set



106 genes
omitted

date: Thu Oct 25 16:53:57 2018

build: F34Array

display range: chr2:153766733–163766733 [153766733–163766733]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:158766733

number of SNPs plotted: 26

min P-value: 1.79E–5 [chr2:158766733]

max P-value: 3.15E–1 [chr2:161289622]

omitted Genes: Bpifb6, Bpifb3, Bpifb4

omitted Genes: Bpifa6, Bpifa2, Bpifa3

omitted Genes: Bpifa1, Bpifa5, Bpifb1

omitted Genes: Bpifb5, Bpifb9a, Bpifb9b

omitted Genes: Cdk5rap1, Snta1, Cbfa2t2

omitted Genes: Necab3, 1700003F12Rik, Actl10

omitted Genes: E2f1, Pxmp4, Zfp341

omitted Genes: Chmp4b, 2310005A03Rik, Itch

omitted Genes: Dynlrb1, Map1lc3a, Pigu

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2os, Myh7b, Mir499

omitted Genes: Trpc4ap, Edem2, Mmp24

omitted Genes: BC029722, Eif6, Fam83c

omitted Genes: Uqcc1, Gdf5, Cep250

omitted Genes: 6430550D23Rik, Ergic3, Fer1l4

omitted Genes: Spag4, Cpne1, Rbm12

omitted Genes: Romo1, Rbm39, Cnbd2

omitted Genes: 2900097C17Rik, Aar2, Gm14169

omitted Genes: Dlgap4, 4930405A21Rik, Tgif2

omitted Genes: 5430405H02Rik, 1110008F13Rik, Ndr3

omitted Genes: Soga1, Tldc2, Samhd1

omitted Genes: Mroh8, Rpn2, Ghrh

omitted Genes: Manbal, Nnat, Rprd1b

omitted Genes: 2010009K17Rik, Tgm2, D630003M21Rik

omitted Genes: 1700060C20Rik, Mir7685, Lbp

omitted Genes: Snhg17, Snhg11, Ralgapb

omitted Genes: Arhgap40, Gm14204, Slc32a1

omitted Genes: Mir3474, Ppp1r16b, Dhx35

omitted Genes: Top1, Plcg1, Zhx3

omitted Genes: Lpin3, Emilin3, L3mbtl1

omitted Genes: Ifi52, Mybl2, Mir7003

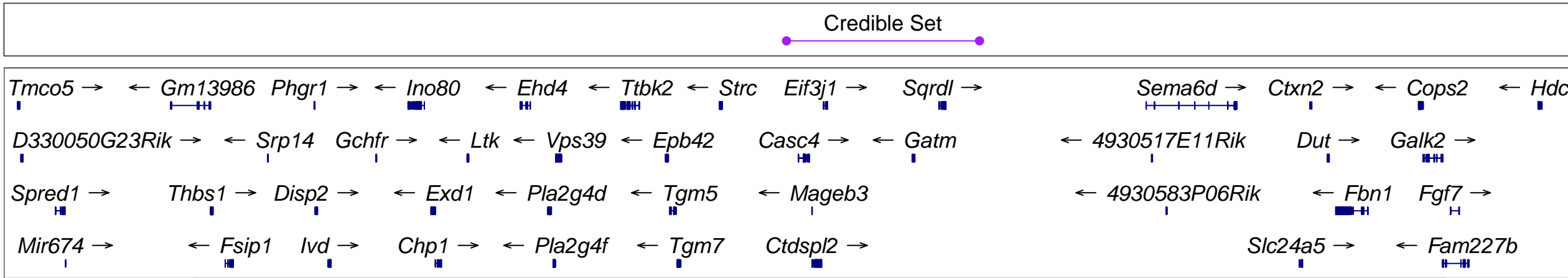
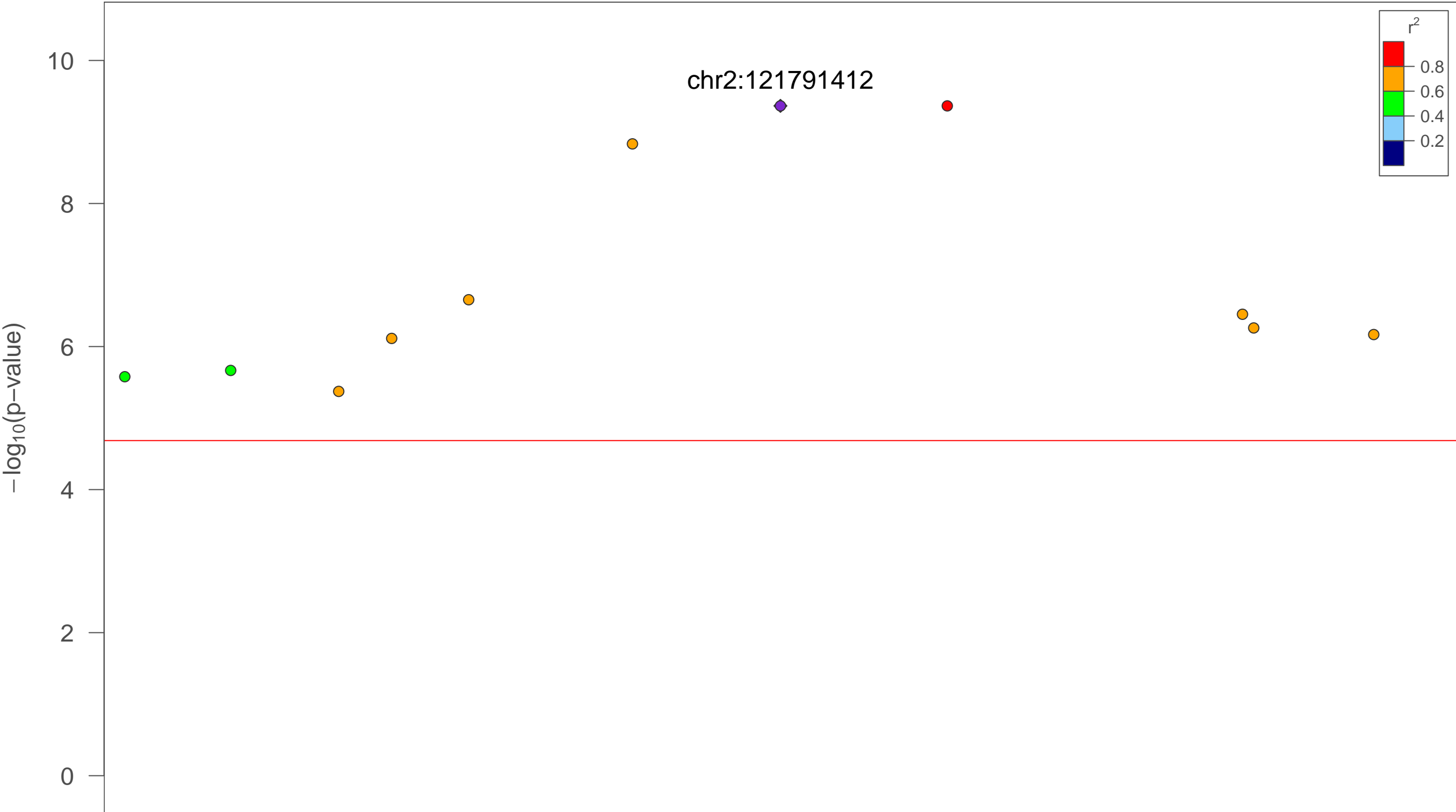
omitted Genes: Tor2, Inh2, Ocor1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:158766733	2	158.7667	1	Credible Set	purple

F34 Array, iron content in liver



109 genes
omitted

date: Thu Oct 25 16:54:14 2018

build: F34Array

display range: chr2:116791412–126791412 [116791412–126791412]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:121791412

number of SNPs plotted: 12

min P-value: 4.31E–10 [chr2:121791412]

max P-value: 4.23E–6 [chr2:118526291]

omitted Genes: Fam98b, Rasgrp1, Gm13985

omitted Genes: 4930412B13Rik, Gpr176, 1700054M17Rik

omitted Genes: Eif2ak4, Bmf, Bub1b

omitted Genes: Pak6, Ankrd63, Plcb2

omitted Genes: Inafm2, A430105I19Rik, Knstrn

omitted Genes: Bahd1, Chst14, Ccdc32

omitted Genes: Rpusd2, Casc5, Rad51

omitted Genes: Rmdn3, Dnajc17, Gm14137

omitted Genes: Zfyve19, Ppp1r14d, Spint1

omitted Genes: Rhov, Vps18, Gm14207

omitted Genes: Dll4, Chac1, 1700020I14Rik

omitted Genes: Oip5, Nusap1, Ndufaf1

omitted Genes: Rtf1, Itpka, Rpap1

omitted Genes: Tyro3, Mga, Mapkbp1

omitted Genes: Mir7665, Jmjd7, Gm28042

omitted Genes: Pla2g4b, Pla2g4e, Tmem87a

omitted Genes: Ganc, 4931402G19Rik, Capn3

omitted Genes: Zfp106, Snap23, Lrrc57

omitted Genes: Haus2, Cdan1, AV039307

omitted Genes: Ubr1, Tmem62, Ccndbp1

omitted Genes: Lcmt2, Adal, Zscan29

omitted Genes: Tubgcp4, Trp53bp1, Map1a

omitted Genes: Ppip5k1, Ckmt1, Catsper2

omitted Genes: Pdla3, Ell3, Serf2

omitted Genes: Serinc4, Hypk, Mfap1b

omitted Genes: Mfap1a, Wdr76, Frmd5

omitted Genes: Spg11, Patl2, B2m

omitted Genes: Trim69, Terb2, Sord

omitted Genes: Duox2, Duoxa2, Duoxa1

omitted Genes: Duox1, Shf, Slc28a2

omitted Genes: Bambi-ps1, Gm14085, Spata5l1

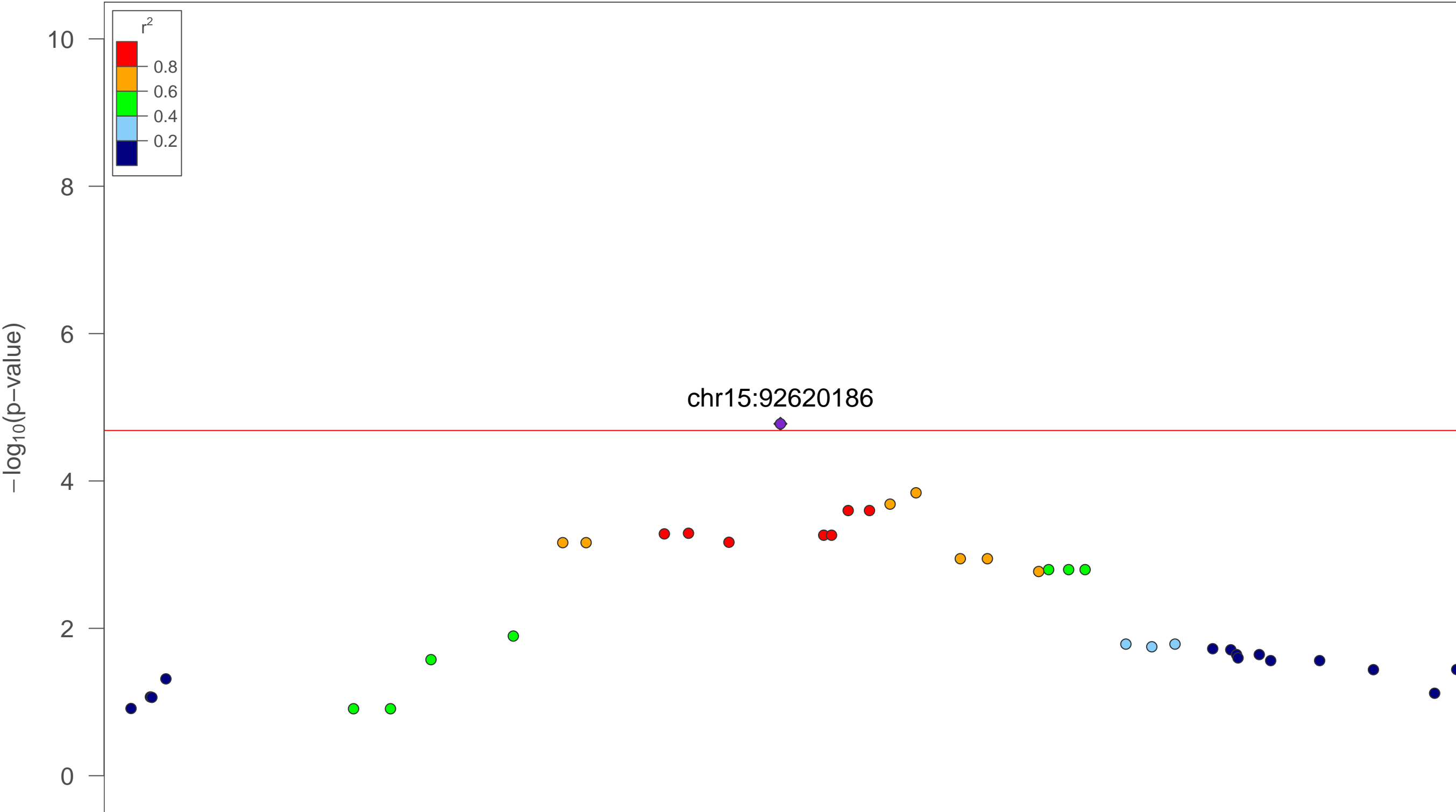
omitted Genes: AA467107, Mir147, Slc20a4

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

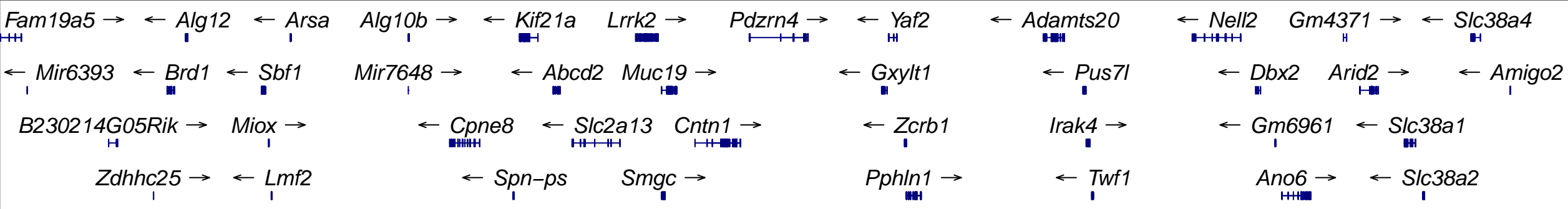
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121791412	2	121.7914	0.5	Credible Set	purple
chr2:123024804	2	123.0248	0.5	Credible Set	purple

F34 Array, iron content in liver



Credible Set



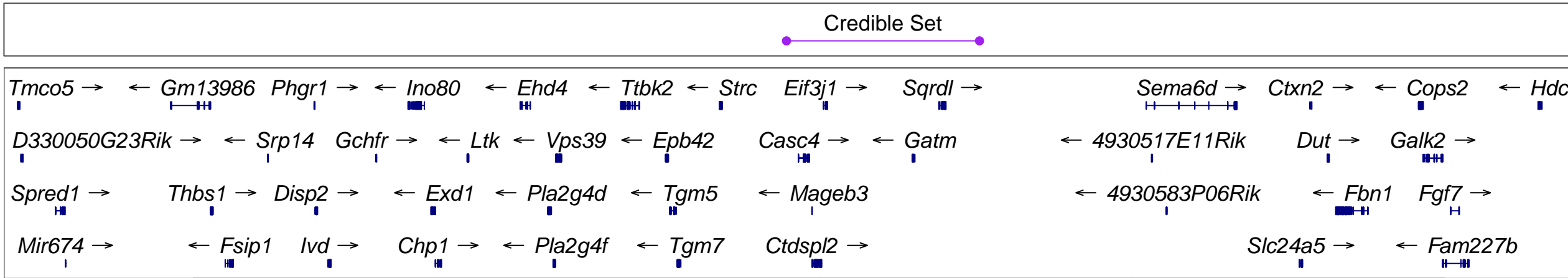
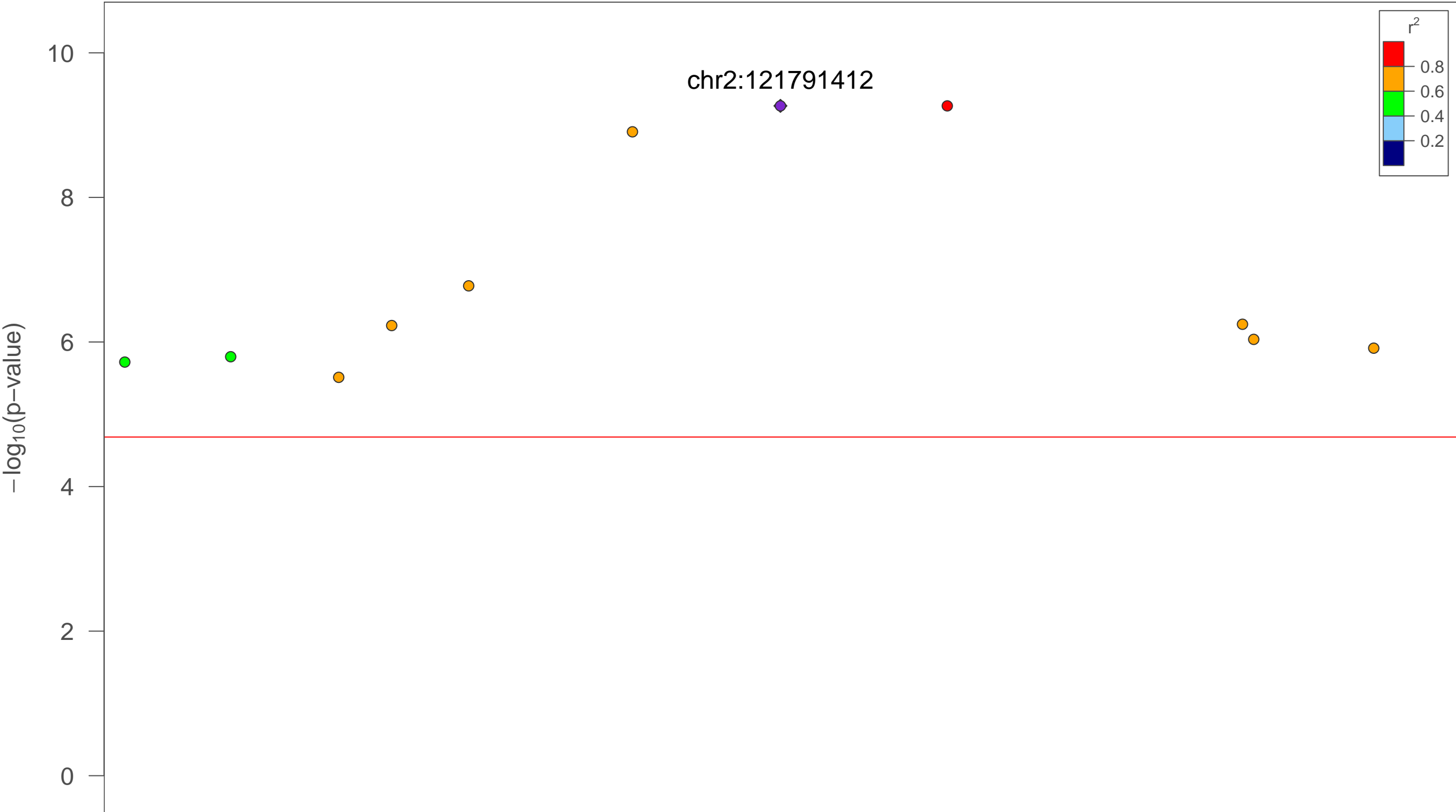
47 genes
omitted

date: Thu Oct 25 16:54:05 2018
build: F34Array
display range: chr15:87620186–97620186 [87620186–97620186]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr15:92620186
number of SNPs plotted: 40
min P-value: 1.68E–5 [chr15:92620186]
max P-value: 1.23E–1 [chr15:89464513]
omitted Genes: Zbed4, Creld2, Pim3
omitted Genes: Ttl8, Mlc1, Mov10l1
omitted Genes: Panx2, 1810021B22Rik, Trabd
omitted Genes: Selo, Tubgcp6, Hdac10
omitted Genes: Mapk12, Mapk11, Plxnb2
omitted Genes: Mir7118, Dennd6b, Mir6958
omitted Genes: Ppp6r2, Mir6959, Adm2
omitted Genes: Ncaph2, Sco2, Tymp
omitted Genes: Odf3b, Klhdc7b, Syce3
omitted Genes: Cpt1b, Gm44502, Chkb
omitted Genes: Mapk8ip2, C230037L18Rik, Shank3
omitted Genes: Acr, Rabl2, Syt10
omitted Genes: Prickle1, 9430014N10Rik, D630010B17Rik
omitted Genes: Tmem117, LOC100043315, D030018L15Rik
omitted Genes: 2610037D02Rik, 4833422M21Rik, E330033B04Rik
omitted Genes: Scaf11, Pced1b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:91762000	15	91.76200	0.02909231	Credible Set	purple
chr15:91940522	15	91.94052	0.02962923	Credible Set	purple
chr15:92239534	15	92.23953	0.02279485	Credible Set	purple
chr15:92620186	15	92.62019	0.74737959	Credible Set	purple
chr15:92940135	15	92.94013	0.02798625	Credible Set	purple
chr15:92997922	15	92.99792	0.02798625	Credible Set	purple
chr15:93121022	15	93.12102	0.05756576	Credible Set	purple
chr15:93278217	15	93.27822	0.05756576	Credible Set	purple

F34 Array, iron content in liver z score



109 genes
omitted

date: Thu Oct 25 16:54:32 2018

build: F34Array

display range: chr2:116791412–126791412 [116791412–126791412]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:121791412

number of SNPs plotted: 12

min P-value: 5.41E–10 [chr2:121791412]

max P-value: 3.08E–6 [chr2:118526291]

omitted Genes: Fam98b, Rasgrp1, Gm13985

omitted Genes: 4930412B13Rik, Gpr176, 1700054M17Rik

omitted Genes: Eif2ak4, Bmf, Bub1b

omitted Genes: Pak6, Ankrd63, Plcb2

omitted Genes: Inafm2, A430105I19Rik, Knstrn

omitted Genes: Bahd1, Chst14, Ccdc32

omitted Genes: Rpusd2, Casc5, Rad51

omitted Genes: Rmdn3, Dnajc17, Gm14137

omitted Genes: Zfyve19, Ppp1r14d, Spint1

omitted Genes: Rhov, Vps18, Gm14207

omitted Genes: Dll4, Chac1, 1700020I14Rik

omitted Genes: Oip5, Nusap1, Ndufaf1

omitted Genes: Rtf1, Itpka, Rpap1

omitted Genes: Tyro3, Mga, Mapkbp1

omitted Genes: Mir7665, Jmjd7, Gm28042

omitted Genes: Pla2g4b, Pla2g4e, Tmem87a

omitted Genes: Ganc, 4931402G19Rik, Capn3

omitted Genes: Zfp106, Snap23, Lrrc57

omitted Genes: Haus2, Cdan1, AV039307

omitted Genes: Ubr1, Tmem62, Ccndbp1

omitted Genes: Lcmt2, Adal, Zscan29

omitted Genes: Tubgcp4, Trp53bp1, Map1a

omitted Genes: Ppip5k1, Ckmt1, Catsper2

omitted Genes: Pdla3, Ell3, Serf2

omitted Genes: Serinc4, Hypk, Mfap1b

omitted Genes: Mfap1a, Wdr76, Frmd5

omitted Genes: Spg11, Patl2, B2m

omitted Genes: Trim69, Terb2, Sord

omitted Genes: Duox2, Duoxa2, Duoxa1

omitted Genes: Duox1, Shf, Slc28a2

omitted Genes: Bambl-ps1, Gm14085, Spata51

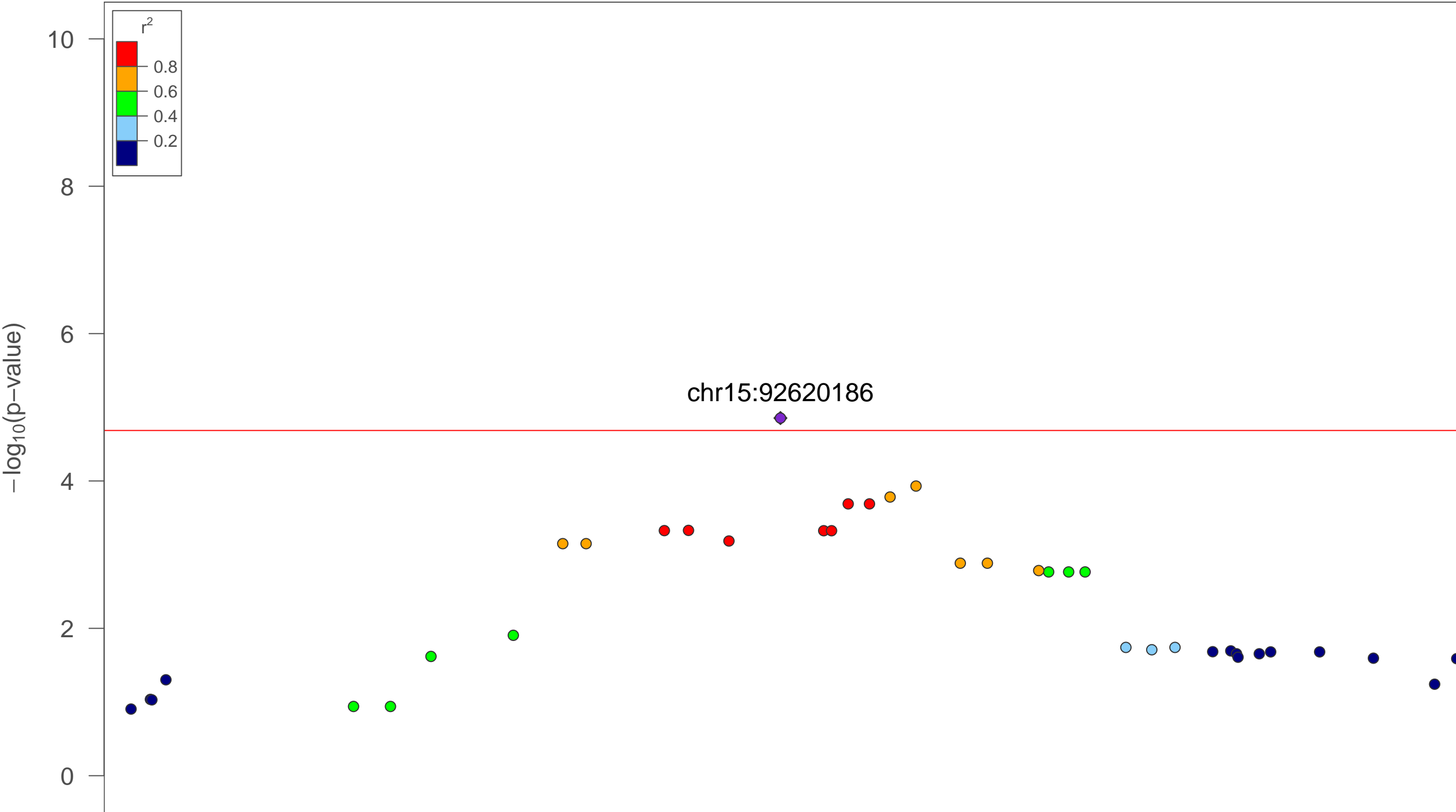
omitted Genes: AA467107, Mir147, Slc20a4

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

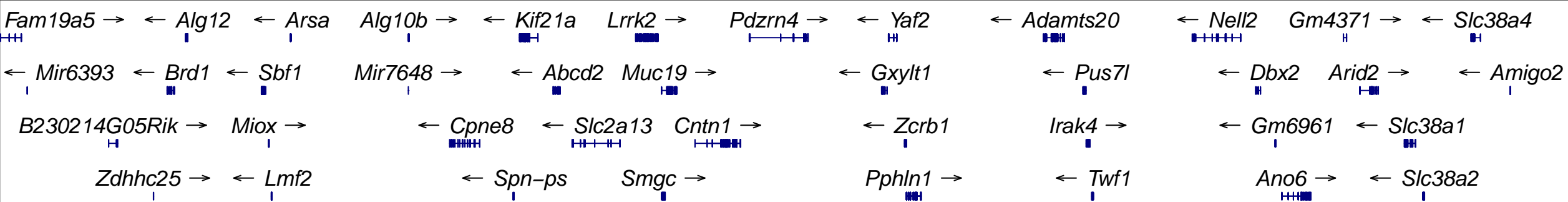
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121791412	2	121.7914	0.5	Credible Set	purple
chr2:123024804	2	123.0248	0.5	Credible Set	purple

F34 Array, iron content in liver z score



Credible Set



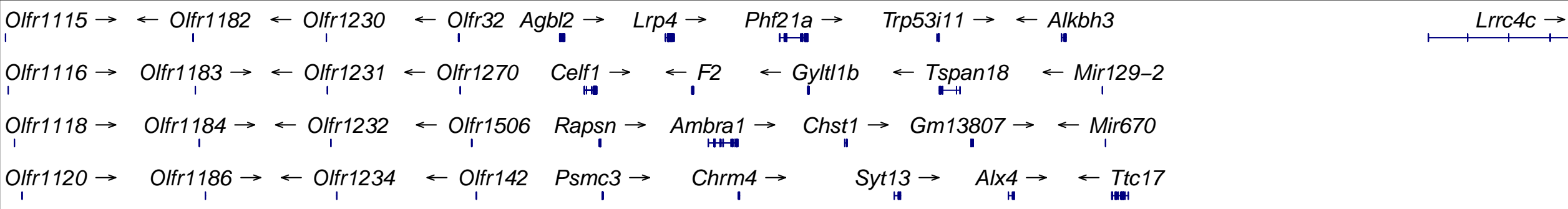
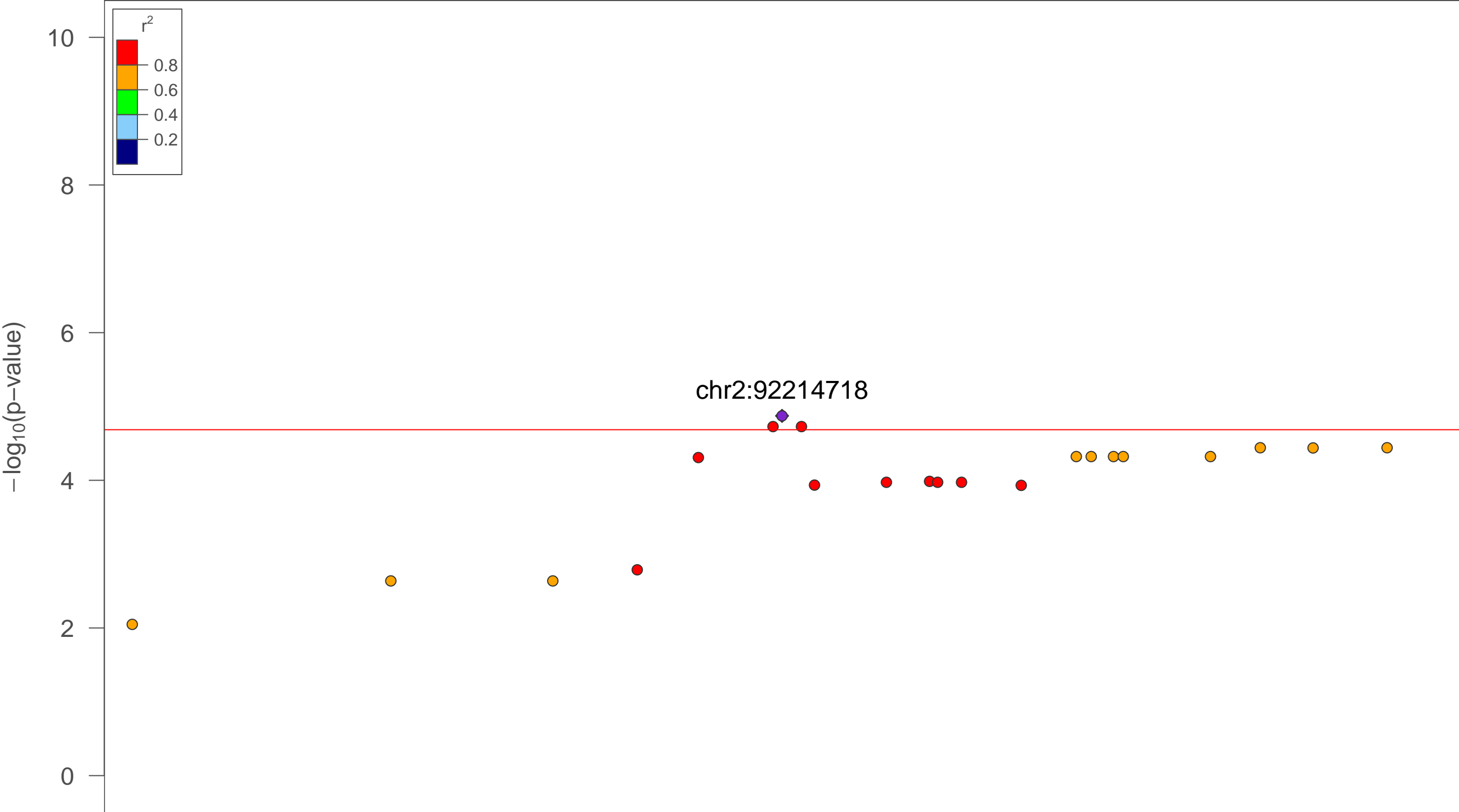
47 genes
omitted

date: Thu Oct 25 16:54:23 2018
build: F34Array
display range: chr15:87620186–97620186 [87620186–97620186]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr15:92620186
number of SNPs plotted: 40
min P-value: 1.4E–5 [chr15:92620186]
max P-value: 1.25E–1 [chr15:87819815]
omitted Genes: Zbed4, Creld2, Pim3
omitted Genes: Tll8, Mlc1, Mov10l1
omitted Genes: Panx2, 1810021B22Rik, Trabd
omitted Genes: Selo, Tubgcp6, Hdac10
omitted Genes: Mapk12, Mapk11, Plxnb2
omitted Genes: Mir7118, Dennd6b, Mir6958
omitted Genes: Ppp6r2, Mir6959, Adm2
omitted Genes: Ncaph2, Sco2, Tymp
omitted Genes: Odf3b, Klhdc7b, Syce3
omitted Genes: Cpt1b, Gm44502, Chkb
omitted Genes: Mapk8ip2, C230037L18Rik, Shank3
omitted Genes: Acr, Rabl2, Syt10
omitted Genes: Prickle1, 9430014N10Rik, D630010B17Rik
omitted Genes: Tmem117, LOC100043315, D030018L15Rik
omitted Genes: 2610037D02Rik, 4833422M21Rik, E330033B04Rik
omitted Genes: Scaf11, Pced1b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:91762000	15	91.76200	0.02714178	Credible Set	purple
chr15:91940522	15	91.94052	0.02732672	Credible Set	purple
chr15:92239534	15	92.23953	0.02006520	Credible Set	purple
chr15:92620186	15	92.62019	0.75258098	Credible Set	purple
chr15:92940135	15	92.94013	0.02707327	Credible Set	purple
chr15:92997922	15	92.99792	0.02707327	Credible Set	purple
chr15:93121022	15	93.12102	0.05936939	Credible Set	purple
chr15:93278217	15	93.27822	0.05936939	Credible Set	purple

F34 Array, iron content in spleen



172 genes
omitted

date: Thu Oct 25 16:54:50 2018

build: F34Array

display range: chr2:87214718–97214718 [87214718–97214718]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:92214718

number of SNPs plotted: 23

min P-value: 1.34E–5 [chr2:92214718]

max P-value: 8.94E–3 [chr2:87421495]

omitted Genes: Olfr1121, Olfr1122, Olfr1123

omitted Genes: Olfr1124, Olfr1126, Pramel7

omitted Genes: Pramel6, Olfr153, Olfr1128

omitted Genes: Olfr1129, Olfr1130, Olfr1131

omitted Genes: Olfr1132, Olfr1133, Olfr1134

omitted Genes: Olfr1135, Olfr1136, Olfr1137

omitted Genes: Olfr1138, Olfr1140, Olfr1141

omitted Genes: Olfr152, Olfr1143, Olfr1145

omitted Genes: Olfr1148, Olfr1151, Olfr1152

omitted Genes: Olfr1153, Olfr1154, Olfr1155

omitted Genes: Olfr1156, Olfr1157, Olfr74

omitted Genes: Olfr1158, Olfr1160, Olfr1161

omitted Genes: Olfr73, Olfr1162, Olfr1163

omitted Genes: Olfr1164, Olfr1166, Olfr1167

omitted Genes: Olfr1168, Olfr1170, Olfr1173

omitted Genes: Olfr1176, Olfr1178, Olfr1179

omitted Genes: Olfr1180, Olfr1181, Olfr1188

omitted Genes: Olfr1189, Olfr1193, Olfr1195

omitted Genes: Olfr1196, Olfr1197, Olfr1198

omitted Genes: Olfr1199, Olfr1200, Olfr1201

omitted Genes: Olfr1202, Olfr1205, Olfr1204

omitted Genes: Olfr1206, Olfr1208, Olfr1209

omitted Genes: Olfr1211, Olfr1212, Olfr1213

omitted Genes: Olfr1214, Olfr1215, Olfr1216

omitted Genes: Olfr1217, Olfr1218, Olfr1219

omitted Genes: Olfr1220, Olfr1221, Olfr1222

omitted Genes: Olfr1223, Olfr1225, Olfr1226

omitted Genes: Olfr1228, Olfr1229, Olfr1233

omitted Genes: Olfr1238, Olfr1239, Olfr1240

omitted Genes: Olfr1241, Olfr1242, Olfr1243

omitted Genes: Olfr1245, Olfr1246, Olfr1247

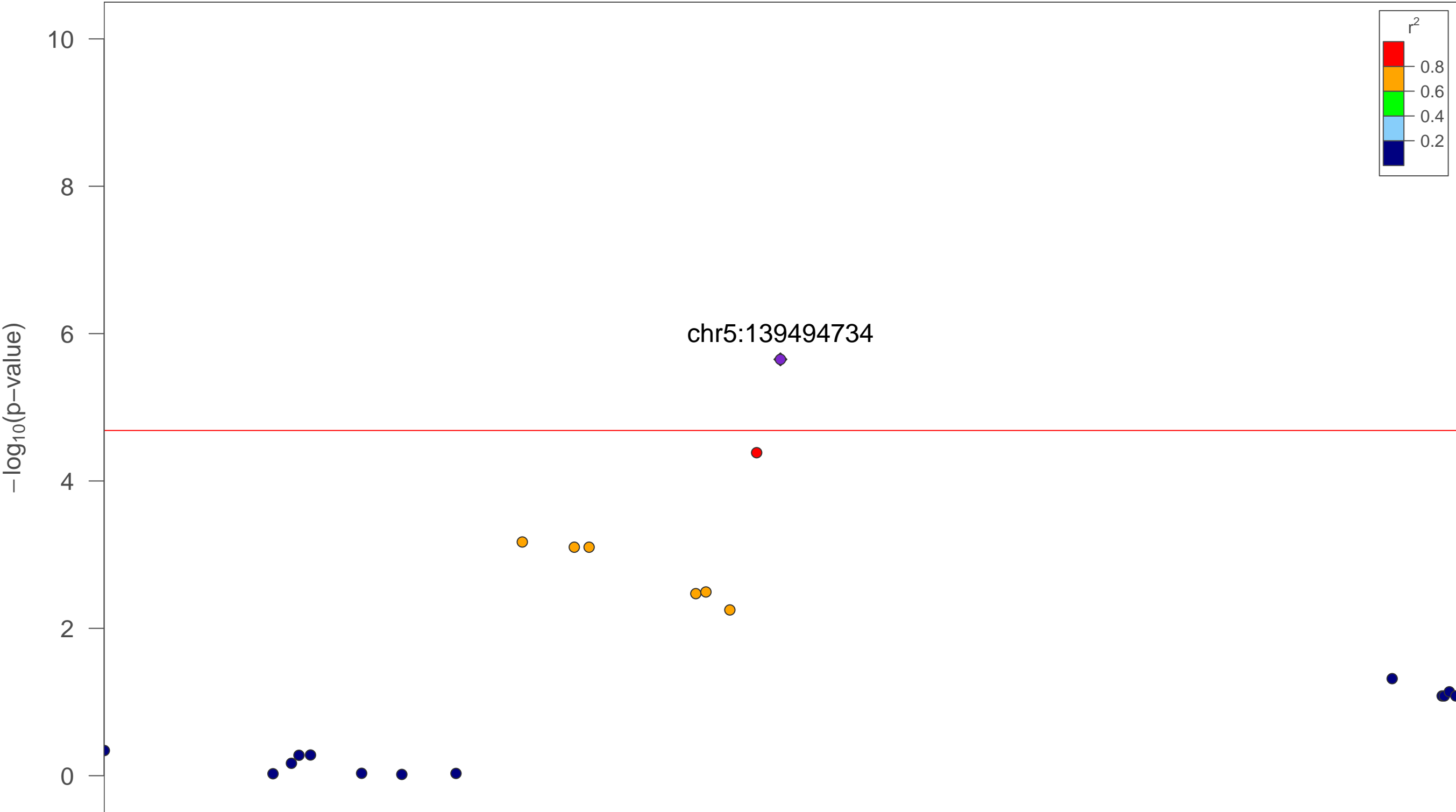
omitted Genes: Olfr1248, Olfr1249, Olfr1250

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

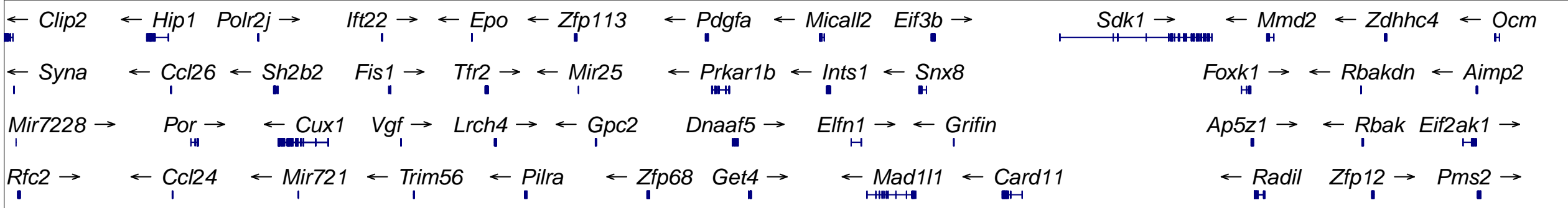
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:91597466	2	91.59747	0.08123578	Credible Set	purple
chr2:92147975	2	92.14798	0.20341544	Credible Set	purple
chr2:92214718	2	92.21472	0.27947380	Credible Set	purple
chr2:92357966	2	92.35797	0.20341544	Credible Set	purple
chr2:92454070	2	92.45407	0.03604329	Credible Set	purple
chr2:92984633	2	92.98463	0.03912820	Credible Set	purple
chr2:93303076	2	93.30308	0.04020689	Credible Set	purple
chr2:93362468	2	93.36247	0.03912820	Credible Set	purple
chr2:93538754	2	93.53875	0.03912820	Credible Set	purple
chr2:93979130	2	93.97913	0.03576123	Credible Set	purple

F34 Array, iron content in spleen



Credible Set



167 genes
omitted

date: Thu Oct 25 16:55:01 2018

build: F34Array

display range: chr5:134494734–144494734 [134494734–144494734]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:139494734

number of SNPs plotted: 22

min P-value: 2.24E–6 [chr5:139494734]

max P-value: 9.6E–1 [chr5:136695919]

omitted Genes: Lat2, Eif4h, Limk1

omitted Genes: Eln, Wbscr28, Cldn13

omitted Genes: Wbscr27, Cldn4, Cldn3

omitted Genes: Wbscr25, Abhd11, Abhd11os

omitted Genes: Stx1a, Wbscr22, Dnajc30

omitted Genes: Vps37d, Mlxipl, Tbl2

omitted Genes: Bcl7b, Baz1b, Fzd9

omitted Genes: Fkbp6, Trim50, Nsun5

omitted Genes: Pom121, Mir7033, Rhbdd2

omitted Genes: Tmem120a, Mir7034, Styxl1

omitted Genes: Mdh2, Srrm3, Hspb1

omitted Genes: Ywhag, Ssc4d, Zp3

omitted Genes: Dtx2, Upk3b, Upk3bl

omitted Genes: Rasa4, Mir7035, Lrwd1

omitted Genes: Alkbh4, Orai2, Prkrip1

omitted Genes: Myl10, Col26a1, 4933404O12Rik

omitted Genes: Cldn15, Znhit1, Plod3

omitted Genes: Mir702, Ap1s1, Serpine1

omitted Genes: Ache, Mir8116, Ufsp1

omitted Genes: Srrt, Mir7036, Trip6

omitted Genes: Slc12a9, Ephb4, Zan

omitted Genes: Pop7, Gigyf1, Gnb2

omitted Genes: Mir6418, Actl6b, Mospd3

omitted Genes: Pcolce, Fbxo24, Gm20605

omitted Genes: Sap25, Irs3, Agfg2

omitted Genes: Nyap1, Tsc22d4, Ppp1r35

omitted Genes: Mepce, Zcwpw1, Pilrb1

omitted Genes: Pilrb2, Cyp3a13, Gjc3

omitted Genes: Azgp1, Smok3a, Smok3b

omitted Genes: Smok3c, Zkscan1, Zscan21

omitted Genes: Cops6, Mcm7, Mir93

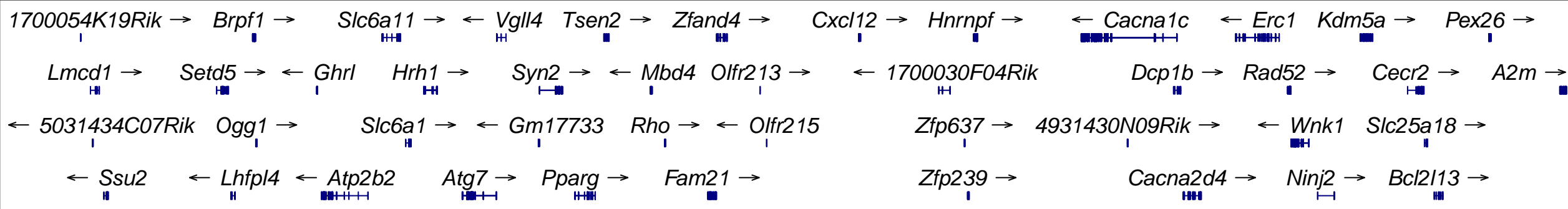
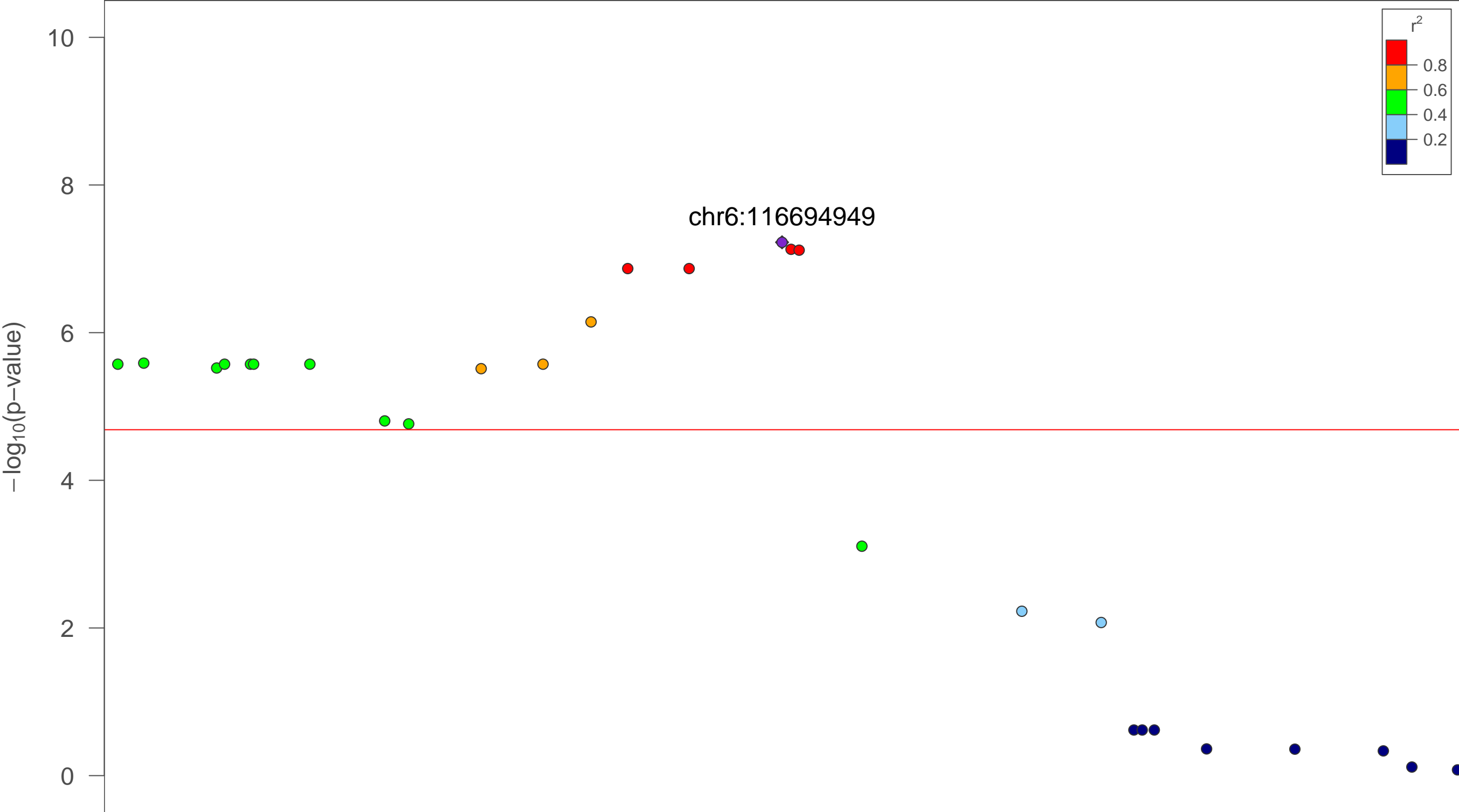
omitted Genes: Mir106b, An4m1, Tcf6

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139318848	5	139.3188	0.05815931	Credible Set	purple
chr5:139494734	5	139.4947	0.94184069	Credible Set	purple

F34 Array, iron content in spleen



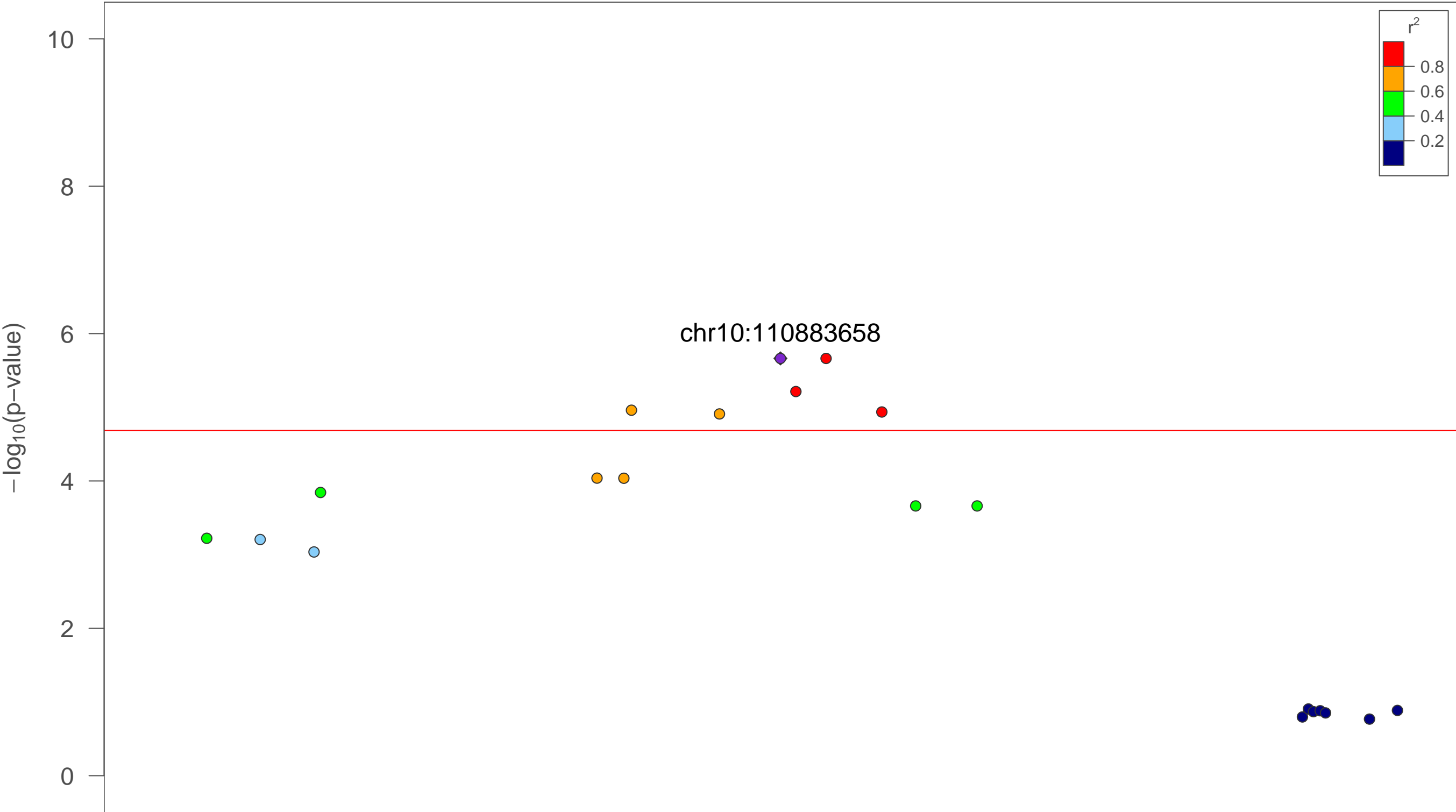
85 genes
omitted

date: Thu Oct 25 16:55:10 2018
build: F34Array
display range: chr6:111694949–121694949 [111694949–121694949]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:116694949
number of SNPs plotted: 29
min P-value: 5.97E–8 [chr6:116694949]
max P-value: 8.36E–1 [chr6:121677793]
omitted Genes: Cav3, Oxtr, Rad18
omitted Genes: Srgap3, Thumpd3, Gt(ROSA)26Sor
omitted Genes: Mtmr14, Cpne9, Camk1
omitted Genes: Tada3, Arpc4, Tll3
omitted Genes: Rpusd3, Cidec, Jagn1
omitted Genes: Il17re, Il17rc, Creld1
omitted Genes: Prrt3, Emc3, Fancd2
omitted Genes: Fancd2os, Brk1, Vhl
omitted Genes: Irak2, Tatdn2, Mir7042
omitted Genes: Sec13, Tamm41, Timp4
omitted Genes: Mkrn2os, Mkrn2, Raf1
omitted Genes: Tmem40, Cand2, Mir7660
omitted Genes: Rpl32, Snora7a, Efcab12
omitted Genes: Ift122, H1foo, Plxnd1
omitted Genes: Tmcc1, 9530062K07Rik, March8
omitted Genes: Alox5, Olfr211, Olfr212
omitted Genes: Olfr214, Zfp422, Rassf4
omitted Genes: Mir7043, 8430408G22Rik, Tmem72
omitted Genes: Fxyd4, Rasgef1a, Mir7044
omitted Genes: Csgalnact2, Ret, 1700069P05Rik
omitted Genes: Gm30498, Bms1, Zfp248
omitted Genes: Zfp9, Ankrd26, Lrtm2
omitted Genes: Adipor2, Wnt5b, Fbxl14
omitted Genes: 3110021A11Rik, Mir706, B4galnt3
omitted Genes: Ccdc77, Il17ra, Cecr6
omitted Genes: Cecr5, 1700072O05Rik, Atp6v1e1
omitted Genes: Bid, Mical3, Tuba8
omitted Genes: Usp18, Slc6a13, Slc6a12
omitted Genes: Iqsec3

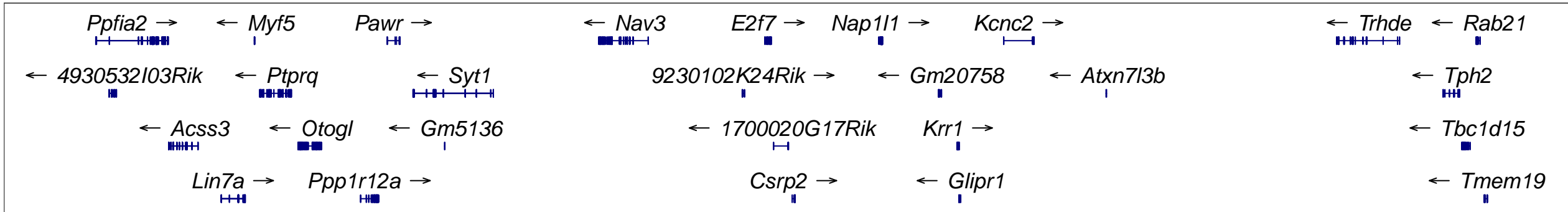
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115556641	6	115.5566	0.1292022	Credible Set	purple
chr6:116009500	6	116.0095	0.1292022	Credible Set	purple
chr6:116694949	6	116.6949	0.2854410	Credible Set	purple
chr6:116761437	6	116.7614	0.2310870	Credible Set	purple
chr6:116820969	6	116.8210	0.2250676	Credible Set	purple

F34 Array, iron content in spleen



Credible Set



17 genes omitted

date: Thu Oct 25 16:54:40 2018

build: F34Array

display range: chr10:105883658–115883658 [105883658–115883658]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:110883658

number of SNPs plotted: 22

min P-value: 2.17E–6 [chr10:110883658]

max P-value: 1.7E–1 [chr10:115238015]

omitted Genes: Myf6, Gm29685, Zdhhc17

omitted Genes: Osbpl8, Bbs10, Gm5176

omitted Genes: Phlda1, 4933440J02Rik, Glipr1l1

omitted Genes: Glipr1l2, Caps2, 1700010J16Rik

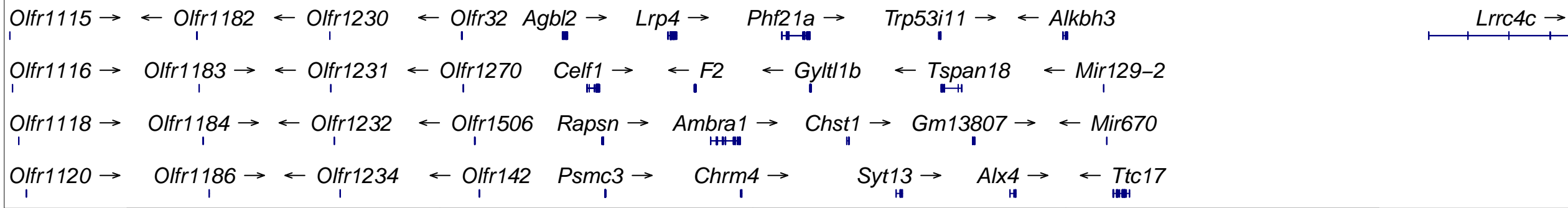
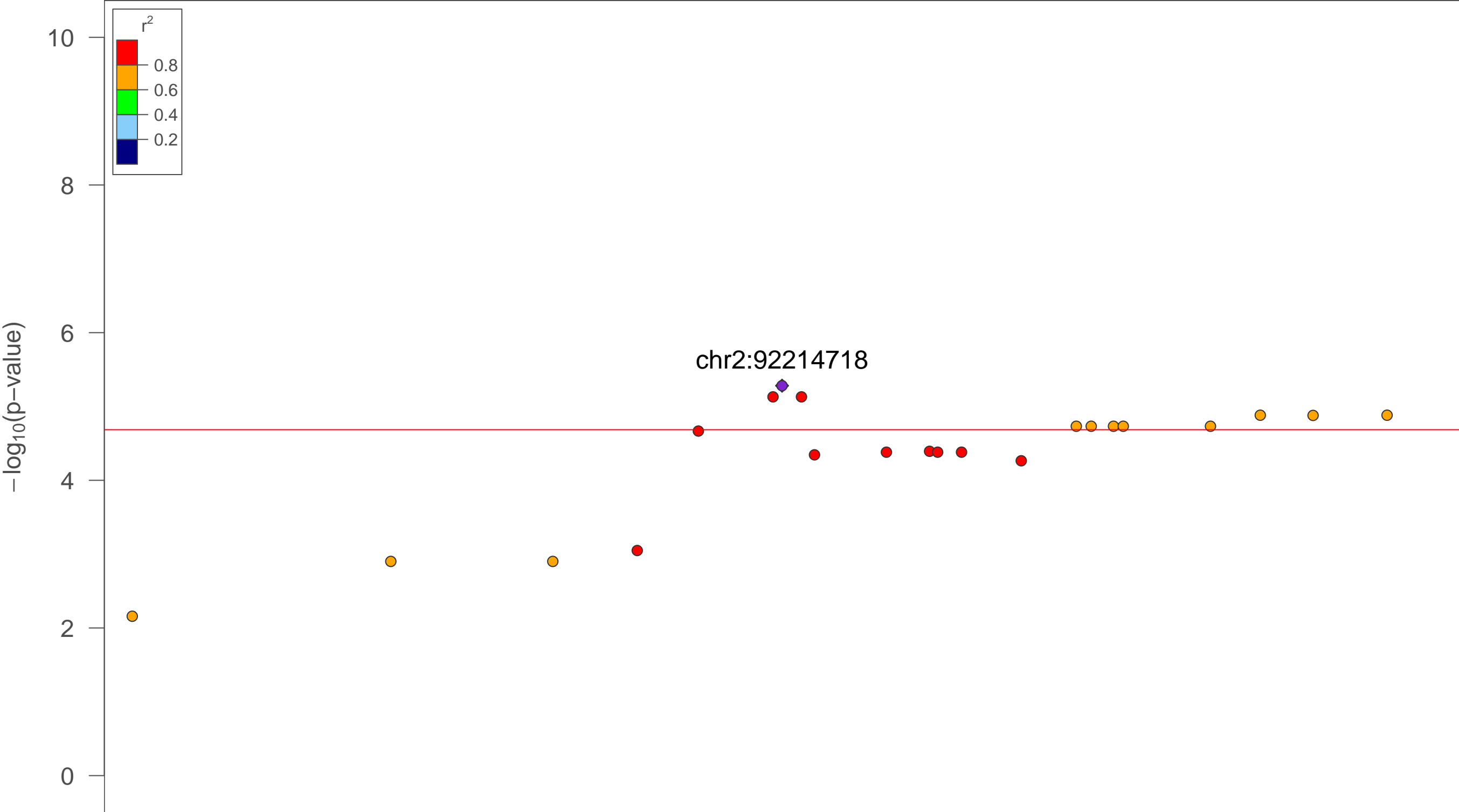
omitted Genes: Thap2, Zfc3h1, Lgr5

omitted Genes: A930009A15Rik, Tspan8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110883658	10	110.8837	0.38877202	Credible Set	purple
chr10:110997815	10	110.9978	0.14413964	Credible Set	purple
chr10:111221007	10	111.2210	0.38877202	Credible Set	purple
chr10:111633214	10	111.6332	0.07831632	Credible Set	purple

F34 Array, iron content in spleen z score



172 genes
omitted

date: Thu Oct 25 16:55:26 2018

build: F34Array

display range: chr2:87214718–97214718 [87214718–97214718]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:92214718

number of SNPs plotted: 23

min P-value: 5.23E–6 [chr2:92214718]

max P-value: 6.94E–3 [chr2:87421495]

omitted Genes: Olfr1121, Olfr1122, Olfr1123

omitted Genes: Olfr1124, Olfr1126, Pramel7

omitted Genes: Pramel6, Olfr153, Olfr1128

omitted Genes: Olfr1129, Olfr1130, Olfr1131

omitted Genes: Olfr1132, Olfr1133, Olfr1134

omitted Genes: Olfr1135, Olfr1136, Olfr1137

omitted Genes: Olfr1138, Olfr1140, Olfr1141

omitted Genes: Olfr152, Olfr1143, Olfr1145

omitted Genes: Olfr1148, Olfr1151, Olfr1152

omitted Genes: Olfr1153, Olfr1154, Olfr1155

omitted Genes: Olfr1156, Olfr1157, Olfr74

omitted Genes: Olfr1158, Olfr1160, Olfr1161

omitted Genes: Olfr73, Olfr1162, Olfr1163

omitted Genes: Olfr1164, Olfr1166, Olfr1167

omitted Genes: Olfr1168, Olfr1170, Olfr1173

omitted Genes: Olfr1176, Olfr1178, Olfr1179

omitted Genes: Olfr1180, Olfr1181, Olfr1188

omitted Genes: Olfr1189, Olfr1193, Olfr1195

omitted Genes: Olfr1196, Olfr1197, Olfr1198

omitted Genes: Olfr1199, Olfr1200, Olfr1201

omitted Genes: Olfr1202, Olfr1205, Olfr1204

omitted Genes: Olfr1206, Olfr1208, Olfr1209

omitted Genes: Olfr1211, Olfr1212, Olfr1213

omitted Genes: Olfr1214, Olfr1215, Olfr1216

omitted Genes: Olfr1217, Olfr1218, Olfr1219

omitted Genes: Olfr1220, Olfr1221, Olfr1222

omitted Genes: Olfr1223, Olfr1225, Olfr1226

omitted Genes: Olfr1228, Olfr1229, Olfr1233

omitted Genes: Olfr1238, Olfr1239, Olfr1240

omitted Genes: Olfr1241, Olfr1242, Olfr1243

omitted Genes: Olfr1245, Olfr1246, Olfr1247

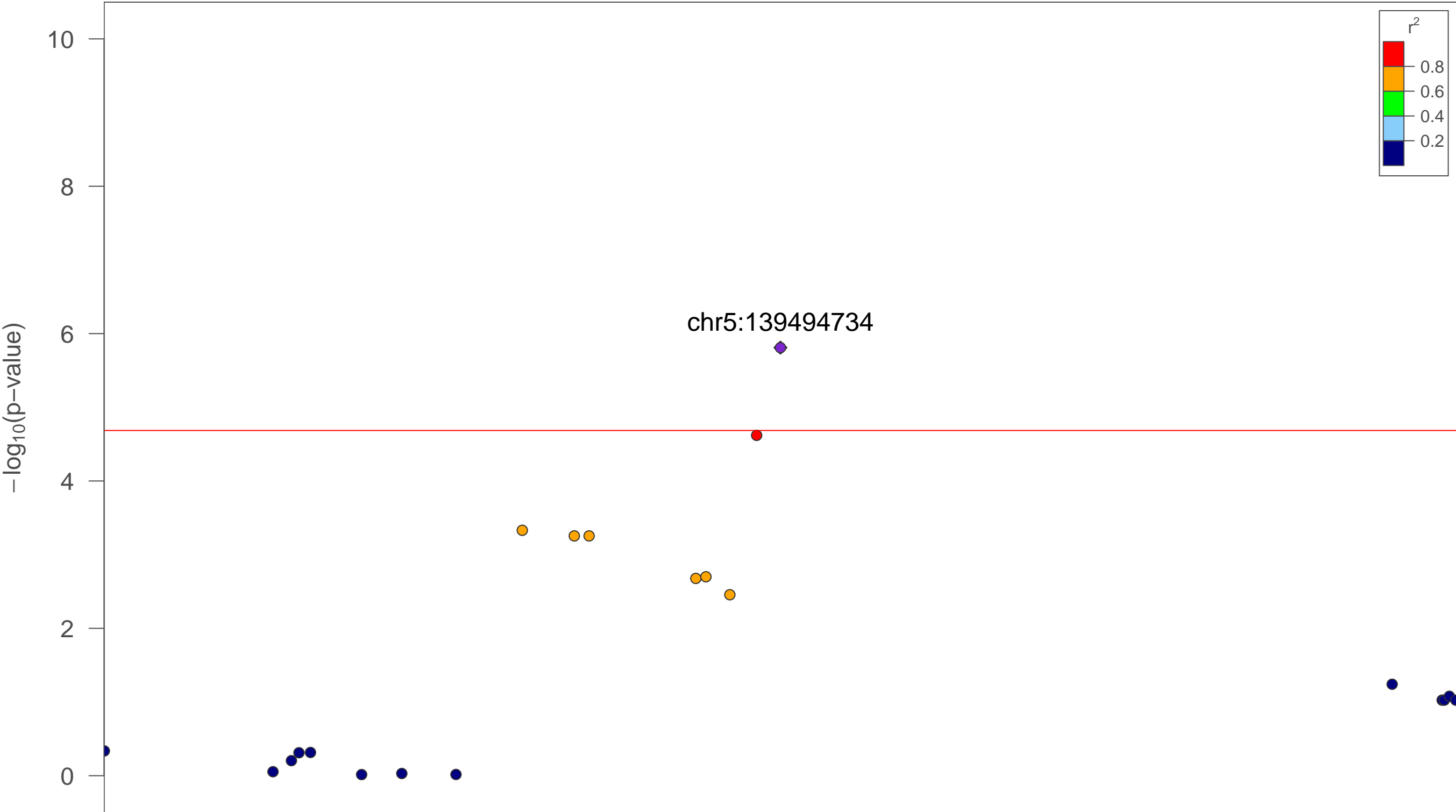
omitted Genes: Olfr1248, Olfr1249, Olfr1250

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

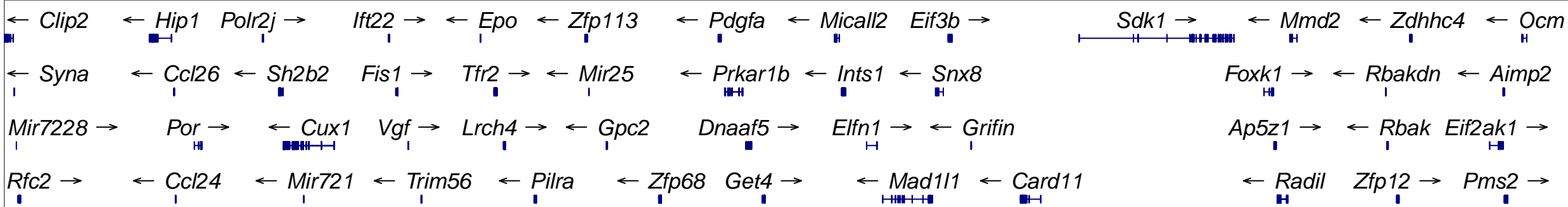
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:91597466	2	91.59747	0.07416765	Credible Set	purple
chr2:92147975	2	92.14798	0.20518626	Credible Set	purple
chr2:92214718	2	92.21472	0.28617800	Credible Set	purple
chr2:92357966	2	92.35797	0.20518626	Credible Set	purple
chr2:92454070	2	92.45407	0.03664601	Credible Set	purple
chr2:92984633	2	92.98463	0.03965422	Credible Set	purple
chr2:93303076	2	93.30308	0.04070338	Credible Set	purple
chr2:93362468	2	93.36247	0.03965422	Credible Set	purple
chr2:93538754	2	93.53875	0.03965422	Credible Set	purple
chr2:93979130	2	93.97913	0.03074496	Credible Set	purple

F34 Array, iron content in spleen z score



Credible Set



167 genes
omitted

date: Thu Oct 25 16:55:37 2018

build: F34Array

display range: chr5:134494734–144494734 [134494734–144494734]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:139494734

number of SNPs plotted: 22

min P-value: 1.55E–6 [chr5:139494734]

max P-value: 9.65E–1 [chr5:136398923]

omitted Genes: Lat2, Eif4h, Limk1

omitted Genes: Eln, Wbscr28, Cldn13

omitted Genes: Wbscr27, Cldn4, Cldn3

omitted Genes: Wbscr25, Abhd11, Abhd11os

omitted Genes: Stx1a, Wbscr22, Dnajc30

omitted Genes: Vps37d, Mlxipl, Tbl2

omitted Genes: Bcl7b, Baz1b, Fzd9

omitted Genes: Fkbp6, Trim50, Nsun5

omitted Genes: Pom121, Mir7033, Rhbdd2

omitted Genes: Tmem120a, Mir7034, Styxl1

omitted Genes: Mdh2, Srrm3, Hspb1

omitted Genes: Ywhag, Ssc4d, Zp3

omitted Genes: Dtx2, Upk3b, Upk3bl

omitted Genes: Rasa4, Mir7035, Lrwd1

omitted Genes: Alkbh4, Orai2, Prkrip1

omitted Genes: Myl10, Col26a1, 4933404O12Rik

omitted Genes: Cldn15, Znhit1, Plod3

omitted Genes: Mir702, Ap1s1, Serpine1

omitted Genes: Ache, Mir8116, Ufsp1

omitted Genes: Srrt, Mir7036, Trip6

omitted Genes: Slc12a9, Ephb4, Zan

omitted Genes: Pop7, Gigyf1, Gnb2

omitted Genes: Mir6418, Actl6b, Mospd3

omitted Genes: Pcolce, Fbxo24, Gm20605

omitted Genes: Sap25, Irs3, Agfg2

omitted Genes: Nyap1, Tsc22d4, Ppp1r35

omitted Genes: Mepce, Zcwpw1, Pilrb1

omitted Genes: Pilrb2, Cyp3a13, Gjc3

omitted Genes: Azgp1, Smok3a, Smok3b

omitted Genes: Smok3c, Zkscan1, Zscan21

omitted Genes: Cops6, Mcm7, Mir93

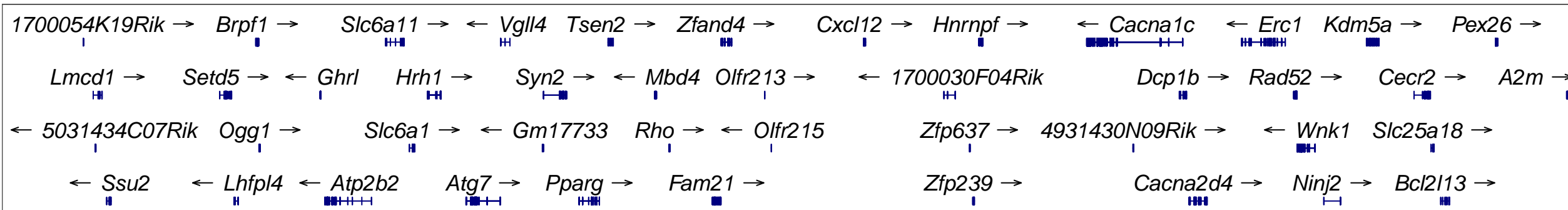
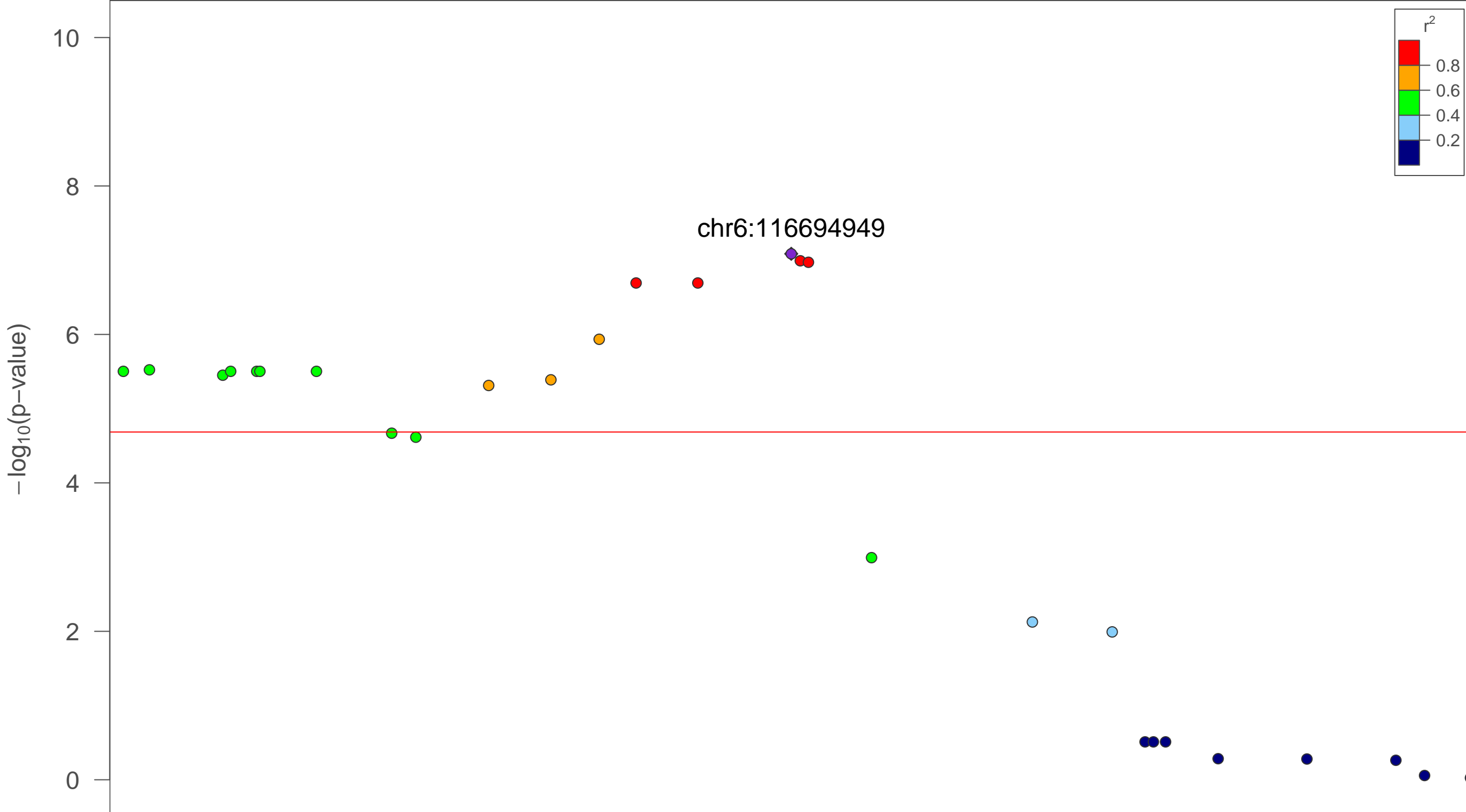
omitted Genes: Mir106b, An4m1, Taf6

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139318848	5	139.3188	0.06774966	Credible Set	purple
chr5:139494734	5	139.4947	0.93225034	Credible Set	purple

F34 Array, iron content in spleen z score



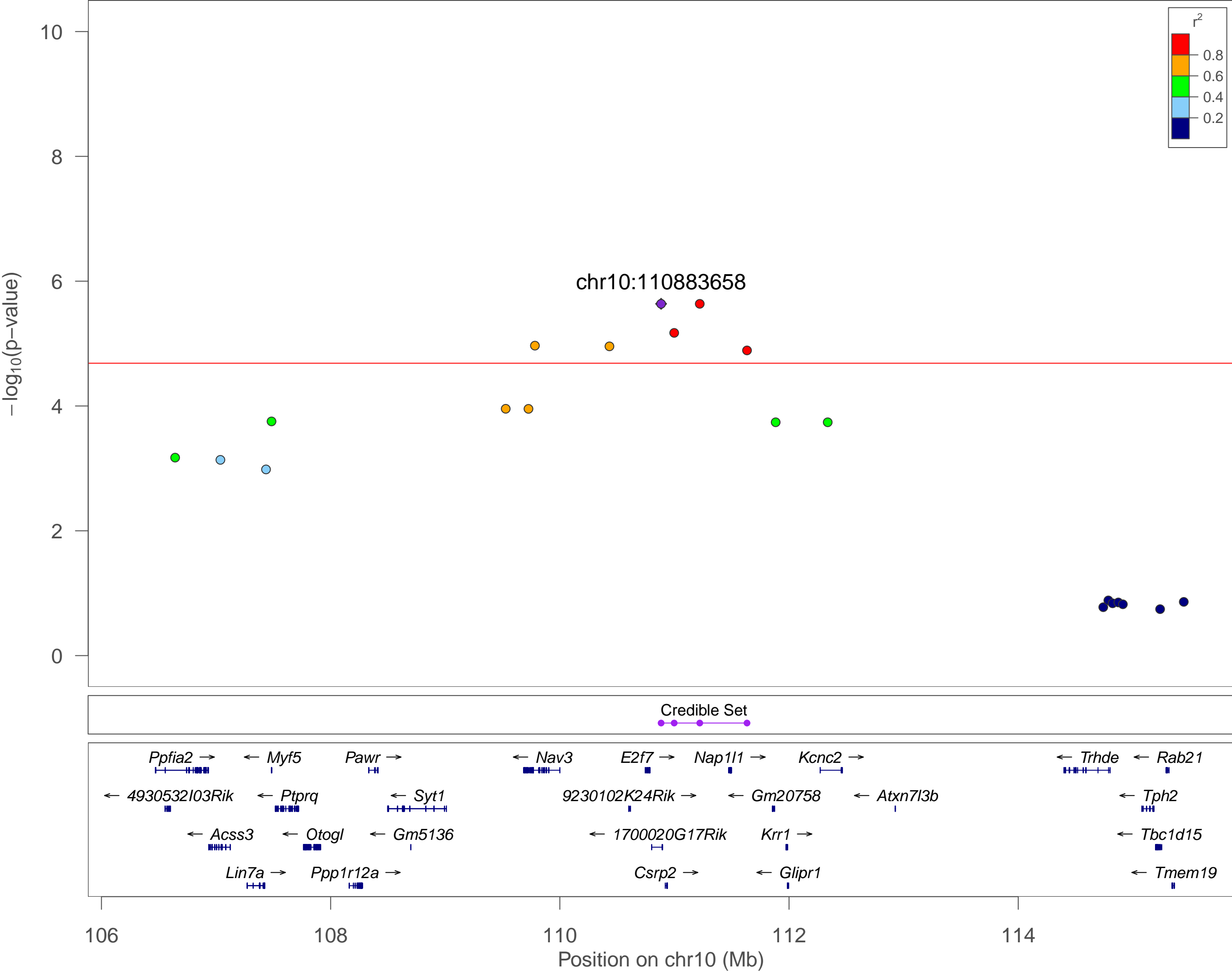
85 genes
omitted

date: Thu Oct 25 16:55:45 2018
build: F34Array
display range: chr6:111694949–121694949 [111694949–121694949]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:116694949
number of SNPs plotted: 29
min P-value: 8.2E–8 [chr6:116694949]
max P-value: 9.43E–1 [chr6:121677793]
omitted Genes: Cav3, Oxtr, Rad18
omitted Genes: Srgap3, Thumpd3, Gt(ROSA)26Sor
omitted Genes: Mtmr14, Cpne9, Camk1
omitted Genes: Tada3, Arpc4, Tll3
omitted Genes: Rpusd3, Cidec, Jagn1
omitted Genes: Il17re, Il17rc, Creld1
omitted Genes: Prrt3, Emc3, Fancd2
omitted Genes: Fancd2os, Brk1, Vhl
omitted Genes: Irak2, Tatdn2, Mir7042
omitted Genes: Sec13, Tamm41, Timp4
omitted Genes: Mkrn2os, Mkrn2, Raf1
omitted Genes: Tmem40, Cand2, Mir7660
omitted Genes: Rpl32, Snora7a, Efcab12
omitted Genes: Ift122, H1foo, Plxnd1
omitted Genes: Tmcc1, 9530062K07Rik, March8
omitted Genes: Alox5, Olfr211, Olfr212
omitted Genes: Olfr214, Zfp422, Rassf4
omitted Genes: Mir7043, 8430408G22Rik, Tmem72
omitted Genes: Fxyd4, Rasgef1a, Mir7044
omitted Genes: Csgalnact2, Ret, 1700069P05Rik
omitted Genes: Gm30498, Bms1, Zfp248
omitted Genes: Zfp9, Ankrd26, Lrtm2
omitted Genes: Adipor2, Wnt5b, Fbxl14
omitted Genes: 3110021A11Rik, Mir706, B4galnt3
omitted Genes: Ccdc77, Il17ra, Cecr6
omitted Genes: Cecr5, 1700072O05Rik, Atp6v1e1
omitted Genes: Bid, Mical3, Tuba8
omitted Genes: Usp18, Slc6a13, Slc6a12
omitted Genes: Iqsec3

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115556641	6	115.5566	0.1218618	Credible Set	purple
chr6:116009500	6	116.0095	0.1218618	Credible Set	purple
chr6:116694949	6	116.6949	0.2923376	Credible Set	purple
chr6:116761437	6	116.7614	0.2372379	Credible Set	purple
chr6:116820969	6	116.8210	0.2267009	Credible Set	purple

F34 Array, iron content in spleen z score

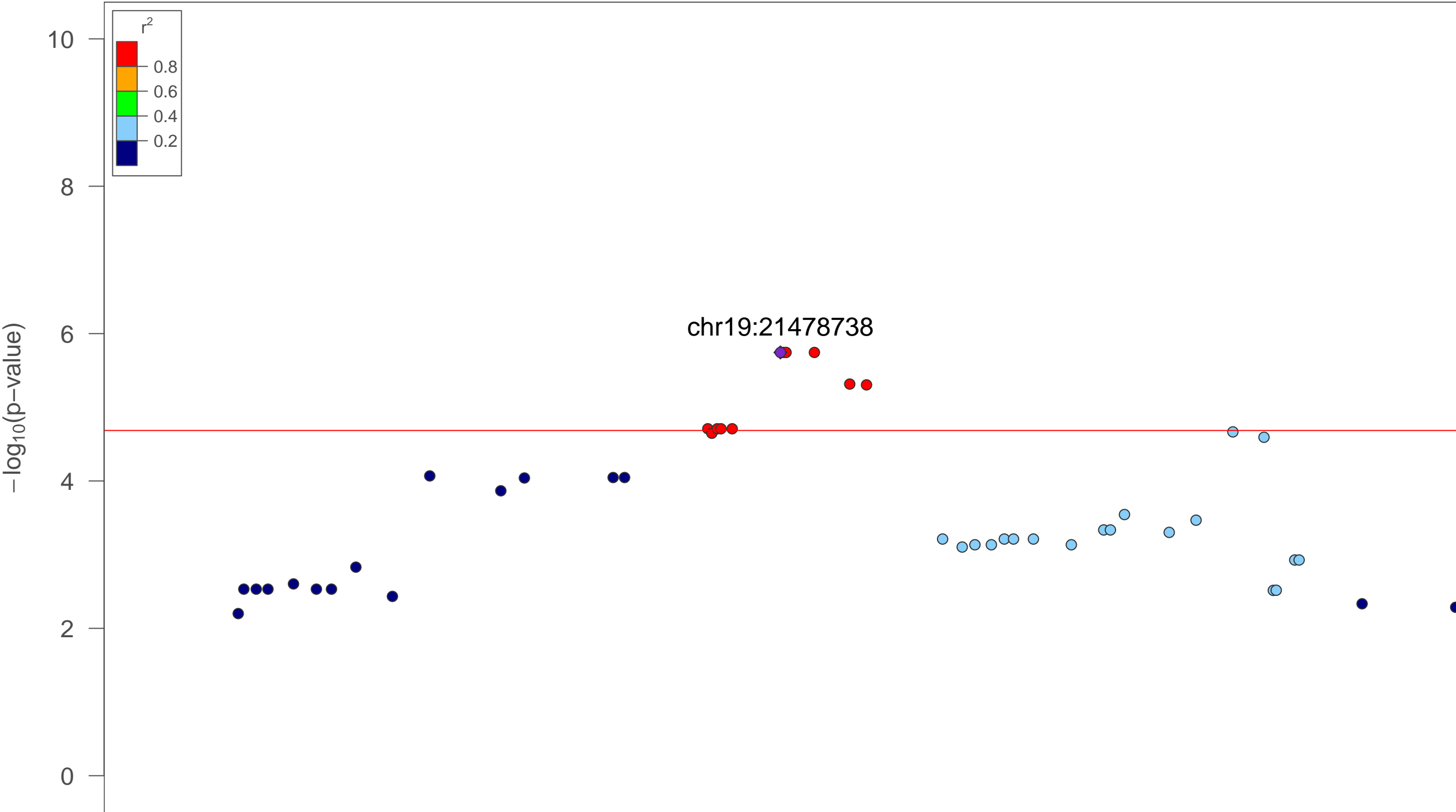


date: Thu Oct 25 16:55:16 2018
build: F34Array
display range: chr10:105883658–115883658 [105883658–115883658]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:110883658
number of SNPs plotted: 22
min P-value: 2.31E–6 [chr10:110883658]
max P-value: 1.8E–1 [chr10:115238015]
omitted Genes: Myf6, Gm29685, Zdhhc17
omitted Genes: Osbpl8, Bbs10, Gm5176
omitted Genes: Phlda1, 4933440J02Rik, Glipr1l1
omitted Genes: Glipr1l2, Caps2, 1700010J16Rik
omitted Genes: Thap2, Zfc3h1, Lgr5
omitted Genes: A930009A15Rik, Tspan8

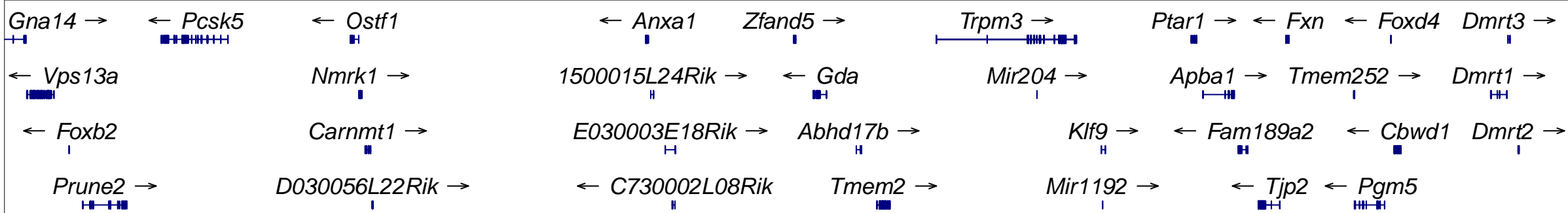
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110883658	10	110.8837	0.39202116	Credible Set	purple
chr10:110997815	10	110.9978	0.14031854	Credible Set	purple
chr10:111221007	10	111.2210	0.39202116	Credible Set	purple
chr10:111633214	10	111.6332	0.07563914	Credible Set	purple

F34 Array, locomotor test day 1, total distance travelled in 30min (cm)



Credible Set



18 genes
omitted

Position on chr19 (Mb)

date: Thu Oct 25 16:55:52 2018

build: F34Array

display range: chr19:16478738–26478738 [16478738–26478738]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21478738

number of SNPs plotted: 47

min P-value: 1.8E–6 [chr19:21478738]

max P-value: 6.3E–3 [chr19:17470922]

omitted Genes: Gcnt1, Rfk, Trpm6

omitted Genes: Rorb, Aldh1a1, Aldh1a7

omitted Genes: Tmc1, 4930554I06Rik, 1110059E24Rik

omitted Genes: Smc5, Mamdc2, 1700028P14Rik

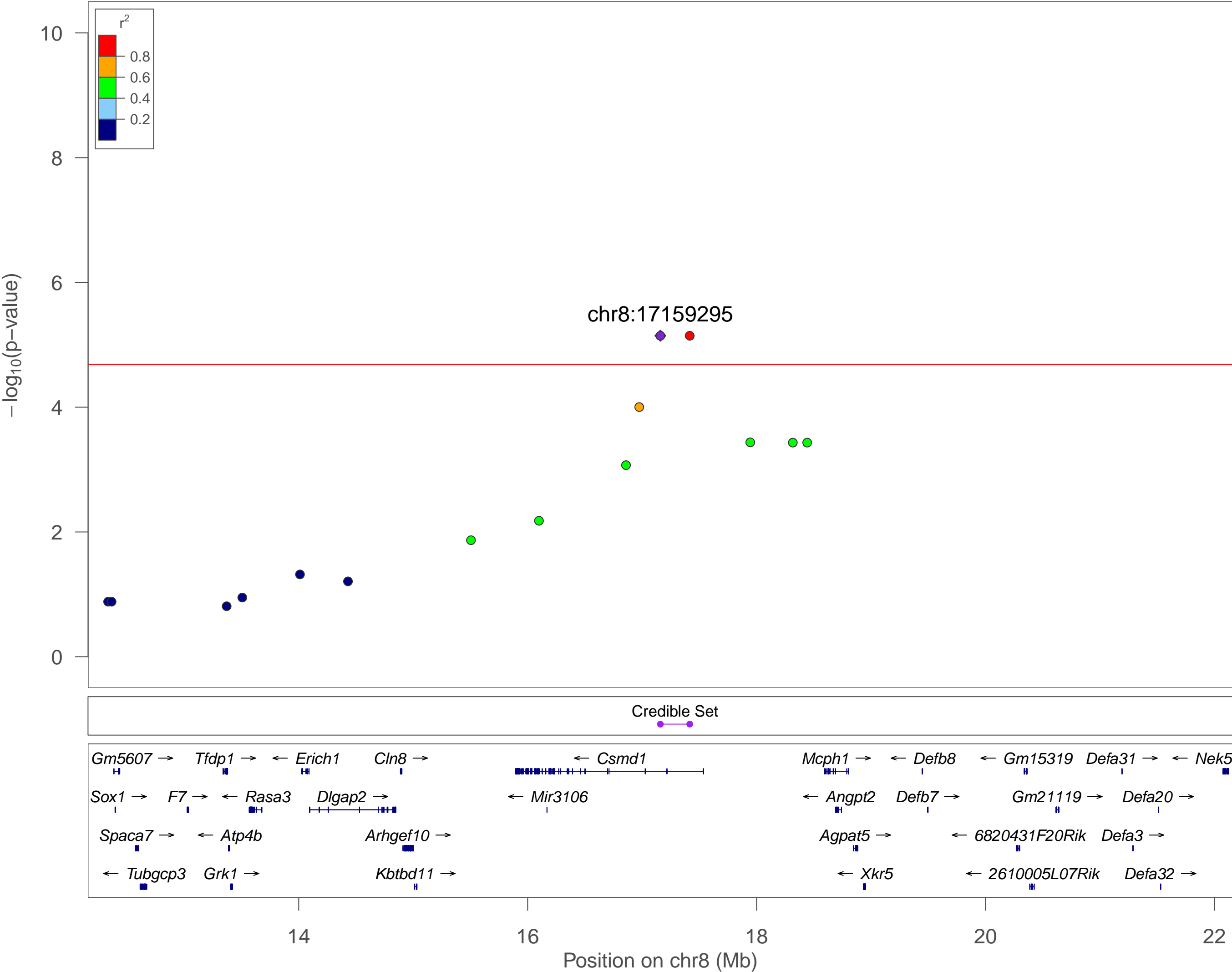
omitted Genes: Pip5k1b, Fam122a, Mir3084–1

omitted Genes: Dock8, Kank1, 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20941927	19	20.94193	0.01939458	Credible Set	purple
chr19:20971640	19	20.97164	0.01696307	Credible Set	purple
chr19:21011731	19	21.01173	0.01939458	Credible Set	purple
chr19:21038918	19	21.03892	0.01939458	Credible Set	purple
chr19:21122136	19	21.12214	0.01939458	Credible Set	purple
chr19:21478738	19	21.47874	0.18998540	Credible Set	purple
chr19:21500356	19	21.50036	0.18998540	Credible Set	purple
chr19:21520189	19	21.52019	0.18998540	Credible Set	purple
chr19:21729752	19	21.72975	0.18998540	Credible Set	purple
chr19:21991002	19	21.99100	0.07362660	Credible Set	purple
chr19:22115053	19	22.11505	0.07189041	Credible Set	purple

F34 Array, locomotor test day 2, total distance travelled in 30min (cm)



date: Thu Oct 25 16:56:00 2018

build: F34Array

display range: chr8:12159295–22159295 [12159295–22159295]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:17159295

number of SNPs plotted: 16

min P-value: 7.15E–6 [chr8:17159295]

max P-value: 1.55E–1 [chr8:13370321]

omitted Genes: Gm15348, Atp11a, Gm15350

omitted Genes: Mcf2l, Gm38671, F10

omitted Genes: Proz, Pcid2, Cul4a

omitted Genes: Mir7065, Lamp1, Grtp1

omitted Genes: Mir1968, Adprhl1, Dcun1d2

omitted Genes: Tmco3, Tmem255b, Gas6

omitted Genes: 1700029H14Rik, 4932443I19Rik, Cdc16

omitted Genes: Upf3a, AF366264, Champ1

omitted Genes: Coprs, Fbxo25, Tdrp

omitted Genes: Gm5907, BB014433, Myom2

omitted Genes: Defb40, Defb37, Defb38

omitted Genes: Defb39, Defb12, Defb34

omitted Genes: Spag11b, Spag11a, Defb14

omitted Genes: Defb4, Defa-ps12, Defb6

omitted Genes: Defb46, Defb5, Defb3

omitted Genes: Defa-ps13, 4930467E23Rik, Gm21944

omitted Genes: Defb33, Gm15056, Gm6040

omitted Genes: AY761185, Defa21, Defa23

omitted Genes: Defa35, Defa25, Gm14851

omitted Genes: Defa30, Defa22, Gm15293

omitted Genes: Gm15292, Defa5, Defa27

omitted Genes: Defa29, Defa2, Defa33

omitted Genes: Defa36, Gm7849, Defa37

omitted Genes: Defa28, Gm7861, Defa26

omitted Genes: Defa17, Defa34, Defa-ps1

omitted Genes: AY761184, Defa24, Defb1

omitted Genes: Defb50, Defb2, Defb10

omitted Genes: Defb9, Defb11, Defb15

omitted Genes: Defb35, Defb13, Fam90a1a

omitted Genes: Ccdc70, Atp7b, Alg11

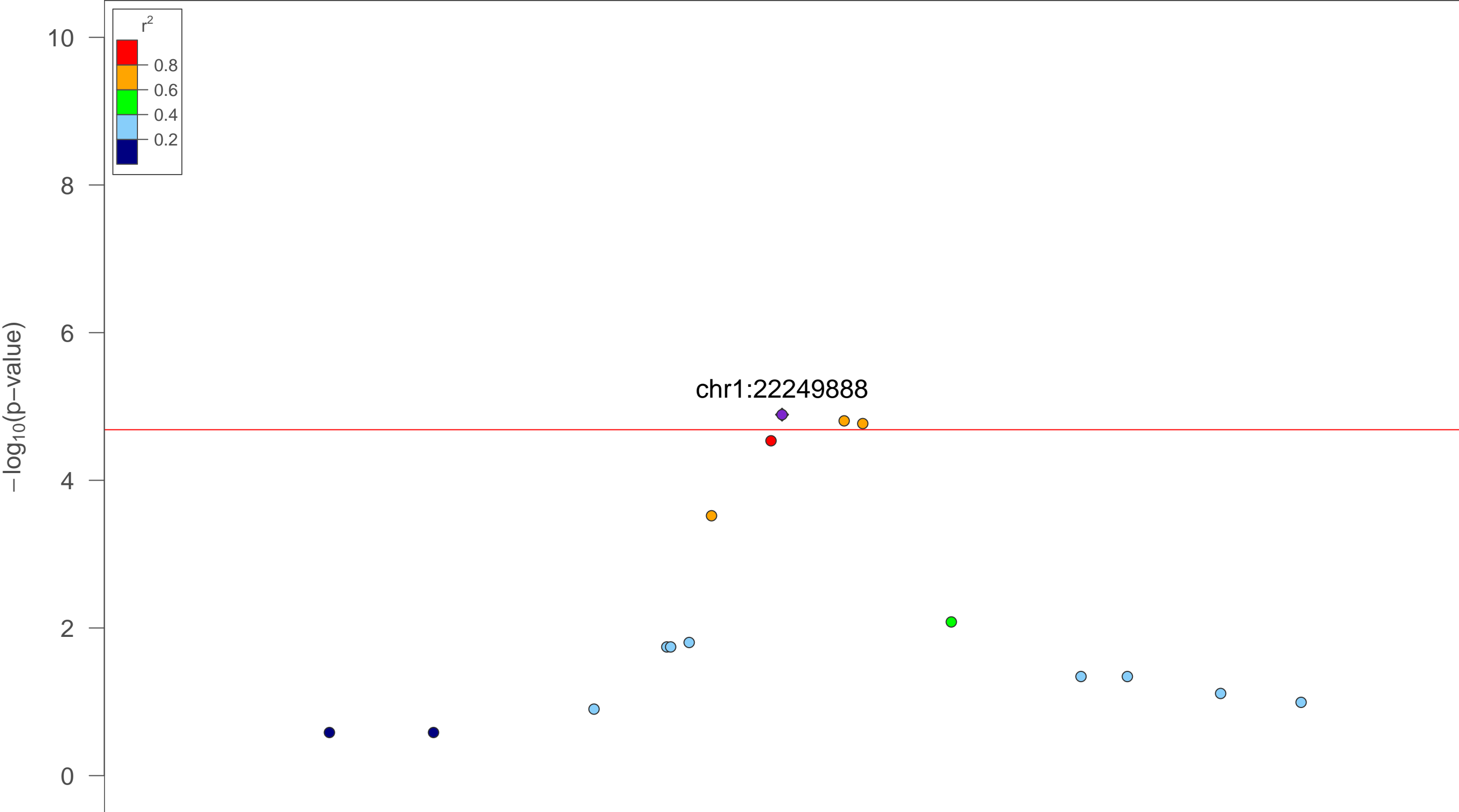
omitted Genes: Nek3

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

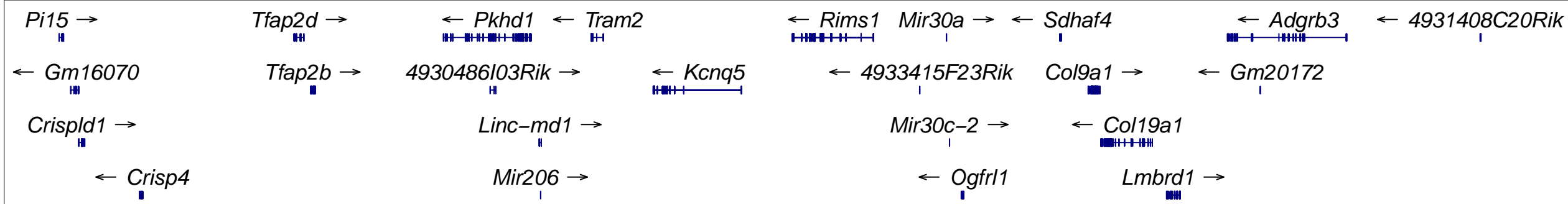
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:17159295	8	17.15930	0.5	Credible Set	purple
chr8:17415659	8	17.41566	0.5	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)



Credible Set



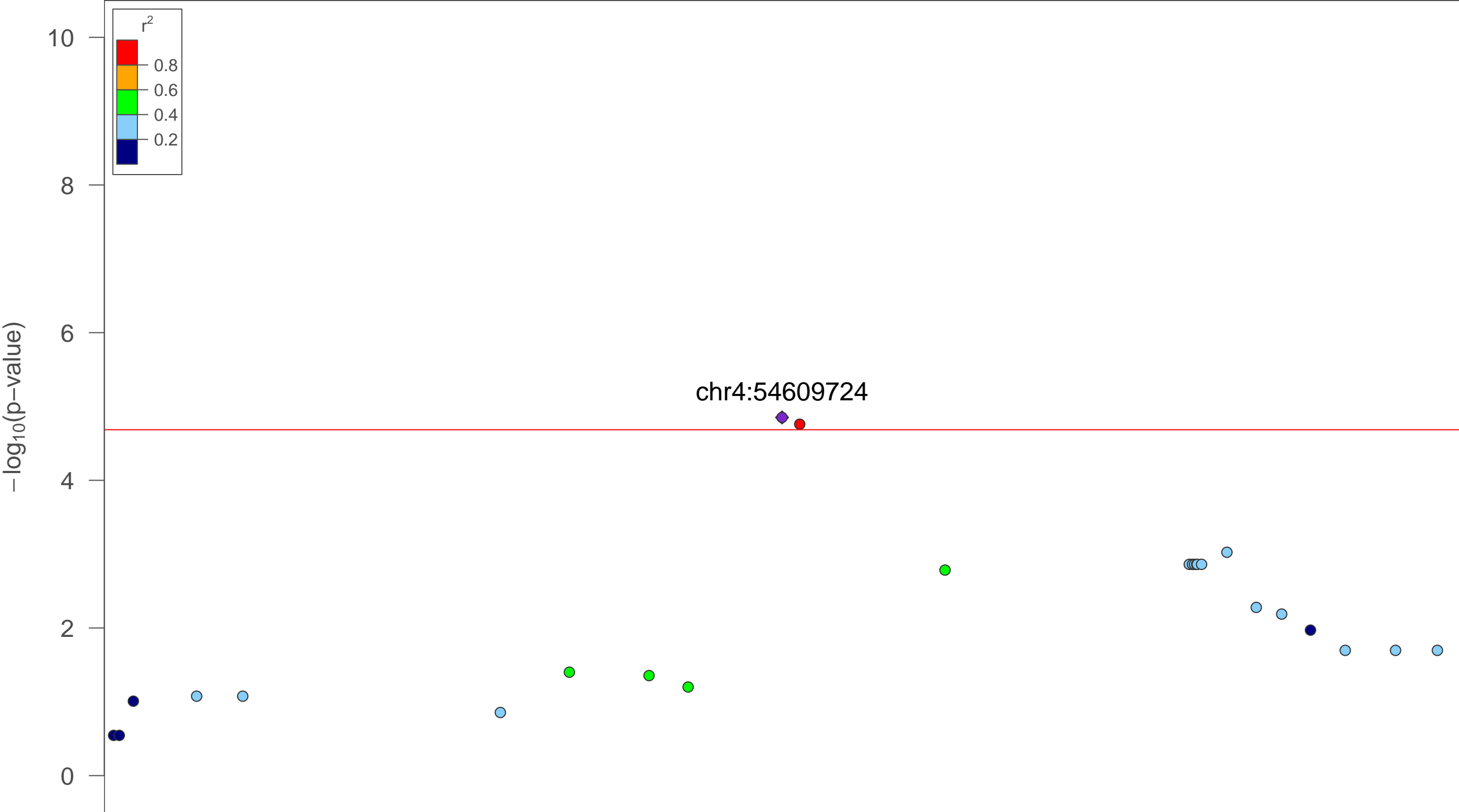
19 genes
omitted

date: Thu Oct 25 16:56:13 2018
build: F34Array
display range: chr1:17249888–27249888 [17249888–27249888]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:22249888
number of SNPs plotted: 17
min P-value: 1.29E–5 [chr1:22249888]
max P-value: 2.6E–1 [chr1:18911051]
omitted Genes: Defb44-ps, Defb18, Defb41
omitted Genes: Mir133b, Il17a, Il17f
omitted Genes: Mcm3, 6720483E21Rik, Paqr8
omitted Genes: Efhc1, Tmem14a, Gsta3
omitted Genes: Gm4956, Khdc1a, Khdc1c
omitted Genes: Khdc1b, B3gat2, Smap1
omitted Genes: Fam135a

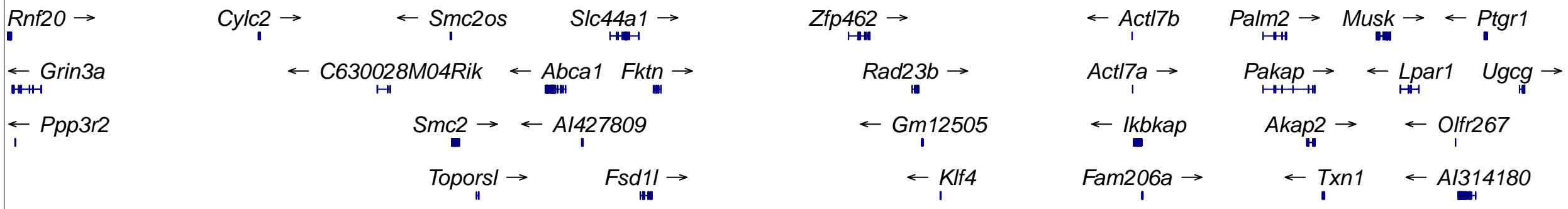
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:22168405	1	22.16840	0.3152276	Credible Set	purple
chr1:22249888	1	22.24989	0.6847724	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)



Credible Set



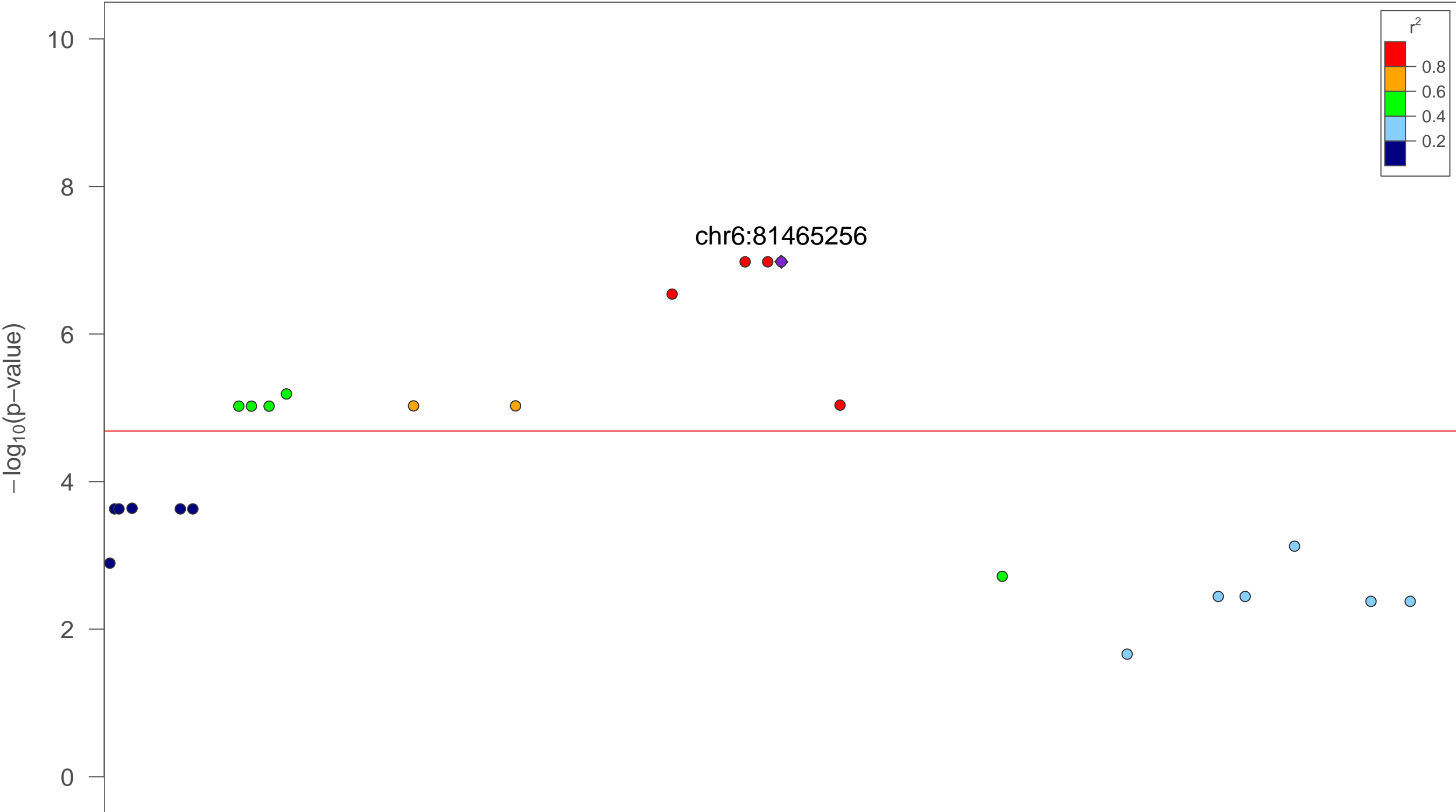
29 genes
omitted

date: Thu Oct 25 16:56:26 2018
build: F34Array
display range: chr4:49609724–59609724 [49609724–59609724]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:54609724
number of SNPs plotted: 26
min P-value: 1.41E–5 [chr4:54609724]
max P-value: 2.85E–1 [chr4:49679066]
omitted Genes: 4930552N02Rik, Olfr275, Olfr273
omitted Genes: Olfr272, Olfr270, Nipsnap3a
omitted Genes: Nipsnap3b, 4930522O17Rik, Tal2
omitted Genes: Tmem38b, Ctnna1, Tmem245
omitted Genes: Mir32, Frs1l, Epb41l4b
omitted Genes: Gm12530, Ptpn3, 1700042G15Rik
omitted Genes: D630039A03Rik, Txndc8, Sveg1
omitted Genes: Mir3095, Zkscan16, Dnajc25
omitted Genes: Gng10, Gm12596, Susd1
omitted Genes: Ptbp3, Hsdl2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:54609724	4	54.60972	0.5499053	Credible Set	purple
chr4:54740078	4	54.74008	0.4500947	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)



Credible Set



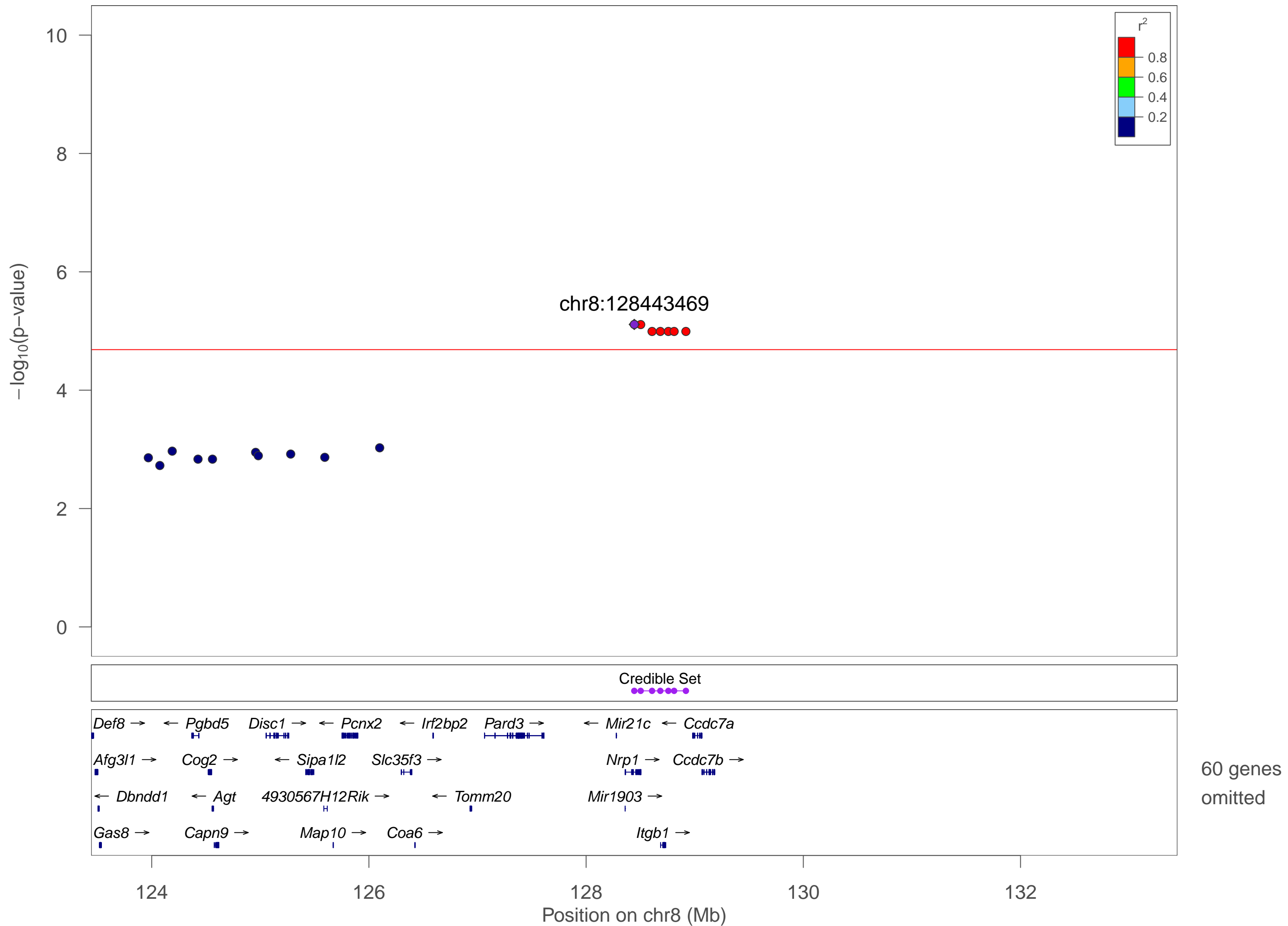
71 genes
omitted

date: Thu Oct 25 16:56:34 2018
build: F34Array
display range: chr6:76465256–86465256 [76465256–86465256]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:81465256
number of SNPs plotted: 25
min P-value: 1.05E–7 [chr6:81465256]
max P-value: 2.18E–2 [chr6:84018933]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Alms1, Nat8f7, Mir6375
omitted Genes: Alms1-ps2, Nat8f6, Nat8f5
omitted Genes: Nat8, Nat8f2, Nat8f4
omitted Genes: Nat8f1, Dusp11, Add2
omitted Genes: Fam136a, Snrpg, Pcyox1
omitted Genes: Tia1, C87436

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80659015	6	80.65901	0.1112528	Credible Set	purple
chr6:81198298	6	81.19830	0.2948104	Credible Set	purple
chr6:81364957	6	81.36496	0.2948104	Credible Set	purple
chr6:81465256	6	81.46526	0.2951438	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)

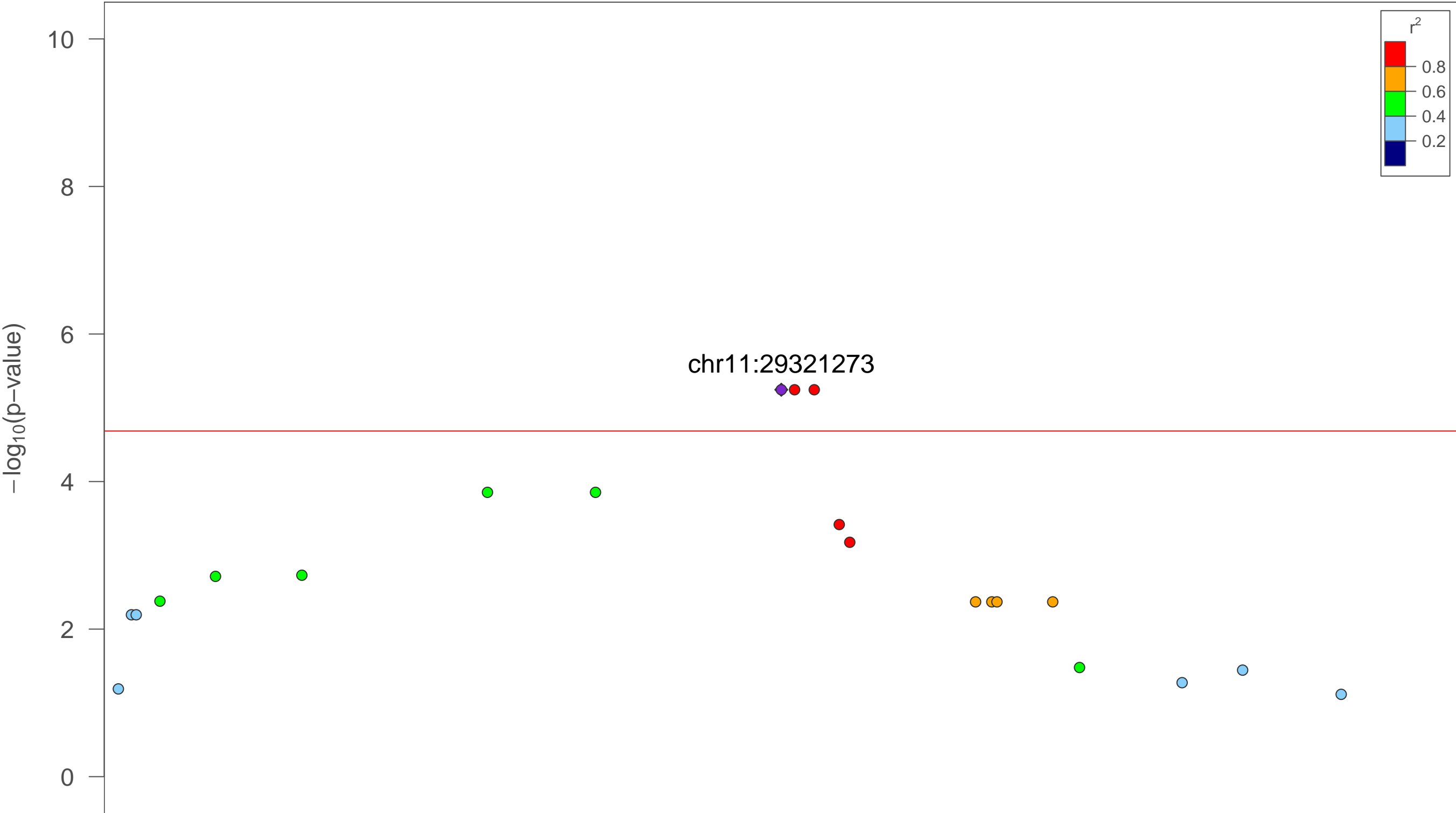


date: Thu Oct 25 16:56:41 2018
build: F34Array
display range: chr8:123443469–133443469 [123443469–133443469]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128443469
number of SNPs plotted: 18
min P-value: 7.74E–6 [chr8:128443469]
max P-value: 1.87E–3 [chr8:124074818]
omitted Genes: n-R5s100, n-R5s103, n-R5s104
omitted Genes: n-R5s105, n-R5s108, n-R5s110
omitted Genes: n-R5s111, n-R5s113, Gm25018
omitted Genes: n-R5s117, n-R5s121, n-R5s122
omitted Genes: n-R5s123, n-R5s124, n-R5s128
omitted Genes: Gm26391, n-R5s133, n-R5s134
omitted Genes: Rn5s, n-R5s136, n-R5s138
omitted Genes: n-R5s139, Gm22109, n-R5s141
omitted Genes: n-R5s142, n-R5s143, n-R5s144
omitted Genes: Gm25212, n-R5s146, Gm22291
omitted Genes: Gm23284, n-R5s149, Rhou
omitted Genes: 6030466F02Rik, Rab4a, Ccsap
omitted Genes: Acta1, Nup133, Abcb10
omitted Genes: Taf5l, Mir1967, Urb2
omitted Genes: Galnt2, 2310022B05Rik, Ttc13
omitted Genes: Arv1, Fam89a, Trim67
omitted Genes: 2810004N23Rik, Gnpat, Exoc8
omitted Genes: Sprtn, Egln1, Tsnax
omitted Genes: Ntpcr, BC021891, Kcnk1
omitted Genes: Gm17296, Rbm34, 2610044O15Rik8

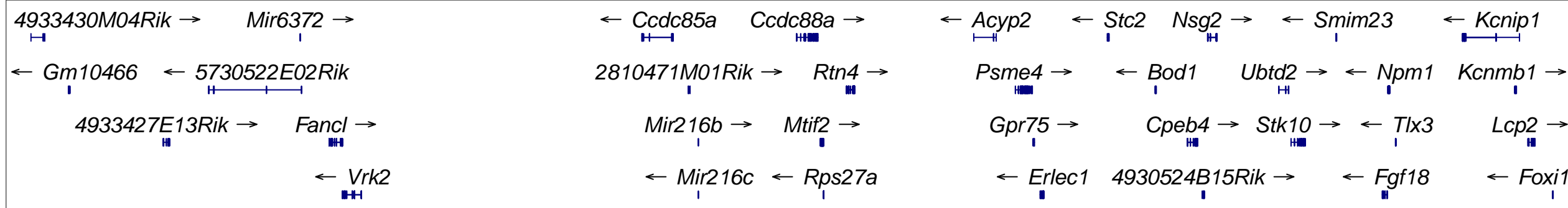
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128443469	8	128.4435	0.1709426	Credible Set	purple
chr8:128502425	8	128.5024	0.1701707	Credible Set	purple
chr8:128607127	8	128.6071	0.1317773	Credible Set	purple
chr8:128683251	8	128.6833	0.1317773	Credible Set	purple
chr8:128757217	8	128.7572	0.1317773	Credible Set	purple
chr8:128810304	8	128.8103	0.1317773	Credible Set	purple
chr8:128918665	8	128.9187	0.1317773	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)



Credible Set



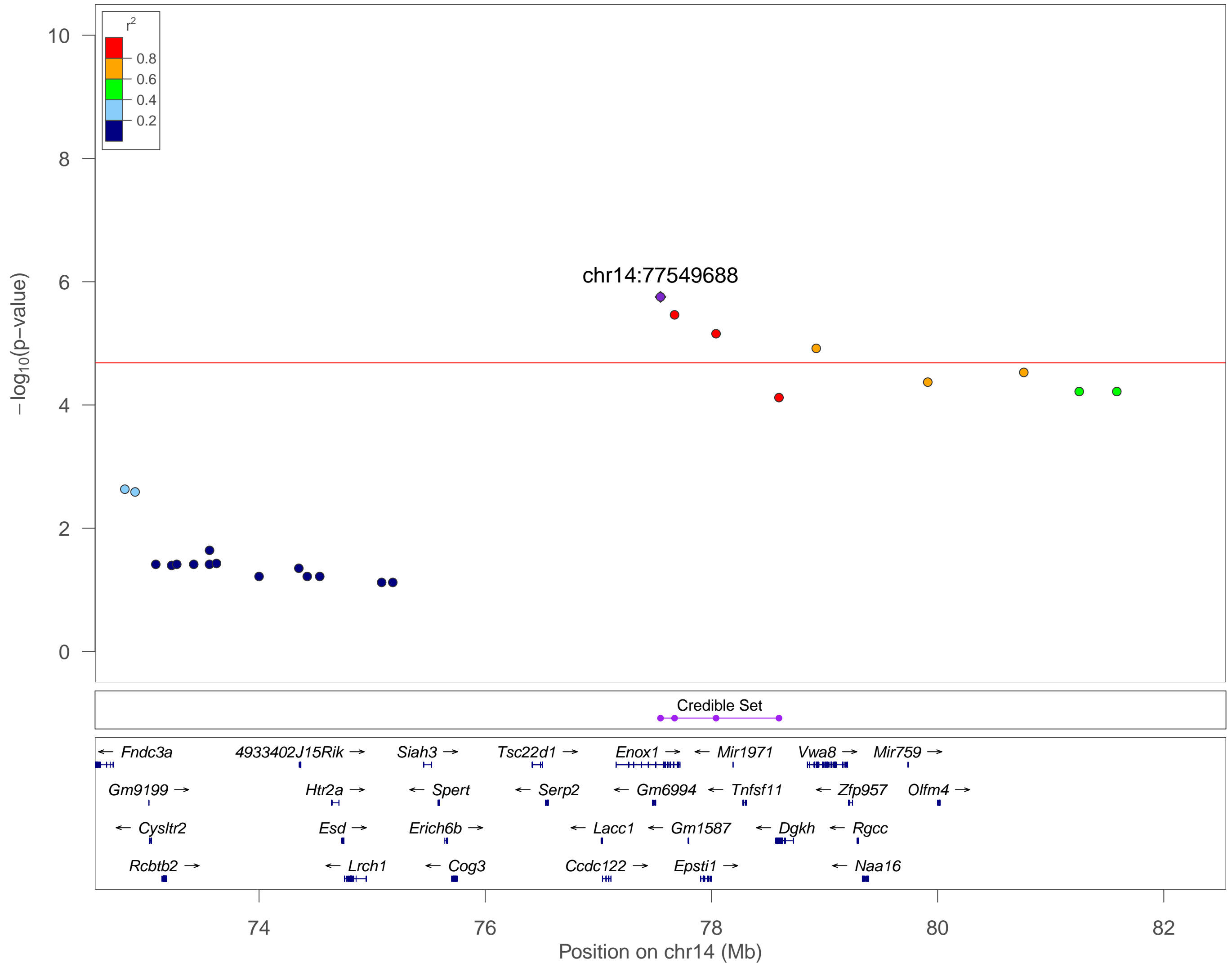
34 genes
omitted

date: Thu Oct 25 16:56:07 2018
build: F34Array
display range: chr11:24321273–34321273 [24321273–34321273]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr11:29321273
number of SNPs plotted: 22
min P-value: 5.69E–6 [chr11:29321273]
max P-value: 7.66E–2 [chr11:33455345]
omitted Genes: Gm12070, Mir216a, Mir217
omitted Genes: Efemp1, Pnpt1, Smek2
omitted Genes: Cfap36, Prorsd1, Clhc1
omitted Genes: Eml6, 4931440F15Rik, Sptbn1
omitted Genes: 4930505A04Rik, Asb3, Chac2
omitted Genes: D630024D03Rik, Gm12108, Il9r
omitted Genes: Snrnp25, Rhbdf1, Mpg
omitted Genes: Nprl3, Hba–x, Hba–a1
omitted Genes: Hbq1b, Hba–a2, Hbq1a
omitted Genes: Sh3pxd2b, Efcab9, Fbxw11
omitted Genes: Ranbp17, Gabrp, Dock2
omitted Genes: Fam196b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr11:29321273	11	29.32127	0.3300716	Credible Set	purple
chr11:29419287	11	29.41929	0.3300716	Credible Set	purple
chr11:29564549	11	29.56455	0.3300716	Credible Set	purple

F34 Array, quadriceps femoris muscle weight (mg)

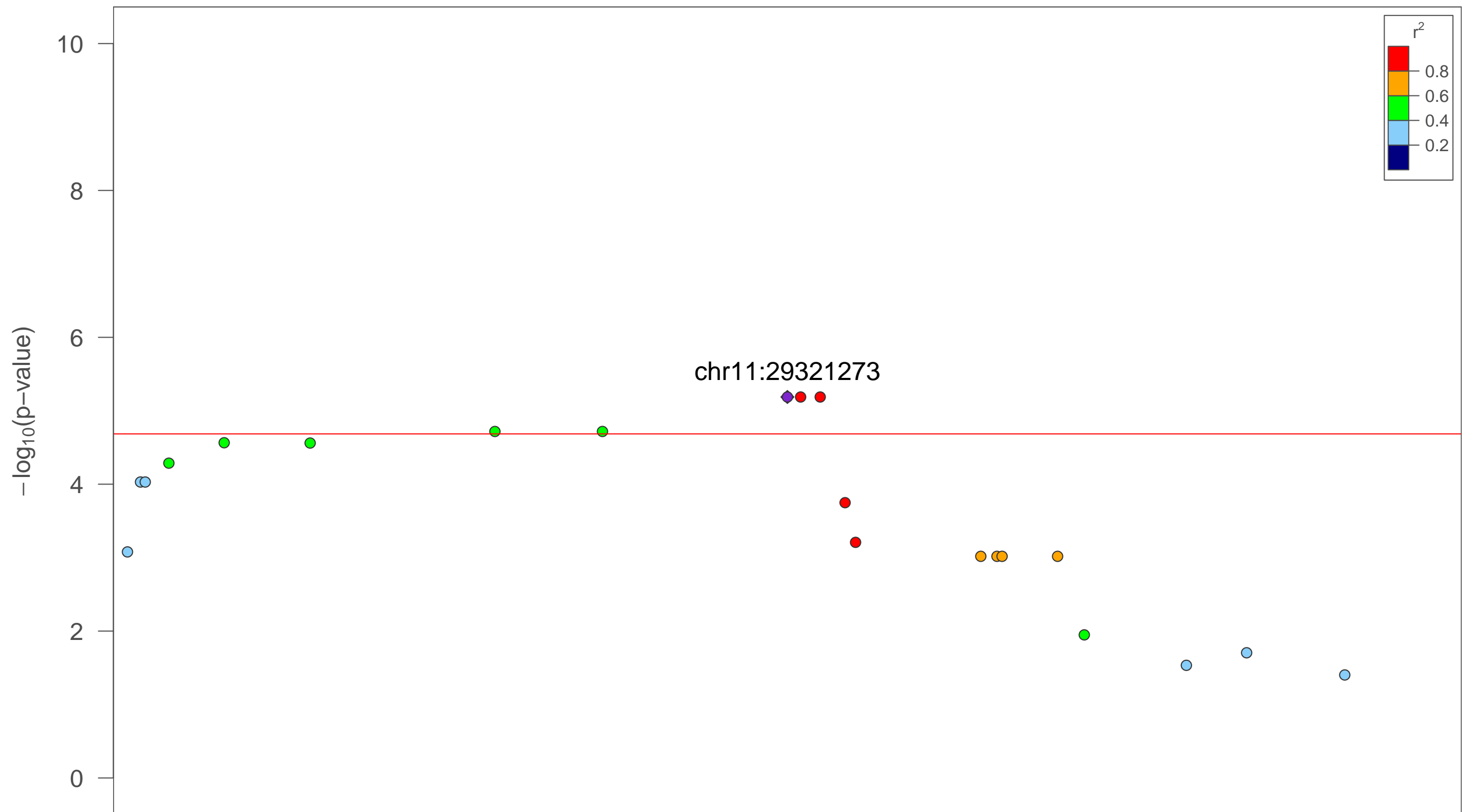


date: Thu Oct 25 16:56:20 2018
build: F34Array
display range: chr14:72549688–82549688 [72549688–82549688]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:77549688
number of SNPs plotted: 25
min P-value: 1.76E–6 [chr14:77549688]
max P-value: 7.57E–2 [chr14:75083773]
omitted Genes: Rb1, Mir687, Lpar6
omitted Genes: Itm2b, Med4, Nudt15
omitted Genes: Sucla2, Gm4278, 5031414D18Rik
omitted Genes: Lrrc63, Lcp1, Cpb2
omitted Genes: Zc3h13, Slc25a30, Gm4285
omitted Genes: Tpt1, Snora31, Gtf2f2
omitted Genes: Kctd4, Gpalpp1, Nufip1
omitted Genes: 4930444M15Rik, 1700108F19Rik, Dnajc15
omitted Genes: Fam216b, Akap11, Mtrf1
omitted Genes: Kbtbd7, Kbtbd6, Wbp4
omitted Genes: Elf1, Sugt1, Lect1
omitted Genes: 4930452G13Rik, Pcdh8, Gm10845

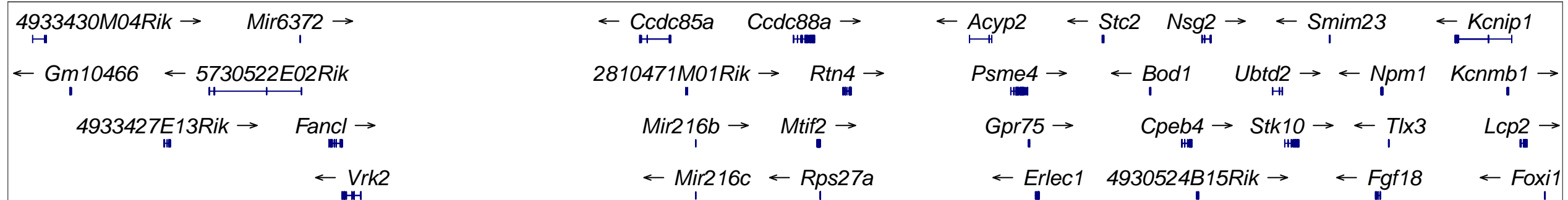
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:77549688	14	77.54969	0.54938496	Credible Set	purple
chr14:77673987	14	77.67399	0.28854246	Credible Set	purple
chr14:78040815	14	78.04081	0.14690307	Credible Set	purple
chr14:78597230	14	78.59723	0.01516952	Credible Set	purple

F34 Array, tibialis anterior muscle weight (mg)



Credible Set



34 genes
omitted

26

28

30

32

34

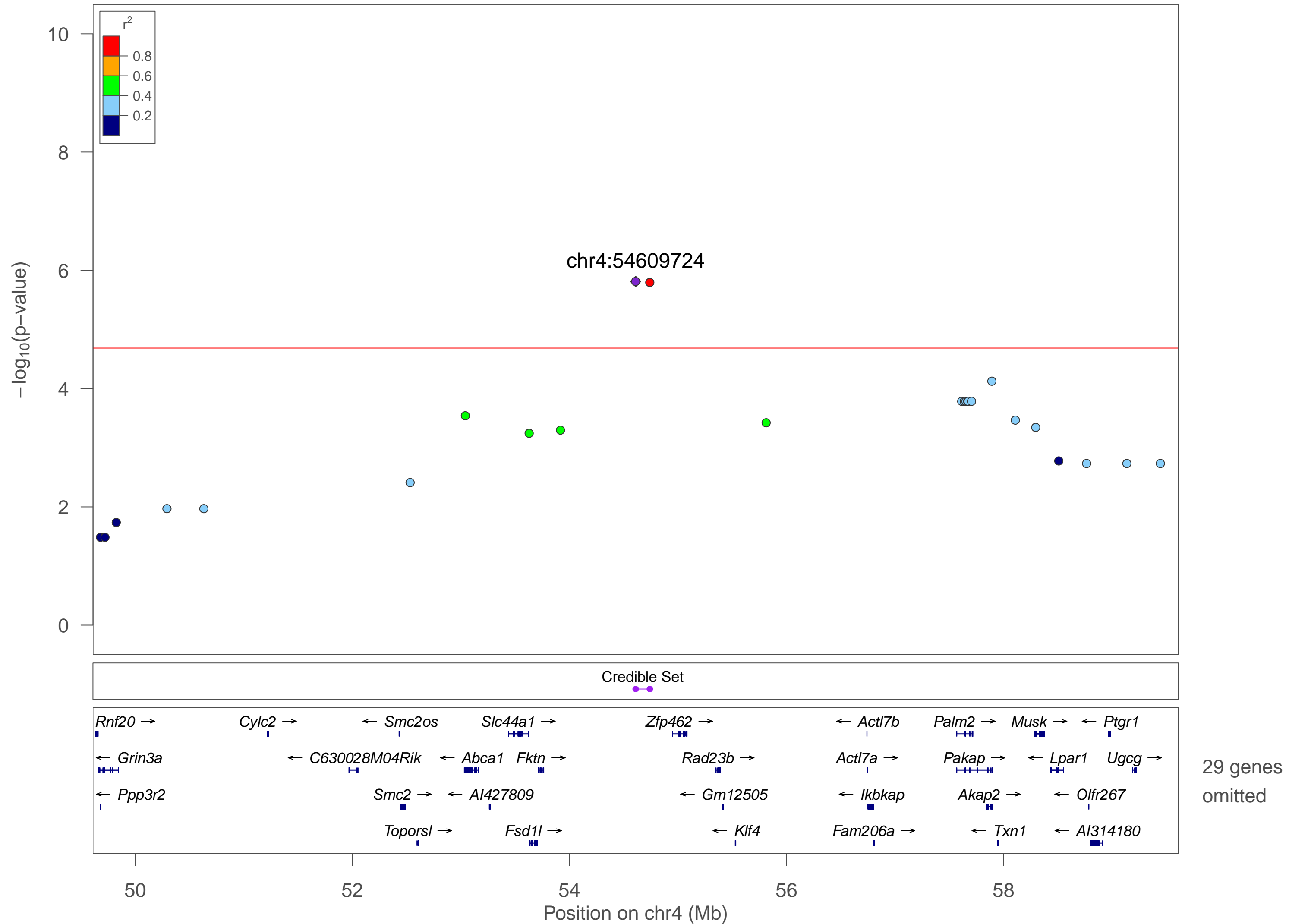
Position on chr11 (Mb)

date: Thu Oct 25 16:56:49 2018
build: F34Array
display range: chr11:24321273–34321273 [24321273–34321273]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr11:29321273
number of SNPs plotted: 22
min P-value: 6.49E–6 [chr11:29321273]
max P-value: 3.95E–2 [chr11:33455345]
omitted Genes: Gm12070, Mir216a, Mir217
omitted Genes: Efemp1, Pnpt1, Smek2
omitted Genes: Cfap36, Prorsd1, Clhc1
omitted Genes: Eml6, 4931440F15Rik, Sptbn1
omitted Genes: 4930505A04Rik, Asb3, Chac2
omitted Genes: D630024D03Rik, Gm12108, Il9r
omitted Genes: Snrnp25, Rhbdf1, Mpg
omitted Genes: Nprl3, Hba–x, Hba–a1
omitted Genes: Hbq1b, Hba–a2, Hbq1a
omitted Genes: Sh3pxd2b, Efcab9, Fbxw11
omitted Genes: Ranbp17, Gabrp, Dock2
omitted Genes: Fam196b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr11:29321273	11	29.32127	0.32717292	Credible Set	purple
chr11:29419287	11	29.41929	0.32717292	Credible Set	purple
chr11:29564549	11	29.56455	0.32717292	Credible Set	purple
chr11:29749029	11	29.74903	0.01408268	Credible Set	purple

F34 Array, extensor digitorum longus muscle weight (mg)

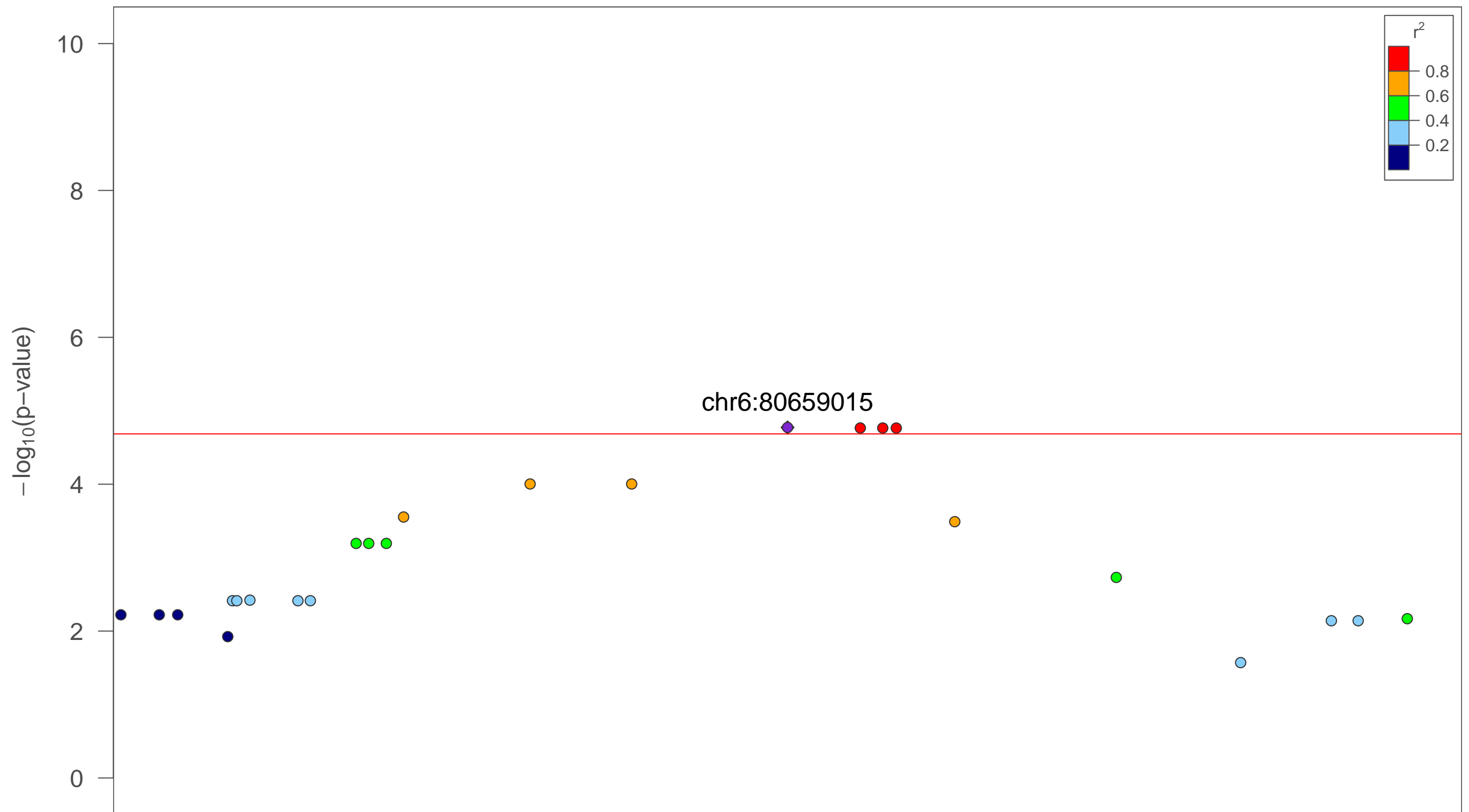


date: Thu Oct 25 16:56:56 2018
build: F34Array
display range: chr4:49609724–59609724 [49609724–59609724]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:54609724
number of SNPs plotted: 26
min P-value: 1.54E–6 [chr4:54609724]
max P-value: 3.27E–2 [chr4:49679066]
omitted Genes: 4930552N02Rik, Olfr275, Olfr273
omitted Genes: Olfr272, Olfr270, Nipsnap3a
omitted Genes: Nipsnap3b, 4930522O17Rik, Tal2
omitted Genes: Tmem38b, Cttna1, Tmem245
omitted Genes: Mir32, Frrs1l, Epb41l4b
omitted Genes: Gm12530, Ptpn3, 1700042G15Rik
omitted Genes: D630039A03Rik, Txndc8, Slep1
omitted Genes: Mir3095, Zkscan16, Dnajc25
omitted Genes: Gng10, Gm12596, Susd1
omitted Genes: Ptbp3, Hsdl2

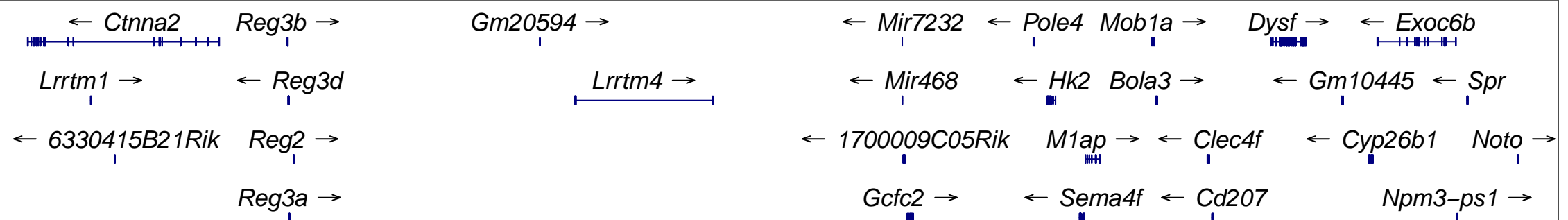
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:54609724	4	54.60972	0.5090756	Credible Set	purple
chr4:54740078	4	54.74008	0.4909244	Credible Set	purple

F34 Array, gastrocnemius muscle weight (mg)



Credible Set



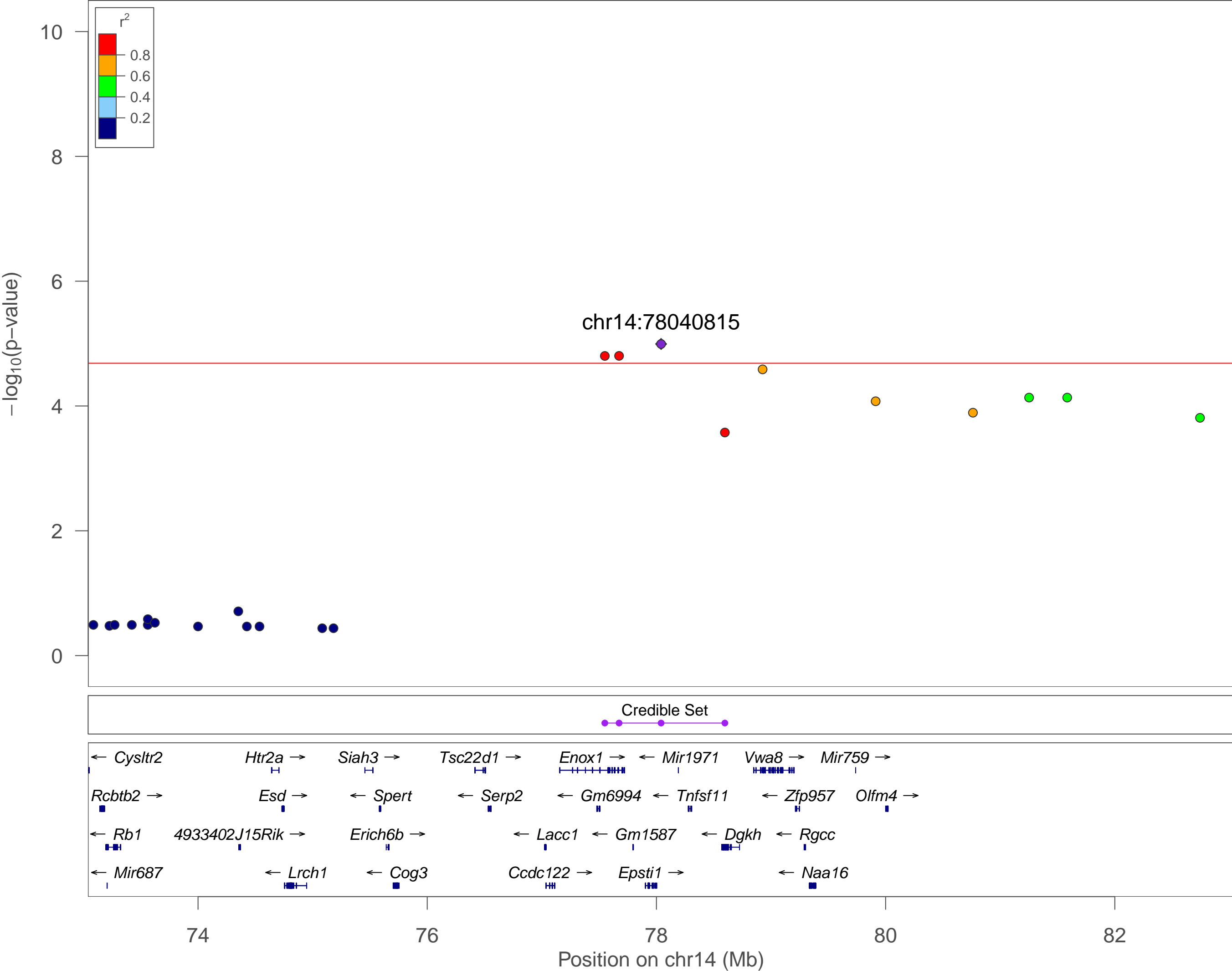
56 genes
omitted

date: Thu Oct 25 16:57:03 2018
build: F34Array
display range: chr6:75659015–85659015 [75659015–85659015]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:80659015
number of SNPs plotted: 26
min P-value: 1.69E–5 [chr6:80659015]
max P-value: 2.68E–2 [chr6:84018933]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Egr4, Alms1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80659015	6	80.65901	0.2530481	Credible Set	purple
chr6:81198298	6	81.19830	0.2491541	Credible Set	purple
chr6:81364957	6	81.36496	0.2491541	Credible Set	purple
chr6:81465256	6	81.46526	0.2486437	Credible Set	purple

F34 Array, soleus muscle weight (mg)

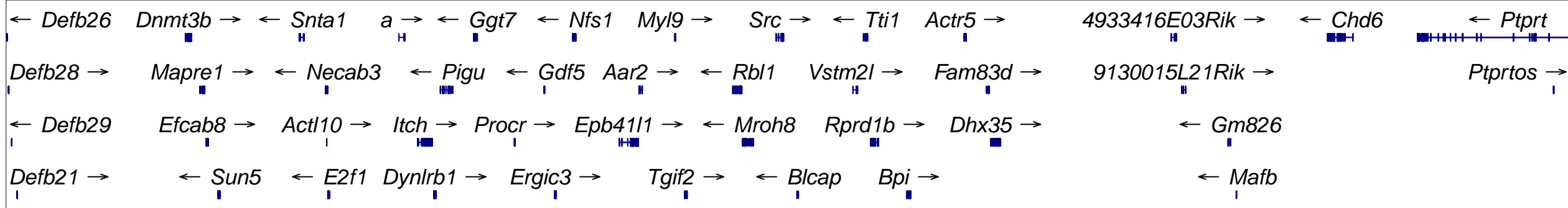
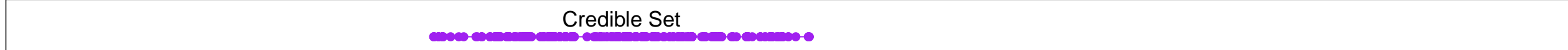
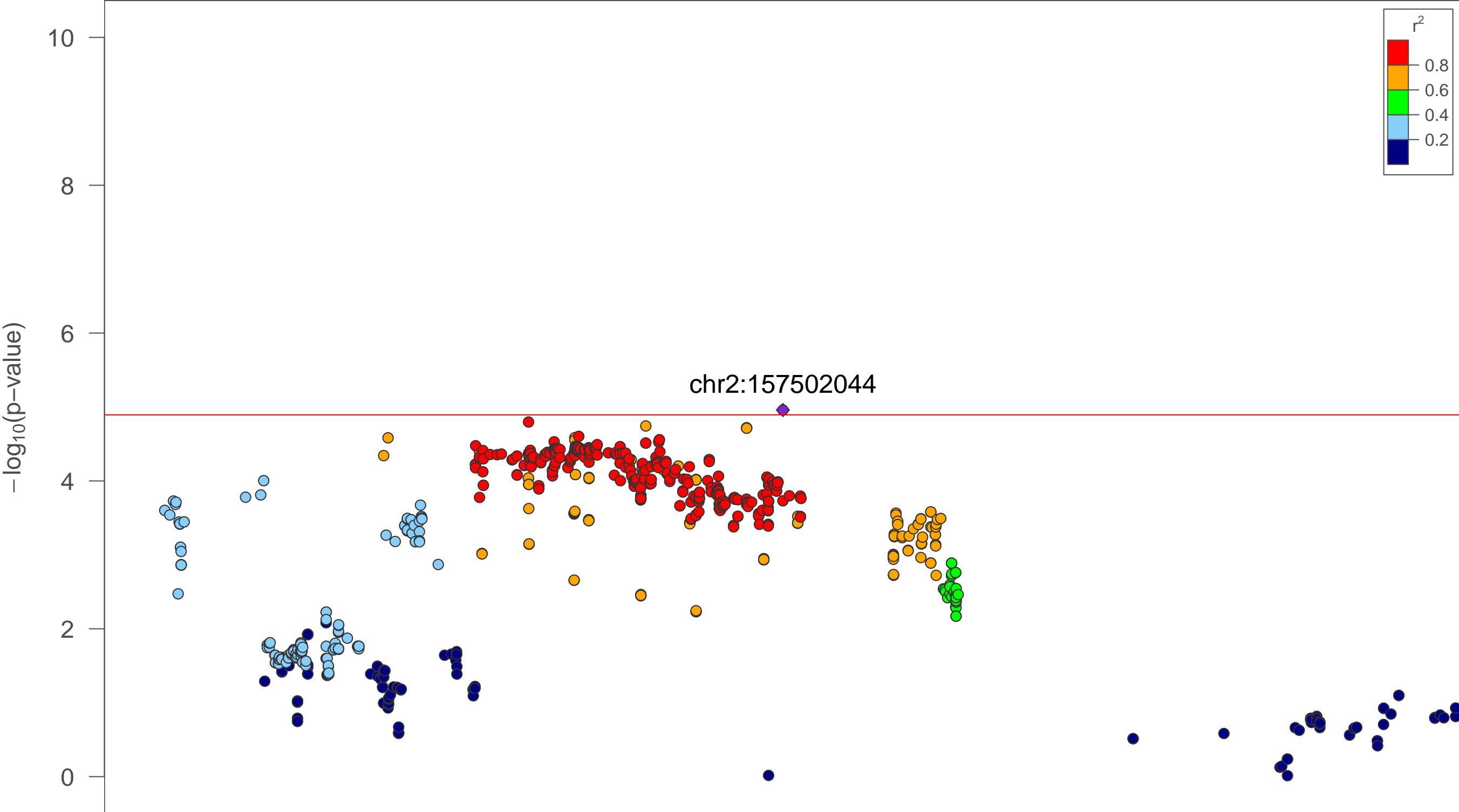


date: Thu Oct 25 16:57:10 2018
build: F34Array
display range: chr14:73040815–83040815 [73040815–83040815]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:78040815
number of SNPs plotted: 24
min P-value: 1.01E–5 [chr14:78040815]
max P-value: 3.64E–1 [chr14:75083773]
omitted Genes: Lpar6, Itm2b, Med4
omitted Genes: Nudt15, Sucla2, Gm4278
omitted Genes: 5031414D18Rik, Lrrc63, Lcp1
omitted Genes: Cpb2, Zc3h13, Slc25a30
omitted Genes: Gm4285, Tpt1, Snora31
omitted Genes: Gtf2f2, Kctd4, Gpalpp1
omitted Genes: Nufip1, 4930444M15Rik, 1700108F19Rik
omitted Genes: Dnajc15, Fam216b, Akap11
omitted Genes: Mtrf1, Kbtbd7, Kbtbd6
omitted Genes: Wbp4, Elf1, Sugt1
omitted Genes: Lect1, 4930452G13Rik, Pcdh8
omitted Genes: Gm10845

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:77549688	14	77.54969	0.2781654	Credible Set	purple
chr14:77673987	14	77.67399	0.2789379	Credible Set	purple
chr14:78040815	14	78.04081	0.4236906	Credible Set	purple
chr14:78597230	14	78.59723	0.0192061	Credible Set	purple

F34, F39–43 GBS, body weight



116 genes omitted

Position on chr2 (Mb)

date: Thu Oct 25 16:57:28 2018

build: F34F3943GBS

display range: chr2:152502044–162502044 [152502044–162502044]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:157502044

number of SNPs plotted: 729

min P-value: 1.1E–5 [chr2:157502044]

max P-value: 9.69E–1 [chr2:161219896]

omitted Genes: Defb19, Defb45, Defb36

omitted Genes: Defb25, Rem1, H13

omitted Genes: Mcts2, Id1, Cox4i2

omitted Genes: Bcl2l1, Tpx2, Mir5622

omitted Genes: Mylk2, Foxs1, Dusp15

omitted Genes: Ttl9, Pdr1, Xkr7

omitted Genes: Ccm2l, Hck, Tm9sf4

omitted Genes: Tspyl3, Plagl2, Pofut1

omitted Genes: Kif3b, 2500004C02Rik, Asxl1

omitted Genes: Nol4l, Commd7, Bpifb2

omitted Genes: Bpifb6, Bpifb3, Bpifb4

omitted Genes: Bpifa6, Bpifa2, Bpifa3

omitted Genes: Bpifa1, Bpifa5, Bpifb1

omitted Genes: Bpifb5, Bpifb9a, Bpifb9b

omitted Genes: Cdk5rap1, Cbfa2t2, 1700003F12Rik

omitted Genes: Pxmp4, Zfp341, Chmp4b

omitted Genes: Raly, Eif2s2, Ahcy

omitted Genes: 2310005A03Rik, Map1lc3a, Mir695

omitted Genes: Trp53inp2, Ncoa6, Acss2

omitted Genes: Acss2os, Gss, Myh7b

omitted Genes: Mir499, Trpc4ap, Edem2

omitted Genes: Mmp24, BC029722, Eif6

omitted Genes: Fam83c, Uqcc1, Cep250

omitted Genes: 6430550D23Rik, Fer1l4, Spag4

omitted Genes: Cpne1, Rbm12, Romo1

omitted Genes: Rbm39, Phf20, Scand1

omitted Genes: Cnbd2, 2900097C17Rik, Gm14169

omitted Genes: Dlgap4, 4930405A21Rik, 5430405H02Rik

omitted Genes: 1110008F13Rik, Sla2, Ndr3

omitted Genes: Dsn1, Soga1, Tldc2

omitted Genes: Samhd1, Rpn2, Gph

omitted Genes: Mapk8, Nect, Ctnnb1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155236637	2	155.2366	0.003464254	Credible Set	purple
chr2:155236657	2	155.2367	0.003412400	Credible Set	purple
chr2:155236987	2	155.2370	0.003115889	Credible Set	purple
chr2:155237968	2	155.2380	0.005984279	Credible Set	purple
chr2:155265639	2	155.2656	0.004245892	Credible Set	purple
chr2:155266429	2	155.2664	0.001304812	Credible Set	purple
chr2:155266459	2	155.2665	0.004313901	Credible Set	purple
chr2:155291037	2	155.2910	0.002774933	Credible Set	purple
chr2:155291486	2	155.2915	0.005200710	Credible Set	purple
chr2:155294582	2	155.2946	0.004064489	Credible Set	purple
chr2:155294781	2	155.2948	0.001867995	Credible Set	purple
chr2:155294817	2	155.2948	0.001859333	Credible Set	purple
chr2:155344176	2	155.3442	0.004618114	Credible Set	purple
chr2:155396284	2	155.3963	0.004588433	Credible Set	purple
chr2:155427716	2	155.4277	0.004685690	Credible Set	purple
chr2:155506374	2	155.5064	0.003940804	Credible Set	purple
chr2:155514315	2	155.5143	0.004033277	Credible Set	purple
chr2:155542937	2	155.5429	0.004413868	Credible Set	purple
chr2:155543113	2	155.5431	0.002550139	Credible Set	purple
chr2:155543163	2	155.5432	0.002512879	Credible Set	purple
chr2:155596243	2	155.5962	0.003334274	Credible Set	purple
chr2:155596245	2	155.5962	0.003363219	Credible Set	purple
chr2:155596254	2	155.5963	0.003368160	Credible Set	purple
chr2:155626668	2	155.6267	0.004665526	Credible Set	purple
chr2:155626706	2	155.6267	0.004665526	Credible Set	purple
chr2:155627928	2	155.6279	0.012087851	Credible Set	purple
chr2:155630405	2	155.6304	0.004775484	Credible Set	purple
chr2:155630630	2	155.6306	0.004718763	Credible Set	purple
chr2:155630746	2	155.6307	0.004768401	Credible Set	purple
chr2:155631110	2	155.6311	0.004873521	Credible Set	purple
chr2:155632202	2	155.6322	0.004294823	Credible Set	purple
chr2:155632358	2	155.6324	0.004499151	Credible Set	purple
chr2:155632880	2	155.6329	0.004508078	Credible Set	purple
chr2:155633328	2	155.6333	0.004549754	Credible Set	purple
chr2:155640583	2	155.6406	0.003531773	Credible Set	purple
chr2:155640694	2	155.6407	0.005025648	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155640700	2	155.6407	0.005223632	Credible Set	purple
chr2:155641730	2	155.6417	0.004765478	Credible Set	purple
chr2:155647032	2	155.6470	0.004078487	Credible Set	purple
chr2:155647066	2	155.6471	0.003208476	Credible Set	purple
chr2:155659679	2	155.6597	0.004197479	Credible Set	purple
chr2:155659722	2	155.6597	0.004128186	Credible Set	purple
chr2:155664276	2	155.6643	0.004312228	Credible Set	purple
chr2:155703392	2	155.7034	0.001787672	Credible Set	purple
chr2:155703416	2	155.7034	0.001840882	Credible Set	purple
chr2:155703421	2	155.7034	0.001670214	Credible Set	purple
chr2:155718717	2	155.7187	0.004011865	Credible Set	purple
chr2:155718886	2	155.7189	0.003607960	Credible Set	purple
chr2:155718943	2	155.7189	0.003654915	Credible Set	purple
chr2:155748773	2	155.7488	0.004630972	Credible Set	purple
chr2:155754530	2	155.7545	0.004456573	Credible Set	purple
chr2:155754728	2	155.7547	0.004360527	Credible Set	purple
chr2:155765708	2	155.7657	0.004912680	Credible Set	purple
chr2:155787135	2	155.7871	0.004962641	Credible Set	purple
chr2:155787323	2	155.7873	0.004767340	Credible Set	purple
chr2:155804255	2	155.8043	0.002458148	Credible Set	purple
chr2:155804262	2	155.8043	0.002927899	Credible Set	purple
chr2:155804269	2	155.8043	0.002780520	Credible Set	purple
chr2:155813877	2	155.8139	0.005239627	Credible Set	purple
chr2:155816627	2	155.8166	0.006726201	Credible Set	purple
chr2:155818442	2	155.8184	0.005431683	Credible Set	purple
chr2:155819513	2	155.8195	0.005427257	Credible Set	purple
chr2:155819633	2	155.8196	0.003329201	Credible Set	purple
chr2:155819676	2	155.8197	0.003297482	Credible Set	purple
chr2:155827653	2	155.8277	0.004150075	Credible Set	purple
chr2:155827705	2	155.8277	0.003676437	Credible Set	purple
chr2:155828085	2	155.8281	0.005426775	Credible Set	purple
chr2:155828345	2	155.8283	0.005391394	Credible Set	purple
chr2:155828819	2	155.8288	0.005423197	Credible Set	purple
chr2:155830487	2	155.8305	0.005388799	Credible Set	purple
chr2:155830972	2	155.8310	0.004930105	Credible Set	purple
chr2:155843797	2	155.8438	0.005460715	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155843802	2	155.8438	0.005462799	Credible Set	purple
chr2:155845413	2	155.8454	0.005436017	Credible Set	purple
chr2:155859749	2	155.8597	0.005362268	Credible Set	purple
chr2:155860022	2	155.8600	0.004217732	Credible Set	purple
chr2:155917786	2	155.9178	0.003149380	Credible Set	purple
chr2:155917800	2	155.9178	0.003128783	Credible Set	purple
chr2:155934881	2	155.9349	0.003748017	Credible Set	purple
chr2:155935242	2	155.9352	0.003955028	Credible Set	purple
chr2:155941490	2	155.9415	0.004197866	Credible Set	purple
chr2:155941536	2	155.9415	0.004197866	Credible Set	purple
chr2:155962070	2	155.9621	0.004800666	Credible Set	purple
chr2:155969145	2	155.9691	0.005393328	Credible Set	purple
chr2:155969338	2	155.9693	0.004438912	Credible Set	purple
chr2:155973018	2	155.9730	0.005882709	Credible Set	purple
chr2:155973035	2	155.9730	0.005854227	Credible Set	purple
chr2:155973697	2	155.9737	0.005720146	Credible Set	purple
chr2:155974320	2	155.9743	0.005730225	Credible Set	purple
chr2:155974339	2	155.9743	0.005621049	Credible Set	purple
chr2:155974623	2	155.9746	0.005413386	Credible Set	purple
chr2:155985744	2	155.9857	0.005290409	Credible Set	purple
chr2:155986052	2	155.9861	0.005366294	Credible Set	purple
chr2:155988485	2	155.9885	0.005089466	Credible Set	purple
chr2:155989053	2	155.9891	0.005160591	Credible Set	purple
chr2:155991302	2	155.9913	0.005364305	Credible Set	purple
chr2:155991810	2	155.9918	0.005364305	Credible Set	purple
chr2:155992021	2	155.9920	0.005347681	Credible Set	purple
chr2:155997923	2	155.9979	0.007906597	Credible Set	purple
chr2:155998479	2	155.9985	0.005675815	Credible Set	purple
chr2:156011028	2	156.0110	0.005166186	Credible Set	purple
chr2:156011085	2	156.0111	0.005485015	Credible Set	purple
chr2:156011672	2	156.0117	0.005435624	Credible Set	purple
chr2:156039455	2	156.0395	0.005292218	Credible Set	purple
chr2:156040637	2	156.0406	0.005106331	Credible Set	purple
chr2:156040653	2	156.0407	0.005122289	Credible Set	purple
chr2:156041520	2	156.0415	0.005315708	Credible Set	purple
chr2:156041911	2	156.0419	0.004334184	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156041912	2	156.0419	0.004255881	Credible Set	purple
chr2:156043677	2	156.0437	0.005283196	Credible Set	purple
chr2:156071586	2	156.0716	0.005654522	Credible Set	purple
chr2:156073463	2	156.0735	0.003673781	Credible Set	purple
chr2:156077894	2	156.0779	0.004820393	Credible Set	purple
chr2:156078317	2	156.0783	0.004854496	Credible Set	purple
chr2:156078406	2	156.0784	0.005503233	Credible Set	purple
chr2:156078707	2	156.0787	0.004747875	Credible Set	purple
chr2:156078913	2	156.0789	0.004559174	Credible Set	purple
chr2:156082428	2	156.0824	0.004851955	Credible Set	purple
chr2:156082588	2	156.0826	0.004840536	Credible Set	purple
chr2:156082682	2	156.0827	0.005260584	Credible Set	purple
chr2:156111908	2	156.1119	0.005514199	Credible Set	purple
chr2:156111910	2	156.1119	0.005580051	Credible Set	purple
chr2:156124158	2	156.1242	0.005642918	Credible Set	purple
chr2:156124843	2	156.1248	0.005542267	Credible Set	purple
chr2:156133370	2	156.1334	0.006101269	Credible Set	purple
chr2:156133395	2	156.1334	0.006186832	Credible Set	purple
chr2:156133510	2	156.1335	0.004541558	Credible Set	purple
chr2:156215789	2	156.2158	0.004853563	Credible Set	purple
chr2:156259843	2	156.2598	0.002506363	Credible Set	purple
chr2:156267477	2	156.2675	0.004696835	Credible Set	purple
chr2:156269831	2	156.2698	0.004882722	Credible Set	purple
chr2:156282307	2	156.2823	0.004557349	Credible Set	purple
chr2:156302628	2	156.3026	0.005832612	Credible Set	purple
chr2:156302714	2	156.3027	0.003568420	Credible Set	purple
chr2:156302728	2	156.3027	0.003594033	Credible Set	purple
chr2:156302741	2	156.3027	0.004741867	Credible Set	purple
chr2:156303023	2	156.3030	0.004742166	Credible Set	purple
chr2:156305013	2	156.3050	0.002133821	Credible Set	purple
chr2:156323079	2	156.3231	0.004802958	Credible Set	purple
chr2:156343221	2	156.3432	0.004808018	Credible Set	purple
chr2:156343324	2	156.3433	0.003172128	Credible Set	purple
chr2:156368682	2	156.3687	0.003348256	Credible Set	purple
chr2:156368698	2	156.3687	0.004071623	Credible Set	purple
chr2:156378531	2	156.3785	0.002896125	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156387857	2	156.3879	0.002443110	Credible Set	purple
chr2:156401411	2	156.4014	0.002112180	Credible Set	purple
chr2:156407061	2	156.4071	0.001811764	Credible Set	purple
chr2:156407080	2	156.4071	0.001820027	Credible Set	purple
chr2:156407368	2	156.4074	0.002091303	Credible Set	purple
chr2:156417925	2	156.4179	0.002025344	Credible Set	purple
chr2:156419006	2	156.4190	0.002137265	Credible Set	purple
chr2:156423785	2	156.4238	0.002215814	Credible Set	purple
chr2:156449123	2	156.4491	0.001800289	Credible Set	purple
chr2:156449144	2	156.4491	0.001797246	Credible Set	purple
chr2:156453473	2	156.4535	0.001713582	Credible Set	purple
chr2:156453552	2	156.4536	0.001209756	Credible Set	purple
chr2:156453983	2	156.4540	0.001328549	Credible Set	purple
chr2:156455282	2	156.4553	0.001244008	Credible Set	purple
chr2:156455298	2	156.4553	0.001261566	Credible Set	purple
chr2:156465034	2	156.4650	0.002499351	Credible Set	purple
chr2:156465975	2	156.4660	0.003496082	Credible Set	purple
chr2:156468230	2	156.4682	0.003540299	Credible Set	purple
chr2:156474927	2	156.4749	0.002799408	Credible Set	purple
chr2:156483143	2	156.4831	0.002239584	Credible Set	purple
chr2:156488289	2	156.4883	0.002898112	Credible Set	purple
chr2:156491541	2	156.4915	0.006458262	Credible Set	purple
chr2:156491557	2	156.4916	0.006490324	Credible Set	purple
chr2:156521595	2	156.5216	0.001949490	Credible Set	purple
chr2:156521639	2	156.5216	0.001933845	Credible Set	purple
chr2:156530706	2	156.5307	0.001957706	Credible Set	purple
chr2:156532009	2	156.5320	0.003290282	Credible Set	purple
chr2:156532011	2	156.5320	0.003227752	Credible Set	purple
chr2:156532178	2	156.5322	0.002214033	Credible Set	purple
chr2:156567043	2	156.5670	0.003454284	Credible Set	purple
chr2:156567147	2	156.5671	0.004270274	Credible Set	purple
chr2:156567188	2	156.5672	0.004255686	Credible Set	purple
chr2:156567685	2	156.5677	0.003374958	Credible Set	purple
chr2:156576405	2	156.5764	0.003697046	Credible Set	purple
chr2:156576851	2	156.5769	0.003641216	Credible Set	purple
chr2:156577083	2	156.5771	0.003499752	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156585381	2	156.5854	0.0031373417	Credible Set	purple
chr2:156587373	2	156.5874	0.0068286765	Credible Set	purple
chr2:156587398	2	156.5874	0.0066638586	Credible Set	purple
chr2:156592202	2	156.5922	0.0071619124	Credible Set	purple
chr2:156595258	2	156.5953	0.0050107373	Credible Set	purple
chr2:156632710	2	156.6327	0.0035710491	Credible Set	purple
chr2:156632738	2	156.6327	0.0035775720	Credible Set	purple
chr2:156632859	2	156.6329	0.0036849568	Credible Set	purple
chr2:156641079	2	156.6411	0.0037715582	Credible Set	purple
chr2:156641293	2	156.6413	0.0035848273	Credible Set	purple
chr2:156649922	2	156.6499	0.0025984413	Credible Set	purple
chr2:156649929	2	156.6499	0.0026030714	Credible Set	purple
chr2:156650908	2	156.6509	0.0026748524	Credible Set	purple
chr2:156668062	2	156.6681	0.0020853404	Credible Set	purple
chr2:156668618	2	156.6686	0.0022471289	Credible Set	purple
chr2:156704128	2	156.7041	0.0026491077	Credible Set	purple
chr2:156704178	2	156.7042	0.0026521994	Credible Set	purple
chr2:156711128	2	156.7111	0.0029699087	Credible Set	purple
chr2:156743106	2	156.7431	0.0010177636	Credible Set	purple
chr2:156743119	2	156.7431	0.0010261599	Credible Set	purple
chr2:156764741	2	156.7647	0.0015817923	Credible Set	purple
chr2:156764772	2	156.7648	0.0015282847	Credible Set	purple
chr2:156770397	2	156.7704	0.0022390633	Credible Set	purple
chr2:156795214	2	156.7952	0.0021430373	Credible Set	purple
chr2:156795236	2	156.7952	0.0022159256	Credible Set	purple
chr2:156803978	2	156.8040	0.0019834834	Credible Set	purple
chr2:156812752	2	156.8128	0.0032191553	Credible Set	purple
chr2:156825839	2	156.8258	0.0011432370	Credible Set	purple
chr2:156825844	2	156.8258	0.0011455427	Credible Set	purple
chr2:156825876	2	156.8259	0.0011455427	Credible Set	purple
chr2:156845905	2	156.8459	0.0013595092	Credible Set	purple
chr2:156861931	2	156.8619	0.0012955542	Credible Set	purple
chr2:156862185	2	156.8622	0.0007890450	Credible Set	purple
chr2:156862198	2	156.8622	0.0007672412	Credible Set	purple
chr2:156882805	2	156.8828	0.0011521620	Credible Set	purple
chr2:156882992	2	156.8830	0.0008577711	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156883081	2	156.8831	0.0012955563	Credible Set	purple
chr2:156883502	2	156.8835	0.0013118728	Credible Set	purple
chr2:156886515	2	156.8865	0.0012406945	Credible Set	purple
chr2:156886654	2	156.8867	0.0012963735	Credible Set	purple
chr2:156887147	2	156.8871	0.0015148143	Credible Set	purple
chr2:156887169	2	156.8872	0.0015205605	Credible Set	purple
chr2:156948001	2	156.9480	0.0021425069	Credible Set	purple
chr2:156959200	2	156.9592	0.0038667295	Credible Set	purple
chr2:156959224	2	156.9592	0.0039744275	Credible Set	purple
chr2:156959230	2	156.9592	0.0039548773	Credible Set	purple
chr2:156959240	2	156.9592	0.0037438688	Credible Set	purple
chr2:156973206	2	156.9732	0.0017415272	Credible Set	purple
chr2:156973473	2	156.9735	0.0015382514	Credible Set	purple
chr2:157010815	2	157.0108	0.0014694757	Credible Set	purple
chr2:157016739	2	157.0167	0.0014118117	Credible Set	purple
chr2:157017028	2	157.0170	0.0015052076	Credible Set	purple
chr2:157017101	2	157.0171	0.0014015806	Credible Set	purple
chr2:157017479	2	157.0175	0.0016460234	Credible Set	purple
chr2:157017498	2	157.0175	0.0017770082	Credible Set	purple
chr2:157027114	2	157.0271	0.0016627983	Credible Set	purple
chr2:157027115	2	157.0271	0.0016199752	Credible Set	purple
chr2:157027346	2	157.0273	0.0015629572	Credible Set	purple
chr2:157027552	2	157.0276	0.0024364362	Credible Set	purple
chr2:157027594	2	157.0276	0.0014353026	Credible Set	purple
chr2:157033406	2	157.0334	0.0009439426	Credible Set	purple
chr2:157033457	2	157.0335	0.0009444899	Credible Set	purple
chr2:157033569	2	157.0336	0.0010841445	Credible Set	purple
chr2:157033589	2	157.0336	0.0010835272	Credible Set	purple
chr2:157037970	2	157.0380	0.0014006832	Credible Set	purple
chr2:157040364	2	157.0404	0.0011133013	Credible Set	purple
chr2:157040379	2	157.0404	0.0008903294	Credible Set	purple
chr2:157040564	2	157.0406	0.0009705227	Credible Set	purple
chr2:157059250	2	157.0592	0.0010486637	Credible Set	purple
chr2:157059408	2	157.0594	0.0010589980	Credible Set	purple
chr2:157059810	2	157.0598	0.0010928199	Credible Set	purple
chr2:157059893	2	157.0599	0.0009972369	Credible Set	purple

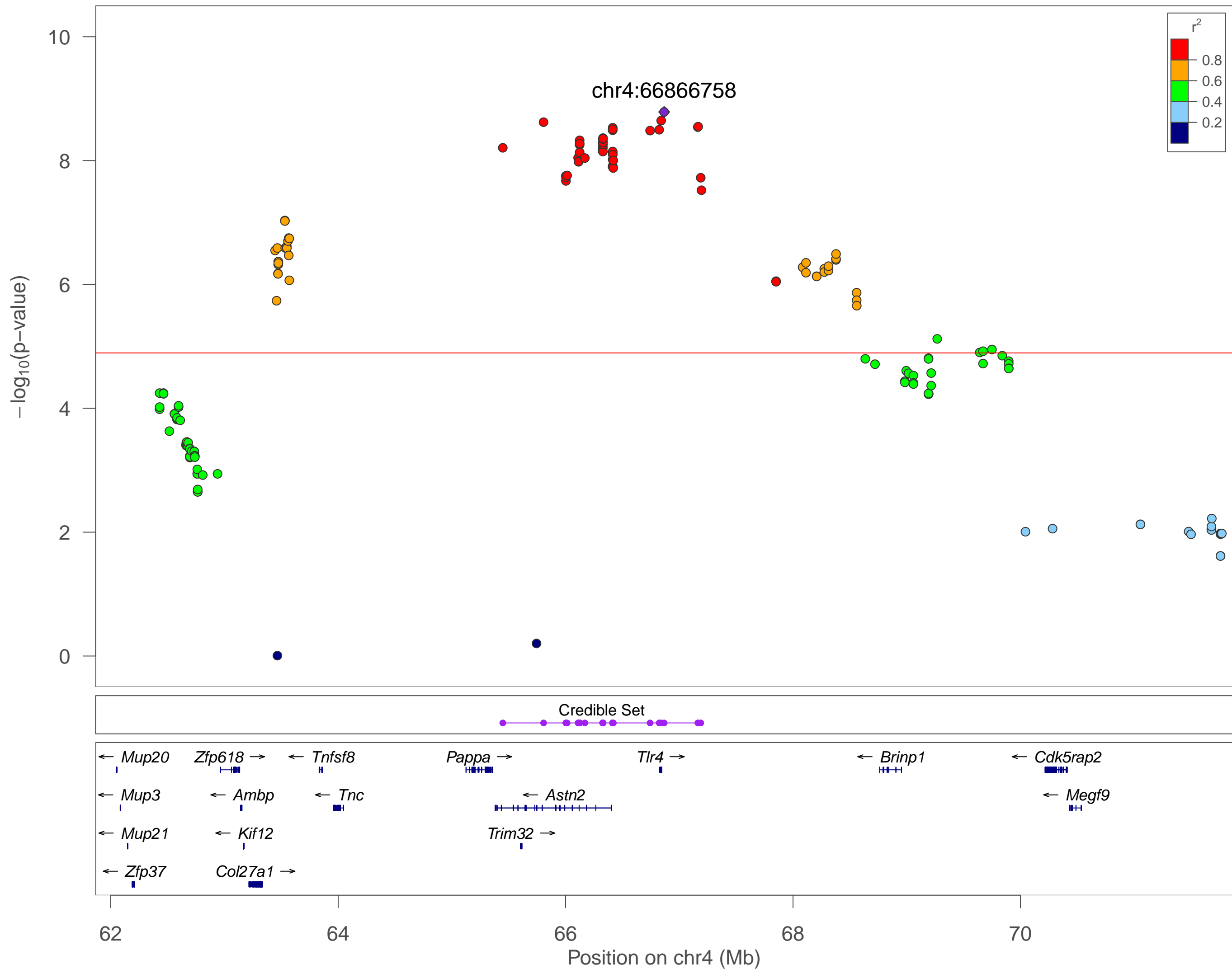
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:157063511	2	157.0635	0.0011838957	Credible Set	purple
chr2:157065641	2	157.0656	0.0010353076	Credible Set	purple
chr2:157075626	2	157.0756	0.0011330257	Credible Set	purple
chr2:157075934	2	157.0759	0.0010599377	Credible Set	purple
chr2:157138913	2	157.1389	0.0012723001	Credible Set	purple
chr2:157144291	2	157.1443	0.0013028317	Credible Set	purple
chr2:157145837	2	157.1458	0.0013032310	Credible Set	purple
chr2:157149696	2	157.1497	0.0012348486	Credible Set	purple
chr2:157170168	2	157.1702	0.0012208824	Credible Set	purple
chr2:157234145	2	157.2341	0.0012425076	Credible Set	purple
chr2:157234194	2	157.2342	0.0010569087	Credible Set	purple
chr2:157234584	2	157.2346	0.0011310373	Credible Set	purple
chr2:157234605	2	157.2346	0.0011091951	Credible Set	purple
chr2:157244801	2	157.2448	0.0010773172	Credible Set	purple
chr2:157245205	2	157.2452	0.0010994381	Credible Set	purple
chr2:157245270	2	157.2453	0.0010007732	Credible Set	purple
chr2:157271470	2	157.2715	0.0011382333	Credible Set	purple
chr2:157323455	2	157.3235	0.0007555954	Credible Set	purple
chr2:157323490	2	157.3235	0.0008157944	Credible Set	purple
chr2:157323542	2	157.3235	0.0007564508	Credible Set	purple
chr2:157350851	2	157.3509	0.0008974539	Credible Set	purple
chr2:157356604	2	157.3566	0.0014060960	Credible Set	purple
chr2:157383750	2	157.3837	0.0014465647	Credible Set	purple
chr2:157384030	2	157.3840	0.0023475423	Credible Set	purple
chr2:157384046	2	157.3840	0.0023756954	Credible Set	purple
chr2:157393248	2	157.3932	0.0009728794	Credible Set	purple
chr2:157393326	2	157.3933	0.0008826988	Credible Set	purple
chr2:157393328	2	157.3933	0.0008958535	Credible Set	purple
chr2:157396118	2	157.3961	0.0018808429	Credible Set	purple
chr2:157396325	2	157.3963	0.0011545388	Credible Set	purple
chr2:157396340	2	157.3963	0.0011711049	Credible Set	purple
chr2:157396357	2	157.3964	0.0011652736	Credible Set	purple
chr2:157396513	2	157.3965	0.0020350770	Credible Set	purple
chr2:157401494	2	157.4015	0.0022594395	Credible Set	purple
chr2:157425583	2	157.4256	0.0020445300	Credible Set	purple
chr2:157434588	2	157.4346	0.0018976095	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:157439371	2	157.4394	0.001868134	Credible Set	purple
chr2:157455578	2	157.4556	0.001567994	Credible Set	purple
chr2:157458440	2	157.4584	0.001857250	Credible Set	purple
chr2:157464790	2	157.4648	0.002049487	Credible Set	purple
chr2:157464811	2	157.4648	0.002055422	Credible Set	purple
chr2:157464835	2	157.4648	0.002054751	Credible Set	purple
chr2:157464946	2	157.4649	0.002013449	Credible Set	purple
chr2:157465338	2	157.4653	0.002013553	Credible Set	purple
chr2:157502041	2	157.5020	0.001182759	Credible Set	purple
chr2:157502044	2	157.5020	0.017255691	Credible Set	purple
chr2:157549374	2	157.5494	0.001368992	Credible Set	purple
chr2:157630394	2	157.6304	0.001296992	Credible Set	purple
chr2:157630611	2	157.6306	0.001358558	Credible Set	purple
chr2:157635749	2	157.6357	0.001266836	Credible Set	purple

F34, F39–43 GBS, body weight



date: Thu Oct 25 16:57:41 2018

build: F34F3943GBS

display range: chr4:61866758–71866758 [61866758–71866758]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:66866758

number of SNPs plotted: 176

min P-value: 1.64E–9 [chr4:66866758]

max P-value: 9.86E–1 [chr4:63465549]

omitted Genes: Slc31a2, Fkbp15, Slc31a1

omitted Genes: Cdc26, Prpf4, Rnf183

omitted Genes: Wdr31, Bspry, Hdhd3

omitted Genes: Alad, Pole3, 4933430I17Rik

omitted Genes: Rgs3, Mir455, Orm1

omitted Genes: Orm3, Orm2, Akna

omitted Genes: Whrn, Atp6v1g1, 6330416G13Rik

omitted Genes: Gm11213, 1700018C11Rik, Tnfsf15

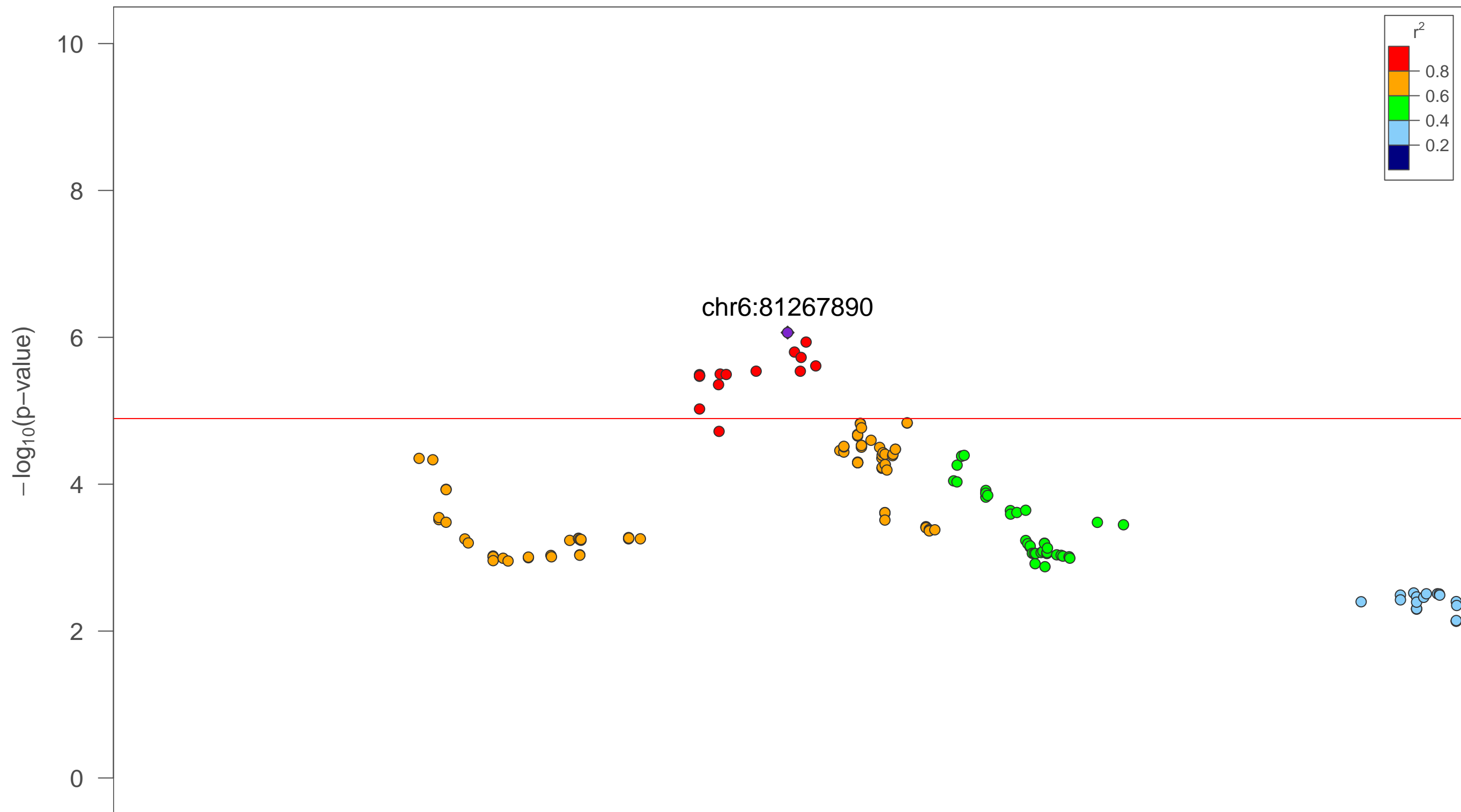
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:65447841	4	65.44784	0.019506224	Credible Set	purple
chr4:65806420	4	65.80642	0.049316694	Credible Set	purple
chr4:66002530	4	66.00253	0.007070884	Credible Set	purple
chr4:66003029	4	66.00303	0.005898172	Credible Set	purple
chr4:66003164	4	66.00316	0.006730268	Credible Set	purple
chr4:66013512	4	66.01351	0.007172830	Credible Set	purple
chr4:66110072	4	66.11007	0.013600870	Credible Set	purple
chr4:66114163	4	66.11416	0.012017017	Credible Set	purple
chr4:66114164	4	66.11416	0.011762290	Credible Set	purple
chr4:66114176	4	66.11418	0.011842761	Credible Set	purple
chr4:66123765	4	66.12377	0.021752254	Credible Set	purple
chr4:66123768	4	66.12377	0.016580614	Credible Set	purple
chr4:66123832	4	66.12383	0.025581610	Credible Set	purple
chr4:66124242	4	66.12424	0.022728535	Credible Set	purple
chr4:66169378	4	66.16938	0.013474615	Credible Set	purple
chr4:66325857	4	66.32586	0.019241218	Credible Set	purple
chr4:66325987	4	66.32599	0.017557542	Credible Set	purple
chr4:66328189	4	66.32819	0.019746700	Credible Set	purple
chr4:66328195	4	66.32819	0.017021073	Credible Set	purple
chr4:66328436	4	66.32844	0.022182463	Credible Set	purple
chr4:66328528	4	66.32853	0.024302960	Credible Set	purple
chr4:66328560	4	66.32856	0.023547948	Credible Set	purple
chr4:66329044	4	66.32904	0.027714988	Credible Set	purple
chr4:66329065	4	66.32906	0.026859513	Credible Set	purple
chr4:66329095	4	66.32909	0.027130315	Credible Set	purple
chr4:66414332	4	66.41433	0.009959476	Credible Set	purple
chr4:66414345	4	66.41434	0.010084430	Credible Set	purple
chr4:66414373	4	66.41437	0.009806950	Credible Set	purple
chr4:66414374	4	66.41437	0.009901791	Credible Set	purple
chr4:66414384	4	66.41438	0.012715423	Credible Set	purple
chr4:66414387	4	66.41439	0.016308798	Credible Set	purple
chr4:66414451	4	66.41445	0.017072865	Credible Set	purple
chr4:66414476	4	66.41448	0.036777925	Credible Set	purple
chr4:66414508	4	66.41451	0.040273642	Credible Set	purple
chr4:66414513	4	66.41451	0.038034578	Credible Set	purple
chr4:66414963	4	66.41496	0.015171452	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:66419064	4	66.41906	0.009391583	Credible Set	purple
chr4:66419126	4	66.41913	0.012358438	Credible Set	purple
chr4:66743103	4	66.74310	0.036342646	Credible Set	purple
chr4:66823255	4	66.82326	0.037502254	Credible Set	purple
chr4:66840696	4	66.84070	0.052214273	Credible Set	purple
chr4:66866758	4	66.86676	0.071397622	Credible Set	purple
chr4:67163007	4	67.16301	0.041268735	Credible Set	purple
chr4:67165680	4	67.16568	0.041934791	Credible Set	purple
chr4:67188375	4	67.18837	0.006611697	Credible Set	purple

F34, F39–43 GBS, body weight



Credible Set



67 genes
omitted

78

80

82

84

86

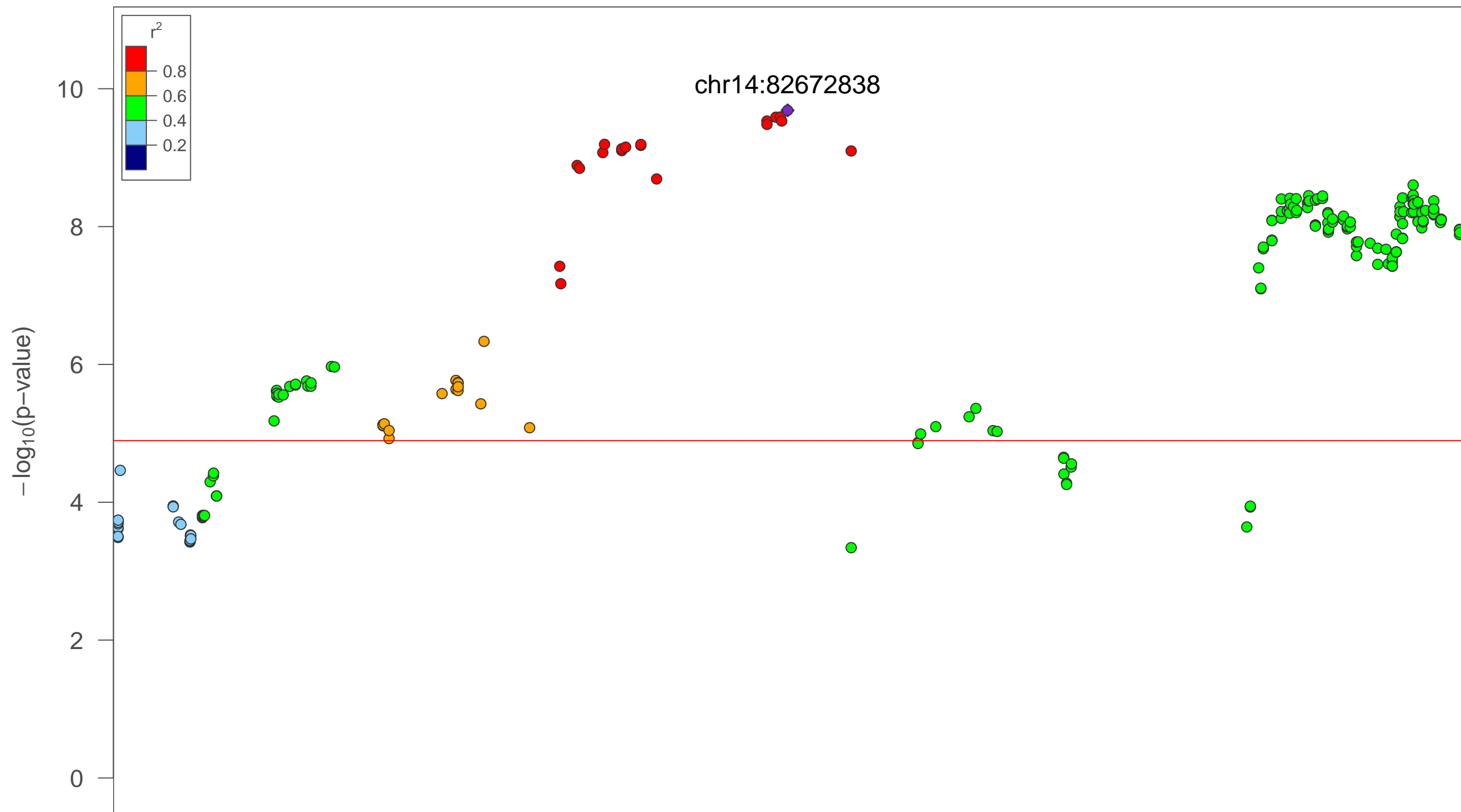
Position on chr6 (Mb)

date: Thu Oct 25 16:57:51 2018
build: F34F3943GBS
display range: chr6:76267890–86267890 [76267890–86267890]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:81267890
number of SNPs plotted: 154
min P-value: 8.61E–7 [chr6:81267890]
max P-value: 7.33E–3 [chr6:86226371]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Alms1, Nat8f7, Mir6375
omitted Genes: Alms1-ps2, Nat8f6, Nat8f5
omitted Genes: Nat8, Nat8f2, Nat8f4
omitted Genes: Nat8f1, Dusp11, Add2
omitted Genes: Tgfa

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80614710	6	80.61471	0.04857390	Credible Set	purple
chr6:80614725	6	80.61473	0.04623828	Credible Set	purple
chr6:80614740	6	80.61474	0.04722318	Credible Set	purple
chr6:80614750	6	80.61475	0.04694999	Credible Set	purple
chr6:80614907	6	80.61491	0.01733174	Credible Set	purple
chr6:80755939	6	80.75594	0.03596034	Credible Set	purple
chr6:80767933	6	80.76793	0.04944593	Credible Set	purple
chr6:80812582	6	80.81258	0.04883514	Credible Set	purple
chr6:81034488	6	81.03449	0.05391742	Credible Set	purple
chr6:81267890	6	81.26789	0.17255878	Credible Set	purple
chr6:81318989	6	81.31899	0.09591536	Credible Set	purple
chr6:81362217	6	81.36222	0.05384616	Credible Set	purple
chr6:81368112	6	81.36811	0.08156347	Credible Set	purple
chr6:81405109	6	81.40511	0.12958790	Credible Set	purple
chr6:81476902	6	81.47690	0.06318092	Credible Set	purple

F34, F39–43 GBS, body weight



Credible Set



14 genes
omitted

date: Thu Oct 25 16:57:18 2018

build: F34F3943GBS

display range: chr14:77672838–87672838 [77672838–87672838]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:82672838

number of SNPs plotted: 233

min P-value: 2.06E–10 [chr14:82672838]

max P-value: 4.55E–4 [chr14:83144370]

omitted Genes: Fam216b, Mir1971, Tnfsf11

omitted Genes: Akap11, Mtrf1, Kbtbd7

omitted Genes: Kbtbd6, Wbp4, Elf1

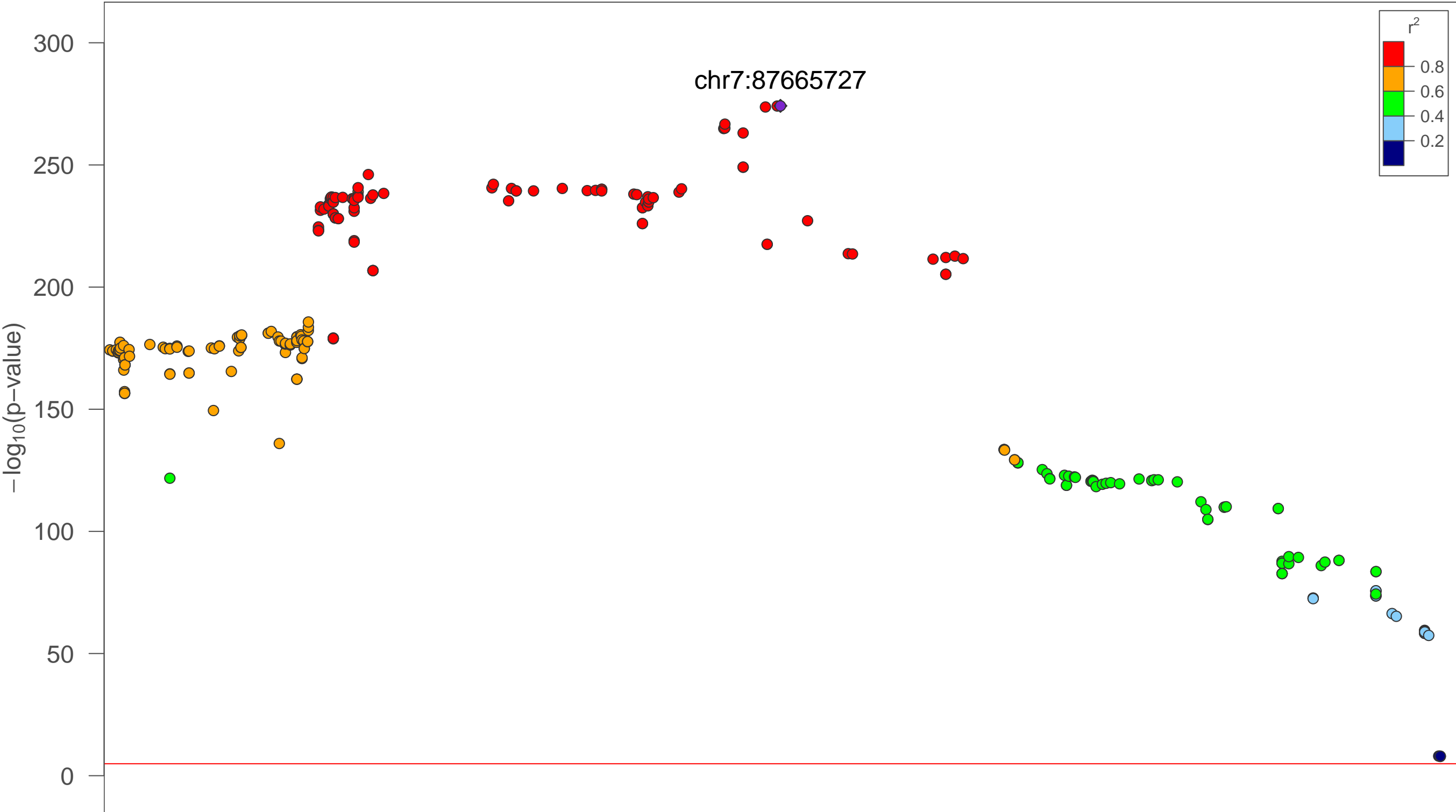
omitted Genes: Sugt1, Lect1, 4930452G13Rik

omitted Genes: Pcdh8, Gm10845

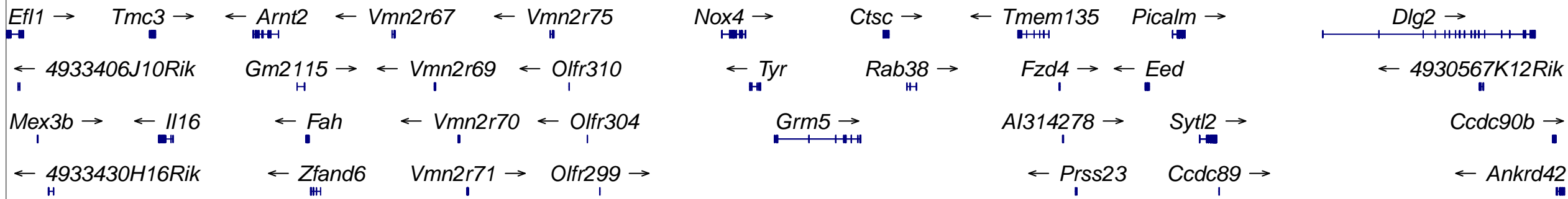
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:81112053	14	81.11205	0.02153824	Credible Set	purple
chr14:81129931	14	81.12993	0.01961019	Credible Set	purple
chr14:81302522	14	81.30252	0.03271591	Credible Set	purple
chr14:81315250	14	81.31525	0.04283704	Credible Set	purple
chr14:81443053	14	81.44305	0.03518459	Credible Set	purple
chr14:81443088	14	81.44309	0.03495130	Credible Set	purple
chr14:81443103	14	81.44310	0.03705697	Credible Set	purple
chr14:81471656	14	81.47166	0.03910768	Credible Set	purple
chr14:81584557	14	81.58456	0.04138683	Credible Set	purple
chr14:81584584	14	81.58458	0.04266022	Credible Set	purple
chr14:81701500	14	81.70150	0.01386607	Credible Set	purple
chr14:82519671	14	82.51967	0.09157956	Credible Set	purple
chr14:82519834	14	82.51983	0.08209422	Credible Set	purple
chr14:82586326	14	82.58633	0.10379728	Credible Set	purple
chr14:82618916	14	82.61892	0.10439366	Credible Set	purple
chr14:82629334	14	82.62933	0.09166977	Credible Set	purple
chr14:82672838	14	82.67284	0.12975387	Credible Set	purple
chr14:83144282	14	83.14428	0.03452068	Credible Set	purple

F34, F39–43 GBS, coat color, albino



Credible Set



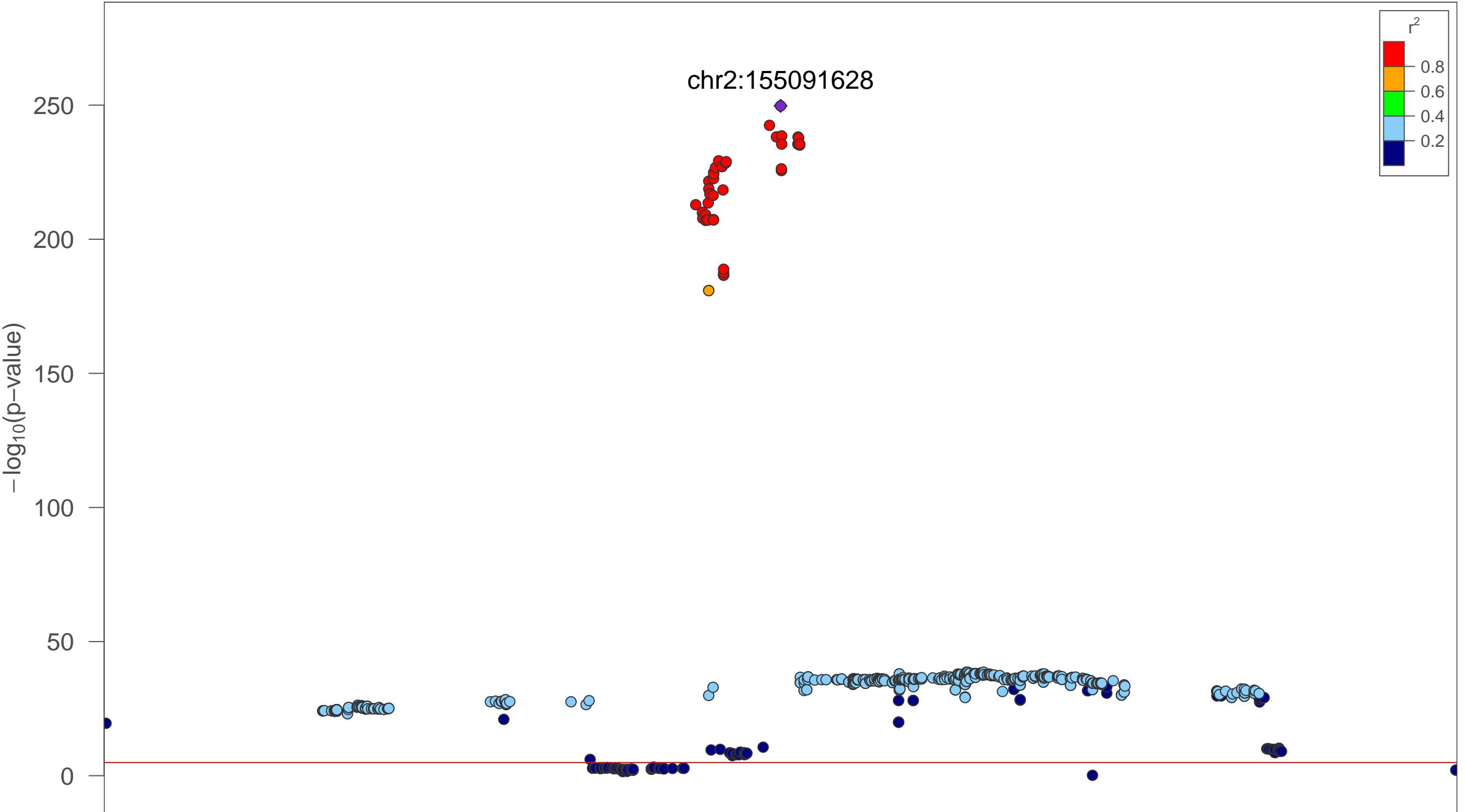
42 genes
omitted

date: Thu Oct 25 16:58:20 2018
build: F34F3943GBS
display range: chr7:82665727–92665727 [82665727–92665727]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87665727
number of SNPs plotted: 274
min P-value: 6.71E–275 [chr7:87665727]
max P-value: 1.33E–8 [chr7:92543164]
omitted Genes: Stard5, Cfap161, Mesdc1
omitted Genes: Mesdc2, Cemip, Abhd17c
omitted Genes: 2610206C17Rik, Olfr291, Olfr290
omitted Genes: Vmn2r65, Vmn2r66, Vmn2r68
omitted Genes: Vmn2r72, Vmn2r73, Vmn2r74
omitted Genes: Vmn2r76, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr303
omitted Genes: Olfr301, Olfr298, Olfr297
omitted Genes: Olfr295, Olfr294, Olfr293
omitted Genes: Olfr292, Folh1, Vmn2r77
omitted Genes: Vmn2r78, Vmn2r79, Me3
omitted Genes: Ccdc81, l7Rn6, E230029C05Rik
omitted Genes: 2310010J17Rik, Ccdc83, Crebzf
omitted Genes: Tmem126a, Tmem126b, Pcf11

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87554961	7	87.55496	0.1583967	Credible Set	purple
chr7:87642045	7	87.64204	0.3914069	Credible Set	purple
chr7:87665727	7	87.66573	0.4501964	Credible Set	purple

F34, F39–43 GBS, coat color, agouti



Credible Set

← *Zfp120* ← *4921509C19Rik* *Defb28* → ← *Plagl2* *Bpifb3* → ← *E2f1* *a* → ← *Ggt7* ← *Nfs1* *Myl9* → *Src* → ← *Tti1* *Actr5* →
Gm14139 → *Nsfl1c* → *Tbc1d20* → *Xkr7* → *Mapre1* → ← *Necab3* ← *Pigu* ← *Gdf5* *Aar2* → ← *Rbl1* *Vstm2l* → *Fam83d* →
Zfp937 → *Fkbp1a* → ← *Rbck1* *Ttll9* → *Dnmt3b* → ← *Snta1* ← *Ahcy* *Procr* → *Epb41l1* → ← *Mroh8* *Rprd1b* → *Dhx35* →
Gm14124 → *Sdcbp2* → ← *Trib3* ← *Pdrg1* *Efcab8* → *Actl10* → *Itch* → ← *Elf6* ← *Gm14169* ← *Blcap* *Bpi* → *4933416E03Rik* →

149 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 16:59:07 2018

build: F34F3943GBS

display range: chr2:150091628–160091628 [150091628–160091628]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:155091628

number of SNPs plotted: 747

min P-value: 1.88E–250 [chr2:155091628]

max P-value: 6.98E–1 [chr2:157396490]

omitted Genes: 3300002I08Rik, Zfp442, Zfp345

omitted Genes: Cst7, Apmmap, Acss1

omitted Genes: E130215H24Rik, Vsx1, Entpd6

omitted Genes: Pygb, Abhd12, Gins1

omitted Genes: Ninl, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, Snph

omitted Genes: Rad21l, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Nrsn2, Sox12

omitted Genes: Zcchc3, 6820408C15Rik, Defb23

omitted Genes: Defb20, Defb22, Defb26

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Ccm2l

omitted Genes: Hck, Tm9sf4, Tspyl3

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Sun5, Bpifb2, Bpifb6

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: 2310005A03Rik, Dynlrb1, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncapg

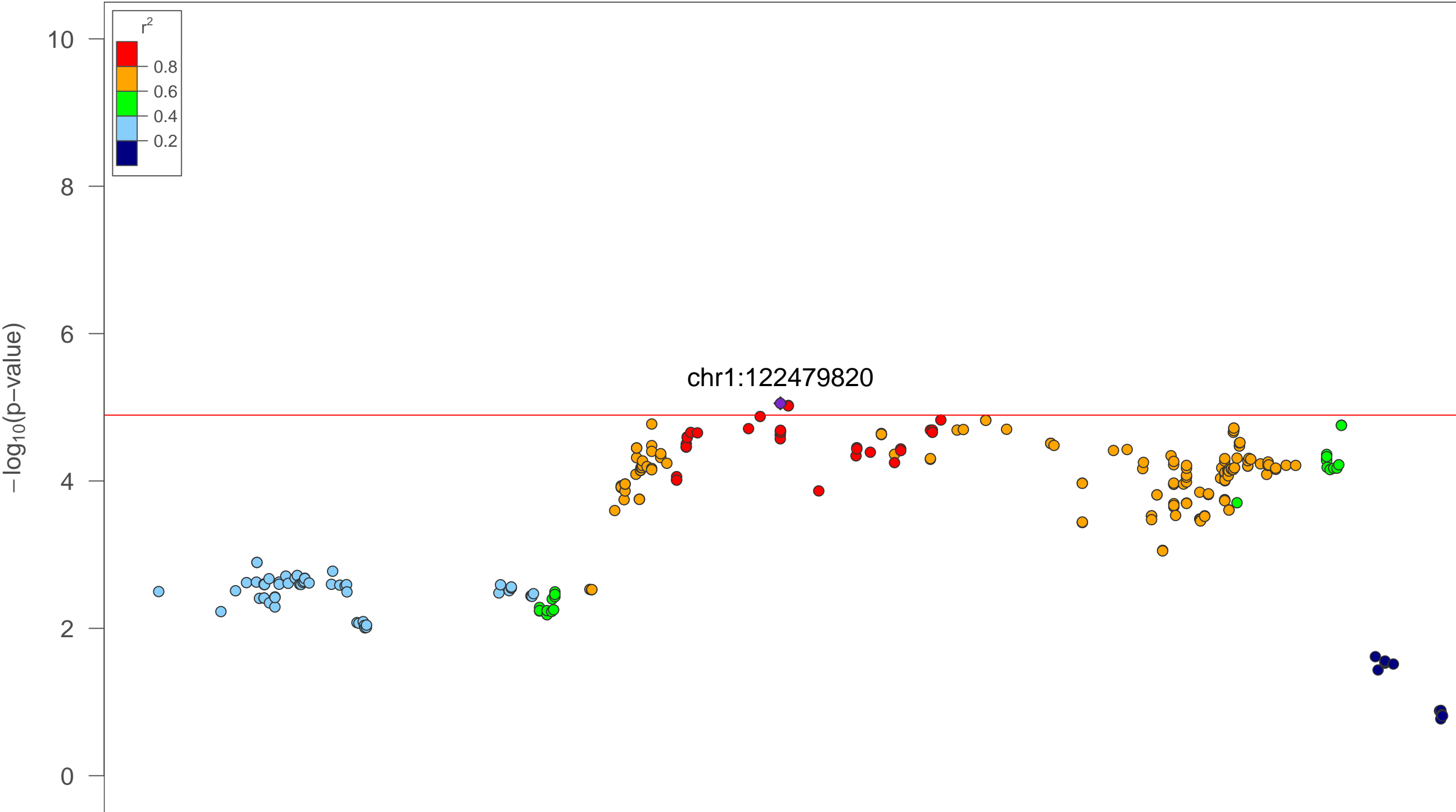
omitted Genes: Acss2, Acss2as, Gcs

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155091628	2	155.0916	0.9999999	Credible Set	purple

F34, F39–43 GBS, locomotor test day 1, total distance travelled in 30min (cm)



10 genes
omitted

date: Thu Oct 25 16:59:22 2018

build: F34F3943GBS

display range: chr1:117479820–127479820 [117479820–127479820]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:122479820

number of SNPs plotted: 268

min P-value: 8.84E–6 [chr1:122479820]

max P-value: 1.69E–1 [chr1:127361132]

omitted Genes: Tfcp2l1, Mir6346, Tmem185b

omitted Genes: 3830432H09Rik, Tmem177, Cfap221

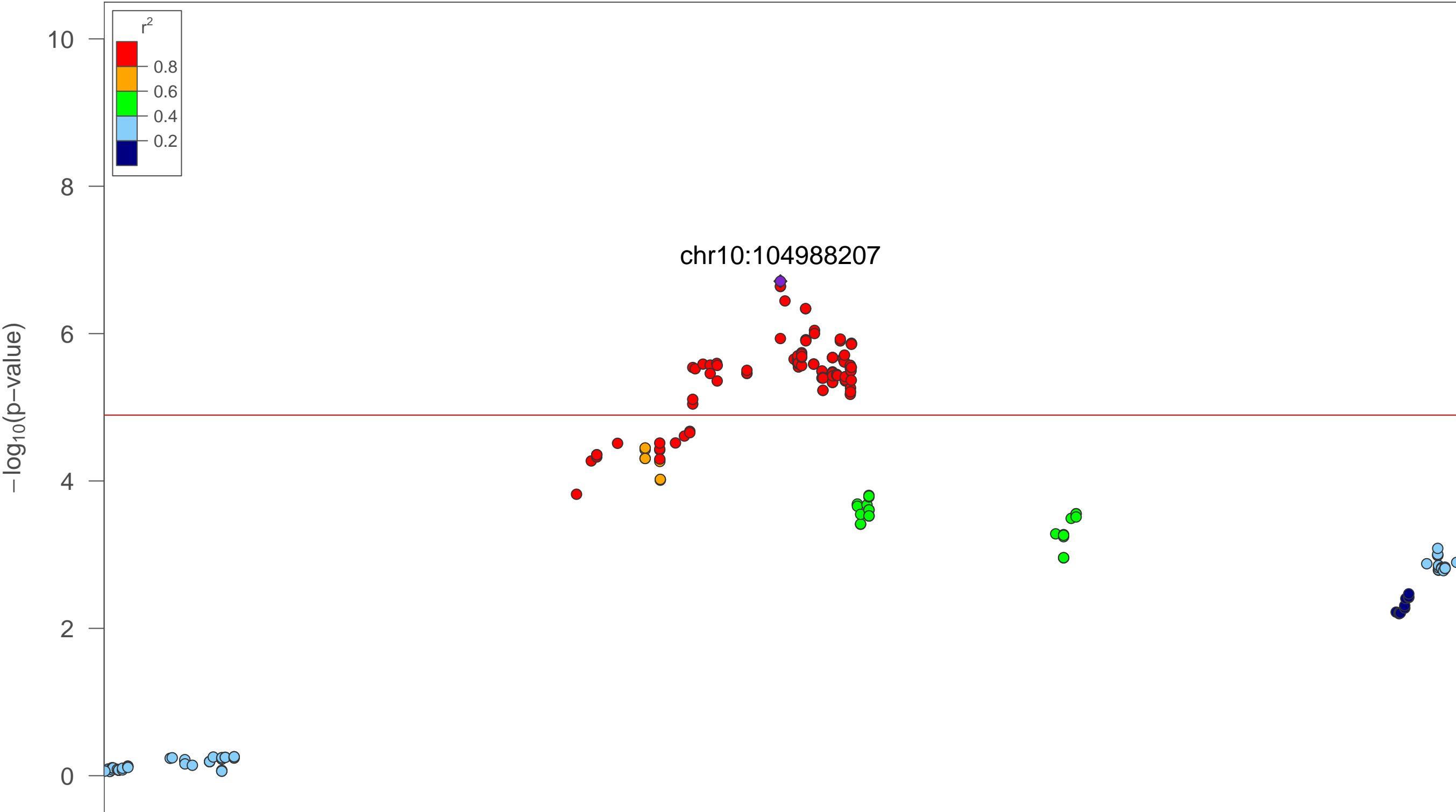
omitted Genes: Tmem37, 3110009E18Rik, Steap3

omitted Genes: Ddx18

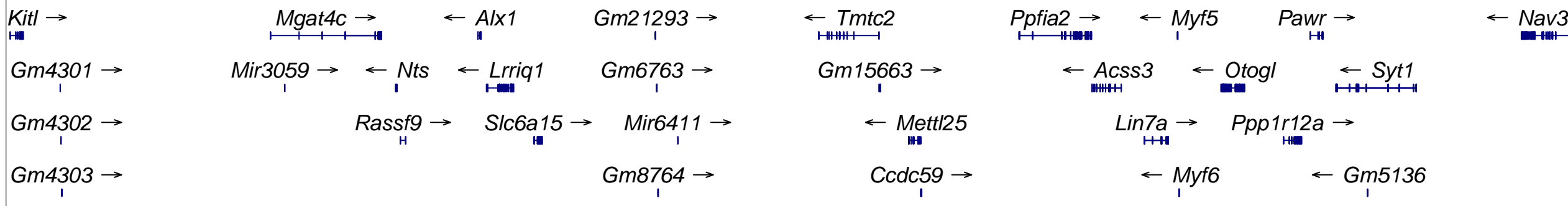
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:121712291	1	121.7123	0.008285125	Credible Set	purple
chr1:121712326	1	121.7123	0.009119169	Credible Set	purple
chr1:121712327	1	121.7123	0.008217150	Credible Set	purple
chr1:121783108	1	121.7831	0.021818801	Credible Set	purple
chr1:121783777	1	121.7838	0.023997232	Credible Set	purple
chr1:121783797	1	121.7838	0.022021202	Credible Set	purple
chr1:121790517	1	121.7905	0.029622818	Credible Set	purple
chr1:121790555	1	121.7906	0.028975381	Credible Set	purple
chr1:121817004	1	121.8170	0.033807004	Credible Set	purple
chr1:121866576	1	121.8666	0.033392468	Credible Set	purple
chr1:122244126	1	122.2441	0.037839710	Credible Set	purple
chr1:122329939	1	122.3299	0.054349426	Credible Set	purple
chr1:122478661	1	122.4787	0.031348898	Credible Set	purple
chr1:122478665	1	122.4787	0.027951382	Credible Set	purple
chr1:122479820	1	122.4798	0.080446064	Credible Set	purple
chr1:122480027	1	122.4800	0.035461975	Credible Set	purple
chr1:122480078	1	122.4801	0.034018495	Credible Set	purple
chr1:122480093	1	122.4801	0.036042672	Credible Set	purple
chr1:122537959	1	122.5380	0.075581861	Credible Set	purple
chr1:122537965	1	122.5380	0.074489582	Credible Set	purple
chr1:123038644	1	123.0386	0.016858419	Credible Set	purple
chr1:123044323	1	123.0443	0.021494377	Credible Set	purple
chr1:123044326	1	123.0443	0.020646374	Credible Set	purple
chr1:123144261	1	123.1443	0.018770743	Credible Set	purple
chr1:123322958	1	123.3230	0.013793158	Credible Set	purple
chr1:123368825	1	123.3688	0.020709950	Credible Set	purple
chr1:123369170	1	123.3692	0.019699584	Credible Set	purple
chr1:123588436	1	123.5884	0.036196853	Credible Set	purple
chr1:123602768	1	123.6028	0.036249469	Credible Set	purple
chr1:123603027	1	123.6030	0.033855107	Credible Set	purple
chr1:123665450	1	123.6655	0.048953134	Credible Set	purple

F34, F39–43 GBS, locomotor test day 1, total distance travelled in 30min (cm)



Credible Set



14 genes
omitted

date: Thu Oct 25 16:59:15 2018

build: F34F3943GBS

display range: chr10:99988207–109988207 [99988207–109988207]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:104988207

number of SNPs plotted: 216

min P-value: 1.94E–7 [chr10:104988207]

max P-value: 8.78E–1 [chr10:100031691]

omitted Genes: Gm4305, Gm4307, Gm4312

omitted Genes: Tmtc3, Cep290, 4930430F08Rik

omitted Genes: 1700017N19Rik, Gm21304, Gm21312

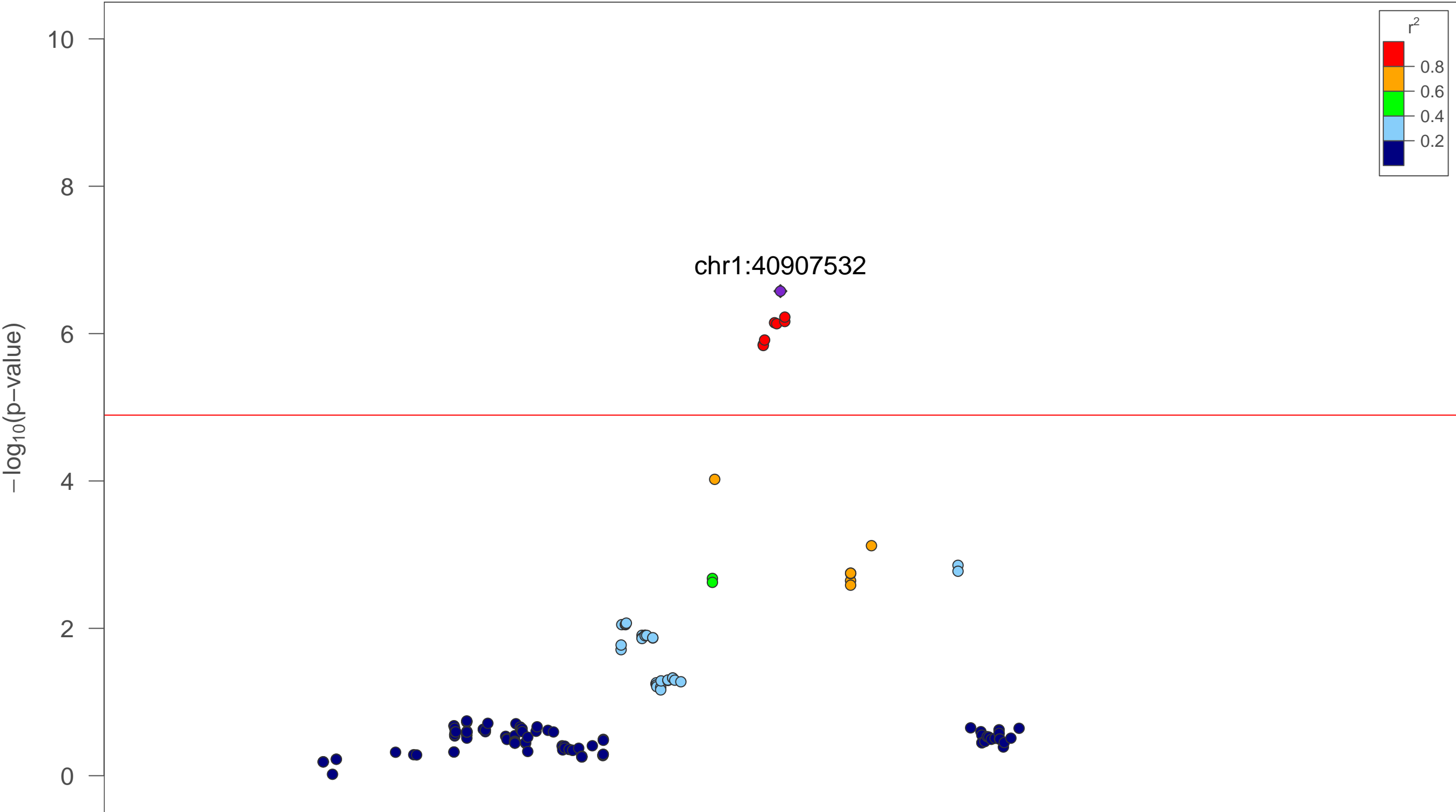
omitted Genes: Gm20765, Gm4340, 4930532I03Rik

omitted Genes: Ptprq, Gm29685

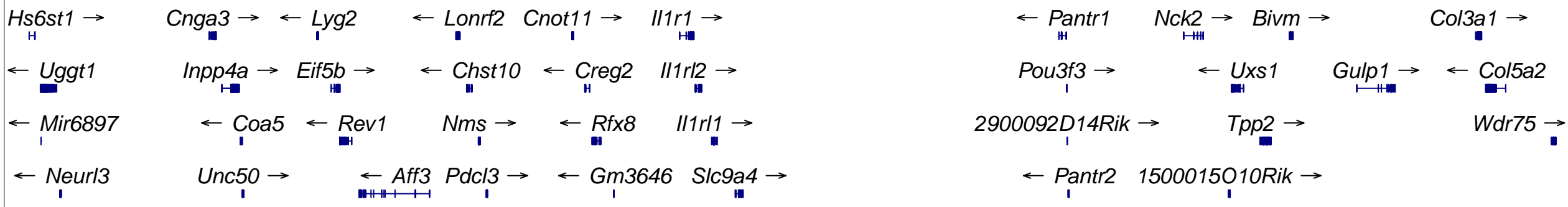
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:103480830	10	103.4808	0	Credible Set	purple

F34, F39–43 GBS, locomotor test day 2, total distance travelled in 30min (cm)



Credible Set



53 genes
omitted

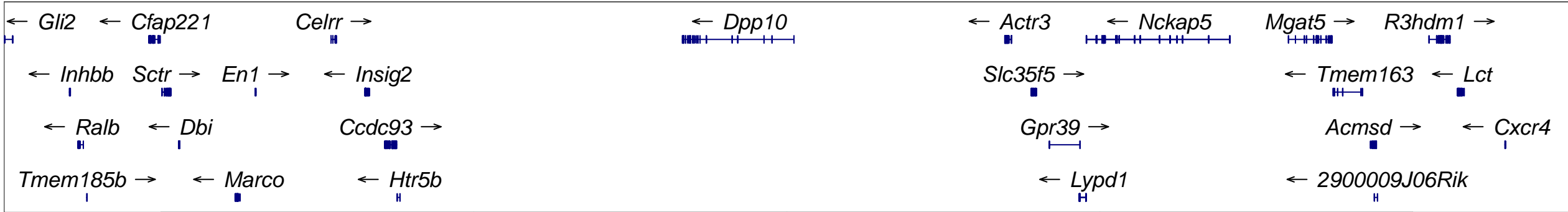
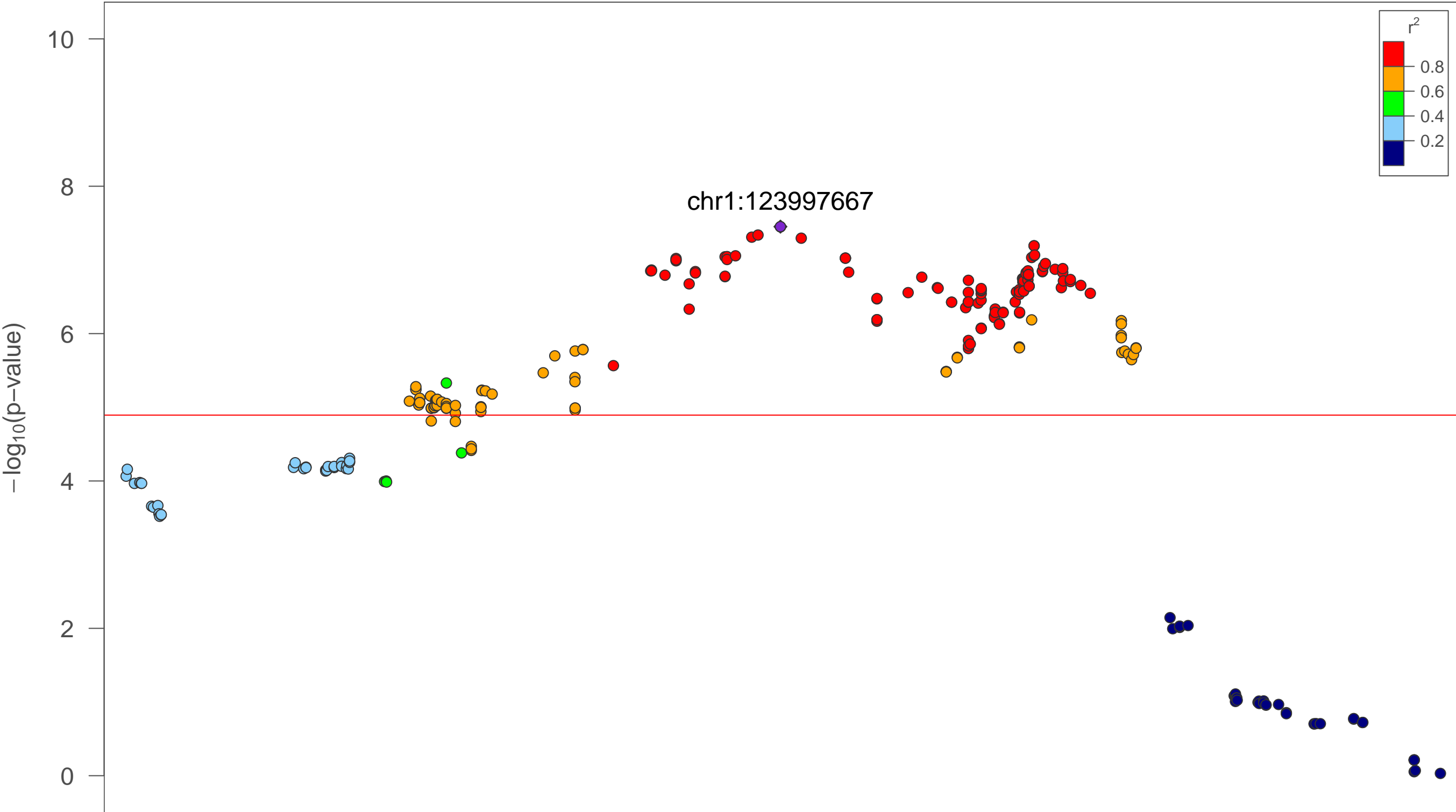
Position on chr1 (Mb)

date: Thu Oct 25 16:59:39 2018
build: F34F3943GBS
display range: chr1:35907532–45907532 [35907532–45907532]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:40907532
number of SNPs plotted: 157
min P-value: 2.65E–7 [chr1:40907532]
max P-value: 9.56E–1 [chr1:37596381]
omitted Genes: Arid5a, Kansl3, Mir6898
omitted Genes: Fer1l5, Lman2l, Cnnm4
omitted Genes: Cnnm3, Ankrd23, Ankrd39
omitted Genes: Sema4c, Fam178b, Cox5b
omitted Genes: Actr1b, 4933424G06Rik, Zap70
omitted Genes: Tmem131, Mgat4a, 4930594C11Rik
omitted Genes: 2010300C02Rik, Tsga10, Lipt1
omitted Genes: Mitd1, Mrpl30, Lyg1
omitted Genes: Txndc9, Mir6349, Npas2
omitted Genes: Rpl31, Tbc1d8, Snord89
omitted Genes: Rnf149, 1700066B17Rik, Map4k4
omitted Genes: Gm16894, Il1r2, Il18r1
omitted Genes: Il18rap, Slc9a2, Mfsd9
omitted Genes: Tmem182, 4930448I06Rik, Dalir
omitted Genes: Mrps9, Gpr45, Tgfbrap1
omitted Genes: AI597479, Fhl2, Mettl21c
omitted Genes: Tex30, Kdelc1, Ercc5
omitted Genes: Mettl21e, 4930521E06Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:40780351	1	40.78035	0.06182924	Credible Set	purple
chr1:40780677	1	40.78068	0.05996952	Credible Set	purple
chr1:40790450	1	40.79045	0.07076768	Credible Set	purple
chr1:40863930	1	40.86393	0.11903013	Credible Set	purple
chr1:40880208	1	40.88021	0.11549377	Credible Set	purple
chr1:40907532	1	40.90753	0.30844609	Credible Set	purple
chr1:40939551	1	40.93955	0.12347079	Credible Set	purple
chr1:40939963	1	40.93996	0.14099278	Credible Set	purple

F34, F39–43 GBS, locomotor test day 2, total distance travelled in 30min (cm)



17 genes
omitted

date: Thu Oct 25 16:59:30 2018

build: F34F3943GBS

display range: chr1:118997667–128997667 [118997667–128997667]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:123997667

number of SNPs plotted: 260

min P-value: 3.53E–8 [chr1:123997667]

max P-value: 9.31E–1 [chr1:128876034]

omitted Genes: 3830432H09Rik, Epb41l5, Ptpn4

omitted Genes: Tmem177, Tmem37, 3110009E18Rik

omitted Genes: Steap3, C1ql2, Ddx18

omitted Genes: Ccnt2, Map3k19, Rab3gap1

omitted Genes: Zranb3, Mir128–1, Ubxn4

omitted Genes: Mcm6, Dars

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:123038644	1	123.0386	0.010936661	Credible Set	purple
chr1:123044323	1	123.0443	0.011241536	Credible Set	purple
chr1:123044326	1	123.0443	0.010972144	Credible Set	purple
chr1:123144261	1	123.1443	0.009603843	Credible Set	purple
chr1:123225956	1	123.2260	0.014851880	Credible Set	purple
chr1:123225957	1	123.2260	0.015925704	Credible Set	purple
chr1:123225968	1	123.2260	0.015321794	Credible Set	purple
chr1:123322958	1	123.3230	0.007392939	Credible Set	purple
chr1:123323170	1	123.3232	0.003447493	Credible Set	purple
chr1:123368825	1	123.3688	0.010719158	Credible Set	purple
chr1:123369170	1	123.3692	0.010277294	Credible Set	purple
chr1:123588206	1	123.5882	0.009191190	Credible Set	purple
chr1:123588207	1	123.5882	0.009310789	Credible Set	purple
chr1:123588436	1	123.5884	0.016769146	Credible Set	purple
chr1:123602768	1	123.6028	0.016865161	Credible Set	purple
chr1:123603027	1	123.6030	0.015435306	Credible Set	purple
chr1:123665450	1	123.6655	0.017260549	Credible Set	purple
chr1:123785564	1	123.7856	0.030369351	Credible Set	purple
chr1:123831927	1	123.8319	0.032395972	Credible Set	purple
chr1:123997640	1	123.9976	0.041511594	Credible Set	purple
chr1:123997667	1	123.9977	0.041745092	Credible Set	purple
chr1:124151549	1	124.1515	0.029431303	Credible Set	purple
chr1:124477860	1	124.4779	0.016102671	Credible Set	purple
chr1:124477885	1	124.4779	0.016101238	Credible Set	purple
chr1:124477894	1	124.4779	0.016092643	Credible Set	purple
chr1:124501960	1	124.5020	0.010520156	Credible Set	purple
chr1:124711052	1	124.7111	0.004700363	Credible Set	purple
chr1:124711083	1	124.7111	0.004756787	Credible Set	purple
chr1:124711275	1	124.7113	0.002509492	Credible Set	purple
chr1:124711325	1	124.7113	0.002396614	Credible Set	purple
chr1:124711335	1	124.7113	0.002511671	Credible Set	purple
chr1:124941492	1	124.9415	0.005673875	Credible Set	purple
chr1:125042386	1	125.0424	0.009054356	Credible Set	purple
chr1:125157478	1	125.1575	0.006602808	Credible Set	purple
chr1:125163273	1	125.1633	0.006464504	Credible Set	purple
chr1:125263025	1	125.2630	0.004254125	Credible Set	purple

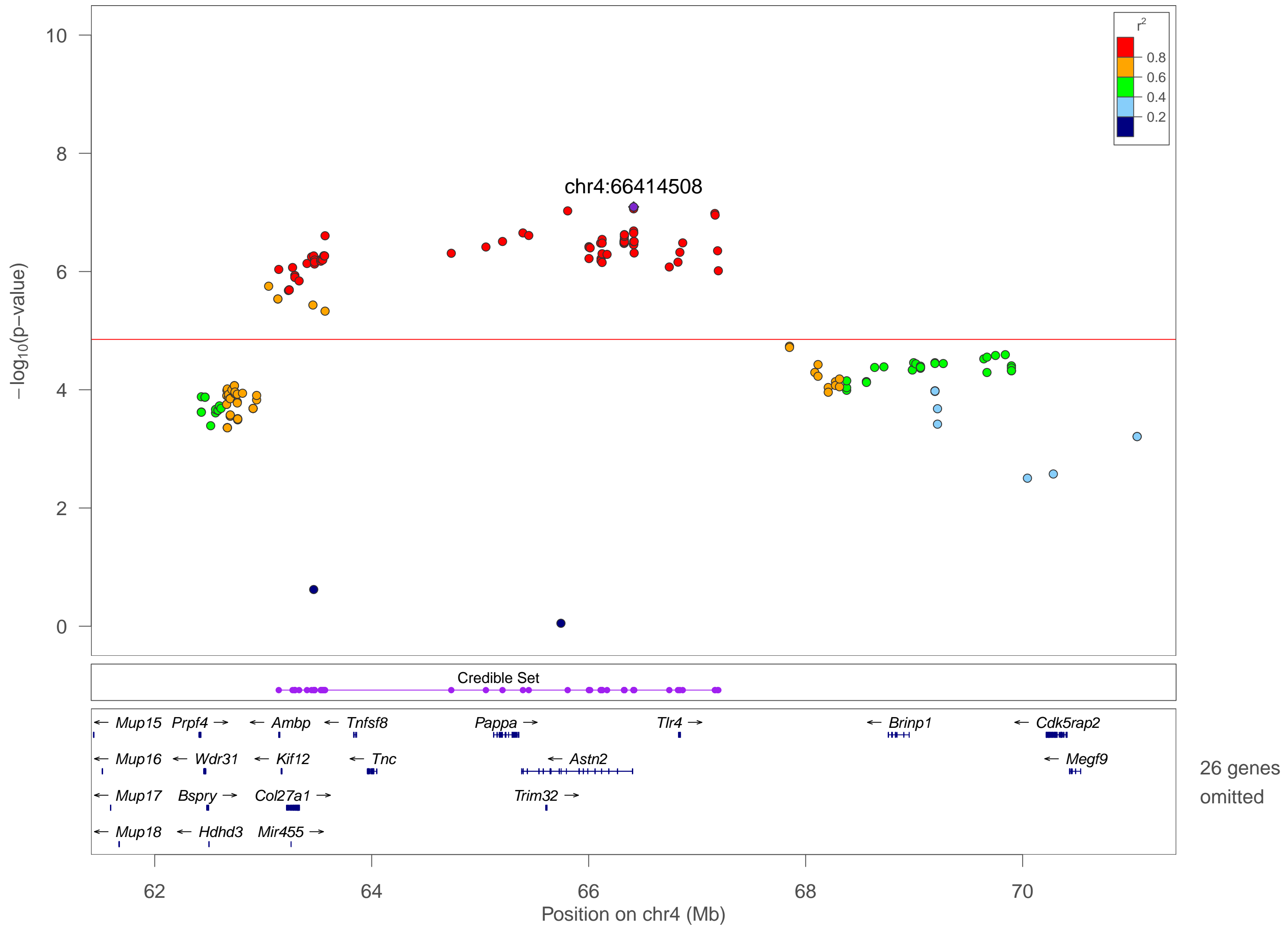
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:125263026	1	125.2630	0.004256381	Credible Set	purple
chr1:125367002	1	125.3670	0.003601180	Credible Set	purple
chr1:125386497	1	125.3865	0.005715202	Credible Set	purple
chr1:125387017	1	125.3870	0.004243755	Credible Set	purple
chr1:125387048	1	125.3870	0.004306048	Credible Set	purple
chr1:125387071	1	125.3871	0.004280330	Credible Set	purple
chr1:125387095	1	125.3871	0.008231250	Credible Set	purple
chr1:125459470	1	125.4595	0.004132014	Credible Set	purple
chr1:125481066	1	125.4811	0.004529628	Credible Set	purple
chr1:125481498	1	125.4815	0.005499793	Credible Set	purple
chr1:125481527	1	125.4815	0.006021720	Credible Set	purple
chr1:125481552	1	125.4816	0.006156479	Credible Set	purple
chr1:125481575	1	125.4816	0.006421286	Credible Set	purple
chr1:125481715	1	125.4817	0.001945740	Credible Set	purple
chr1:125578885	1	125.5789	0.002810203	Credible Set	purple
chr1:125579353	1	125.5794	0.002678265	Credible Set	purple
chr1:125585192	1	125.5852	0.003462203	Credible Set	purple
chr1:125585252	1	125.5853	0.003123502	Credible Set	purple
chr1:125615959	1	125.6160	0.002225522	Credible Set	purple
chr1:125616002	1	125.6160	0.002185989	Credible Set	purple
chr1:125643547	1	125.6435	0.003145129	Credible Set	purple
chr1:125643933	1	125.6439	0.003094798	Credible Set	purple
chr1:125733123	1	125.7331	0.004290058	Credible Set	purple
chr1:125741798	1	125.7418	0.005807763	Credible Set	purple
chr1:125764061	1	125.7641	0.005383415	Credible Set	purple
chr1:125764120	1	125.7641	0.006086535	Credible Set	purple
chr1:125765305	1	125.7653	0.003074121	Credible Set	purple
chr1:125765343	1	125.7653	0.003145375	Credible Set	purple
chr1:125765591	1	125.7656	0.006228165	Credible Set	purple
chr1:125765595	1	125.7656	0.005809238	Credible Set	purple
chr1:125787309	1	125.7873	0.008676441	Credible Set	purple
chr1:125789544	1	125.7895	0.007793146	Credible Set	purple
chr1:125789598	1	125.7896	0.008563652	Credible Set	purple
chr1:125795230	1	125.7952	0.008392435	Credible Set	purple
chr1:125795318	1	125.7953	0.008060562	Credible Set	purple
chr1:125795437	1	125.7954	0.005990406	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:125795438	1	125.7954	0.005939926	Credible Set	purple
chr1:125813871	1	125.8139	0.010397190	Credible Set	purple
chr1:125813926	1	125.8139	0.009986284	Credible Set	purple
chr1:125826985	1	125.8270	0.008293128	Credible Set	purple
chr1:125827492	1	125.8275	0.010969665	Credible Set	purple
chr1:125831250	1	125.8312	0.009798995	Credible Set	purple
chr1:125831282	1	125.8313	0.009572848	Credible Set	purple
chr1:125831293	1	125.8313	0.009775255	Credible Set	purple
chr1:125836037	1	125.8360	0.006905259	Credible Set	purple
chr1:125836053	1	125.8361	0.006916447	Credible Set	purple
chr1:125854689	1	125.8547	0.016398789	Credible Set	purple
chr1:125872500	1	125.8725	0.023362569	Credible Set	purple
chr1:125872503	1	125.8725	0.023427212	Credible Set	purple
chr1:125872524	1	125.8725	0.017306554	Credible Set	purple
chr1:125876478	1	125.8765	0.017652913	Credible Set	purple
chr1:125934259	1	125.9343	0.010673487	Credible Set	purple
chr1:125934293	1	125.9343	0.010925334	Credible Set	purple
chr1:125934498	1	125.9345	0.010853985	Credible Set	purple
chr1:125943250	1	125.9433	0.012547516	Credible Set	purple
chr1:125956049	1	125.9560	0.013682406	Credible Set	purple
chr1:126027899	1	126.0279	0.011486449	Credible Set	purple
chr1:126074088	1	126.0741	0.006583365	Credible Set	purple
chr1:126084400	1	126.0844	0.010413670	Credible Set	purple
chr1:126084494	1	126.0845	0.011737507	Credible Set	purple
chr1:126089361	1	126.0894	0.008088780	Credible Set	purple
chr1:126140625	1	126.1406	0.007920435	Credible Set	purple
chr1:126140679	1	126.1407	0.008443348	Credible Set	purple
chr1:126217882	1	126.2179	0.007065695	Credible Set	purple
chr1:126288256	1	126.2883	0.005558527	Credible Set	purple

F34 GBS, body weight day 1



date: Thu Oct 25 16:59:56 2018

build: F34GBS

display range: chr4:61414508–71414508 [61414508–71414508]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:66414508

number of SNPs plotted: 191

min P-value: 8.06E–8 [chr4:66414508]

max P-value: 8.91E–1 [chr4:65744347]

omitted Genes: Mup19, Mup5, Mup20

omitted Genes: Mup3, Mup21, Zfp37

omitted Genes: Slc31a2, Fkbp15, Slc31a1

omitted Genes: Cdc26, Rnf183, Alad

omitted Genes: Pole3, 4933430I17Rik, Rgs3

omitted Genes: Zfp618, Orm1, Orm3

omitted Genes: Orm2, Akna, Whrn

omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213

omitted Genes: 1700018C11Rik, Tnfsf15

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:63143387	4	63.14339	0.004920532	Credible Set	purple
chr4:63270812	4	63.27081	0.005286562	Credible Set	purple
chr4:63291699	4	63.29170	0.003919544	Credible Set	purple
chr4:63291735	4	63.29174	0.003895518	Credible Set	purple
chr4:63292002	4	63.29200	0.003641439	Credible Set	purple
chr4:63292021	4	63.29202	0.003657412	Credible Set	purple
chr4:63331035	4	63.33103	0.003198973	Credible Set	purple
chr4:63403594	4	63.40359	0.006146430	Credible Set	purple
chr4:63445899	4	63.44590	0.007880930	Credible Set	purple
chr4:63465528	4	63.46553	0.008176243	Credible Set	purple
chr4:63471028	4	63.47103	0.006807494	Credible Set	purple
chr4:63471086	4	63.47109	0.006701406	Credible Set	purple
chr4:63473150	4	63.47315	0.006064724	Credible Set	purple
chr4:63473181	4	63.47318	0.006026442	Credible Set	purple
chr4:63473231	4	63.47323	0.006770501	Credible Set	purple
chr4:63473937	4	63.47394	0.006987638	Credible Set	purple
chr4:63474009	4	63.47401	0.006476940	Credible Set	purple
chr4:63531405	4	63.53140	0.006799207	Credible Set	purple
chr4:63531436	4	63.53144	0.006706997	Credible Set	purple
chr4:63535096	4	63.53510	0.007191464	Credible Set	purple
chr4:63548238	4	63.54824	0.007458420	Credible Set	purple
chr4:63548572	4	63.54857	0.007001992	Credible Set	purple
chr4:63558825	4	63.55882	0.008222442	Credible Set	purple
chr4:63565618	4	63.56562	0.008176243	Credible Set	purple
chr4:63565712	4	63.56571	0.008176243	Credible Set	purple
chr4:63570198	4	63.57020	0.017426428	Credible Set	purple
chr4:64733521	4	64.73352	0.009019328	Credible Set	purple
chr4:65052703	4	65.05270	0.011424417	Credible Set	purple
chr4:65205920	4	65.20592	0.014056399	Credible Set	purple
chr4:65393970	4	65.39397	0.019387756	Credible Set	purple
chr4:65447841	4	65.44784	0.017604254	Credible Set	purple
chr4:65806420	4	65.80642	0.044483904	Credible Set	purple
chr4:66002530	4	66.00253	0.011555098	Credible Set	purple
chr4:66003029	4	66.00303	0.007394839	Credible Set	purple
chr4:66003164	4	66.00316	0.011297129	Credible Set	purple
chr4:66013512	4	66.01351	0.011044254	Credible Set	purple

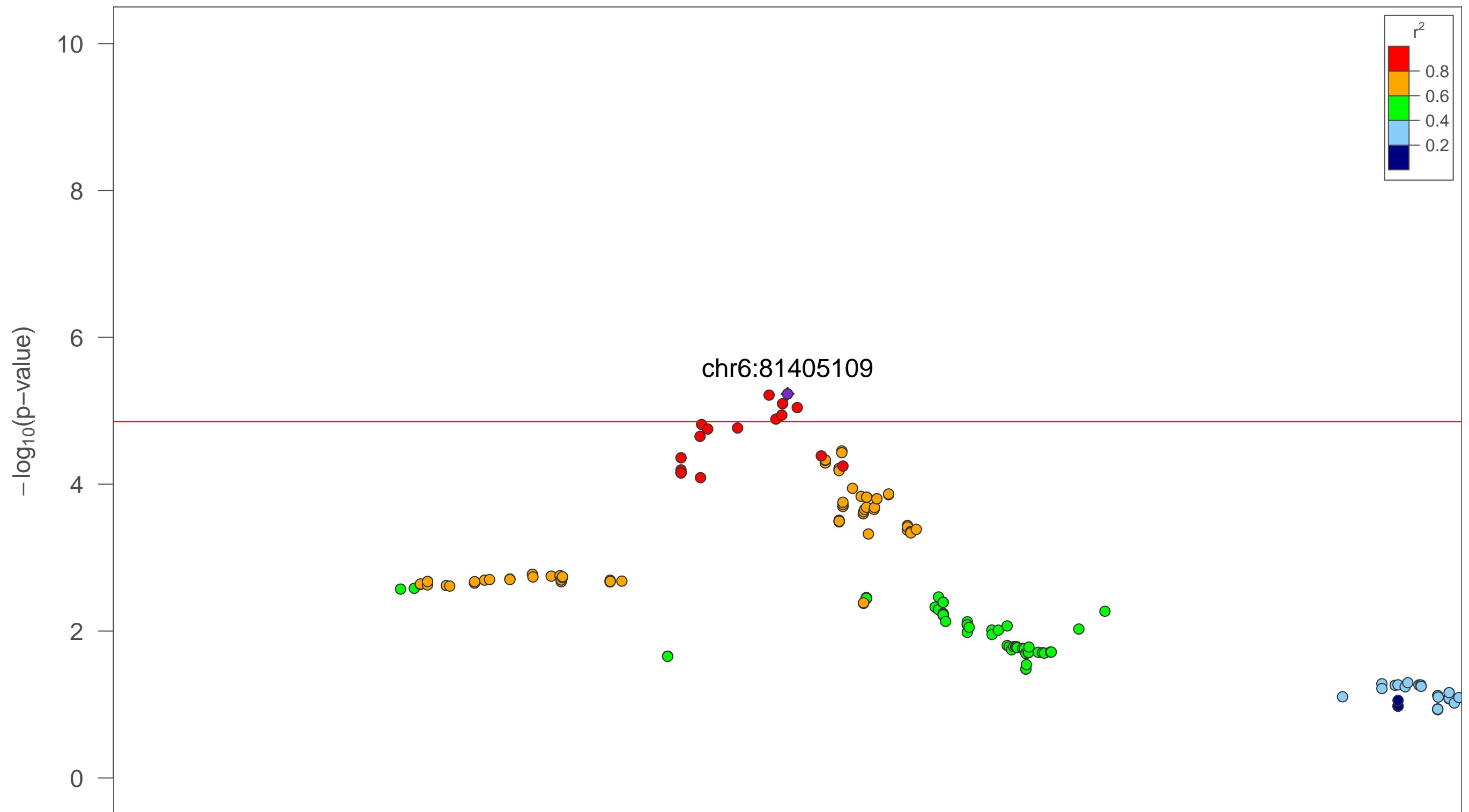
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:66110072	4	66.11007	0.013212622	Credible Set	purple
chr4:66114163	4	66.11416	0.007359190	Credible Set	purple
chr4:66114164	4	66.11416	0.006808908	Credible Set	purple
chr4:66114176	4	66.11418	0.006844079	Credible Set	purple
chr4:66123765	4	66.12377	0.008867952	Credible Set	purple
chr4:66123768	4	66.12377	0.006380854	Credible Set	purple
chr4:66123832	4	66.12383	0.015171792	Credible Set	purple
chr4:66124242	4	66.12424	0.013213448	Credible Set	purple
chr4:66169378	4	66.16938	0.008650737	Credible Set	purple
chr4:66325857	4	66.32586	0.014138122	Credible Set	purple
chr4:66325987	4	66.32599	0.013078820	Credible Set	purple
chr4:66328189	4	66.32819	0.013209608	Credible Set	purple
chr4:66328195	4	66.32819	0.013217499	Credible Set	purple
chr4:66328436	4	66.32844	0.013823825	Credible Set	purple
chr4:66328528	4	66.32853	0.015206020	Credible Set	purple
chr4:66328560	4	66.32856	0.013843567	Credible Set	purple
chr4:66329044	4	66.32904	0.017044709	Credible Set	purple
chr4:66329065	4	66.32906	0.018199854	Credible Set	purple
chr4:66329095	4	66.32909	0.018061779	Credible Set	purple
chr4:66414332	4	66.41433	0.012736841	Credible Set	purple
chr4:66414345	4	66.41434	0.012978584	Credible Set	purple
chr4:66414373	4	66.41437	0.012452192	Credible Set	purple
chr4:66414374	4	66.41437	0.012460381	Credible Set	purple
chr4:66414384	4	66.41438	0.014019326	Credible Set	purple
chr4:66414387	4	66.41439	0.019585308	Credible Set	purple
chr4:66414451	4	66.41445	0.020897239	Credible Set	purple
chr4:66414476	4	66.41448	0.048901218	Credible Set	purple
chr4:66414508	4	66.41451	0.051683313	Credible Set	purple
chr4:66414513	4	66.41451	0.048088101	Credible Set	purple
chr4:66414963	4	66.41496	0.019242291	Credible Set	purple
chr4:66419064	4	66.41906	0.009116121	Credible Set	purple
chr4:66419126	4	66.41913	0.014049268	Credible Set	purple
chr4:66743103	4	66.74310	0.005389529	Credible Set	purple
chr4:66823255	4	66.82326	0.006460812	Credible Set	purple
chr4:66840696	4	66.84070	0.009357500	Credible Set	purple
chr4:66866758	4	66.86676	0.013333133	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:67163007	4	67.16301	0.040364868	Credible Set	purple
chr4:67165680	4	67.16568	0.037908162	Credible Set	purple
chr4:67188375	4	67.18837	0.009903913	Credible Set	purple
chr4:67194875	4	67.19487	0.004679250	Credible Set	purple

F34 GBS, body weight day 1



Credible Set



70 genes
omitted

78

80

82

84

86

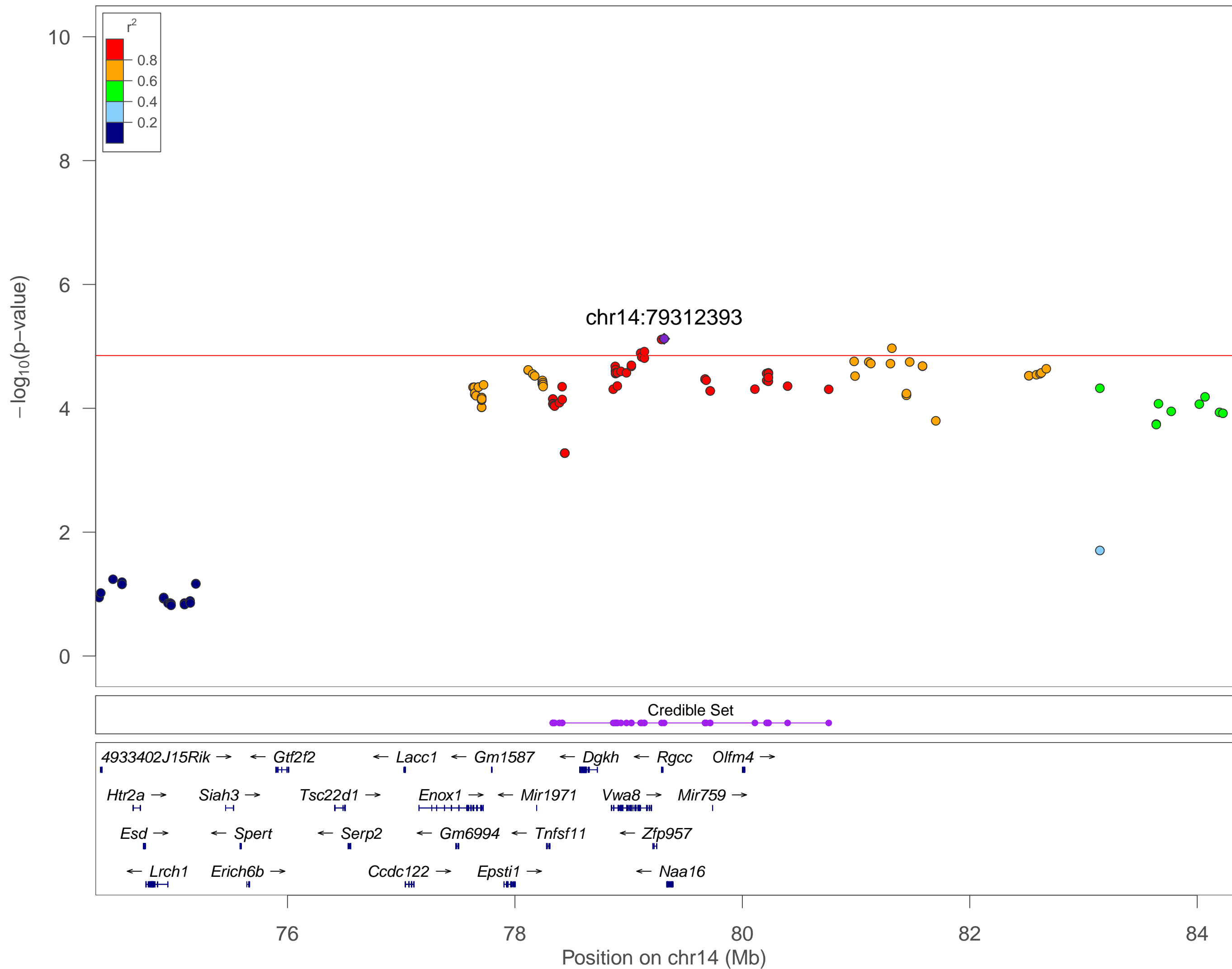
Position on chr6 (Mb)

date: Thu Oct 25 17:00:07 2018
build: F34GBS
display range: chr6:76405109–86405109 [76405109–86405109]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:81405109
number of SNPs plotted: 172
min P-value: 5.89E–6 [chr6:81405109]
max P-value: 1.17E–1 [chr6:86226324]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Alms1, Nat8f7, Mir6375
omitted Genes: Alms1-ps2, Nat8f6, Nat8f5
omitted Genes: Nat8, Nat8f2, Nat8f4
omitted Genes: Nat8f1, Dusp11, Add2
omitted Genes: Fam136a, Snrpg, Pcyox1
omitted Genes: Tia1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80614710	6	80.61471	0.01554354	Credible Set	purple
chr6:80614725	6	80.61473	0.01423141	Credible Set	purple
chr6:80614740	6	80.61474	0.01429243	Credible Set	purple
chr6:80614750	6	80.61475	0.01423141	Credible Set	purple
chr6:80614907	6	80.61491	0.02227719	Credible Set	purple
chr6:80755939	6	80.75594	0.04218344	Credible Set	purple
chr6:80759589	6	80.75959	0.01234583	Credible Set	purple
chr6:80767933	6	80.76793	0.06018603	Credible Set	purple
chr6:80812582	6	80.81258	0.05245386	Credible Set	purple
chr6:81034488	6	81.03449	0.05411055	Credible Set	purple
chr6:81267890	6	81.26789	0.14493198	Credible Set	purple
chr6:81318989	6	81.31899	0.07060812	Credible Set	purple
chr6:81362217	6	81.36222	0.07964570	Credible Set	purple
chr6:81368112	6	81.36811	0.11190384	Credible Set	purple
chr6:81405109	6	81.40511	0.15035759	Credible Set	purple
chr6:81476902	6	81.47690	0.09971273	Credible Set	purple
chr6:81655195	6	81.65520	0.02357117	Credible Set	purple
chr6:81815817	6	81.81582	0.01741315	Credible Set	purple

F34 GBS, body weight day 1



date: Thu Oct 25 16:59:47 2018
build: F34GBS
display range: chr14:74312393–84312393 [74312393–84312393]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:79312393
number of SNPs plotted: 127
min P-value: 7.53E–6 [chr14:79312393]
max P-value: 1.52E–1 [chr14:74975984]
omitted Genes: Gm4278, 5031414D18Rik, Lrrc63
omitted Genes: Lcp1, Cpb2, Zc3h13
omitted Genes: Cog3, Slc25a30, Gm4285
omitted Genes: Tpt1, Snora31, Kctd4
omitted Genes: Gpalpp1, Nufip1, 4930444M15Rik
omitted Genes: 1700108F19Rik, Dnajc15, Fam216b
omitted Genes: Akap11, Mtrf1, Kbtbd7
omitted Genes: Kbtbd6, Wbp4, Elf1
omitted Genes: Sugt1, Lect1, 4930452G13Rik
omitted Genes: Pcdh8, Gm10845

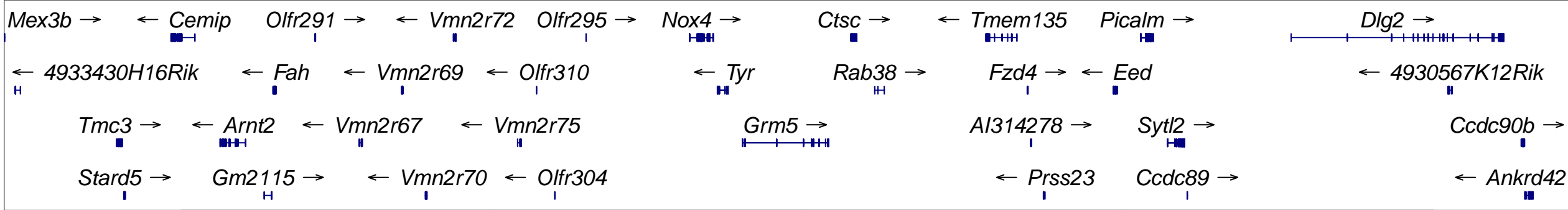
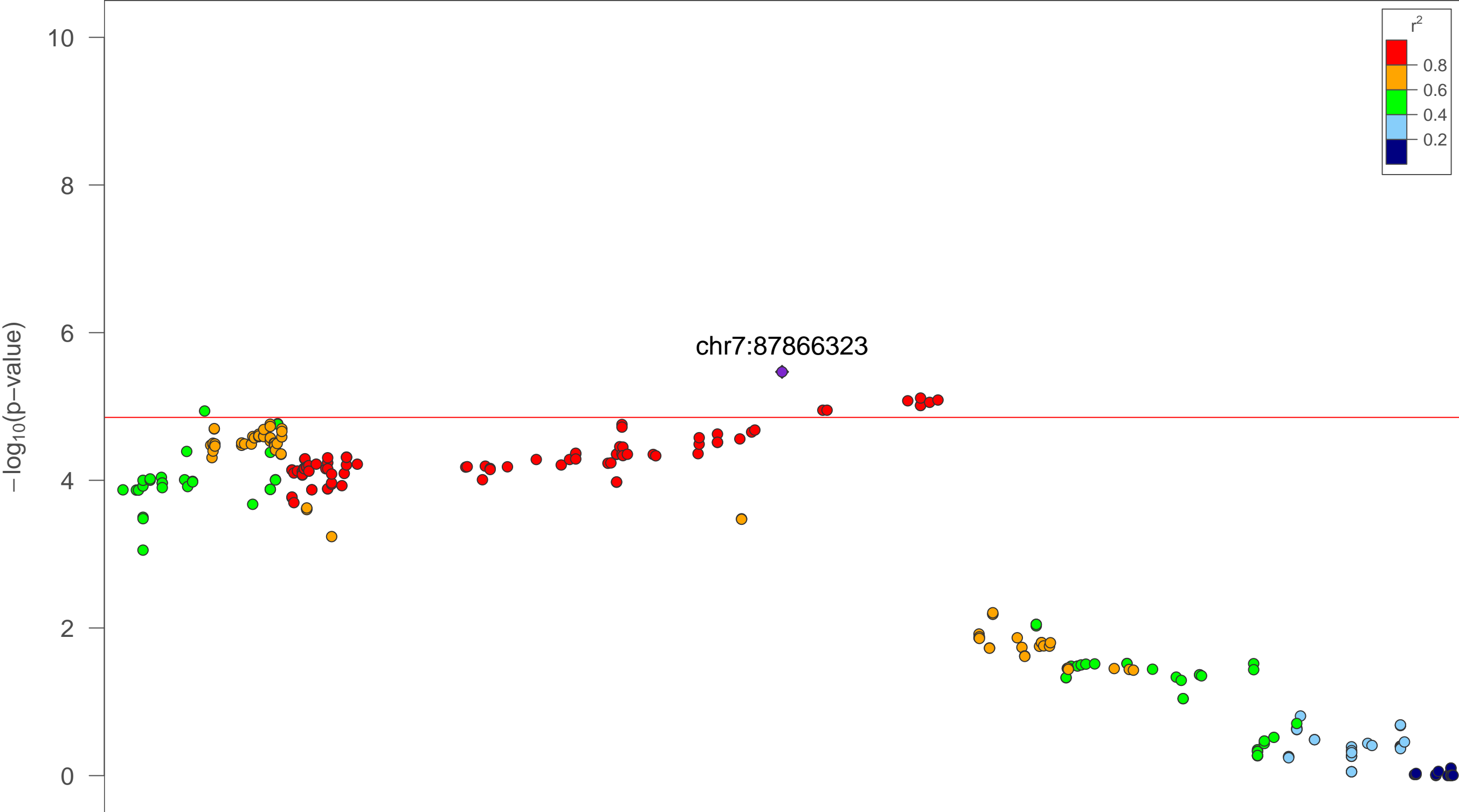
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:78333693	14	78.33369	0.009596012	Credible Set	purple
chr14:78333727	14	78.33373	0.009605429	Credible Set	purple
chr14:78334235	14	78.33424	0.008176264	Credible Set	purple
chr14:78334352	14	78.33435	0.008002390	Credible Set	purple
chr14:78342935	14	78.34293	0.007662936	Credible Set	purple
chr14:78349294	14	78.34929	0.007479411	Credible Set	purple
chr14:78390714	14	78.39071	0.008413361	Credible Set	purple
chr14:78415035	14	78.41504	0.014815595	Credible Set	purple
chr14:78415900	14	78.41590	0.009447704	Credible Set	purple
chr14:78864748	14	78.86475	0.013558704	Credible Set	purple
chr14:78882395	14	78.88240	0.030401999	Credible Set	purple
chr14:78884278	14	78.88428	0.025644109	Credible Set	purple
chr14:78885403	14	78.88540	0.023519885	Credible Set	purple
chr14:78885542	14	78.88554	0.027055887	Credible Set	purple
chr14:78885909	14	78.88591	0.024172435	Credible Set	purple
chr14:78900265	14	78.90027	0.015186616	Credible Set	purple
chr14:78900272	14	78.90027	0.024273387	Credible Set	purple
chr14:78932384	14	78.93238	0.025452236	Credible Set	purple
chr14:78980736	14	78.98074	0.024189889	Credible Set	purple
chr14:79024151	14	79.02415	0.030356851	Credible Set	purple
chr14:79024207	14	79.02421	0.031572210	Credible Set	purple
chr14:79105928	14	79.10593	0.048647173	Credible Set	purple
chr14:79115207	14	79.11521	0.042428195	Credible Set	purple
chr14:79138261	14	79.13826	0.040676940	Credible Set	purple
chr14:79138486	14	79.13849	0.051279397	Credible Set	purple
chr14:79289663	14	79.28966	0.078969096	Credible Set	purple
chr14:79312393	14	79.31239	0.080912275	Credible Set	purple
chr14:79672373	14	79.67237	0.019294935	Credible Set	purple
chr14:79672387	14	79.67239	0.019192702	Credible Set	purple
chr14:79672589	14	79.67259	0.019449424	Credible Set	purple
chr14:79682220	14	79.68222	0.018595042	Credible Set	purple
chr14:79717330	14	79.71733	0.012796695	Credible Set	purple
chr14:79717420	14	79.71742	0.012748553	Credible Set	purple
chr14:80110393	14	80.11039	0.013594815	Credible Set	purple
chr14:80213369	14	80.21337	0.023644892	Credible Set	purple
chr14:80214058	14	80.21406	0.018461552	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:80228969	14	80.22897	0.01790472	Credible Set	purple
chr14:80229277	14	80.22928	0.02419785	Credible Set	purple
chr14:80229281	14	80.22928	0.02364378	Credible Set	purple
chr14:80229399	14	80.22940	0.02054354	Credible Set	purple
chr14:80397940	14	80.39794	0.01511391	Credible Set	purple
chr14:80759627	14	80.75963	0.01351342	Credible Set	purple

F34 GBS, routine CBC white blood cell count



44 genes
omitted

date: Thu Oct 25 17:00:43 2018
build: F34GBS
display range: chr7:82866323–92866323 [82866323–92866323]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87866323
number of SNPs plotted: 272
min P-value: 3.4E–6 [chr7:87866323]
max P-value: 10E–1 [chr7:92800528]
omitted Genes: Il16, Cfap161, Mesdc1
omitted Genes: Mesdc2, Abhd17c, Zfand6
omitted Genes: 2610206C17Rik, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r71
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr299, Olfr298, Olfr297
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77, Vmn2r78
omitted Genes: Vmn2r79, Me3, Ccdc81
omitted Genes: l7Rn6, E230029C05Rik, 2310010J17Rik
omitted Genes: Ccdc83, Crebzf, Tmem126a
omitted Genes: Tmem126b, Pcf11, 4632427E13Rik
omitted Genes: Rab30, Ddias

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.005501709	Credible Set	purple
chr7:84251011	7	84.25101	0.005475841	Credible Set	purple
chr7:84265685	7	84.26569	0.005016557	Credible Set	purple
chr7:84291540	7	84.29154	0.005329965	Credible Set	purple
chr7:84327288	7	84.32729	0.005235804	Credible Set	purple
chr7:84327808	7	84.32781	0.004717339	Credible Set	purple
chr7:84327850	7	84.32785	0.004793861	Credible Set	purple
chr7:84338595	7	84.33859	0.005749274	Credible Set	purple
chr7:84343118	7	84.34312	0.005686161	Credible Set	purple
chr7:84344805	7	84.34480	0.007572429	Credible Set	purple
chr7:84347423	7	84.34742	0.007649440	Credible Set	purple
chr7:84360038	7	84.36004	0.006032025	Credible Set	purple
chr7:84360626	7	84.36063	0.005934546	Credible Set	purple
chr7:84360642	7	84.36064	0.005934546	Credible Set	purple
chr7:84360703	7	84.36070	0.005934546	Credible Set	purple
chr7:84360714	7	84.36071	0.005934546	Credible Set	purple
chr7:84360716	7	84.36072	0.005934546	Credible Set	purple
chr7:84375526	7	84.37553	0.006240815	Credible Set	purple
chr7:84375577	7	84.37558	0.005305038	Credible Set	purple
chr7:84375642	7	84.37564	0.005305038	Credible Set	purple
chr7:84397575	7	84.39758	0.003067353	Credible Set	purple
chr7:84397597	7	84.39760	0.003067353	Credible Set	purple
chr7:84430102	7	84.43010	0.006523611	Credible Set	purple
chr7:84501082	7	84.50108	0.005692555	Credible Set	purple
chr7:84514082	7	84.51408	0.006742649	Credible Set	purple
chr7:84514444	7	84.51444	0.006831071	Credible Set	purple
chr7:84514505	7	84.51450	0.007872161	Credible Set	purple
chr7:84514564	7	84.51456	0.003141971	Credible Set	purple
chr7:84514575	7	84.51457	0.003159374	Credible Set	purple
chr7:84514734	7	84.51473	0.005690317	Credible Set	purple
chr7:84543346	7	84.54335	0.003607470	Credible Set	purple
chr7:84543355	7	84.54336	0.003751895	Credible Set	purple
chr7:84543782	7	84.54378	0.004868379	Credible Set	purple
chr7:84619632	7	84.61963	0.003458170	Credible Set	purple
chr7:84636759	7	84.63676	0.004954218	Credible Set	purple
chr7:84653095	7	84.65309	0.006367397	Credible Set	purple

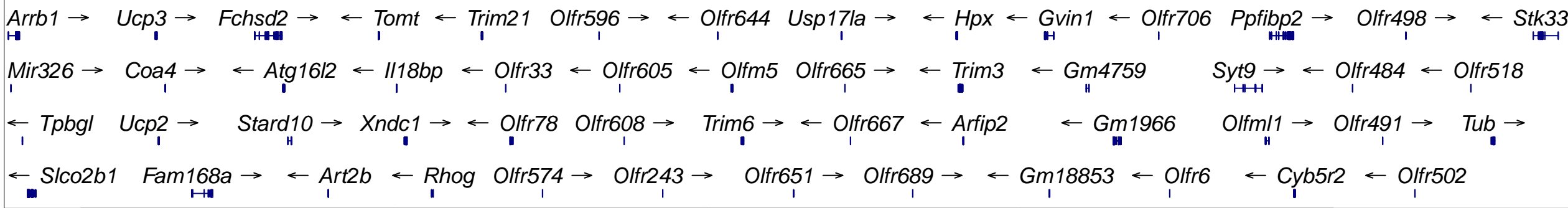
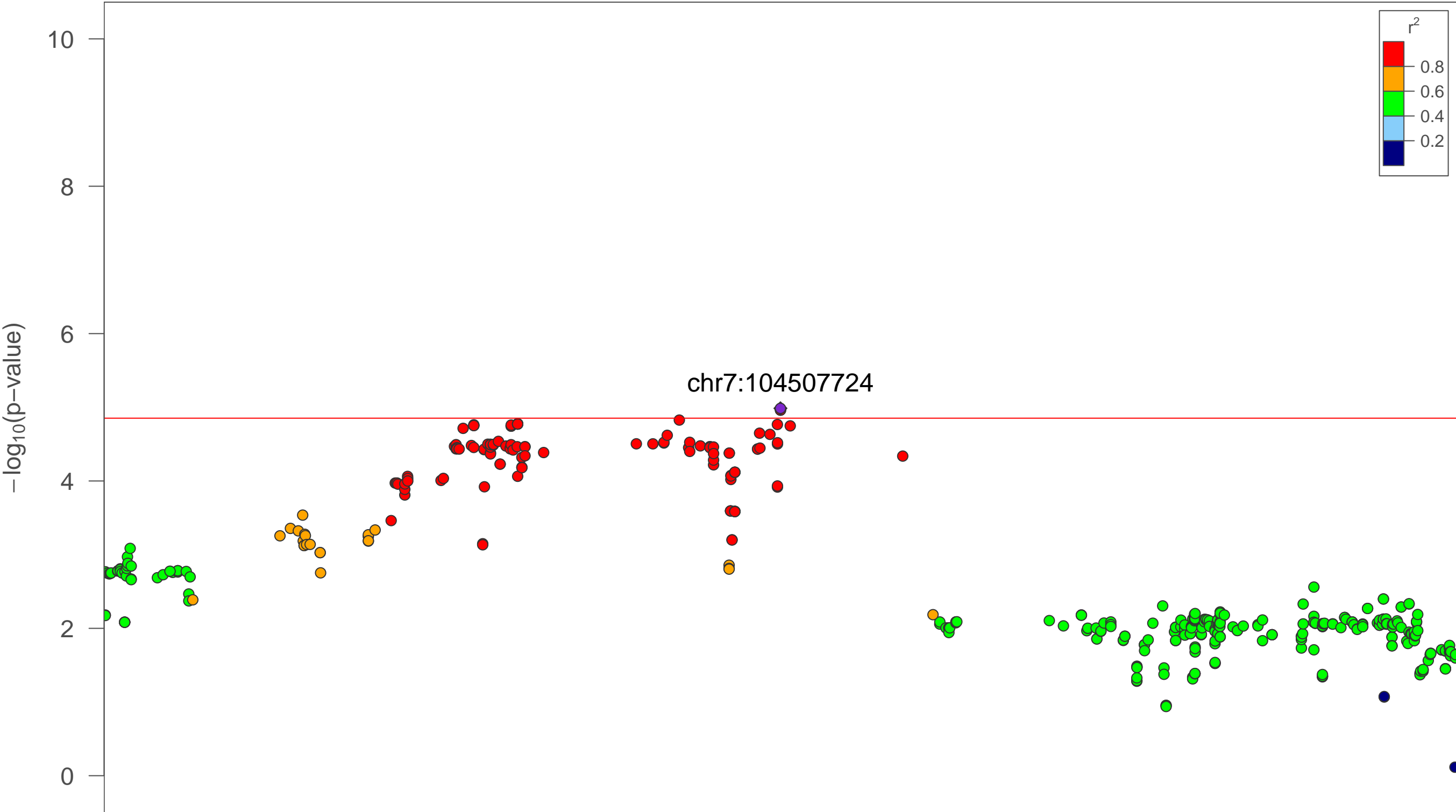
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84653660	7	84.65366	0.008037400	Credible Set	purple
chr7:84653702	7	84.65370	0.007946669	Credible Set	purple
chr7:84653707	7	84.65371	0.007985099	Credible Set	purple
chr7:84733186	7	84.73319	0.006513920	Credible Set	purple
chr7:85533207	7	85.53321	0.005973992	Credible Set	purple
chr7:85543843	7	85.54384	0.006046224	Credible Set	purple
chr7:85656243	7	85.65624	0.004116651	Credible Set	purple
chr7:85677494	7	85.67749	0.006148412	Credible Set	purple
chr7:85712663	7	85.71266	0.005744222	Credible Set	purple
chr7:85712975	7	85.71298	0.005566094	Credible Set	purple
chr7:85840665	7	85.84067	0.006027668	Credible Set	purple
chr7:86053386	7	86.05339	0.007480299	Credible Set	purple
chr7:86237374	7	86.23737	0.006361786	Credible Set	purple
chr7:86298979	7	86.29898	0.007477890	Credible Set	purple
chr7:86344420	7	86.34442	0.008818260	Credible Set	purple
chr7:86344437	7	86.34444	0.009002727	Credible Set	purple
chr7:86344488	7	86.34449	0.007594144	Credible Set	purple
chr7:86582139	7	86.58214	0.006693461	Credible Set	purple
chr7:86603770	7	86.60377	0.006766168	Credible Set	purple
chr7:86645719	7	86.64572	0.003824593	Credible Set	purple
chr7:86645792	7	86.64579	0.003862274	Credible Set	purple
chr7:86645947	7	86.64595	0.008697316	Credible Set	purple
chr7:86645990	7	86.64599	0.008776408	Credible Set	purple
chr7:86668998	7	86.66900	0.010918322	Credible Set	purple
chr7:86685426	7	86.68543	0.021104555	Credible Set	purple
chr7:86685507	7	86.68551	0.019524378	Credible Set	purple
chr7:86685648	7	86.68565	0.008808600	Credible Set	purple
chr7:86692214	7	86.69221	0.010800522	Credible Set	purple
chr7:86692491	7	86.69249	0.008386308	Credible Set	purple
chr7:86725518	7	86.72552	0.008731934	Credible Set	purple
chr7:86916161	7	86.91616	0.008683614	Credible Set	purple
chr7:86934710	7	86.93471	0.008346359	Credible Set	purple
chr7:87246786	7	87.24679	0.008888467	Credible Set	purple
chr7:87254690	7	87.25469	0.011770641	Credible Set	purple
chr7:87255156	7	87.25516	0.014260261	Credible Set	purple
chr7:87389952	7	87.38995	0.015900164	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87389989	7	87.38999	0.01238772	Credible Set	purple
chr7:87390014	7	87.39001	0.01246453	Credible Set	purple
chr7:87554961	7	87.55496	0.01375690	Credible Set	purple
chr7:87642045	7	87.64204	0.01685574	Credible Set	purple
chr7:87665727	7	87.66573	0.01790927	Credible Set	purple
chr7:87866323	7	87.86632	0.10136765	Credible Set	purple
chr7:88167216	7	88.16722	0.03228100	Credible Set	purple
chr7:88198240	7	88.19824	0.03228262	Credible Set	purple
chr7:88793653	7	88.79365	0.04273059	Credible Set	purple
chr7:88888100	7	88.88810	0.03716292	Credible Set	purple
chr7:88888124	7	88.88812	0.03716292	Credible Set	purple
chr7:88888200	7	88.88820	0.04640861	Credible Set	purple
chr7:88955188	7	88.95519	0.04081574	Credible Set	purple
chr7:89016577	7	89.01658	0.04373922	Credible Set	purple

F34 GBS, routine CBC white blood cell count



269 genes
omitted

Omitted Genes: Usp17lc Olfr606 Olfr609

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.003134497	Credible Set	purple
chr7:101669186	7	101.6692	0.003119559	Credible Set	purple
chr7:101673483	7	101.6735	0.003137235	Credible Set	purple
chr7:101680140	7	101.6801	0.003034775	Credible Set	purple
chr7:101731061	7	101.7311	0.003066289	Credible Set	purple
chr7:101731110	7	101.7311	0.002205150	Credible Set	purple
chr7:101731130	7	101.7311	0.002601388	Credible Set	purple
chr7:101731658	7	101.7317	0.003051814	Credible Set	purple
chr7:101751790	7	101.7518	0.003815374	Credible Set	purple
chr7:101752580	7	101.7526	0.003585198	Credible Set	purple
chr7:101752971	7	101.7530	0.003329312	Credible Set	purple
chr7:101998679	7	101.9987	0.003384327	Credible Set	purple
chr7:102016307	7	102.0163	0.003595272	Credible Set	purple
chr7:102098054	7	102.0981	0.009278800	Credible Set	purple
chr7:102110109	7	102.1101	0.009760998	Credible Set	purple
chr7:102110501	7	102.1105	0.008607181	Credible Set	purple
chr7:102116318	7	102.1163	0.008893541	Credible Set	purple
chr7:102116430	7	102.1164	0.008893541	Credible Set	purple
chr7:102116478	7	102.1165	0.008598750	Credible Set	purple
chr7:102132562	7	102.1326	0.008566080	Credible Set	purple
chr7:102162058	7	102.1621	0.015849017	Credible Set	purple
chr7:102223396	7	102.2234	0.009521621	Credible Set	purple
chr7:102240695	7	102.2407	0.008983457	Credible Set	purple
chr7:102241191	7	102.2412	0.017604614	Credible Set	purple
chr7:102241211	7	102.2412	0.017218708	Credible Set	purple
chr7:102241212	7	102.2412	0.017212173	Credible Set	purple
chr7:102317213	7	102.3172	0.008417846	Credible Set	purple
chr7:102317246	7	102.3172	0.008523494	Credible Set	purple
chr7:102319586	7	102.3196	0.002807123	Credible Set	purple
chr7:102344970	7	102.3450	0.009893181	Credible Set	purple
chr7:102363897	7	102.3639	0.009878185	Credible Set	purple
chr7:102364204	7	102.3642	0.007674797	Credible Set	purple
chr7:102364223	7	102.3642	0.007409394	Credible Set	purple
chr7:102364315	7	102.3643	0.009087320	Credible Set	purple
chr7:102364326	7	102.3643	0.009087320	Credible Set	purple
chr7:102364411	7	102.3644	0.009740598	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102385520	7	102.3855	0.009649962	Credible Set	purple
chr7:102385536	7	102.3855	0.009838476	Credible Set	purple
chr7:102423165	7	102.4232	0.010766295	Credible Set	purple
chr7:102435692	7	102.4357	0.005481659	Credible Set	purple
chr7:102435720	7	102.4357	0.005481659	Credible Set	purple
chr7:102478469	7	102.4785	0.009373951	Credible Set	purple
chr7:102510475	7	102.5105	0.008829658	Credible Set	purple
chr7:102510607	7	102.5106	0.008615186	Credible Set	purple
chr7:102516878	7	102.5169	0.009752256	Credible Set	purple
chr7:102517238	7	102.5172	0.016944462	Credible Set	purple
chr7:102517241	7	102.5172	0.016914451	Credible Set	purple
chr7:102517247	7	102.5172	0.017488843	Credible Set	purple
chr7:102531652	7	102.5317	0.008330102	Credible Set	purple
chr7:102561708	7	102.5617	0.009182845	Credible Set	purple
chr7:102565262	7	102.5653	0.018126622	Credible Set	purple
chr7:102565292	7	102.5653	0.017976917	Credible Set	purple
chr7:102565307	7	102.5653	0.018158430	Credible Set	purple
chr7:102565323	7	102.5653	0.018008463	Credible Set	purple
chr7:102565329	7	102.5653	0.018008463	Credible Set	purple
chr7:102565410	7	102.5654	0.003824409	Credible Set	purple
chr7:102596442	7	102.5964	0.006676858	Credible Set	purple
chr7:102596578	7	102.5966	0.005007568	Credible Set	purple
chr7:102596636	7	102.5966	0.004930290	Credible Set	purple
chr7:102619418	7	102.6194	0.009189028	Credible Set	purple
chr7:102619431	7	102.6194	0.009164687	Credible Set	purple
chr7:102619466	7	102.6195	0.007013656	Credible Set	purple
chr7:102757499	7	102.7575	0.007726660	Credible Set	purple
chr7:103442570	7	103.4426	0.010005887	Credible Set	purple
chr7:103564836	7	103.5648	0.009997328	Credible Set	purple
chr7:103646439	7	103.6464	0.010250965	Credible Set	purple
chr7:103646709	7	103.6467	0.010462968	Credible Set	purple
chr7:103671033	7	103.6710	0.012894201	Credible Set	purple
chr7:103760301	7	103.7603	0.020276455	Credible Set	purple
chr7:103829200	7	103.8292	0.008920566	Credible Set	purple
chr7:103837099	7	103.8371	0.010470456	Credible Set	purple
chr7:103837213	7	103.8372	0.007981410	Credible Set	purple

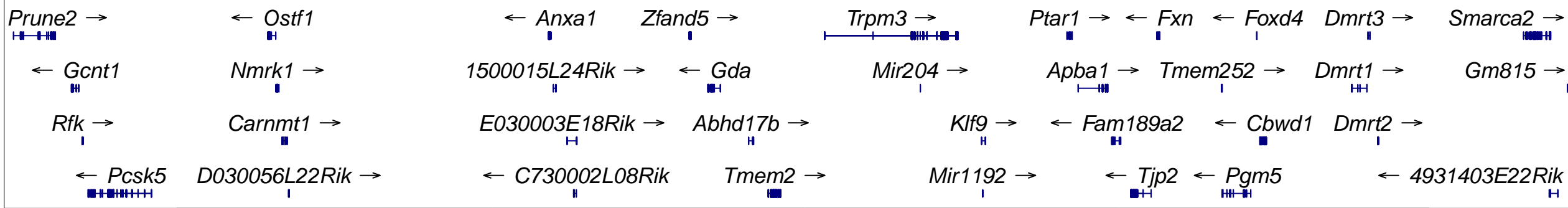
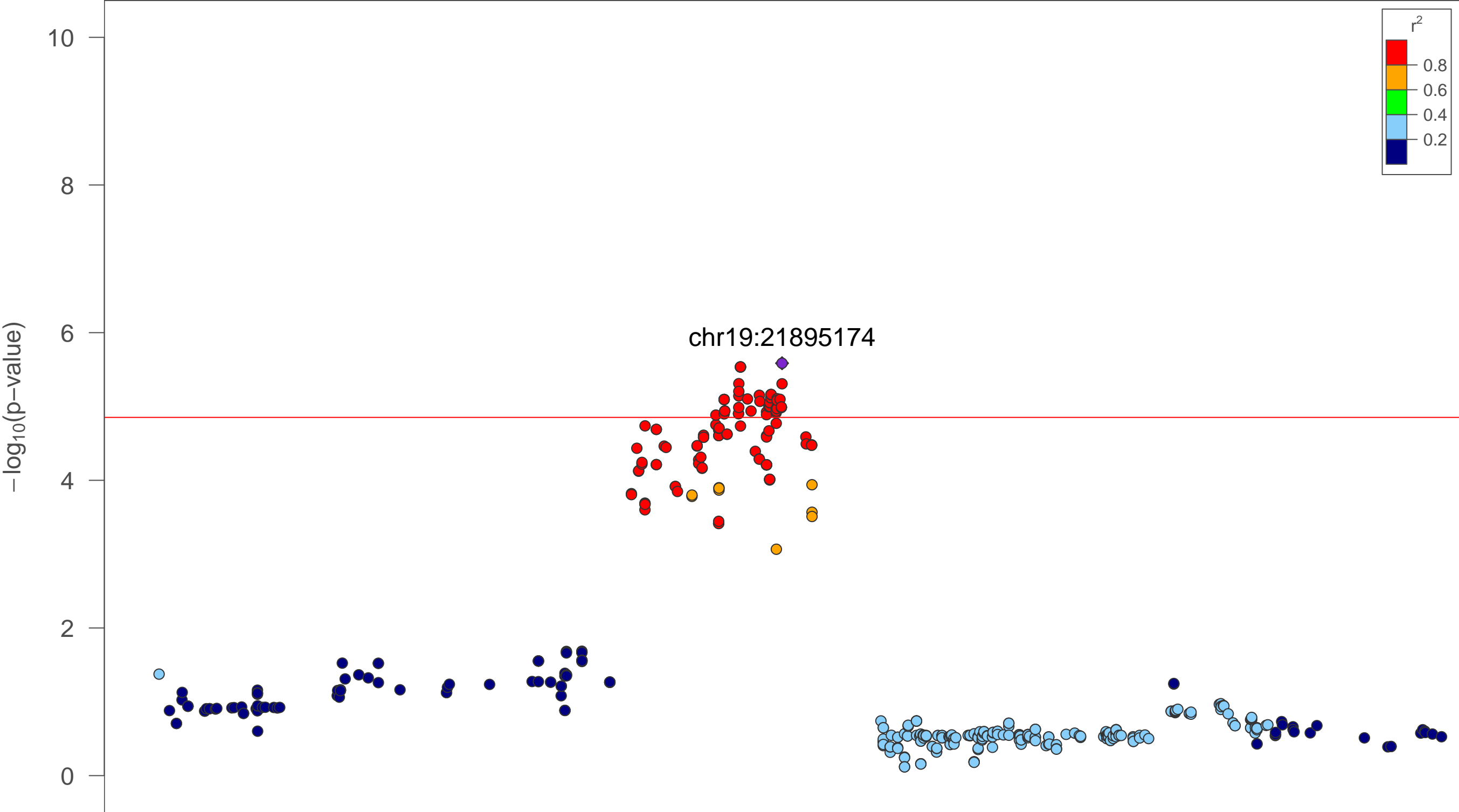
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103915503	7	103.9155	0.009415993	Credible Set	purple
chr7:103986792	7	103.9868	0.009194444	Credible Set	purple
chr7:103986795	7	103.9868	0.009194444	Credible Set	purple
chr7:103986857	7	103.9869	0.008944166	Credible Set	purple
chr7:103986860	7	103.9869	0.008944166	Credible Set	purple
chr7:104012808	7	104.0128	0.009113036	Credible Set	purple
chr7:104013370	7	104.0134	0.005364078	Credible Set	purple
chr7:104013395	7	104.0134	0.006178234	Credible Set	purple
chr7:104013467	7	104.0135	0.007492059	Credible Set	purple
chr7:104129734	7	104.1297	0.007593289	Credible Set	purple
chr7:104129736	7	104.1297	0.007593289	Credible Set	purple
chr7:104138934	7	104.1389	0.001377872	Credible Set	purple
chr7:104138936	7	104.1389	0.001381271	Credible Set	purple
chr7:104138968	7	104.1390	0.001381271	Credible Set	purple
chr7:104141343	7	104.1413	0.003480258	Credible Set	purple
chr7:104141705	7	104.1417	0.003919792	Credible Set	purple
chr7:104141768	7	104.1418	0.003857797	Credible Set	purple
chr7:104170518	7	104.1705	0.001363535	Credible Set	purple
chr7:104170588	7	104.1706	0.004306815	Credible Set	purple
chr7:104170594	7	104.1706	0.004293377	Credible Set	purple
chr7:104170618	7	104.1706	0.004315962	Credible Set	purple
chr7:104170662	7	104.1707	0.004315962	Credible Set	purple
chr7:104338784	7	104.3388	0.008594047	Credible Set	purple
chr7:104338810	7	104.3388	0.008541118	Credible Set	purple
chr7:104353491	7	104.3535	0.013734151	Credible Set	purple
chr7:104356230	7	104.3562	0.008810938	Credible Set	purple
chr7:104430205	7	104.4302	0.013252966	Credible Set	purple
chr7:104485236	7	104.4852	0.017776242	Credible Set	purple
chr7:104485721	7	104.4857	0.002784109	Credible Set	purple
chr7:104485727	7	104.4857	0.002878544	Credible Set	purple
chr7:104486022	7	104.4860	0.009960934	Credible Set	purple
chr7:104486041	7	104.4860	0.010332955	Credible Set	purple
chr7:104507724	7	104.5077	0.028757333	Credible Set	purple
chr7:104508127	7	104.5081	0.027279761	Credible Set	purple
chr7:104508173	7	104.5082	0.027266602	Credible Set	purple
chr7:104580091	7	104.5801	0.017066721	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:105411752	7	105.4118	0.006951717	Credible Set	purple

F34 GBS, routine CBC white blood cell count



16 genes
omitted

date: Thu Oct 25 17:00:16 2018

build: F34GBS

display range: chr19:16895174–26895174 [16895174–26895174]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21895174

number of SNPs plotted: 470

min P-value: 2.59E–6 [chr19:21895174]

max P-value: 7.62E–1 [chr19:22798742]

omitted Genes: Trpm6, Rorb, Aldh1a1

omitted Genes: Aldh1a7, Tmc1, 4930554I06Rik

omitted Genes: 1110059E24Rik, Smc5, Mamdc2

omitted Genes: 1700028P14Rik, Pip5k1b, Fam122a

omitted Genes: Mir3084–1, Dock8, Kank1

omitted Genes: 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20824062	19	20.82406	0.003479946	Credible Set	purple
chr19:20837340	19	20.83734	0.001766335	Credible Set	purple
chr19:20837342	19	20.83734	0.001792071	Credible Set	purple
chr19:20861811	19	20.86181	0.002176357	Credible Set	purple
chr19:20861821	19	20.86182	0.002290864	Credible Set	purple
chr19:20884530	19	20.88453	0.006761317	Credible Set	purple
chr19:20967742	19	20.96774	0.002144878	Credible Set	purple
chr19:20967772	19	20.96777	0.002147991	Credible Set	purple
chr19:20967840	19	20.96784	0.006083086	Credible Set	purple
chr19:20967865	19	20.96786	0.006093708	Credible Set	purple
chr19:21025668	19	21.02567	0.003706715	Credible Set	purple
chr19:21039744	19	21.03974	0.003568918	Credible Set	purple
chr19:21268525	19	21.26853	0.003719266	Credible Set	purple
chr19:21268527	19	21.26853	0.003726990	Credible Set	purple
chr19:21268550	19	21.26855	0.003758563	Credible Set	purple
chr19:21280282	19	21.28028	0.002478884	Credible Set	purple
chr19:21280286	19	21.28029	0.002210847	Credible Set	purple
chr19:21296098	19	21.29610	0.002672970	Credible Set	purple
chr19:21305518	19	21.30552	0.001923346	Credible Set	purple
chr19:21305568	19	21.30557	0.001952204	Credible Set	purple
chr19:21316234	19	21.31623	0.005121764	Credible Set	purple
chr19:21316268	19	21.31627	0.004811437	Credible Set	purple
chr19:21316305	19	21.31630	0.004823994	Credible Set	purple
chr19:21407108	19	21.40711	0.006981278	Credible Set	purple
chr19:21407182	19	21.40718	0.009324381	Credible Set	purple
chr19:21428151	19	21.42815	0.005962054	Credible Set	purple
chr19:21428338	19	21.42834	0.005063110	Credible Set	purple
chr19:21428343	19	21.42834	0.005063110	Credible Set	purple
chr19:21430361	19	21.43036	0.006292518	Credible Set	purple
chr19:21430412	19	21.43041	0.006353994	Credible Set	purple
chr19:21467882	19	21.46788	0.009646199	Credible Set	purple
chr19:21467967	19	21.46797	0.014776152	Credible Set	purple
chr19:21467982	19	21.46798	0.014850830	Credible Set	purple
chr19:21467985	19	21.46798	0.014850830	Credible Set	purple
chr19:21467987	19	21.46799	0.014813541	Credible Set	purple
chr19:21472509	19	21.47251	0.010549821	Credible Set	purple

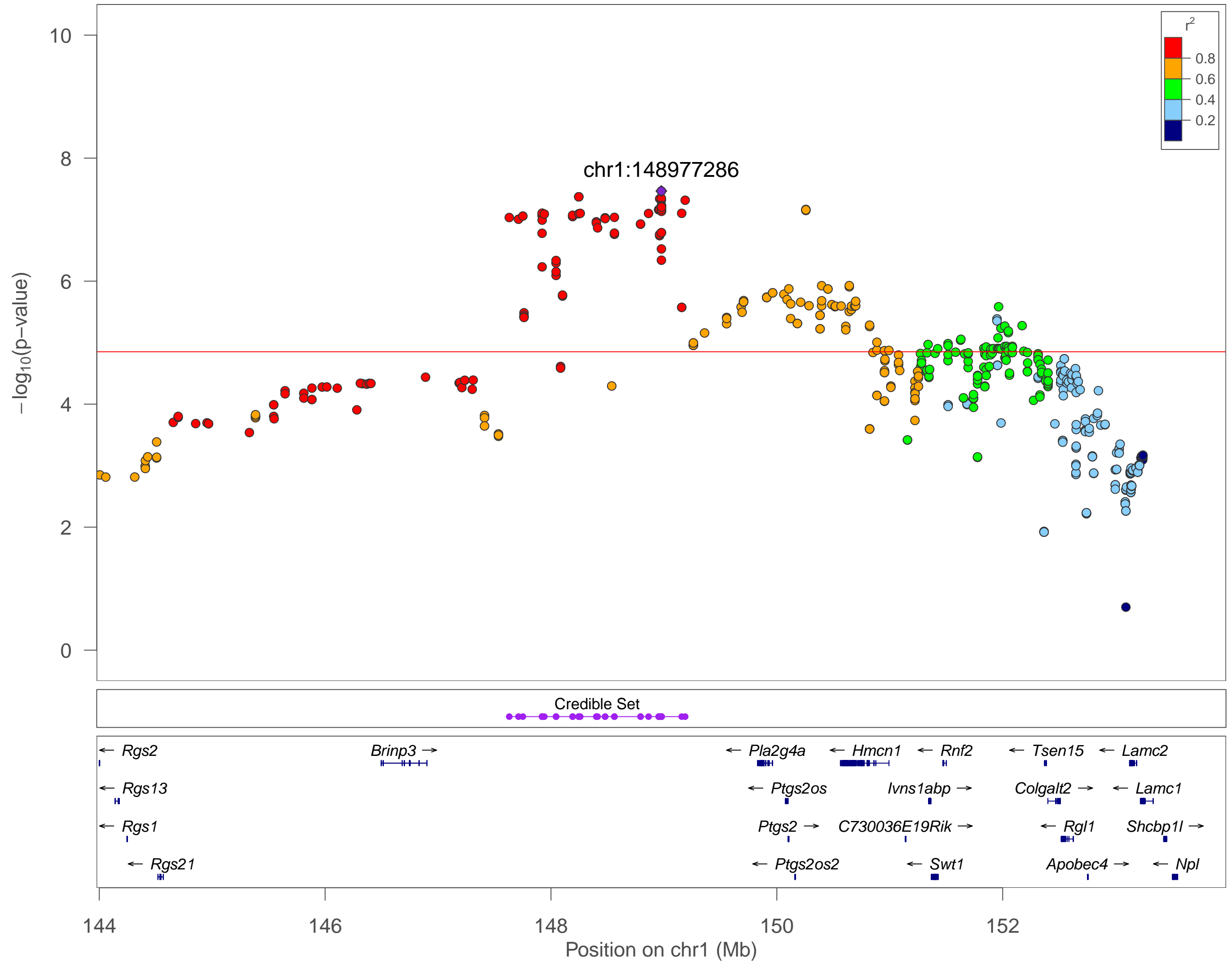
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21472526	19	21.47253	0.010517116	Credible Set	purple
chr19:21489550	19	21.48955	0.005257509	Credible Set	purple
chr19:21489579	19	21.48958	0.005292122	Credible Set	purple
chr19:21574198	19	21.57420	0.009713901	Credible Set	purple
chr19:21574202	19	21.57420	0.009748026	Credible Set	purple
chr19:21575782	19	21.57578	0.011679622	Credible Set	purple
chr19:21576364	19	21.57636	0.023787792	Credible Set	purple
chr19:21576365	19	21.57636	0.016462767	Credible Set	purple
chr19:21576374	19	21.57637	0.018862607	Credible Set	purple
chr19:21588462	19	21.58846	0.039243530	Credible Set	purple
chr19:21588470	19	21.58847	0.039191513	Credible Set	purple
chr19:21588527	19	21.58853	0.038982712	Credible Set	purple
chr19:21588528	19	21.58853	0.039275032	Credible Set	purple
chr19:21588608	19	21.58861	0.006724028	Credible Set	purple
chr19:21640403	19	21.64040	0.015070885	Credible Set	purple
chr19:21666239	19	21.66624	0.010518703	Credible Set	purple
chr19:21697884	19	21.69788	0.003177776	Credible Set	purple
chr19:21727318	19	21.72732	0.002543642	Credible Set	purple
chr19:21727391	19	21.72739	0.002520819	Credible Set	purple
chr19:21727561	19	21.72756	0.016824376	Credible Set	purple
chr19:21731633	19	21.73163	0.014019582	Credible Set	purple
chr19:21780788	19	21.78079	0.010236000	Credible Set	purple
chr19:21780850	19	21.78085	0.009426365	Credible Set	purple
chr19:21780922	19	21.78092	0.002127112	Credible Set	purple
chr19:21780928	19	21.78093	0.002124246	Credible Set	purple
chr19:21780934	19	21.78093	0.002134882	Credible Set	purple
chr19:21780935	19	21.78093	0.002134882	Credible Set	purple
chr19:21781005	19	21.78101	0.005043833	Credible Set	purple
chr19:21781019	19	21.78102	0.004855973	Credible Set	purple
chr19:21798450	19	21.79845	0.011913874	Credible Set	purple
chr19:21798541	19	21.79854	0.005838403	Credible Set	purple
chr19:21803806	19	21.80381	0.001393950	Credible Set	purple
chr19:21803819	19	21.80382	0.001362329	Credible Set	purple
chr19:21803853	19	21.80385	0.001388858	Credible Set	purple
chr19:21803859	19	21.80386	0.001390581	Credible Set	purple
chr19:21804356	19	21.80436	0.012053895	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21804420	19	21.80442	0.013442321	Credible Set	purple
chr19:21804582	19	21.80458	0.013518135	Credible Set	purple
chr19:21812258	19	21.81226	0.015579607	Credible Set	purple
chr19:21812298	19	21.81230	0.015638761	Credible Set	purple
chr19:21812594	19	21.81259	0.017218328	Credible Set	purple
chr19:21814790	19	21.81479	0.017124033	Credible Set	purple
chr19:21814806	19	21.81481	0.017236345	Credible Set	purple
chr19:21851795	19	21.85179	0.009981769	Credible Set	purple
chr19:21852236	19	21.85224	0.011199702	Credible Set	purple
chr19:21852273	19	21.85227	0.010492163	Credible Set	purple
chr19:21852296	19	21.85230	0.007290938	Credible Set	purple
chr19:21857059	19	21.85706	0.011777903	Credible Set	purple
chr19:21857128	19	21.85713	0.011292658	Credible Set	purple
chr19:21857704	19	21.85770	0.015183882	Credible Set	purple
chr19:21857707	19	21.85771	0.014478042	Credible Set	purple
chr19:21880097	19	21.88010	0.014906049	Credible Set	purple
chr19:21889764	19	21.88976	0.011703019	Credible Set	purple
chr19:21889768	19	21.88977	0.011733833	Credible Set	purple
chr19:21889777	19	21.88978	0.011703019	Credible Set	purple
chr19:21889831	19	21.88983	0.011723340	Credible Set	purple
chr19:21889832	19	21.88983	0.011730755	Credible Set	purple
chr19:21889838	19	21.88984	0.011882834	Credible Set	purple
chr19:21895163	19	21.89516	0.023703299	Credible Set	purple
chr19:21895174	19	21.89517	0.043781690	Credible Set	purple
chr19:22070939	19	22.07094	0.004872101	Credible Set	purple
chr19:22073618	19	22.07362	0.003957677	Credible Set	purple
chr19:22113626	19	22.11363	0.003856117	Credible Set	purple
chr19:22113628	19	22.11363	0.003806433	Credible Set	purple
chr19:22113687	19	22.11369	0.003804155	Credible Set	purple

F34 GBS, routine CBC red blood cell count



date: Thu Oct 25 17:03:27 2018

build: F34GBS

display range: chr1:143977286–153977286 [143977286–153977286]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:148977286

number of SNPs plotted: 507

min P-value: 3.42E–8 [chr1:148977286]

max P-value: 2E–1 [chr1:153090942]

omitted Genes: Rgs18, Pdc, 2310030A07Rik

omitted Genes: BC003331, Tpr, Prg4

omitted Genes: Trmt1l, Mir7682, Fam129a

omitted Genes: Edem3, 1700025G04Rik, Arpc5

omitted Genes: Ncf2, Smg7, Nmnat2

omitted Genes: E330020D12Rik, Dhx9, Rgs8

omitted Genes: C230024C17Rik, Rgs16, Rnasel

omitted Genes: Rgs11, Teddm2, Teddm1b

omitted Genes: Teddm1a, Mir8114, Glul

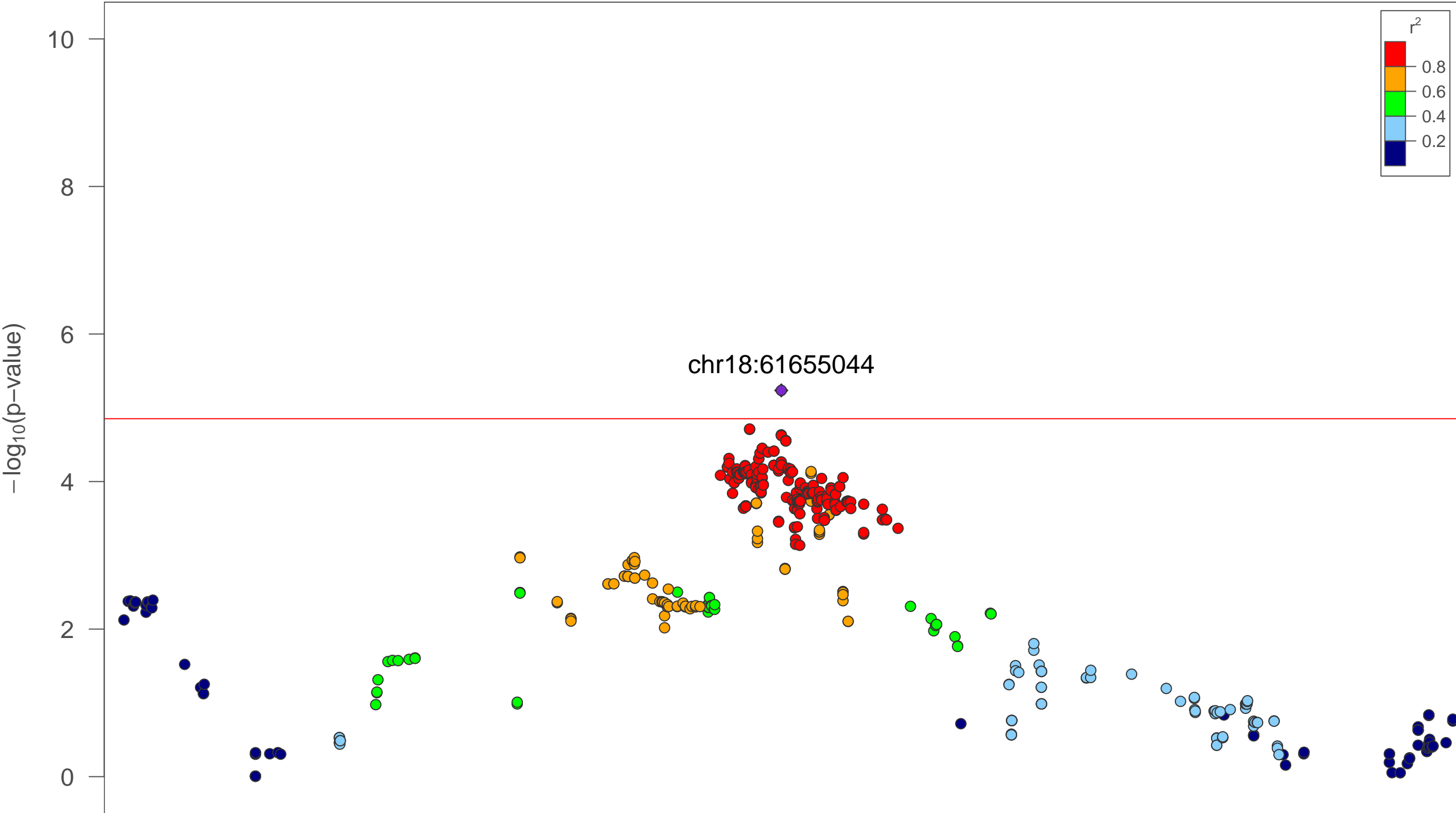
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:147630646	1	147.6306	0.016770111	Credible Set	purple
chr1:147712367	1	147.7124	0.015760618	Credible Set	purple
chr1:147751084	1	147.7511	0.017691123	Credible Set	purple
chr1:147921174	1	147.9212	0.009486611	Credible Set	purple
chr1:147921280	1	147.9213	0.002813986	Credible Set	purple
chr1:147921379	1	147.9214	0.018112685	Credible Set	purple
chr1:147921380	1	147.9214	0.018157020	Credible Set	purple
chr1:147921465	1	147.9215	0.019651103	Credible Set	purple
chr1:147921979	1	147.9220	0.015252863	Credible Set	purple
chr1:147940897	1	147.9409	0.019030575	Credible Set	purple
chr1:148044707	1	148.0447	0.003235533	Credible Set	purple
chr1:148044765	1	148.0448	0.003542318	Credible Set	purple
chr1:148045260	1	148.0453	0.002364531	Credible Set	purple
chr1:148191398	1	148.1914	0.017338943	Credible Set	purple
chr1:148191461	1	148.1915	0.018222125	Credible Set	purple
chr1:148246268	1	148.2463	0.035525322	Credible Set	purple
chr1:148246270	1	148.2463	0.035553321	Credible Set	purple
chr1:148246308	1	148.2463	0.035553321	Credible Set	purple
chr1:148246370	1	148.2464	0.019228793	Credible Set	purple
chr1:148259002	1	148.2590	0.019519378	Credible Set	purple
chr1:148401594	1	148.4016	0.014359338	Credible Set	purple
chr1:148401658	1	148.4017	0.013724217	Credible Set	purple
chr1:148412829	1	148.4128	0.011526073	Credible Set	purple
chr1:148479166	1	148.4792	0.016637040	Credible Set	purple
chr1:148479488	1	148.4795	0.016101327	Credible Set	purple
chr1:148561626	1	148.5616	0.016884578	Credible Set	purple
chr1:148561643	1	148.5616	0.009132927	Credible Set	purple
chr1:148561679	1	148.5617	0.009533432	Credible Set	purple
chr1:148793161	1	148.7932	0.013149282	Credible Set	purple
chr1:148793216	1	148.7932	0.013271295	Credible Set	purple
chr1:148864191	1	148.8642	0.019448661	Credible Set	purple
chr1:148954162	1	148.9542	0.022275747	Credible Set	purple
chr1:148954168	1	148.9542	0.022275747	Credible Set	purple
chr1:148954207	1	148.9542	0.022275747	Credible Set	purple
chr1:148961834	1	148.9618	0.008683184	Credible Set	purple
chr1:148961852	1	148.9619	0.009084529	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:148962391	1	148.9624	0.022799495	Credible Set	purple
chr1:148962448	1	148.9624	0.022489334	Credible Set	purple
chr1:148962557	1	148.9626	0.033096424	Credible Set	purple
chr1:148977255	1	148.9773	0.031479271	Credible Set	purple
chr1:148977279	1	148.9773	0.033707946	Credible Set	purple
chr1:148977286	1	148.9773	0.043873858	Credible Set	purple
chr1:148977945	1	148.9779	0.009703785	Credible Set	purple
chr1:148977976	1	148.9780	0.009699202	Credible Set	purple
chr1:148977977	1	148.9780	0.003578461	Credible Set	purple
chr1:148977984	1	148.9780	0.005377246	Credible Set	purple
chr1:148978648	1	148.9786	0.025925582	Credible Set	purple
chr1:148978689	1	148.9787	0.025159514	Credible Set	purple
chr1:148978796	1	148.9788	0.024447543	Credible Set	purple
chr1:148978842	1	148.9788	0.020973256	Credible Set	purple
chr1:148978923	1	148.9789	0.022403352	Credible Set	purple
chr1:148979220	1	148.9792	0.024483940	Credible Set	purple
chr1:149157510	1	149.1575	0.019554960	Credible Set	purple
chr1:149188240	1	149.1882	0.031394233	Credible Set	purple

F34 GBS, routine CBC red blood cell count



Credible Set

Genes and their orientations (indicated by arrows) are listed below the plot, corresponding to the genomic region shown. The genes are arranged in four rows, with their positions relative to the x-axis (Mb) indicated by vertical lines and arrows.

Row 1: *Lmnb1* →, *Slc12a2* →, *Isoc1* →, *Mir6355* →, *Iigp1* →, *Cdx1* ←, *Bvht* →, *Htr4* →, *Napg* →, *Txn1l* ←, *Fech* ←, *Mir122* →, *Grp* →

Row 2: *March3* ←, *Fbn2* ←, *Adamts19* →, *Gm4951* →, *Arsi* →, *Carmn* ←, *Fbxo38* ←, *Wdr7* →, *Nars* ←, *Alpk2* ←, *Rax* ←

Row 3: *Gm10536* →, *Slc27a6* →, *Gm4841* ←, *Pdgfrb* →, *Ablim3* ←, *Spink7* ←, *St8sia3os* ←, *Nedd4l* →, *Sec11c* →

Row 4: *C330018D20Rik* ←, *A730017C20Rik* →, *Smim3* ←, *Pde6a* →, *Sh3tc2* →, *Apcdd1* →, *St8sia3* →, *Malt1* →, *Ccbe1* ←

53 genes
omitted

date: Thu Oct 25 17:03:38 2018
build: F34GBS
display range: chr18:56655044–66655044 [56655044–66655044]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr18:61655044
number of SNPs plotted: 476
min P-value: 5.81E–6 [chr18:61655044]
max P-value: 9.88E–1 [chr18:57772170]
omitted Genes: Megf10, Prrc1, Ctxn3
omitted Genes: 1700066O22Rik, 1700011I03Rik, 4930511M06Rik
omitted Genes: 2210409D07Rik, Chsy3, F830016B08Rik
omitted Genes: Dctn4, Rbm22, Myoz3
omitted Genes: Synpo, G630071F17Rik, Ndst1
omitted Genes: Rps14, Cd74, Mir5107
omitted Genes: Tcof1, Camk2a, Mir7220
omitted Genes: Mir6982, Slc6a7, Csf1r
omitted Genes: Mir6983, Hmgxb3, Slc26a2
omitted Genes: Ppargc1b, Mir378a, A530050N04Rik
omitted Genes: Arhgef37, Csnk1a1, Mir145a
omitted Genes: Mir143, Il17b, Pcyox1l
omitted Genes: Grpel2, 1500015A07Rik, Afap1l1
omitted Genes: Adrb2, Spink10, Spink13
omitted Genes: 2700046A07Rik, Piezo2, Onecut2
omitted Genes: Atp8b1, Zfp532, Oacyl
omitted Genes: Cplx4, Lman1, Mir694
omitted Genes: Pmaip1, Gm9926

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:61205705	18	61.20571	0.005448370	Credible Set	purple
chr18:61257201	18	61.25720	0.006945231	Credible Set	purple
chr18:61257377	18	61.25738	0.006966032	Credible Set	purple
chr18:61268578	18	61.26858	0.008962725	Credible Set	purple
chr18:61268584	18	61.26858	0.007777763	Credible Set	purple
chr18:61275165	18	61.27517	0.004888103	Credible Set	purple
chr18:61294899	18	61.29490	0.003202445	Credible Set	purple
chr18:61295744	18	61.29574	0.005984639	Credible Set	purple
chr18:61307248	18	61.30725	0.004362501	Credible Set	purple
chr18:61307278	18	61.30728	0.004369899	Credible Set	purple
chr18:61322420	18	61.32242	0.006295605	Credible Set	purple
chr18:61325885	18	61.32588	0.005969946	Credible Set	purple
chr18:61325983	18	61.32598	0.006591703	Credible Set	purple
chr18:61326493	18	61.32649	0.006001677	Credible Set	purple
chr18:61326662	18	61.32666	0.005943314	Credible Set	purple
chr18:61326689	18	61.32669	0.005943314	Credible Set	purple
chr18:61336840	18	61.33684	0.005959787	Credible Set	purple
chr18:61340720	18	61.34072	0.004978988	Credible Set	purple
chr18:61340729	18	61.34073	0.004985735	Credible Set	purple
chr18:61344728	18	61.34473	0.005558116	Credible Set	purple
chr18:61351043	18	61.35104	0.005735564	Credible Set	purple
chr18:61351491	18	61.35149	0.005563928	Credible Set	purple
chr18:61376042	18	61.37604	0.002083723	Credible Set	purple
chr18:61376045	18	61.37604	0.002067396	Credible Set	purple
chr18:61376483	18	61.37648	0.006195200	Credible Set	purple
chr18:61376688	18	61.37669	0.005969946	Credible Set	purple
chr18:61376841	18	61.37684	0.005969946	Credible Set	purple
chr18:61376921	18	61.37692	0.005969946	Credible Set	purple
chr18:61382329	18	61.38233	0.006741293	Credible Set	purple
chr18:61382496	18	61.38250	0.005969946	Credible Set	purple
chr18:61386134	18	61.38613	0.005697101	Credible Set	purple
chr18:61386274	18	61.38627	0.005969946	Credible Set	purple
chr18:61388160	18	61.38816	0.006259177	Credible Set	purple
chr18:61388169	18	61.38817	0.007260709	Credible Set	purple
chr18:61388197	18	61.38820	0.007148277	Credible Set	purple
chr18:61389384	18	61.38938	0.005988841	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:61392736	18	61.39274	0.002216639	Credible Set	purple
chr18:61392737	18	61.39274	0.002216639	Credible Set	purple
chr18:61392782	18	61.39278	0.002216639	Credible Set	purple
chr18:61392828	18	61.39283	0.002171816	Credible Set	purple
chr18:61392844	18	61.39284	0.002171816	Credible Set	purple
chr18:61400213	18	61.40021	0.005969946	Credible Set	purple
chr18:61415978	18	61.41598	0.006348102	Credible Set	purple
chr18:61421022	18	61.42102	0.021218291	Credible Set	purple
chr18:61421081	18	61.42108	0.021462381	Credible Set	purple
chr18:61434374	18	61.43437	0.005567321	Credible Set	purple
chr18:61435019	18	61.43502	0.004474155	Credible Set	purple
chr18:61435052	18	61.43505	0.004336106	Credible Set	purple
chr18:61466355	18	61.46636	0.007011180	Credible Set	purple
chr18:61466435	18	61.46643	0.004066953	Credible Set	purple
chr18:61466477	18	61.46648	0.004009173	Credible Set	purple
chr18:61466745	18	61.46675	0.003794946	Credible Set	purple
chr18:61475793	18	61.47579	0.005003903	Credible Set	purple
chr18:61475799	18	61.47580	0.005003903	Credible Set	purple
chr18:61475844	18	61.47584	0.005582395	Credible Set	purple
chr18:61488563	18	61.48856	0.003606624	Credible Set	purple
chr18:61488568	18	61.48857	0.003606624	Credible Set	purple
chr18:61488569	18	61.48857	0.003606624	Credible Set	purple
chr18:61488585	18	61.48859	0.005969946	Credible Set	purple
chr18:61488640	18	61.48864	0.008877543	Credible Set	purple
chr18:61488644	18	61.48864	0.008877543	Credible Set	purple
chr18:61497425	18	61.49742	0.010461353	Credible Set	purple
chr18:61502586	18	61.50259	0.004116200	Credible Set	purple
chr18:61505684	18	61.50568	0.003667400	Credible Set	purple
chr18:61505787	18	61.50579	0.003694007	Credible Set	purple
chr18:61506314	18	61.50631	0.004005741	Credible Set	purple
chr18:61506364	18	61.50636	0.003249537	Credible Set	purple
chr18:61506393	18	61.50639	0.003338023	Credible Set	purple
chr18:61513675	18	61.51367	0.005053807	Credible Set	purple
chr18:61513686	18	61.51369	0.005121434	Credible Set	purple
chr18:61514087	18	61.51409	0.012051866	Credible Set	purple
chr18:61514093	18	61.51409	0.012088210	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:61518663	18	61.51866	0.006551351	Credible Set	purple
chr18:61522253	18	61.52225	0.004134208	Credible Set	purple
chr18:61522261	18	61.52226	0.004081616	Credible Set	purple
chr18:61556863	18	61.55686	0.010791463	Credible Set	purple
chr18:61600372	18	61.60037	0.007326827	Credible Set	purple
chr18:61600381	18	61.60038	0.007297248	Credible Set	purple
chr18:61600401	18	61.60040	0.007302610	Credible Set	purple
chr18:61600428	18	61.60043	0.007315662	Credible Set	purple
chr18:61600547	18	61.60055	0.011113437	Credible Set	purple
chr18:61600608	18	61.60061	0.011132748	Credible Set	purple
chr18:61634745	18	61.63475	0.006181847	Credible Set	purple
chr18:61634869	18	61.63487	0.006592431	Credible Set	purple
chr18:61635121	18	61.63512	0.001412198	Credible Set	purple
chr18:61635169	18	61.63517	0.001379070	Credible Set	purple
chr18:61653762	18	61.65376	0.008072224	Credible Set	purple
chr18:61654922	18	61.65492	0.008071189	Credible Set	purple
chr18:61654978	18	61.65498	0.018033908	Credible Set	purple
chr18:61655005	18	61.65501	0.017658601	Credible Set	purple
chr18:61655044	18	61.65504	0.067766511	Credible Set	purple
chr18:61655445	18	61.65545	0.007365164	Credible Set	purple
chr18:61688361	18	61.68836	0.015176045	Credible Set	purple
chr18:61688363	18	61.68836	0.015252225	Credible Set	purple
chr18:61688400	18	61.68840	0.015014264	Credible Set	purple
chr18:61693349	18	61.69335	0.002842604	Credible Set	purple
chr18:61706715	18	61.70672	0.004681497	Credible Set	purple
chr18:61707062	18	61.70706	0.006397523	Credible Set	purple
chr18:61707121	18	61.70712	0.006710377	Credible Set	purple
chr18:61722238	18	61.72224	0.006544158	Credible Set	purple
chr18:61722262	18	61.72226	0.005921844	Credible Set	purple
chr18:61726167	18	61.72617	0.005999756	Credible Set	purple
chr18:61726194	18	61.72619	0.006024756	Credible Set	purple
chr18:61726206	18	61.72621	0.005999756	Credible Set	purple
chr18:61726239	18	61.72624	0.005859850	Credible Set	purple
chr18:61737597	18	61.73760	0.002605931	Credible Set	purple
chr18:61737612	18	61.73761	0.002596645	Credible Set	purple
chr18:61737626	18	61.73763	0.002587908	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:61737739	18	61.73774	0.006042115	Credible Set	purple
chr18:61752870	18	61.75287	0.002491824	Credible Set	purple
chr18:61752916	18	61.75292	0.002042854	Credible Set	purple
chr18:61766474	18	61.76647	0.003275071	Credible Set	purple
chr18:61773121	18	61.77312	0.002695951	Credible Set	purple
chr18:61773529	18	61.77353	0.002488509	Credible Set	purple
chr18:61773667	18	61.77367	0.001992165	Credible Set	purple
chr18:61773688	18	61.77369	0.001957495	Credible Set	purple
chr18:61773748	18	61.77375	0.001957495	Credible Set	purple
chr18:61774150	18	61.77415	0.002437604	Credible Set	purple
chr18:61774277	18	61.77428	0.002469121	Credible Set	purple
chr18:61785401	18	61.78540	0.002463153	Credible Set	purple
chr18:61785450	18	61.78545	0.002451525	Credible Set	purple
chr18:61785465	18	61.78547	0.002445143	Credible Set	purple
chr18:61786082	18	61.78608	0.002443676	Credible Set	purple
chr18:61786403	18	61.78640	0.002551589	Credible Set	purple
chr18:61790408	18	61.79041	0.002564550	Credible Set	purple
chr18:61790488	18	61.79049	0.002364411	Credible Set	purple
chr18:61791422	18	61.79142	0.002508820	Credible Set	purple
chr18:61792239	18	61.79224	0.001755982	Credible Set	purple
chr18:61792326	18	61.79233	0.002617102	Credible Set	purple
chr18:61795073	18	61.79507	0.003692253	Credible Set	purple
chr18:61795217	18	61.79522	0.002538919	Credible Set	purple
chr18:61795218	18	61.79522	0.002538919	Credible Set	purple
chr18:61795225	18	61.79523	0.002538919	Credible Set	purple
chr18:61795296	18	61.79530	0.004117110	Credible Set	purple
chr18:61795298	18	61.79530	0.004350738	Credible Set	purple
chr18:61832086	18	61.83209	0.003770205	Credible Set	purple
chr18:61847573	18	61.84757	0.003388558	Credible Set	purple
chr18:61847582	18	61.84758	0.003248936	Credible Set	purple
chr18:61847690	18	61.84769	0.003151108	Credible Set	purple
chr18:61858191	18	61.85819	0.003184572	Credible Set	purple
chr18:61882775	18	61.88278	0.003208489	Credible Set	purple
chr18:61882784	18	61.88278	0.003204335	Credible Set	purple
chr18:61882815	18	61.88282	0.003204335	Credible Set	purple
chr18:61882830	18	61.88283	0.003204335	Credible Set	purple

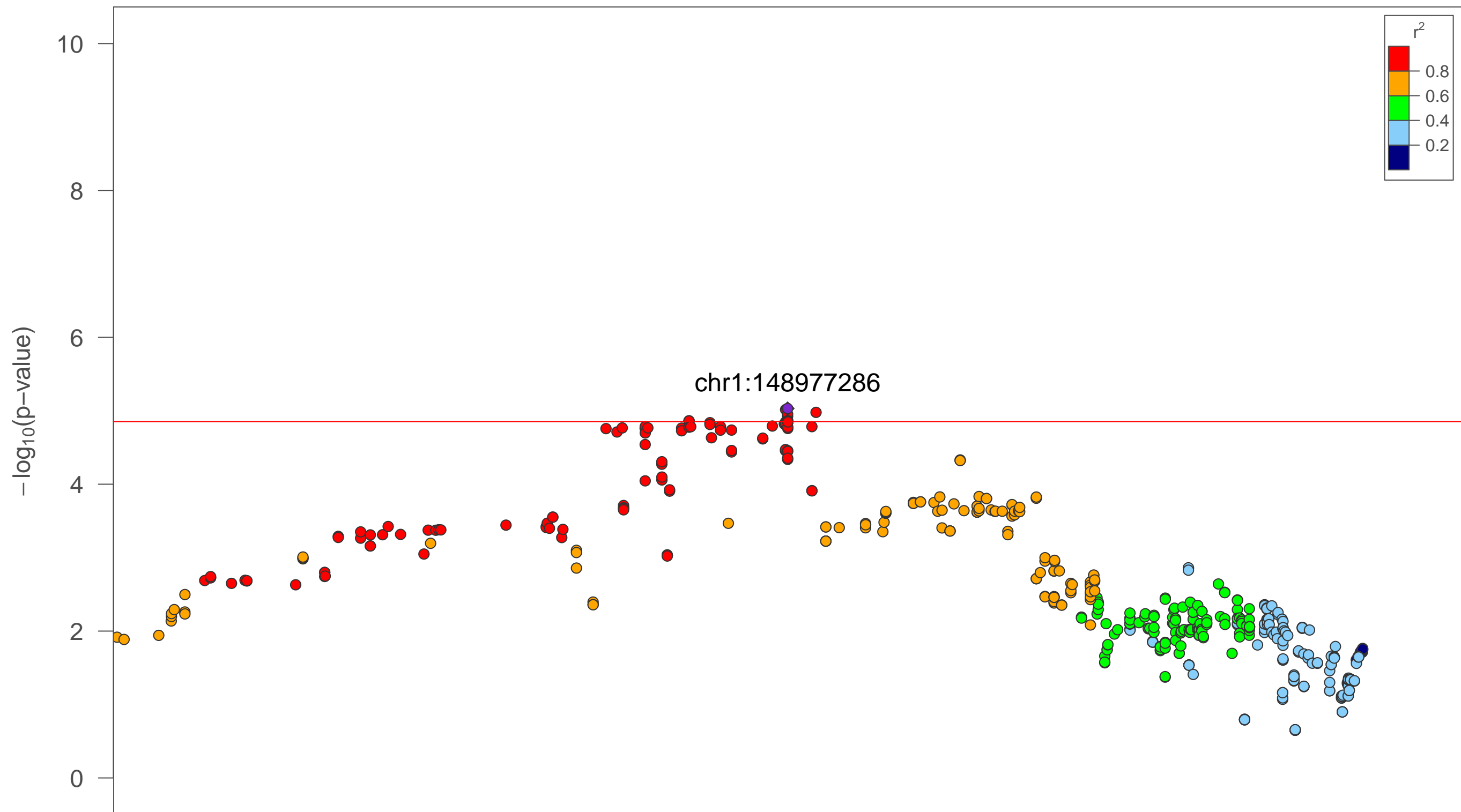
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:61890944	18	61.89094	0.004054650	Credible Set	purple
chr18:61891389	18	61.89139	0.003143261	Credible Set	purple
chr18:61891400	18	61.89140	0.003273676	Credible Set	purple
chr18:61917922	18	61.91792	0.002036727	Credible Set	purple
chr18:61921624	18	61.92162	0.002492555	Credible Set	purple
chr18:61921661	18	61.92166	0.002604104	Credible Set	purple
chr18:61921694	18	61.92169	0.002562519	Credible Set	purple
chr18:61922273	18	61.92227	0.001533529	Credible Set	purple
chr18:61927547	18	61.92755	0.002698341	Credible Set	purple
chr18:61936945	18	61.93695	0.003369307	Credible Set	purple
chr18:61949121	18	61.94912	0.002893394	Credible Set	purple
chr18:61952249	18	61.95225	0.002664253	Credible Set	purple
chr18:61952524	18	61.95252	0.002634229	Credible Set	purple
chr18:61952649	18	61.95265	0.004964955	Credible Set	purple
chr18:61971767	18	61.97177	0.001571504	Credible Set	purple
chr18:61973442	18	61.97344	0.001457635	Credible Set	purple
chr18:61973478	18	61.97348	0.001453488	Credible Set	purple
chr18:61991352	18	61.99135	0.002582605	Credible Set	purple
chr18:61991384	18	61.99138	0.002590106	Credible Set	purple
chr18:61992210	18	61.99221	0.002947759	Credible Set	purple
chr18:61992519	18	61.99252	0.002740291	Credible Set	purple
chr18:61999716	18	61.99972	0.002319199	Credible Set	purple
chr18:62021643	18	62.02164	0.003763327	Credible Set	purple
chr18:62021683	18	62.02168	0.003719783	Credible Set	purple
chr18:62022099	18	62.02210	0.003465092	Credible Set	purple
chr18:62051825	18	62.05183	0.002490355	Credible Set	purple
chr18:62051845	18	62.05185	0.002321060	Credible Set	purple
chr18:62055840	18	62.05584	0.003121373	Credible Set	purple
chr18:62055876	18	62.05588	0.003121373	Credible Set	purple
chr18:62055905	18	62.05591	0.003106380	Credible Set	purple
chr18:62059126	18	62.05913	0.001941320	Credible Set	purple
chr18:62059178	18	62.05918	0.001973137	Credible Set	purple
chr18:62085794	18	62.08579	0.003906365	Credible Set	purple
chr18:62085799	18	62.08580	0.003906365	Credible Set	purple
chr18:62085840	18	62.08584	0.003906365	Credible Set	purple
chr18:62092239	18	62.09224	0.002169119	Credible Set	purple

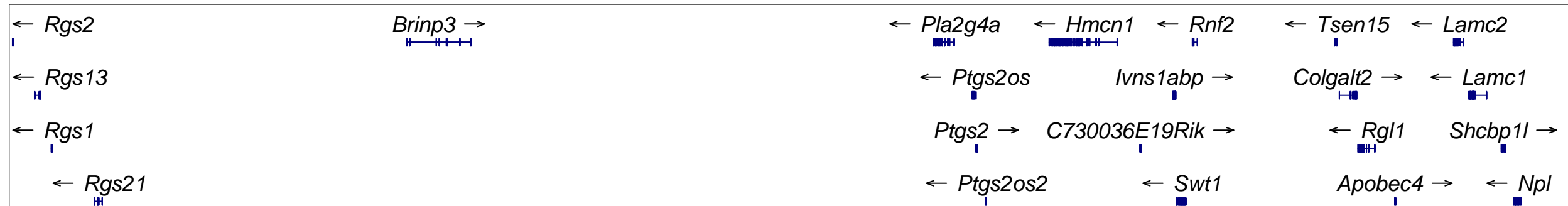
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:62110682	18	62.11068	0.005086505	Credible Set	purple
chr18:62137890	18	62.13789	0.002512666	Credible Set	purple
chr18:62137914	18	62.13791	0.002512666	Credible Set	purple
chr18:62147016	18	62.14702	0.002558800	Credible Set	purple
chr18:62148467	18	62.14847	0.002515514	Credible Set	purple
chr18:62151389	18	62.15139	0.002438614	Credible Set	purple
chr18:62167241	18	62.16724	0.002489034	Credible Set	purple
chr18:62167915	18	62.16792	0.002047695	Credible Set	purple
chr18:62263390	18	62.26339	0.002328210	Credible Set	purple
chr18:62400951	18	62.40095	0.002008048	Credible Set	purple
chr18:62401009	18	62.40101	0.001472867	Credible Set	purple
chr18:62425156	18	62.42516	0.001508041	Credible Set	purple
chr18:62431611	18	62.43161	0.001468718	Credible Set	purple
chr18:62431828	18	62.43183	0.001476917	Credible Set	purple

F34 GBS, routine CBC hemoglobin



Credible Set



27 genes
omitted

144

146

148

150

152

Position on chr1 (Mb)

date: Thu Oct 25 17:05:22 2018

build: F34GBS

display range: chr1:143977286–153977286 [143977286–153977286]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:148977286

number of SNPs plotted: 507

min P-value: 9.3E–6 [chr1:148977286]

max P-value: 2.24E–1 [chr1:152741578]

omitted Genes: Rgs18, Pdc, 2310030A07Rik

omitted Genes: BC003331, Tpr, Prg4

omitted Genes: Trmt1l, Mir7682, Fam129a

omitted Genes: Edem3, 1700025G04Rik, Arpc5

omitted Genes: Ncf2, Smg7, Nmnat2

omitted Genes: E330020D12Rik, Dhx9, Rgs8

omitted Genes: C230024C17Rik, Rgs16, Rnasel

omitted Genes: Rgs11, Teddm2, Teddm1b

omitted Genes: Teddm1a, Mir8114, Glul

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:145811289	1	145.8113	0.0008577369	Credible Set	purple
chr1:145973832	1	145.9738	0.0007888857	Credible Set	purple
chr1:146015408	1	146.0154	0.0010040533	Credible Set	purple
chr1:146107352	1	146.1074	0.0007967460	Credible Set	purple
chr1:146312032	1	146.3120	0.0009021361	Credible Set	purple
chr1:146368627	1	146.3686	0.0008993730	Credible Set	purple
chr1:146391182	1	146.3912	0.0009119973	Credible Set	purple
chr1:146391258	1	146.3913	0.0009119973	Credible Set	purple
chr1:146405751	1	146.4058	0.0009091695	Credible Set	purple
chr1:146889105	1	146.8891	0.0010454772	Credible Set	purple
chr1:147187489	1	147.1875	0.0010033201	Credible Set	purple
chr1:147187492	1	147.1875	0.0009753461	Credible Set	purple
chr1:147194857	1	147.1949	0.0011050430	Credible Set	purple
chr1:147211205	1	147.2112	0.0009529823	Credible Set	purple
chr1:147236178	1	147.2362	0.0013229254	Credible Set	purple
chr1:147236210	1	147.2362	0.0013215781	Credible Set	purple
chr1:147310927	1	147.3109	0.0009236106	Credible Set	purple
chr1:147630646	1	147.6306	0.0182459695	Credible Set	purple
chr1:147712367	1	147.7124	0.0165009220	Credible Set	purple
chr1:147751084	1	147.7511	0.0186180085	Credible Set	purple
chr1:147760964	1	147.7610	0.0018628660	Credible Set	purple
chr1:147760989	1	147.7610	0.0017353471	Credible Set	purple
chr1:147761018	1	147.7610	0.0017136111	Credible Set	purple
chr1:147761024	1	147.7610	0.0016379357	Credible Set	purple
chr1:147921174	1	147.9212	0.0113437693	Credible Set	purple
chr1:147921280	1	147.9213	0.0038550808	Credible Set	purple
chr1:147921379	1	147.9214	0.0184018429	Credible Set	purple
chr1:147921380	1	147.9214	0.0184305278	Credible Set	purple
chr1:147921465	1	147.9215	0.0193593349	Credible Set	purple
chr1:147921979	1	147.9220	0.0160262666	Credible Set	purple
chr1:147940897	1	147.9409	0.0186561195	Credible Set	purple
chr1:148044707	1	148.0447	0.0063120964	Credible Set	purple
chr1:148044765	1	148.0448	0.0067958992	Credible Set	purple
chr1:148045257	1	148.0453	0.0039575226	Credible Set	purple
chr1:148045260	1	148.0453	0.0043140694	Credible Set	purple
chr1:148102161	1	148.1022	0.0028430468	Credible Set	purple

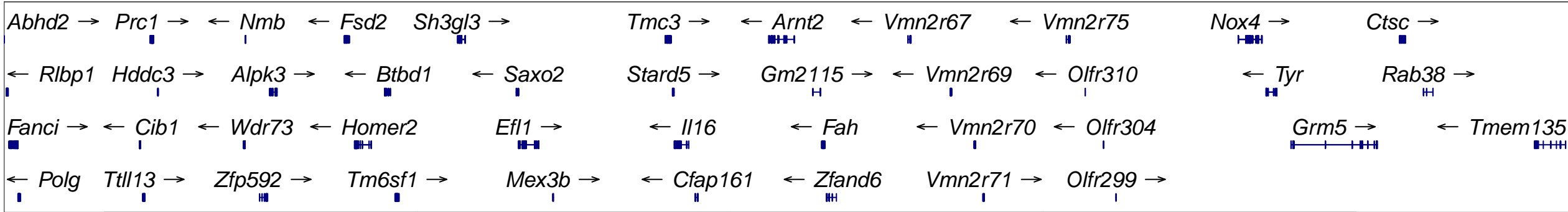
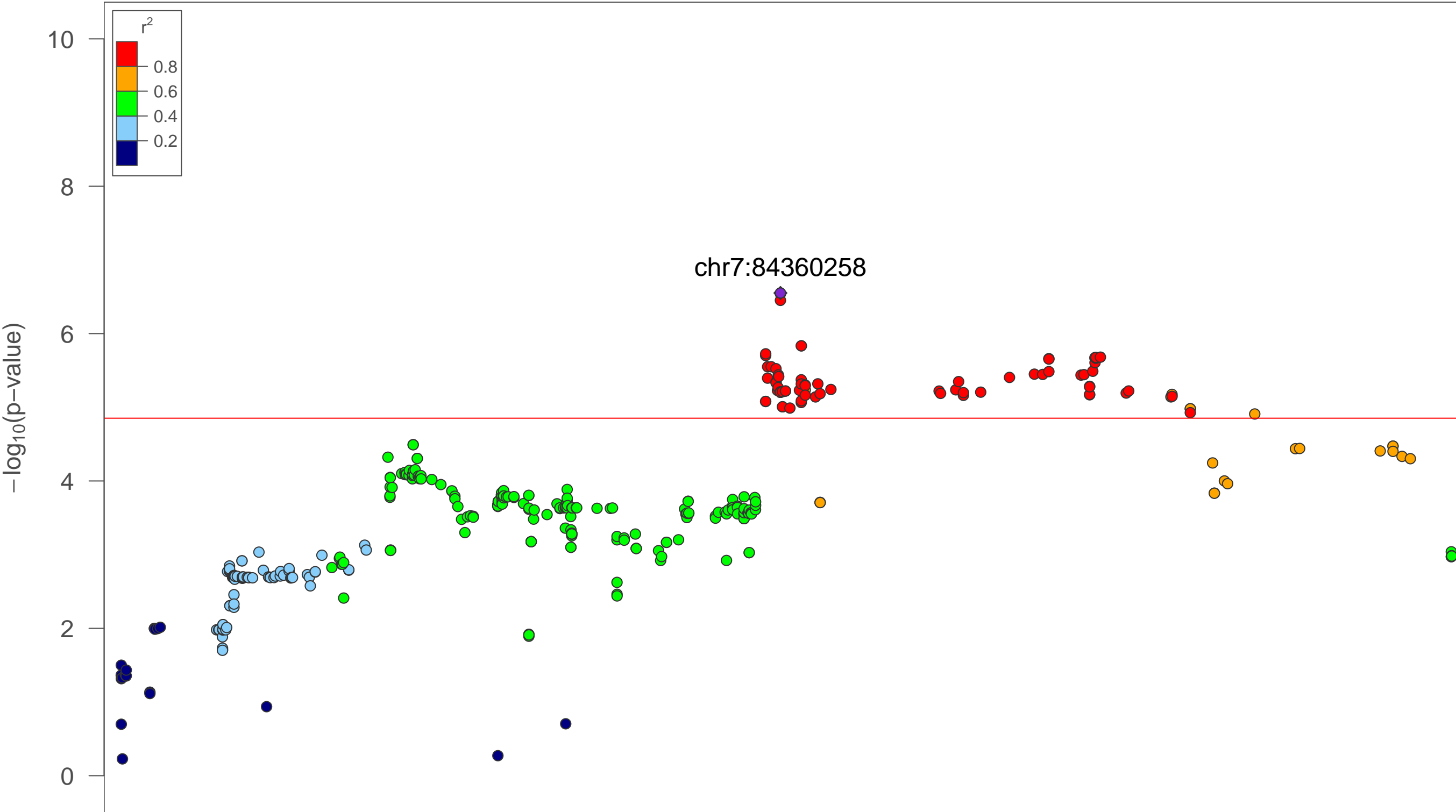
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:148102208	1	148.1022	0.002957991	Credible Set	purple
chr1:148191398	1	148.1914	0.018498438	Credible Set	purple
chr1:148191461	1	148.1915	0.017098490	Credible Set	purple
chr1:148246268	1	148.2463	0.023058953	Credible Set	purple
chr1:148246270	1	148.2463	0.022938019	Credible Set	purple
chr1:148246308	1	148.2463	0.022938019	Credible Set	purple
chr1:148246370	1	148.2464	0.019034858	Credible Set	purple
chr1:148259002	1	148.2590	0.019304910	Credible Set	purple
chr1:148401594	1	148.4016	0.021791085	Credible Set	purple
chr1:148401658	1	148.4017	0.020635979	Credible Set	purple
chr1:148412829	1	148.4128	0.013877302	Credible Set	purple
chr1:148479166	1	148.4792	0.019399154	Credible Set	purple
chr1:148479488	1	148.4795	0.017410552	Credible Set	purple
chr1:148561626	1	148.5616	0.017452817	Credible Set	purple
chr1:148561643	1	148.5616	0.009100144	Credible Set	purple
chr1:148561679	1	148.5617	0.009496714	Credible Set	purple
chr1:148793161	1	148.7932	0.013416499	Credible Set	purple
chr1:148793216	1	148.7932	0.013720055	Credible Set	purple
chr1:148864191	1	148.8642	0.019700105	Credible Set	purple
chr1:148954162	1	148.9542	0.020982278	Credible Set	purple
chr1:148954168	1	148.9542	0.020982278	Credible Set	purple
chr1:148954207	1	148.9542	0.020982278	Credible Set	purple
chr1:148961834	1	148.9618	0.009444397	Credible Set	purple
chr1:148961852	1	148.9619	0.009767569	Credible Set	purple
chr1:148962391	1	148.9624	0.022250022	Credible Set	purple
chr1:148962448	1	148.9624	0.021115456	Credible Set	purple
chr1:148962557	1	148.9626	0.032215213	Credible Set	purple
chr1:148977255	1	148.9773	0.026336507	Credible Set	purple
chr1:148977279	1	148.9773	0.028310124	Credible Set	purple
chr1:148977286	1	148.9773	0.033309888	Credible Set	purple
chr1:148977945	1	148.9779	0.009454303	Credible Set	purple
chr1:148977976	1	148.9780	0.009250681	Credible Set	purple
chr1:148977977	1	148.9780	0.007291518	Credible Set	purple
chr1:148977984	1	148.9780	0.007549454	Credible Set	purple
chr1:148978648	1	148.9786	0.023116484	Credible Set	purple
chr1:148978689	1	148.9787	0.022578943	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:148978796	1	148.9788	0.022166155	Credible Set	purple
chr1:148978842	1	148.9788	0.018304987	Credible Set	purple
chr1:148978923	1	148.9789	0.019015093	Credible Set	purple
chr1:148979220	1	148.9792	0.022250380	Credible Set	purple
chr1:149157510	1	149.1575	0.019350960	Credible Set	purple
chr1:149157713	1	149.1577	0.002885141	Credible Set	purple
chr1:149157735	1	149.1577	0.002866823	Credible Set	purple
chr1:149188240	1	149.1882	0.029664902	Credible Set	purple

F34 GBS, routine CBC hemoglobin



78 genes
omitted

date: Thu Oct 25 17:05:33 2018
build: F34GBS
display range: chr7:79360258–89360258 [79360258–89360258]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84360258
number of SNPs plotted: 391
min P-value: 2.81E–7 [chr7:84360258]
max P-value: 5.91E–1 [chr7:79496275]
omitted Genes: Mir9–3hg, Mir9–3, Rhcg
omitted Genes: Ticrr, Kif7, Plin1
omitted Genes: Pex11a, Wdr93, Mesp1
omitted Genes: Mesp2, Anpep, Ap3s2
omitted Genes: Arpin, Zfp710, Gm21057
omitted Genes: Idh2, Sema4b, Gdpgp1
omitted Genes: Ngrn, Vps33b, Rccd1
omitted Genes: Unc45a, Man2a2, Fes
omitted Genes: Furin, Blm, Crtc3
omitted Genes: Gm15880, Iqgap1, Zscan2
omitted Genes: Sec11a, Slc28a1, Pde8a
omitted Genes: Rps17, Cpeb1, Ap3b2
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Hdgfrp3, Bnc1, Gm20744
omitted Genes: Adamtsl3, 4933406J10Rik, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79

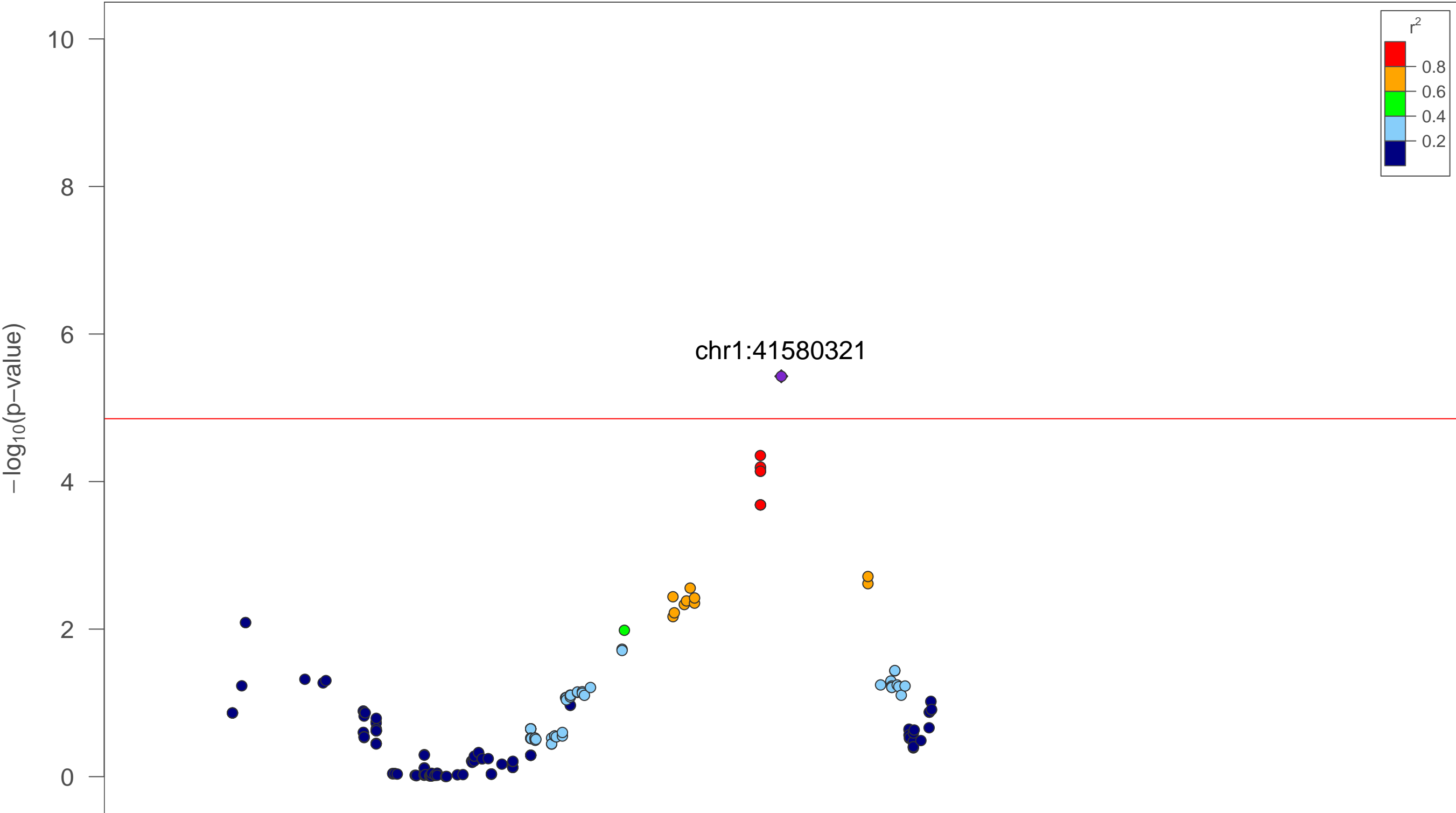
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.004369210	Credible Set	purple
chr7:84251011	7	84.25101	0.004389647	Credible Set	purple
chr7:84251159	7	84.25116	0.017322996	Credible Set	purple
chr7:84251209	7	84.25121	0.018238578	Credible Set	purple
chr7:84265410	7	84.26541	0.008791376	Credible Set	purple
chr7:84265685	7	84.26569	0.012380497	Credible Set	purple
chr7:84291540	7	84.29154	0.012397689	Credible Set	purple
chr7:84327288	7	84.32729	0.011673098	Credible Set	purple
chr7:84327808	7	84.32781	0.007835286	Credible Set	purple
chr7:84327850	7	84.32785	0.007649291	Credible Set	purple
chr7:84338595	7	84.33859	0.006078888	Credible Set	purple
chr7:84343118	7	84.34312	0.006637969	Credible Set	purple
chr7:84344805	7	84.34480	0.009692791	Credible Set	purple
chr7:84347423	7	84.34742	0.009211168	Credible Set	purple
chr7:84360038	7	84.36004	0.005835539	Credible Set	purple
chr7:84360224	7	84.36022	0.111211961	Credible Set	purple
chr7:84360247	7	84.36025	0.112493837	Credible Set	purple
chr7:84360258	7	84.36026	0.113748596	Credible Set	purple
chr7:84360279	7	84.36028	0.091143796	Credible Set	purple
chr7:84360626	7	84.36063	0.005773288	Credible Set	purple
chr7:84360642	7	84.36064	0.005773288	Credible Set	purple
chr7:84360703	7	84.36070	0.005773288	Credible Set	purple
chr7:84360714	7	84.36071	0.005773288	Credible Set	purple
chr7:84360716	7	84.36072	0.005773288	Credible Set	purple
chr7:84375526	7	84.37553	0.005862583	Credible Set	purple
chr7:84375577	7	84.37558	0.003735568	Credible Set	purple
chr7:84375642	7	84.37564	0.003735568	Credible Set	purple
chr7:84397575	7	84.39758	0.005982792	Credible Set	purple
chr7:84397597	7	84.39760	0.005982792	Credible Set	purple
chr7:84501082	7	84.50108	0.006122093	Credible Set	purple
chr7:84514082	7	84.51408	0.004245872	Credible Set	purple
chr7:84514444	7	84.51444	0.008375030	Credible Set	purple
chr7:84514505	7	84.51450	0.007391224	Credible Set	purple
chr7:84514564	7	84.51456	0.023163768	Credible Set	purple
chr7:84514575	7	84.51457	0.023206018	Credible Set	purple
chr7:84514734	7	84.51473	0.004472572	Credible Set	purple

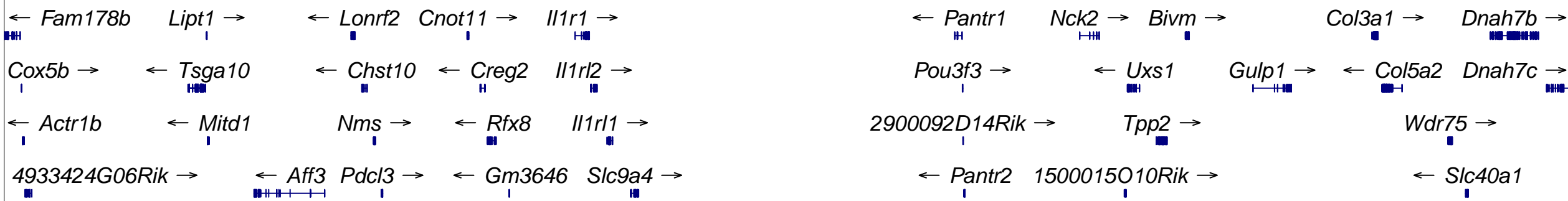
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84543346	7	84.54335	0.007165240	Credible Set	purple
chr7:84543355	7	84.54336	0.007023433	Credible Set	purple
chr7:84543782	7	84.54378	0.005281014	Credible Set	purple
chr7:84619632	7	84.61963	0.005012820	Credible Set	purple
chr7:84636759	7	84.63676	0.007415041	Credible Set	purple
chr7:84653095	7	84.65309	0.005521391	Credible Set	purple
chr7:84733186	7	84.73319	0.006266030	Credible Set	purple
chr7:85533207	7	85.53321	0.005977768	Credible Set	purple
chr7:85543843	7	85.54384	0.005573826	Credible Set	purple
chr7:85656243	7	85.65624	0.006198745	Credible Set	purple
chr7:85677494	7	85.67749	0.007926949	Credible Set	purple
chr7:85712663	7	85.71266	0.005255469	Credible Set	purple
chr7:85712975	7	85.71298	0.005700249	Credible Set	purple
chr7:85840665	7	85.84067	0.005779641	Credible Set	purple
chr7:86053386	7	86.05339	0.008986956	Credible Set	purple
chr7:86237374	7	86.23737	0.009910253	Credible Set	purple
chr7:86298979	7	86.29898	0.009829927	Credible Set	purple
chr7:86344420	7	86.34442	0.015774234	Credible Set	purple
chr7:86344437	7	86.34444	0.015571005	Credible Set	purple
chr7:86344488	7	86.34449	0.010698252	Credible Set	purple
chr7:86582139	7	86.58214	0.009631569	Credible Set	purple
chr7:86603770	7	86.60377	0.009763695	Credible Set	purple
chr7:86645719	7	86.64572	0.005342458	Credible Set	purple
chr7:86645792	7	86.64579	0.005397533	Credible Set	purple
chr7:86645947	7	86.64595	0.006879130	Credible Set	purple
chr7:86645990	7	86.64599	0.006780100	Credible Set	purple
chr7:86668998	7	86.66900	0.010806677	Credible Set	purple
chr7:86685648	7	86.68565	0.013988330	Credible Set	purple
chr7:86692214	7	86.69221	0.015974588	Credible Set	purple
chr7:86692491	7	86.69249	0.016372079	Credible Set	purple
chr7:86725518	7	86.72552	0.016501220	Credible Set	purple
chr7:86916161	7	86.91616	0.005627650	Credible Set	purple
chr7:86934710	7	86.93471	0.005992317	Credible Set	purple
chr7:87255156	7	87.25516	0.005102177	Credible Set	purple

F34 GBS, routine CBC hematocrit



Credible Set



44 genes
omitted

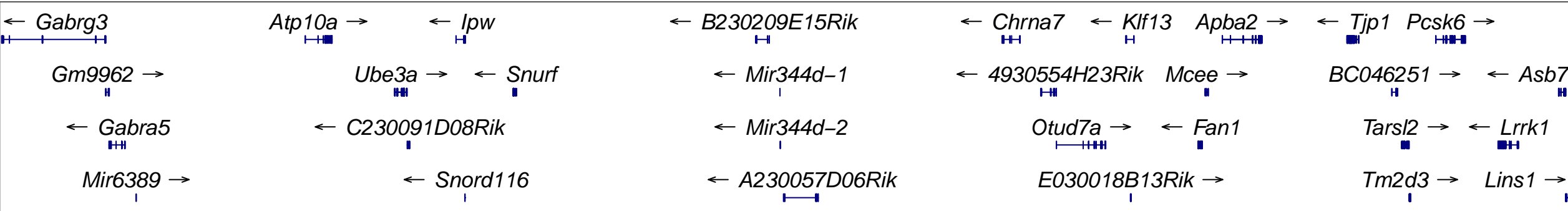
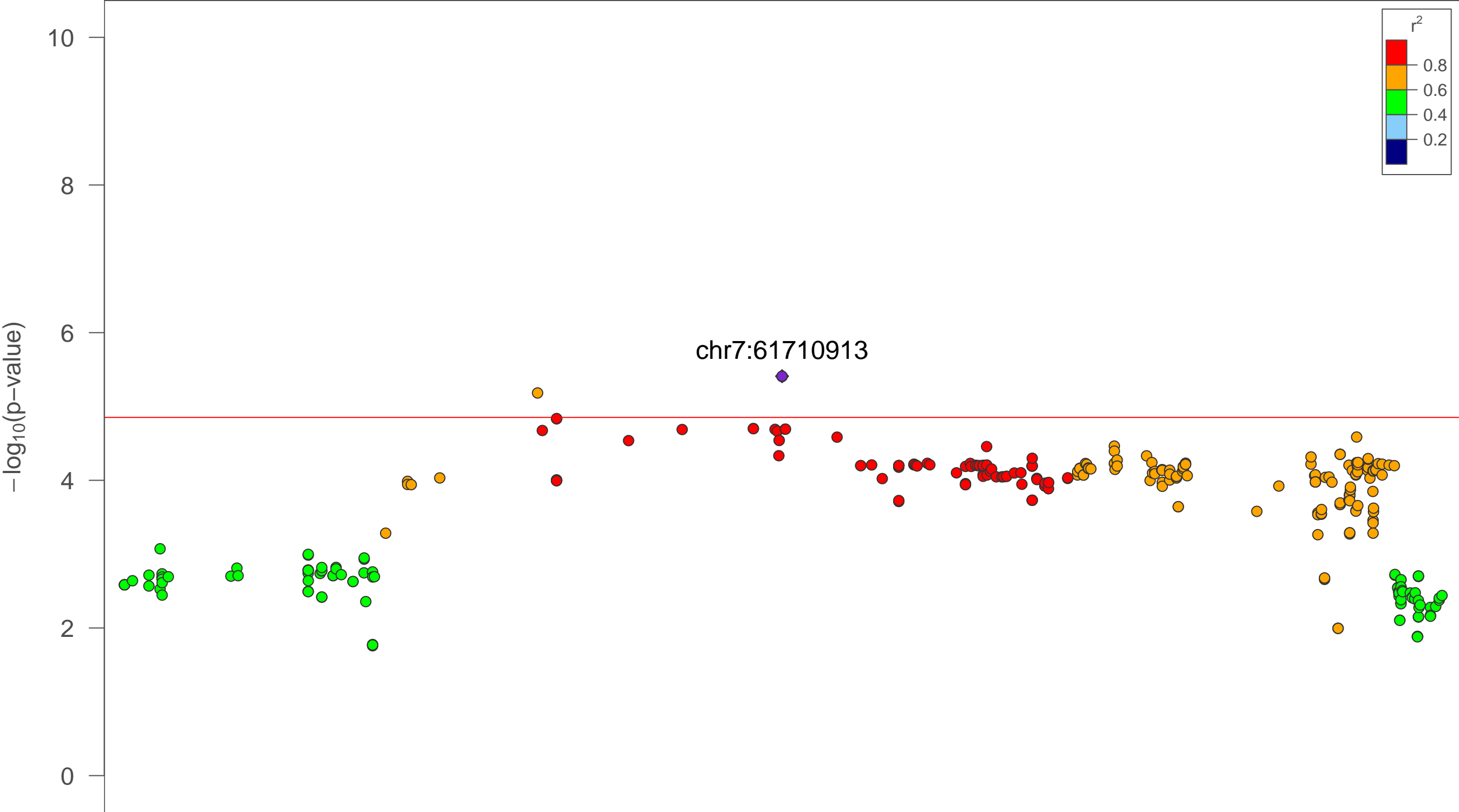
Position on chr1 (Mb)

date: Thu Oct 25 17:10:49 2018
build: F34GBS
display range: chr1:36580321–46580321 [36580321–46580321]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:41580321
number of SNPs plotted: 187
min P-value: 3.74E–6 [chr1:41580321]
max P-value: 9.96E–1 [chr1:39101479]
omitted Genes: Zap70, Tmem131, Cnga3
omitted Genes: Inpp4a, Coa5, Unc50
omitted Genes: Mgat4a, 4930594C11Rik, 2010300C02Rik
omitted Genes: Mrpl30, Lyg2, Lyg1
omitted Genes: Txndc9, Eif5b, Rev1
omitted Genes: Mir6349, Npas2, Rpl31
omitted Genes: Tbc1d8, Snord89, Rnf149
omitted Genes: 1700066B17Rik, Map4k4, Gm16894
omitted Genes: Il1r2, Il18r1, Il18rap
omitted Genes: Slc9a2, Mfsd9, Tmem182
omitted Genes: 4930448I06Rik, Dalir, Mrps9
omitted Genes: Gpr45, Tgfbrap1, AI597479
omitted Genes: Fhl2, Mettl21c, Tex30
omitted Genes: Kdelc1, Ercc5, Mettl21e
omitted Genes: 4930521E06Rik, Stk-ps2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:41425834	1	41.42583	0.06690913	Credible Set	purple
chr1:41426242	1	41.42624	0.04624021	Credible Set	purple
chr1:41426343	1	41.42634	0.01563230	Credible Set	purple
chr1:41426398	1	41.42640	0.01563230	Credible Set	purple
chr1:41426422	1	41.42642	0.01563230	Credible Set	purple
chr1:41426449	1	41.42645	0.04767386	Credible Set	purple
chr1:41426503	1	41.42650	0.04195553	Credible Set	purple
chr1:41426526	1	41.42653	0.04211278	Credible Set	purple
chr1:41580321	1	41.58032	0.70821160	Credible Set	purple

F34 GBS, routine CBC mean corpuscular hemoglobin



36 genes
omitted

date: Thu Oct 25 17:11:36 2018
build: F34GBS
display range: chr7:56710913–66710913 [56710913–66710913]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:61710913
number of SNPs plotted: 336
min P-value: 3.89E–6 [chr7:61710913]
max P-value: 1.74E–2 [chr7:58690611]
omitted Genes: Gabrb3, Snord116l2, Snord116l1
omitted Genes: Snhg14, Snord64, Snrpn
omitted Genes: Gm7367, Mir344d–3, Mir344e
omitted Genes: Mir344h–1, Mir344h–2, Mir344b
omitted Genes: Mir344c, Mir344, Mir344–2
omitted Genes: A330076H08Rik, Mir344g, Mir344f
omitted Genes: Mir344i, Ndn, Magel2
omitted Genes: Mkrn3, Peg12, Trpm1
omitted Genes: Mir211, Mir6416, Mtmr10
omitted Genes: Mphosph10, Fam189a1, Ndnl2
omitted Genes: 1810008I18Rik, Snrpa1, Vimp
omitted Genes: Chsy1, Mir7057, Aldh1a3

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:59942572	7	59.94257	0.022251592	Credible Set	purple
chr7:60047736	7	60.04774	0.005072398	Credible Set	purple
chr7:60047743	7	60.04774	0.005167092	Credible Set	purple
chr7:60047769	7	60.04777	0.005094818	Credible Set	purple
chr7:60047773	7	60.04777	0.005027397	Credible Set	purple
chr7:60047999	7	60.04800	0.031474306	Credible Set	purple
chr7:60048040	7	60.04804	0.031730538	Credible Set	purple
chr7:60578939	7	60.57894	0.016483308	Credible Set	purple
chr7:60974140	7	60.97414	0.022912960	Credible Set	purple
chr7:61499181	7	61.49918	0.023608267	Credible Set	purple
chr7:61499595	7	61.49959	0.023454797	Credible Set	purple
chr7:61659201	7	61.65920	0.023000487	Credible Set	purple
chr7:61675494	7	61.67549	0.021831864	Credible Set	purple
chr7:61687345	7	61.68735	0.010537402	Credible Set	purple
chr7:61689644	7	61.68964	0.016600154	Credible Set	purple
chr7:61689650	7	61.68965	0.016600154	Credible Set	purple
chr7:61710907	7	61.71091	0.111123981	Credible Set	purple
chr7:61710913	7	61.71091	0.112099696	Credible Set	purple
chr7:61733905	7	61.73391	0.023124976	Credible Set	purple
chr7:61736166	7	61.73617	0.023167659	Credible Set	purple
chr7:62116766	7	62.11677	0.018268790	Credible Set	purple
chr7:62291228	7	62.29123	0.007861675	Credible Set	purple
chr7:62291477	7	62.29148	0.007861675	Credible Set	purple
chr7:62371914	7	62.37191	0.008020960	Credible Set	purple
chr7:62450245	7	62.45025	0.005363873	Credible Set	purple
chr7:62571648	7	62.57165	0.007506324	Credible Set	purple
chr7:62572320	7	62.57232	0.007872096	Credible Set	purple
chr7:62572352	7	62.57235	0.007872096	Credible Set	purple
chr7:62572353	7	62.57235	0.007872096	Credible Set	purple
chr7:62684003	7	62.68400	0.008042015	Credible Set	purple
chr7:62684079	7	62.68408	0.008154924	Credible Set	purple
chr7:62684449	7	62.68445	0.008203114	Credible Set	purple
chr7:62696801	7	62.69680	0.007999415	Credible Set	purple
chr7:62706977	7	62.70698	0.007787941	Credible Set	purple
chr7:62782840	7	62.78284	0.008419134	Credible Set	purple
chr7:62800795	7	62.80080	0.008053060	Credible Set	purple

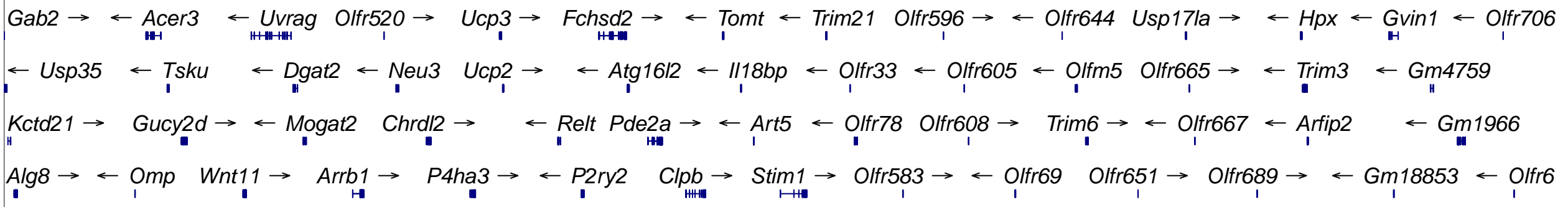
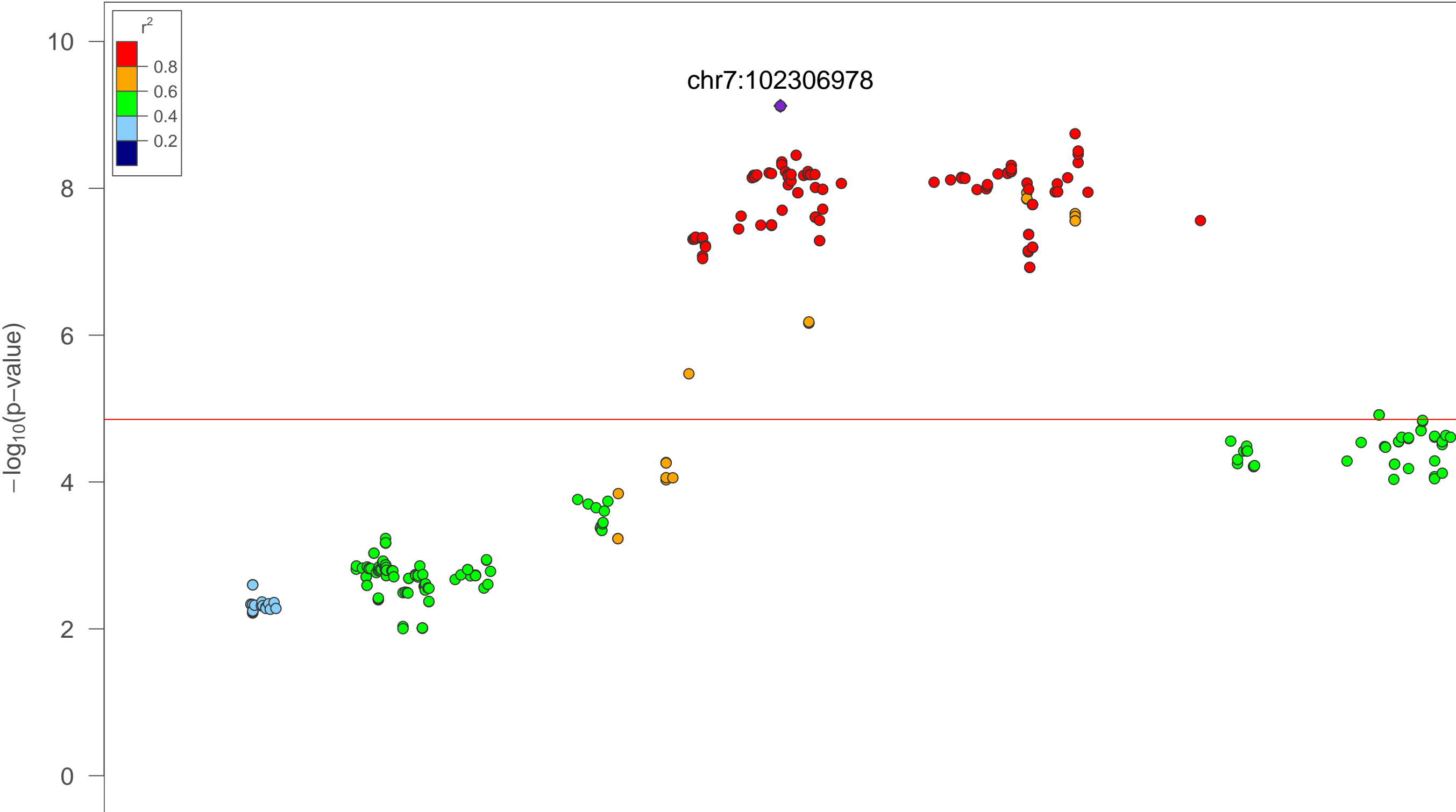
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:62997563	7	62.99756	0.006358640	Credible Set	purple
chr7:63064073	7	63.06407	0.004623203	Credible Set	purple
chr7:63064081	7	63.06408	0.004478329	Credible Set	purple
chr7:63064100	7	63.06410	0.004497934	Credible Set	purple
chr7:63064751	7	63.06475	0.007679605	Credible Set	purple
chr7:63099443	7	63.09944	0.008398832	Credible Set	purple
chr7:63105975	7	63.10598	0.007676573	Credible Set	purple
chr7:63139467	7	63.13947	0.007945851	Credible Set	purple
chr7:63153842	7	63.15384	0.007872096	Credible Set	purple
chr7:63167968	7	63.16797	0.007872096	Credible Set	purple
chr7:63193963	7	63.19396	0.007759763	Credible Set	purple
chr7:63194039	7	63.19404	0.006037196	Credible Set	purple
chr7:63194056	7	63.19406	0.005732830	Credible Set	purple
chr7:63194259	7	63.19426	0.007935149	Credible Set	purple
chr7:63194342	7	63.19434	0.007872096	Credible Set	purple
chr7:63194487	7	63.19449	0.007886203	Credible Set	purple
chr7:63194494	7	63.19449	0.007886203	Credible Set	purple
chr7:63220109	7	63.22011	0.013813942	Credible Set	purple
chr7:63221022	7	63.22102	0.008002939	Credible Set	purple
chr7:63223436	7	63.22344	0.005961252	Credible Set	purple
chr7:63246570	7	63.24657	0.006683077	Credible Set	purple
chr7:63256470	7	63.25647	0.007116144	Credible Set	purple
chr7:63291026	7	63.29103	0.005650557	Credible Set	purple
chr7:63332548	7	63.33255	0.005642547	Credible Set	purple
chr7:63345554	7	63.34555	0.005661611	Credible Set	purple
chr7:63366897	7	63.36690	0.005729901	Credible Set	purple
chr7:63367321	7	63.36732	0.005729901	Credible Set	purple
chr7:63424326	7	63.42433	0.006328016	Credible Set	purple
chr7:63472965	7	63.47297	0.006374090	Credible Set	purple
chr7:63480226	7	63.48023	0.004537845	Credible Set	purple
chr7:63555396	7	63.55540	0.007725729	Credible Set	purple
chr7:63555456	7	63.55546	0.007799817	Credible Set	purple
chr7:63556071	7	63.55607	0.007792293	Credible Set	purple
chr7:63556106	7	63.55611	0.007792293	Credible Set	purple
chr7:63556195	7	63.55620	0.002840500	Credible Set	purple
chr7:63556256	7	63.55626	0.002843255	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:63556415	7	63.55642	0.009769688	Credible Set	purple
chr7:63590413	7	63.59041	0.005388610	Credible Set	purple
chr7:63590941	7	63.59094	0.005365126	Credible Set	purple
chr7:63591000	7	63.59100	0.005214284	Credible Set	purple
chr7:63649222	7	63.64922	0.004414043	Credible Set	purple
chr7:63649227	7	63.64923	0.004306175	Credible Set	purple
chr7:63650750	7	63.65075	0.004683786	Credible Set	purple
chr7:63676214	7	63.67621	0.004782311	Credible Set	purple
chr7:63676590	7	63.67659	0.003980815	Credible Set	purple
chr7:63677624	7	63.67762	0.004767654	Credible Set	purple
chr7:63818257	7	63.81826	0.005387385	Credible Set	purple
chr7:63818340	7	63.81834	0.005490960	Credible Set	purple

F34 GBS, routine CBC mean corpuscular hemoglobin concentration



251 genes
omitted

date: Thu Oct 25 17:11:51 2018

build: F34GBS

display range: chr7:97306978–107306978 [97306978–107306978]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:102306978

number of SNPs plotted: 301

min P-value: 7.53E–10 [chr7:102306978]

max P-value: 9.94E–3 [chr7:99516884]

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Aqp11

omitted Genes: Pak1, Gdpd4, Myo7a

omitted Genes: Capn5, Gm16938, B3gnt6

omitted Genes: Lrrc32, Emsy, Prkrir

omitted Genes: Gm26705, Map6, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr521

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekhhb1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Phox2a, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr549, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

omitted Genes: Olfr569, Olfr570, Olfr571

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.001576280	Credible Set	purple
chr7:101669186	7	101.6692	0.001627721	Credible Set	purple
chr7:101673483	7	101.6735	0.001581352	Credible Set	purple
chr7:101680140	7	101.6801	0.001682982	Credible Set	purple
chr7:101731061	7	101.7311	0.001596039	Credible Set	purple
chr7:101731110	7	101.7311	0.001660867	Credible Set	purple
chr7:101751790	7	101.7518	0.001282302	Credible Set	purple
chr7:101752580	7	101.7526	0.001291531	Credible Set	purple
chr7:101752971	7	101.7530	0.001254355	Credible Set	purple
chr7:101998679	7	101.9987	0.002156079	Credible Set	purple
chr7:102016307	7	102.0163	0.003192659	Credible Set	purple
chr7:102098054	7	102.0981	0.010253204	Credible Set	purple
chr7:102110109	7	102.1101	0.011040329	Credible Set	purple
chr7:102110501	7	102.1105	0.011050674	Credible Set	purple
chr7:102116318	7	102.1163	0.010660109	Credible Set	purple
chr7:102116430	7	102.1164	0.010660109	Credible Set	purple
chr7:102116478	7	102.1165	0.010555237	Credible Set	purple
chr7:102132562	7	102.1326	0.011196897	Credible Set	purple
chr7:102162058	7	102.1621	0.002421824	Credible Set	purple
chr7:102223396	7	102.2234	0.011906611	Credible Set	purple
chr7:102240695	7	102.2407	0.011670182	Credible Set	purple
chr7:102241191	7	102.2412	0.002444228	Credible Set	purple
chr7:102241211	7	102.2412	0.002396435	Credible Set	purple
chr7:102241212	7	102.2412	0.002438744	Credible Set	purple
chr7:102306968	7	102.3070	0.090949863	Credible Set	purple
chr7:102306978	7	102.3070	0.092233491	Credible Set	purple
chr7:102317213	7	102.3172	0.016661476	Credible Set	purple
chr7:102317246	7	102.3172	0.015248052	Credible Set	purple
chr7:102319586	7	102.3196	0.003814712	Credible Set	purple
chr7:102344970	7	102.3450	0.012334078	Credible Set	purple
chr7:102363897	7	102.3639	0.011227081	Credible Set	purple
chr7:102364204	7	102.3642	0.010507328	Credible Set	purple
chr7:102364223	7	102.3642	0.011395775	Credible Set	purple
chr7:102364315	7	102.3643	0.010787722	Credible Set	purple
chr7:102364326	7	102.3643	0.010787722	Credible Set	purple
chr7:102364411	7	102.3644	0.008270994	Credible Set	purple

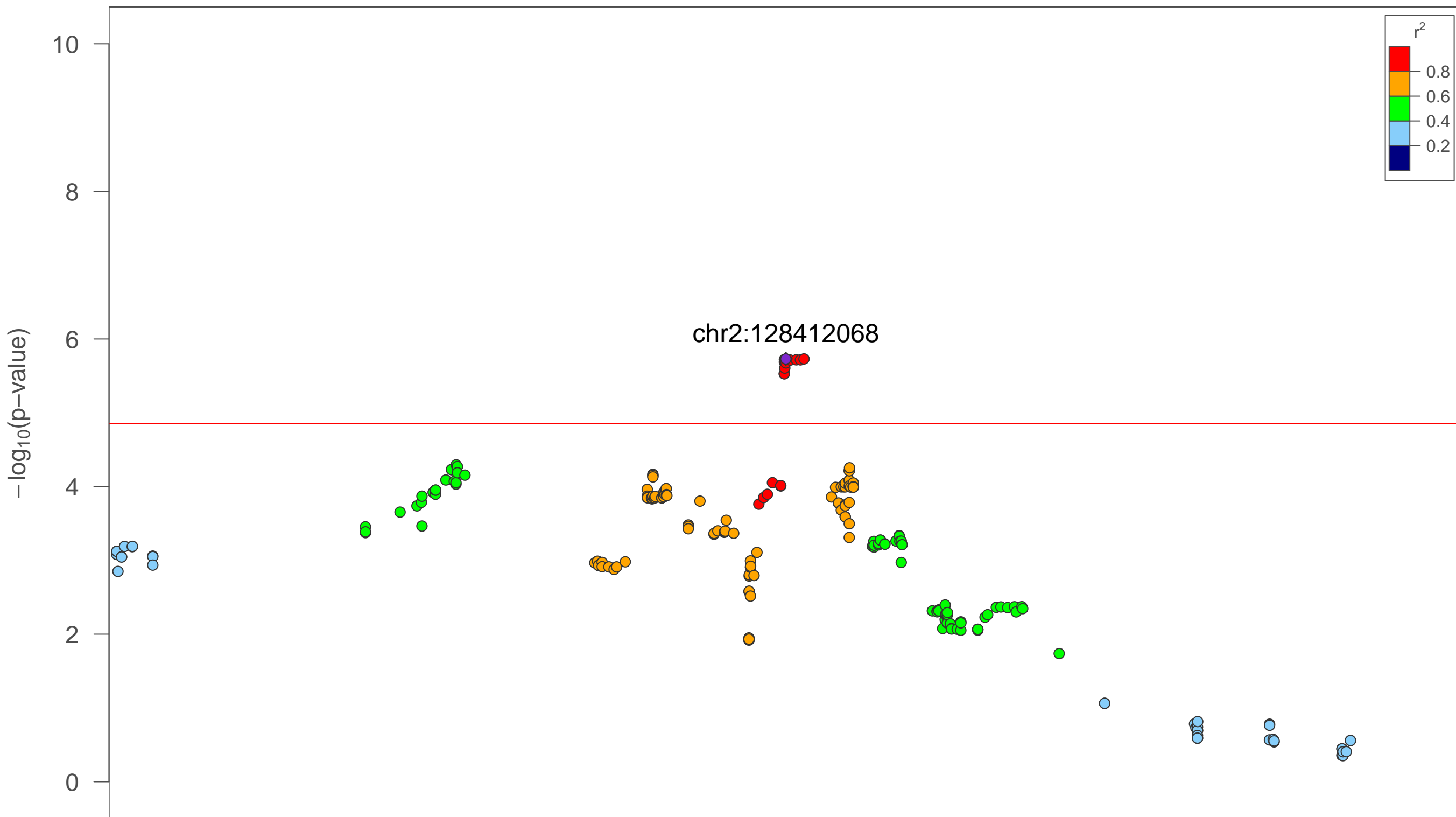
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102385520	7	102.3855	0.009325765	Credible Set	purple
chr7:102385536	7	102.3855	0.011386844	Credible Set	purple
chr7:102423165	7	102.4232	0.020416283	Credible Set	purple
chr7:102435692	7	102.4357	0.006496564	Credible Set	purple
chr7:102435720	7	102.4357	0.006496564	Credible Set	purple
chr7:102478469	7	102.4785	0.011012408	Credible Set	purple
chr7:102510475	7	102.5105	0.011340650	Credible Set	purple
chr7:102510607	7	102.5106	0.012432072	Credible Set	purple
chr7:102516878	7	102.5169	0.011305657	Credible Set	purple
chr7:102531652	7	102.5317	0.011241254	Credible Set	purple
chr7:102561708	7	102.5617	0.011341837	Credible Set	purple
chr7:102565262	7	102.5653	0.003088087	Credible Set	purple
chr7:102565292	7	102.5653	0.003093001	Credible Set	purple
chr7:102565307	7	102.5653	0.003081350	Credible Set	purple
chr7:102565323	7	102.5653	0.003086252	Credible Set	purple
chr7:102565329	7	102.5653	0.003086252	Credible Set	purple
chr7:102565410	7	102.5654	0.007625065	Credible Set	purple
chr7:102596442	7	102.5964	0.002803786	Credible Set	purple
chr7:102596578	7	102.5966	0.001512829	Credible Set	purple
chr7:102596636	7	102.5966	0.001510423	Credible Set	purple
chr7:102619418	7	102.6194	0.007215964	Credible Set	purple
chr7:102619431	7	102.6194	0.007203272	Credible Set	purple
chr7:102619466	7	102.6195	0.003940197	Credible Set	purple
chr7:102757499	7	102.7575	0.008632259	Credible Set	purple
chr7:103442570	7	103.4426	0.008952930	Credible Set	purple
chr7:103564836	7	103.5648	0.009614334	Credible Set	purple
chr7:103646439	7	103.6464	0.010419108	Credible Set	purple
chr7:103646709	7	103.6467	0.010119398	Credible Set	purple
chr7:103671033	7	103.6710	0.010059662	Credible Set	purple
chr7:103760301	7	103.7603	0.007158021	Credible Set	purple
chr7:103829200	7	103.8292	0.007327551	Credible Set	purple
chr7:103837099	7	103.8371	0.007894645	Credible Set	purple
chr7:103837213	7	103.8372	0.008350379	Credible Set	purple
chr7:103915503	7	103.9155	0.011543428	Credible Set	purple
chr7:103986792	7	103.9868	0.011984438	Credible Set	purple
chr7:103986795	7	103.9868	0.011984438	Credible Set	purple

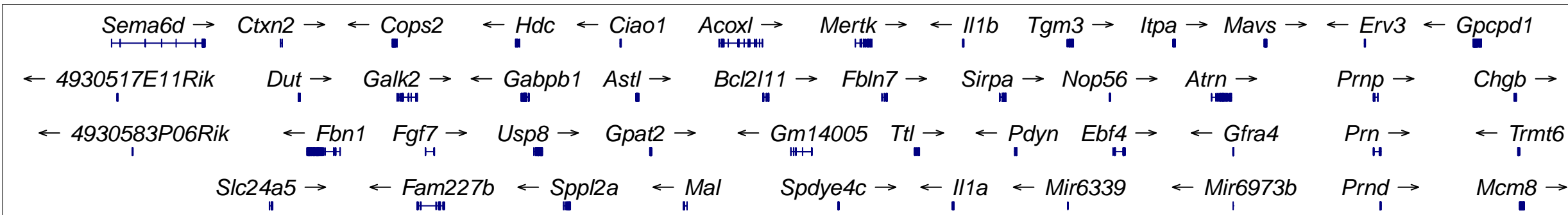
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986857	7	103.9869	0.011749707	Credible Set	purple
chr7:103986860	7	103.9869	0.011749707	Credible Set	purple
chr7:104012808	7	104.0128	0.012334102	Credible Set	purple
chr7:104013370	7	104.0134	0.012542197	Credible Set	purple
chr7:104013395	7	104.0134	0.014993762	Credible Set	purple
chr7:104013467	7	104.0135	0.013443169	Credible Set	purple
chr7:104129734	7	104.1297	0.008725313	Credible Set	purple
chr7:104129736	7	104.1297	0.008725313	Credible Set	purple
chr7:104141343	7	104.1413	0.007256169	Credible Set	purple
chr7:104141705	7	104.1417	0.001834794	Credible Set	purple
chr7:104141768	7	104.1418	0.001817733	Credible Set	purple
chr7:104170479	7	104.1705	0.001239540	Credible Set	purple
chr7:104170518	7	104.1705	0.001234318	Credible Set	purple
chr7:104170543	7	104.1705	0.001236844	Credible Set	purple
chr7:104170588	7	104.1706	0.004537395	Credible Set	purple
chr7:104170594	7	104.1706	0.004523155	Credible Set	purple
chr7:104170618	7	104.1706	0.004549326	Credible Set	purple
chr7:104170662	7	104.1707	0.004549326	Credible Set	purple
chr7:104338784	7	104.3388	0.006676217	Credible Set	purple
chr7:104338810	7	104.3388	0.006689773	Credible Set	purple
chr7:104353491	7	104.3535	0.008546463	Credible Set	purple
chr7:104356230	7	104.3562	0.006682156	Credible Set	purple
chr7:104430205	7	104.4302	0.010279656	Credible Set	purple
chr7:104485236	7	104.4852	0.039314262	Credible Set	purple
chr7:104507724	7	104.5077	0.016280612	Credible Set	purple
chr7:104508127	7	104.5081	0.021038879	Credible Set	purple
chr7:104508173	7	104.5082	0.023240353	Credible Set	purple
chr7:104580091	7	104.5801	0.006597281	Credible Set	purple
chr7:105411752	7	105.4118	0.002787939	Credible Set	purple

F34 GBS, routine CBC cell hemoglobin concentration mean



Credible Set



98 genes
omitted

date: Thu Oct 25 17:12:03 2018

build: F34GBS

display range: chr2:123412068–133412068 [123412068–133412068]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:128412068

number of SNPs plotted: 238

min P-value: 1.86E–6 [chr2:128412068]

max P-value: 4.43E–1 [chr2:132526704]

omitted Genes: Myef2, Slc12a1, Cep152

omitted Genes: Shc4, Eid1, Secisbp2l

omitted Genes: Dtwd1, Atp8b4, Slc27a2

omitted Genes: Usp50, Trpm7, Mir3473g

omitted Genes: Ap4e1, Blvra, Ncaph

omitted Genes: Itpripl1, 1810024B03Rik, Snrnp200

omitted Genes: Tmem127, Stard7, Dusp2

omitted Genes: Adra2b, Fahd2a, Kcnip3

omitted Genes: Prom2, Zfp661, Mrps5

omitted Genes: Mall, Nphp1, 1500011K16Rik

omitted Genes: Bub1, Anapc1, Tmem87b

omitted Genes: Zc3h8, Zc3h6, Polr1b

omitted Genes: Chchd5, Al847159, Slc20a1

omitted Genes: A730036I17Rik, Ckap2l, Gm14023

omitted Genes: Il1bos, F830045P16Rik, 4932416H05Rik

omitted Genes: Stk35, AU015228, Tgm6

omitted Genes: Snrpb, Tmc2, Snord110

omitted Genes: Snord57, Idh3b, Cpxm1

omitted Genes: 1700020A23Rik, Tmem239, Pced1a

omitted Genes: Vps16, Ptpa, 4930473A02Rik

omitted Genes: Mrps26, Oxt, Avp

omitted Genes: Ubox5, Fastkd5, Lzts3

omitted Genes: Ddrgk1, Slc4a11, 4930402H24Rik

omitted Genes: Gm14057, A730017L22Rik, Adam33

omitted Genes: Siglec1, Hspa12b, 1700037H04Rik

omitted Genes: Spef1, Cenpb, Cdc25b

omitted Genes: Ap5s1, Pank2, Mir103–2

omitted Genes: Rnf24, Smox, Adra1d

omitted Genes: 5330413P13Rik, Rassf2, Slc23a2

omitted Genes: Tmem230, Pcna, Cds2

omitted Genes: Prokr2, 4921508D12Rik, 1700026D11Rik

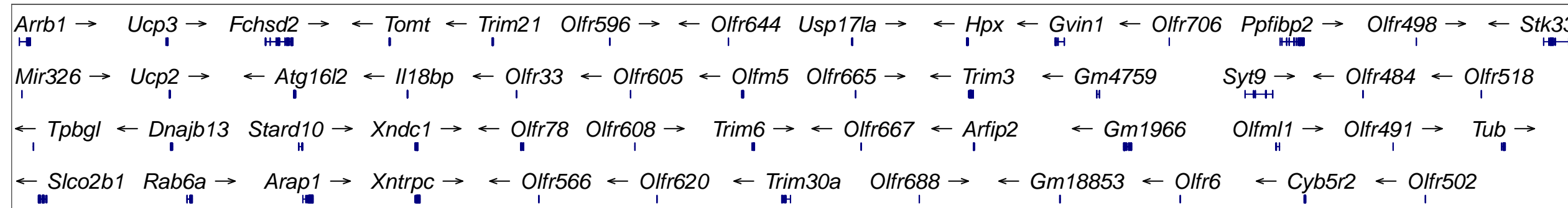
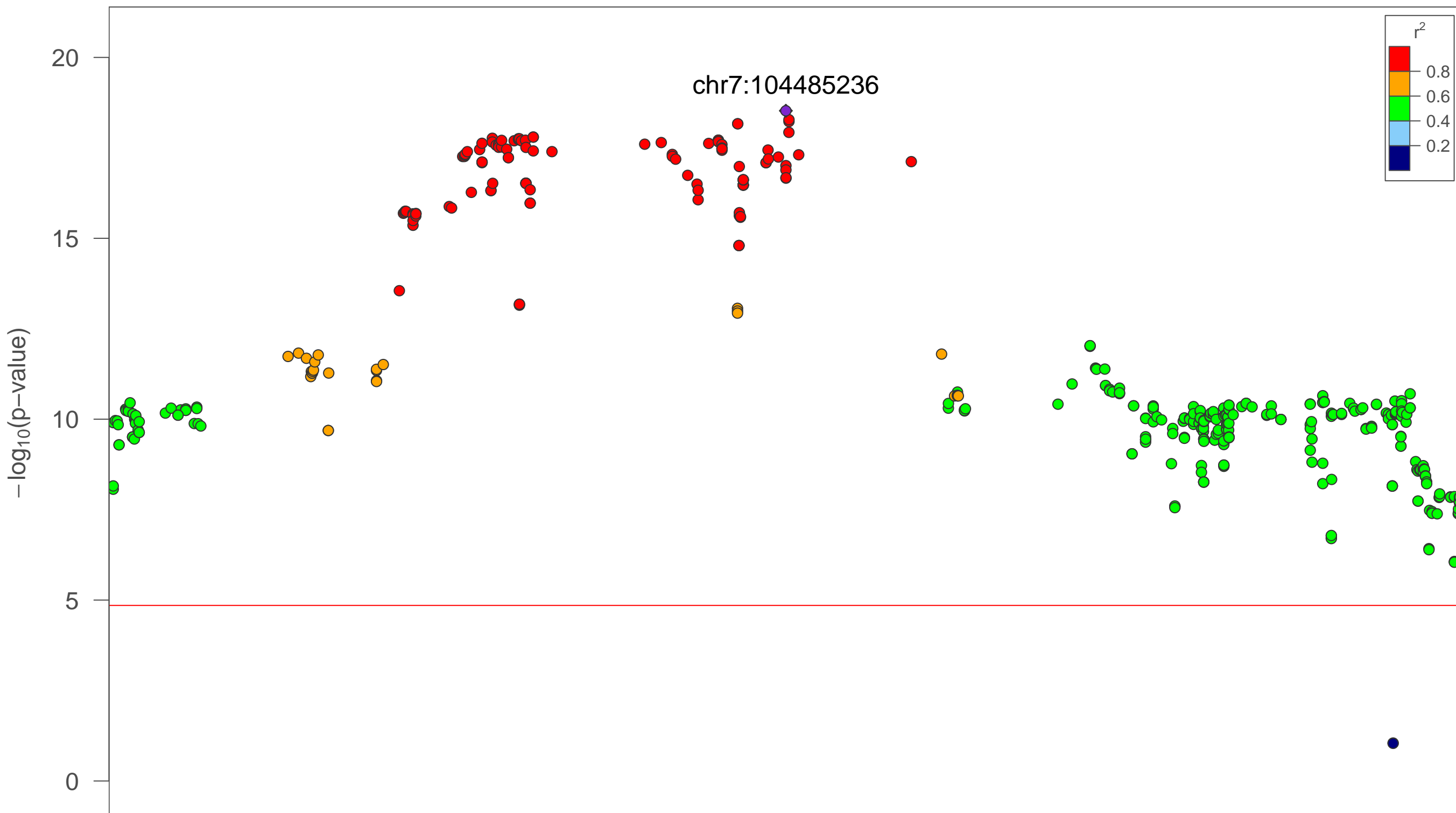
omitted Genes: AU010000, 1110034G24Rik, Crlc1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:128313171	2	128.3132	0.002552786	Credible Set	purple
chr2:128400308	2	128.4003	0.065190969	Credible Set	purple
chr2:128400919	2	128.4009	0.064934418	Credible Set	purple
chr2:128401561	2	128.4016	0.092386329	Credible Set	purple
chr2:128401595	2	128.4016	0.099703027	Credible Set	purple
chr2:128403982	2	128.4040	0.077076500	Credible Set	purple
chr2:128412068	2	128.4121	0.101536886	Credible Set	purple
chr2:128412554	2	128.4126	0.090071239	Credible Set	purple
chr2:128444910	2	128.4449	0.098108275	Credible Set	purple
chr2:128488809	2	128.4888	0.098785461	Credible Set	purple
chr2:128519692	2	128.5197	0.098656916	Credible Set	purple
chr2:128546244	2	128.5462	0.101523739	Credible Set	purple

F34 GBS, routine CBC cell hemoglobin concentration mean



269 genes
omitted

build: F34GBS

hilite range: 0 – 0 [0 – 0]

number of SNPs plotted: 448

max P-value: 9.1E-2 [chr7:108970724]

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: Coa4, Mrpl48, Plekhhb1

omitted Genes: Mir3102, P2ry6, P2ry2

omitted Genes: Art2b, Clpb, Phox2a

omitted Genes: Anapc15, Lamtor1, Lrrc51

omitted Genes: Art5, Art1, Chrna10

omitted Genes: Stim1, Rrm1, Olfr543

omitted Genes: Olfr549, Olfr550, Olfr551

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr560, Olfr561, Olfr564

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr583

omitted Genes: Olfr584, Olfr585, Olfr586

omitted Genes: Olfr589, Olfr591, Olfr592

omitted Genes: Olfr593, Olfr594, Usp17ld

omitted Genes: Olfr597, Olfr598, Olfr599

omitted Genes: Olfr600, Olfr601, Olfr603

Omitted Genes: Usp17lc, Olfr606, Olfr609

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102098054	7	102.0981	0.005972896	Credible Set	purple
chr7:102110109	7	102.1101	0.006094195	Credible Set	purple
chr7:102110501	7	102.1105	0.005982939	Credible Set	purple
chr7:102116318	7	102.1163	0.006449616	Credible Set	purple
chr7:102116430	7	102.1164	0.006449616	Credible Set	purple
chr7:102116478	7	102.1165	0.006918295	Credible Set	purple
chr7:102132562	7	102.1326	0.008098267	Credible Set	purple
chr7:102223396	7	102.2234	0.009250125	Credible Set	purple
chr7:102240695	7	102.2407	0.013700692	Credible Set	purple
chr7:102241191	7	102.2412	0.004215671	Credible Set	purple
chr7:102241211	7	102.2412	0.004050529	Credible Set	purple
chr7:102241212	7	102.2412	0.004208170	Credible Set	purple
chr7:102317213	7	102.3172	0.018798761	Credible Set	purple
chr7:102317246	7	102.3172	0.014858524	Credible Set	purple
chr7:102319586	7	102.3196	0.001107848	Credible Set	purple
chr7:102344970	7	102.3450	0.012218346	Credible Set	purple
chr7:102363897	7	102.3639	0.011533835	Credible Set	purple
chr7:102364204	7	102.3642	0.011806281	Credible Set	purple
chr7:102364223	7	102.3642	0.013118590	Credible Set	purple
chr7:102364315	7	102.3643	0.012160089	Credible Set	purple
chr7:102364326	7	102.3643	0.012160089	Credible Set	purple
chr7:102364411	7	102.3644	0.010644735	Credible Set	purple
chr7:102385520	7	102.3855	0.010879315	Credible Set	purple
chr7:102385536	7	102.3855	0.016478430	Credible Set	purple
chr7:102423165	7	102.4232	0.009460741	Credible Set	purple
chr7:102435692	7	102.4357	0.005546541	Credible Set	purple
chr7:102435720	7	102.4357	0.005546541	Credible Set	purple
chr7:102478469	7	102.4785	0.016049128	Credible Set	purple
chr7:102510475	7	102.5105	0.017343491	Credible Set	purple
chr7:102510607	7	102.5106	0.018257457	Credible Set	purple
chr7:102516878	7	102.5169	0.018218312	Credible Set	purple
chr7:102531652	7	102.5317	0.016054242	Credible Set	purple
chr7:102561708	7	102.5617	0.016638150	Credible Set	purple
chr7:102565262	7	102.5653	0.001122496	Credible Set	purple
chr7:102565292	7	102.5653	0.001113980	Credible Set	purple
chr7:102565307	7	102.5653	0.001111050	Credible Set	purple

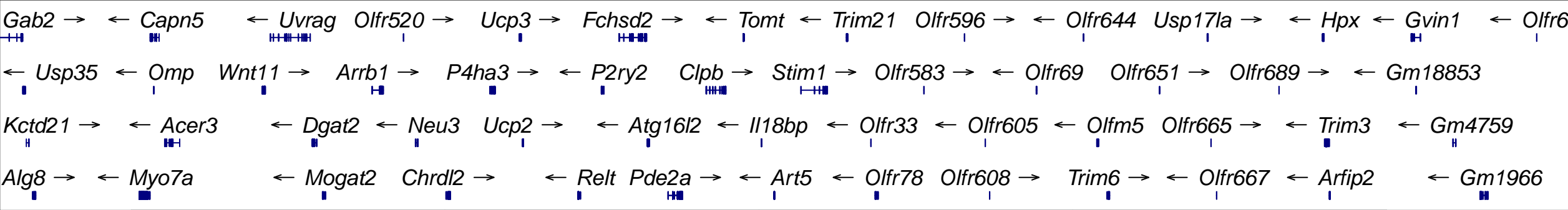
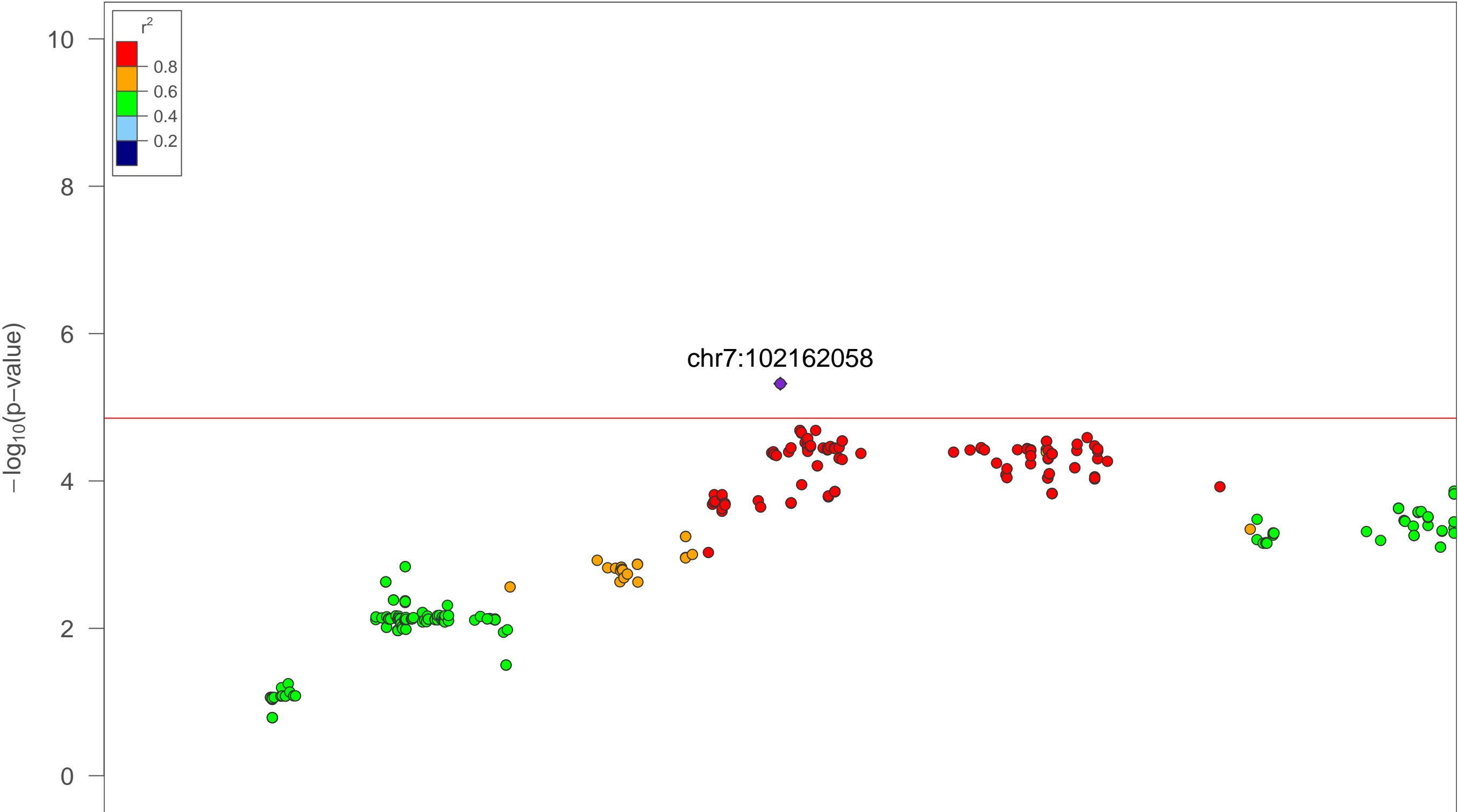
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102565323	7	102.5653	0.0011026237	Credible Set	purple
chr7:102565329	7	102.5653	0.0011026237	Credible Set	purple
chr7:102565410	7	102.5654	0.0105738196	Credible Set	purple
chr7:102619418	7	102.6194	0.0202781359	Credible Set	purple
chr7:102619431	7	102.6194	0.0202198054	Credible Set	purple
chr7:102619466	7	102.6195	0.0084858925	Credible Set	purple
chr7:102757499	7	102.7575	0.0081127224	Credible Set	purple
chr7:103442570	7	103.4426	0.0129377802	Credible Set	purple
chr7:103564836	7	103.5648	0.0143513009	Credible Set	purple
chr7:103646439	7	103.6464	0.0068125725	Credible Set	purple
chr7:103646709	7	103.6467	0.0060312839	Credible Set	purple
chr7:103671033	7	103.6710	0.0050477275	Credible Set	purple
chr7:103760301	7	103.7603	0.0018296339	Credible Set	purple
chr7:103829200	7	103.8292	0.0010534099	Credible Set	purple
chr7:103915503	7	103.9155	0.0135794009	Credible Set	purple
chr7:103986792	7	103.9868	0.0166677107	Credible Set	purple
chr7:103986795	7	103.9868	0.0166677107	Credible Set	purple
chr7:103986857	7	103.9869	0.0152014253	Credible Set	purple
chr7:103986860	7	103.9869	0.0152014253	Credible Set	purple
chr7:104012808	7	104.0128	0.0126737350	Credible Set	purple
chr7:104013370	7	104.0134	0.0101781509	Credible Set	purple
chr7:104013395	7	104.0134	0.0088625137	Credible Set	purple
chr7:104013467	7	104.0135	0.0096893227	Credible Set	purple
chr7:104129734	7	104.1297	0.0467498262	Credible Set	purple
chr7:104129736	7	104.1297	0.0467498262	Credible Set	purple
chr7:104141343	7	104.1413	0.0031826073	Credible Set	purple
chr7:104170479	7	104.1705	0.0010029286	Credible Set	purple
chr7:104170506	7	104.1705	0.0010005741	Credible Set	purple
chr7:104170522	7	104.1705	0.0009976148	Credible Set	purple
chr7:104170588	7	104.1706	0.0013779504	Credible Set	purple
chr7:104170594	7	104.1706	0.0013657787	Credible Set	purple
chr7:104170618	7	104.1706	0.0013900693	Credible Set	purple
chr7:104170662	7	104.1707	0.0013900693	Credible Set	purple
chr7:104338784	7	104.3388	0.0040315581	Credible Set	purple
chr7:104338810	7	104.3388	0.0040597580	Credible Set	purple
chr7:104353491	7	104.3535	0.0089776067	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104356230	7	104.3562	0.005120499	Credible Set	purple
chr7:104430205	7	104.4302	0.005773948	Credible Set	purple
chr7:104485236	7	104.4852	0.105711391	Credible Set	purple
chr7:104485721	7	104.4857	0.003369688	Credible Set	purple
chr7:104485727	7	104.4857	0.002568336	Credible Set	purple
chr7:104486022	7	104.4860	0.001532997	Credible Set	purple
chr7:104486041	7	104.4860	0.001573481	Credible Set	purple
chr7:104507724	7	104.5077	0.027210172	Credible Set	purple
chr7:104508127	7	104.5081	0.053826633	Credible Set	purple
chr7:104508173	7	104.5082	0.060422735	Credible Set	purple
chr7:104580091	7	104.5801	0.006650589	Credible Set	purple
chr7:105411752	7	105.4118	0.004324642	Credible Set	purple

F34 GBS, routine CBC red blood cell distribution width



250 genes
omitted

date: Thu Oct 25 17:12:39 2018

build: F34GBS

display range: chr7:97162058–107162058 [97162058–107162058]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:102162058

number of SNPs plotted: 295

min P-value: 4.78E–6 [chr7:102162058]

max P-value: 1.64E–1 [chr7:98406311]

omitted Genes: Ndufc2, Thrsp, Kctd14

omitted Genes: Ints4, Aamdc, Rsf1

omitted Genes: Rsf1os1, Clns1a, Aqp11

omitted Genes: Pak1, Gdpd4, Gm16938

omitted Genes: B3gnt6, Tsku, Gucy2d

omitted Genes: Lrrc32, Emsy, Prkrir

omitted Genes: Gm26705, Map6, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Mir326

omitted Genes: Tpbgl, Slco2b1, Olfr521

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: C2cd3, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekhhb1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Phox2a, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr549, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

omitted Genes: Olfr569, Olfr570, Olfr571

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.002089386	Credible Set	purple
chr7:101669186	7	101.6692	0.002230006	Credible Set	purple
chr7:101673483	7	101.6735	0.002772393	Credible Set	purple
chr7:101680140	7	101.6801	0.002283530	Credible Set	purple
chr7:101731061	7	101.7311	0.002659947	Credible Set	purple
chr7:101731110	7	101.7311	0.002775208	Credible Set	purple
chr7:101751790	7	101.7518	0.002124253	Credible Set	purple
chr7:101752580	7	101.7526	0.002142424	Credible Set	purple
chr7:101998679	7	101.9987	0.002318842	Credible Set	purple
chr7:102098054	7	102.0981	0.009548508	Credible Set	purple
chr7:102110109	7	102.1101	0.009503956	Credible Set	purple
chr7:102110501	7	102.1105	0.009837912	Credible Set	purple
chr7:102116318	7	102.1163	0.009043904	Credible Set	purple
chr7:102116430	7	102.1164	0.009043904	Credible Set	purple
chr7:102116478	7	102.1165	0.009176579	Credible Set	purple
chr7:102132562	7	102.1326	0.008802086	Credible Set	purple
chr7:102162058	7	102.1621	0.074805787	Credible Set	purple
chr7:102223396	7	102.2234	0.009811606	Credible Set	purple
chr7:102240695	7	102.2407	0.011072285	Credible Set	purple
chr7:102241191	7	102.2412	0.002179105	Credible Set	purple
chr7:102241211	7	102.2412	0.002151102	Credible Set	purple
chr7:102241212	7	102.2412	0.002179322	Credible Set	purple
chr7:102306968	7	102.3070	0.018536215	Credible Set	purple
chr7:102306978	7	102.3070	0.018538116	Credible Set	purple
chr7:102317213	7	102.3172	0.017128207	Credible Set	purple
chr7:102317246	7	102.3172	0.017508287	Credible Set	purple
chr7:102319586	7	102.3196	0.003715643	Credible Set	purple
chr7:102344970	7	102.3450	0.012892797	Credible Set	purple
chr7:102363897	7	102.3639	0.010794577	Credible Set	purple
chr7:102364204	7	102.3642	0.012873946	Credible Set	purple
chr7:102364223	7	102.3642	0.014588118	Credible Set	purple
chr7:102364315	7	102.3643	0.011194140	Credible Set	purple
chr7:102364326	7	102.3643	0.011194140	Credible Set	purple
chr7:102364411	7	102.3644	0.009946970	Credible Set	purple
chr7:102385520	7	102.3855	0.011458601	Credible Set	purple
chr7:102385536	7	102.3855	0.011787086	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102423165	7	102.4232	0.018541508	Credible Set	purple
chr7:102435692	7	102.4357	0.006490996	Credible Set	purple
chr7:102435720	7	102.4357	0.006490996	Credible Set	purple
chr7:102478469	7	102.4785	0.011022684	Credible Set	purple
chr7:102510475	7	102.5105	0.010378824	Credible Set	purple
chr7:102510607	7	102.5106	0.010981256	Credible Set	purple
chr7:102516878	7	102.5169	0.010650670	Credible Set	purple
chr7:102517238	7	102.5172	0.002603268	Credible Set	purple
chr7:102517241	7	102.5172	0.002601938	Credible Set	purple
chr7:102517247	7	102.5172	0.002675521	Credible Set	purple
chr7:102531652	7	102.5317	0.011523240	Credible Set	purple
chr7:102561708	7	102.5617	0.011019190	Credible Set	purple
chr7:102565262	7	102.5653	0.003022905	Credible Set	purple
chr7:102565292	7	102.5653	0.003041713	Credible Set	purple
chr7:102565307	7	102.5653	0.003012704	Credible Set	purple
chr7:102565323	7	102.5653	0.003031443	Credible Set	purple
chr7:102565329	7	102.5653	0.003031443	Credible Set	purple
chr7:102565410	7	102.5654	0.010811193	Credible Set	purple
chr7:102596442	7	102.5964	0.011150038	Credible Set	purple
chr7:102596578	7	102.5966	0.008116217	Credible Set	purple
chr7:102596636	7	102.5966	0.008119380	Credible Set	purple
chr7:102619418	7	102.6194	0.013546316	Credible Set	purple
chr7:102619431	7	102.6194	0.013583107	Credible Set	purple
chr7:102619466	7	102.6195	0.007825871	Credible Set	purple
chr7:102757499	7	102.7575	0.009370125	Credible Set	purple
chr7:103442570	7	103.4426	0.009727824	Credible Set	purple
chr7:103564836	7	103.5648	0.010363188	Credible Set	purple
chr7:103646439	7	103.6464	0.010875360	Credible Set	purple
chr7:103646709	7	103.6467	0.011132242	Credible Set	purple
chr7:103671033	7	103.6710	0.010389433	Credible Set	purple
chr7:103760301	7	103.7603	0.007035344	Credible Set	purple
chr7:103829200	7	103.8292	0.004976044	Credible Set	purple
chr7:103837099	7	103.8371	0.004571138	Credible Set	purple
chr7:103837213	7	103.8372	0.005961047	Credible Set	purple
chr7:103915503	7	103.9155	0.010463737	Credible Set	purple
chr7:103986792	7	103.9868	0.010812874	Credible Set	purple

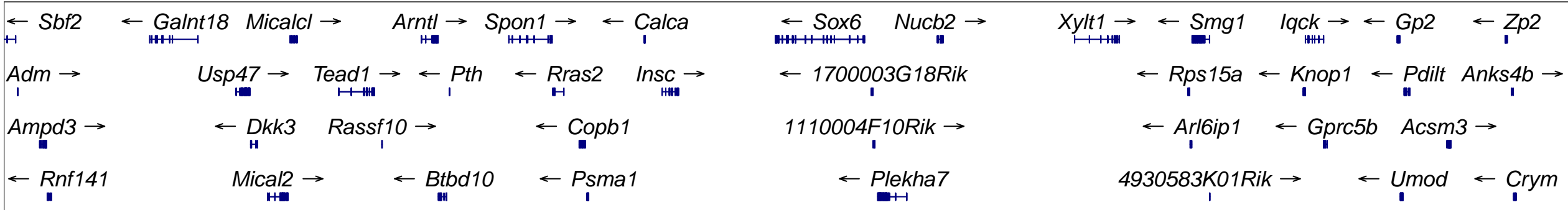
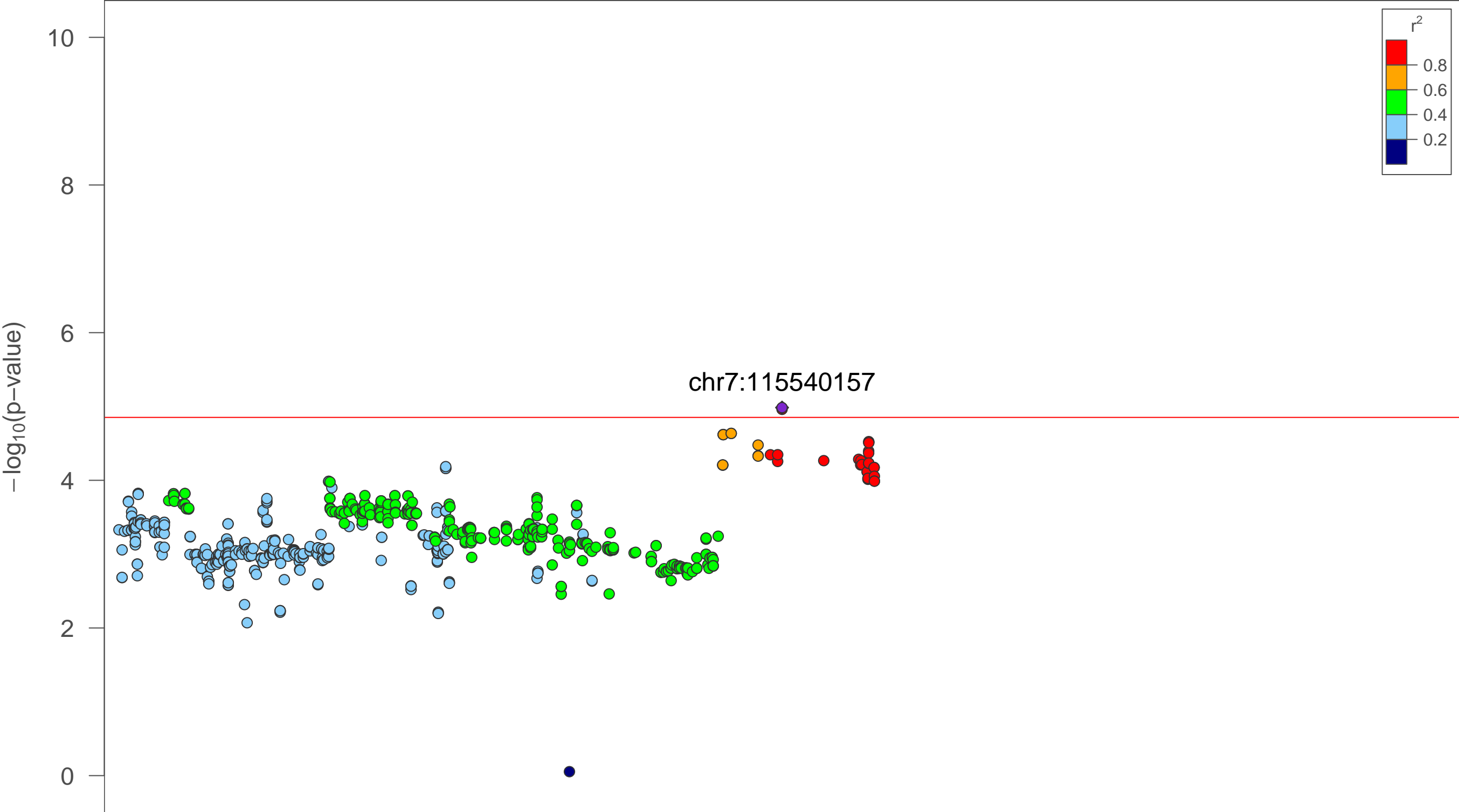
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986795	7	103.9868	0.010812874	Credible Set	purple
chr7:103986857	7	103.9869	0.010624554	Credible Set	purple
chr7:103986860	7	103.9869	0.010624554	Credible Set	purple
chr7:104012808	7	104.0128	0.006875938	Credible Set	purple
chr7:104013370	7	104.0134	0.010436535	Credible Set	purple
chr7:104013395	7	104.0134	0.010211190	Credible Set	purple
chr7:104013467	7	104.0135	0.008727574	Credible Set	purple
chr7:104129734	7	104.1297	0.013437577	Credible Set	purple
chr7:104129736	7	104.1297	0.013437577	Credible Set	purple
chr7:104138934	7	104.1389	0.004518107	Credible Set	purple
chr7:104138936	7	104.1389	0.004528438	Credible Set	purple
chr7:104138968	7	104.1390	0.004528438	Credible Set	purple
chr7:104141343	7	104.1413	0.010287885	Credible Set	purple
chr7:104141705	7	104.1417	0.007971042	Credible Set	purple
chr7:104141768	7	104.1418	0.008141437	Credible Set	purple
chr7:104149893	7	104.1499	0.005108275	Credible Set	purple
chr7:104149911	7	104.1499	0.005143698	Credible Set	purple
chr7:104170479	7	104.1705	0.009227558	Credible Set	purple
chr7:104170506	7	104.1705	0.009263429	Credible Set	purple
chr7:104170518	7	104.1705	0.009227143	Credible Set	purple
chr7:104170522	7	104.1705	0.009254306	Credible Set	purple
chr7:104170543	7	104.1705	0.009248551	Credible Set	purple
chr7:104170588	7	104.1706	0.002873580	Credible Set	purple
chr7:104170594	7	104.1706	0.002857667	Credible Set	purple
chr7:104170618	7	104.1706	0.002863148	Credible Set	purple
chr7:104170662	7	104.1707	0.002863148	Credible Set	purple
chr7:104338784	7	104.3388	0.006147177	Credible Set	purple
chr7:104338810	7	104.3388	0.006117691	Credible Set	purple
chr7:104353491	7	104.3535	0.010200340	Credible Set	purple
chr7:104356230	7	104.3562	0.012345949	Credible Set	purple
chr7:104430205	7	104.4302	0.014991492	Credible Set	purple
chr7:104485236	7	104.4852	0.011749030	Credible Set	purple
chr7:104485721	7	104.4857	0.004407447	Credible Set	purple
chr7:104485727	7	104.4857	0.004419985	Credible Set	purple
chr7:104486022	7	104.4860	0.004691478	Credible Set	purple
chr7:104486041	7	104.4860	0.004526093	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104507724	7	104.5077	0.007987074	Credible Set	purple
chr7:104508127	7	104.5081	0.010042658	Credible Set	purple
chr7:104508173	7	104.5082	0.010682151	Credible Set	purple
chr7:104580091	7	104.5801	0.007416009	Credible Set	purple
chr7:105411752	7	105.4118	0.003497803	Credible Set	purple

F34 GBS, routine CBC red blood cell distribution width



41 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:12:50 2018

build: F34GBS

display range: chr7:110540157–120540157 [110540157–120540157]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:115540157

number of SNPs plotted: 670

min P-value: 1.04E–5 [chr7:115540157]

max P-value: 8.83E–1 [chr7:113971813]

omitted Genes: Lyve1, Mrvi1, Gm16336

omitted Genes: Ctr9, Eif4g2, 1700012D14Rik

omitted Genes: Parva, 4930543E12Rik, Far1

omitted Genes: Far1os, 4933406I18Rik, Pde3b

omitted Genes: Cyp2r1, Calcb, A730082K24Rik

omitted Genes: Rps13, Snord14a, Pik3c2a

omitted Genes: Syt17, Itpripl2, Coq7

omitted Genes: Tmc7, Tmc5, Gde1

omitted Genes: Ccp110, 9030624J02Rik, Gpr139

omitted Genes: Acsm5, Acsm2, Acsm1

omitted Genes: Acsm4, Thumpd1, Eri2

omitted Genes: 2610020H08Rik, Dcun1d3, Lymr1

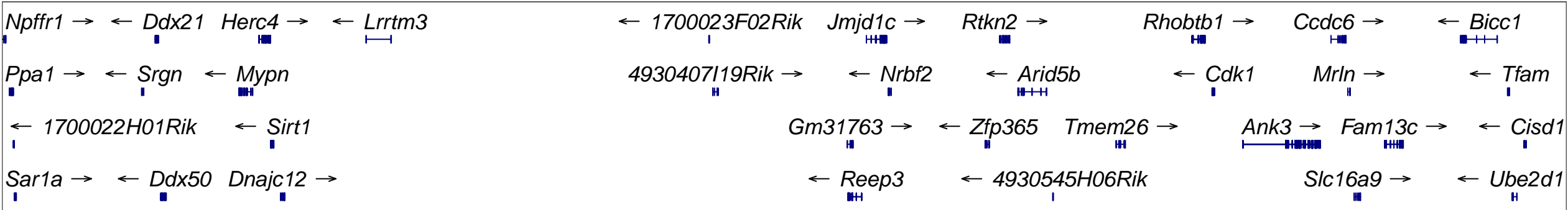
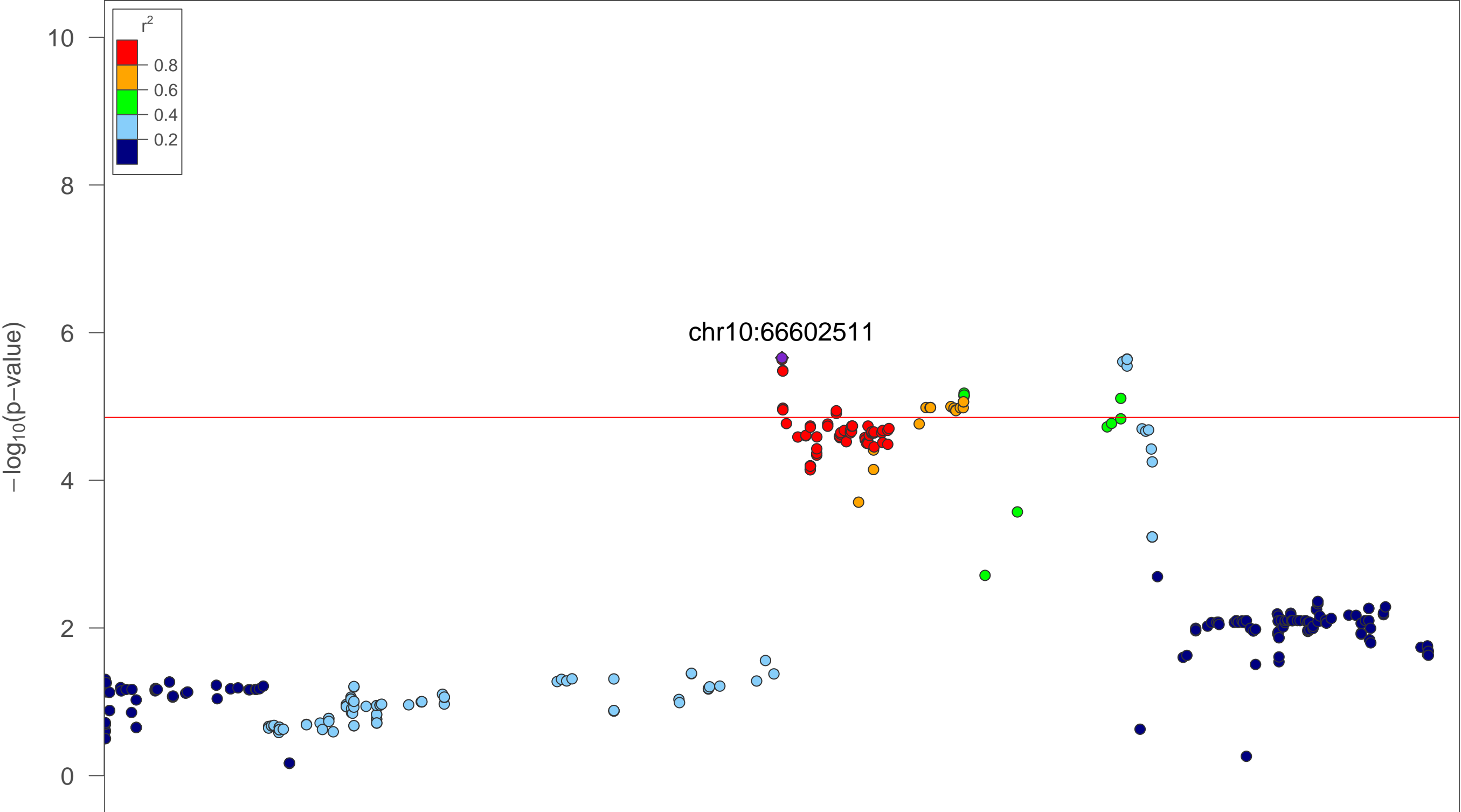
omitted Genes: Tmem159, 4930505K13Rik, Abca14

omitted Genes: Abca15, Abca16

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:115454415	7	115.4544	0.03400282	Credible Set	purple
chr7:115507677	7	115.5077	0.02790172	Credible Set	purple
chr7:115508170	7	115.5082	0.03407172	Credible Set	purple
chr7:115540157	7	115.5402	0.13779863	Credible Set	purple
chr7:115540180	7	115.5402	0.13091693	Credible Set	purple
chr7:115847912	7	115.8479	0.02857463	Credible Set	purple
chr7:116105450	7	116.1055	0.02973166	Credible Set	purple
chr7:116120266	7	116.1203	0.02517664	Credible Set	purple
chr7:116121716	7	116.1217	0.02862464	Credible Set	purple
chr7:116128732	7	116.1287	0.02548667	Credible Set	purple
chr7:116167789	7	116.1678	0.02048942	Credible Set	purple
chr7:116167891	7	116.1679	0.02057105	Credible Set	purple
chr7:116173642	7	116.1736	0.01646756	Credible Set	purple
chr7:116173781	7	116.1738	0.01699213	Credible Set	purple
chr7:116179005	7	116.1790	0.03788025	Credible Set	purple
chr7:116179028	7	116.1790	0.03574226	Credible Set	purple
chr7:116179466	7	116.1795	0.04923355	Credible Set	purple
chr7:116179541	7	116.1795	0.02626363	Credible Set	purple
chr7:116179576	7	116.1796	0.02640221	Credible Set	purple
chr7:116179586	7	116.1796	0.02650116	Credible Set	purple
chr7:116179595	7	116.1796	0.02657195	Credible Set	purple
chr7:116180032	7	116.1800	0.05017761	Credible Set	purple
chr7:116180072	7	116.1801	0.04847339	Credible Set	purple
chr7:116219326	7	116.2193	0.02336931	Credible Set	purple
chr7:116219327	7	116.2193	0.02334005	Credible Set	purple
chr7:116221282	7	116.2213	0.01802601	Credible Set	purple
chr7:116221389	7	116.2214	0.01562628	Credible Set	purple
chr7:116221407	7	116.2214	0.01558612	Credible Set	purple

F34 GBS, routine CBC red blood cell distribution width



39 genes
omitted

date: Thu Oct 25 17:12:25 2018

build: F34GBS

display range: chr10:61602511–71602511 [61602511–71602511]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:66602511

number of SNPs plotted: 346

min P-value: 2.19E–6 [chr10:66602511]

max P-value: 6.82E–1 [chr10:62969101]

omitted Genes: Tysnd1, Aifm2, H2afy2

omitted Genes: Mir5108, Col13a1, Gm5424

omitted Genes: 2010107G23Rik, Neurog3, Tspan15

omitted Genes: Mir7662, Tacr2, Hk1

omitted Genes: Hk1os, Hkdc1, Supv3l1

omitted Genes: 4930507D05Rik, Vps26a, Kif1bp

omitted Genes: Stox1, Mir7215, Ccar1

omitted Genes: Snord98, Tet1, Slc25a16

omitted Genes: Dna2, Rufy2, Hnrnp3

omitted Genes: Pbld2, Pbld1, Atoh7

omitted Genes: Ctnna3, Egr2, Ado

omitted Genes: 1700040L02Rik, Phyhipl, D630013N20Rik

omitted Genes: C730027H18Rik, 1700113B09Rik, lpmk

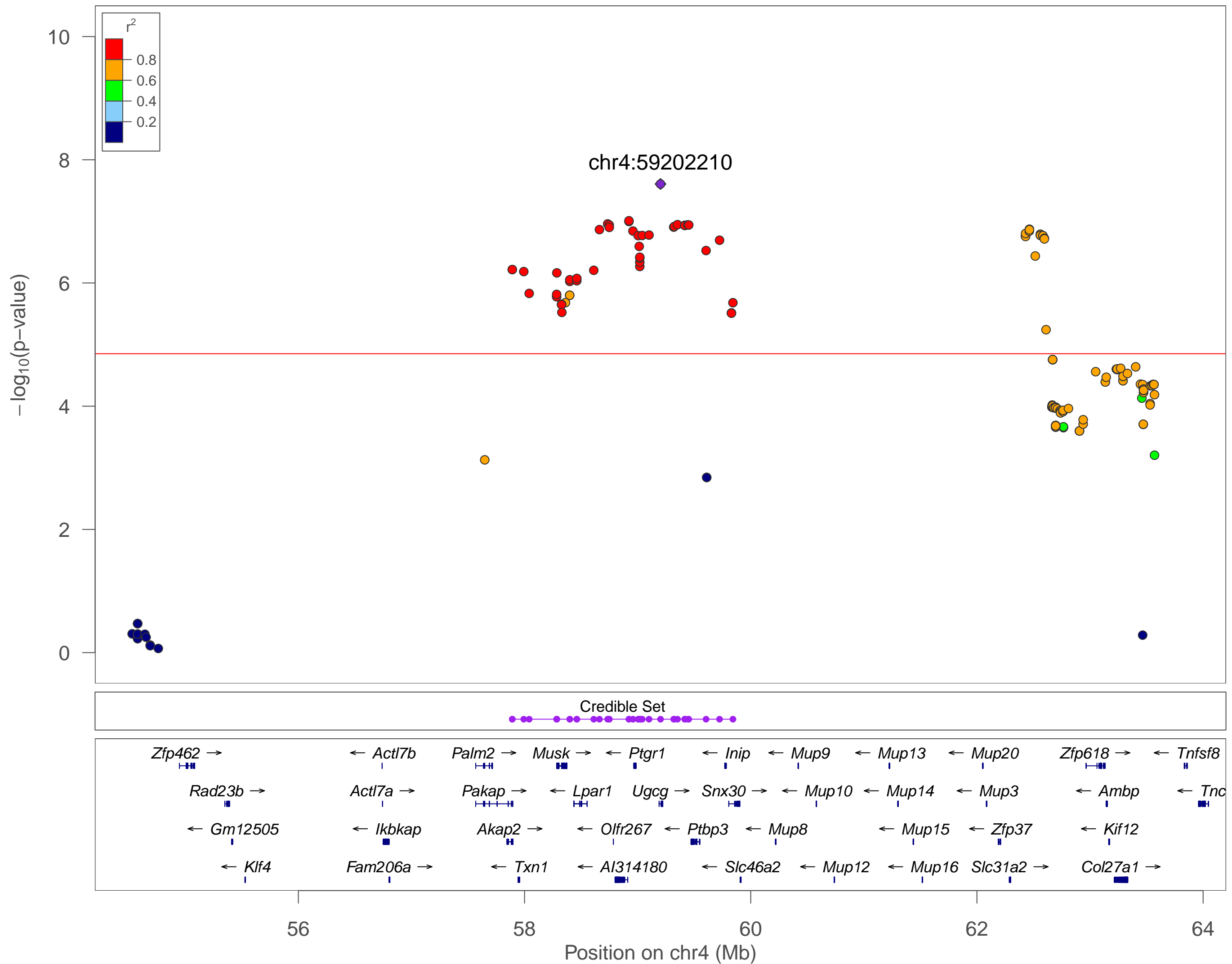
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:66602509	10	66.60251	0.113276210	Credible Set	purple
chr10:66602511	10	66.60251	0.113276210	Credible Set	purple
chr10:66608856	10	66.60886	0.076752560	Credible Set	purple
chr10:66608885	10	66.60889	0.076752560	Credible Set	purple
chr10:66609052	10	66.60905	0.022131543	Credible Set	purple
chr10:66609080	10	66.60908	0.022131543	Credible Set	purple
chr10:66609124	10	66.60912	0.022131543	Credible Set	purple
chr10:66635369	10	66.63537	0.014610950	Credible Set	purple
chr10:66719524	10	66.71952	0.009750032	Credible Set	purple
chr10:66778997	10	66.77900	0.010120631	Credible Set	purple
chr10:66779040	10	66.77904	0.010120631	Credible Set	purple
chr10:66811497	10	66.81150	0.013836482	Credible Set	purple
chr10:66811529	10	66.81153	0.013141887	Credible Set	purple
chr10:66811581	10	66.81158	0.004147612	Credible Set	purple
chr10:66811611	10	66.81161	0.004147612	Credible Set	purple
chr10:66811619	10	66.81162	0.004147612	Credible Set	purple
chr10:66811684	10	66.81168	0.004147612	Credible Set	purple
chr10:66811694	10	66.81169	0.004147612	Credible Set	purple
chr10:66811705	10	66.81171	0.004087190	Credible Set	purple
chr10:66859150	10	66.85915	0.005671287	Credible Set	purple
chr10:66859163	10	66.85916	0.006045913	Credible Set	purple
chr10:66859201	10	66.85920	0.006972709	Credible Set	purple
chr10:66859671	10	66.85967	0.009750032	Credible Set	purple
chr10:66940094	10	66.94009	0.014610950	Credible Set	purple
chr10:66940121	10	66.94012	0.013141887	Credible Set	purple
chr10:67003583	10	67.00358	0.020367602	Credible Set	purple
chr10:67003588	10	67.00359	0.022131543	Credible Set	purple
chr10:67026213	10	67.02621	0.010120631	Credible Set	purple
chr10:67029219	10	67.02922	0.009750032	Credible Set	purple
chr10:67029237	10	67.02924	0.009750032	Credible Set	purple
chr10:67034406	10	67.03441	0.010521406	Credible Set	purple
chr10:67036263	10	67.03626	0.010956238	Credible Set	purple
chr10:67061736	10	67.06174	0.011947227	Credible Set	purple
chr10:67077389	10	67.07739	0.008509800	Credible Set	purple
chr10:67107858	10	67.10786	0.011429699	Credible Set	purple
chr10:67107945	10	67.10795	0.010956238	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:67108562	10	67.10856	0.011947227	Credible Set	purple
chr10:67115847	10	67.11585	0.011429699	Credible Set	purple
chr10:67116164	10	67.11616	0.013836482	Credible Set	purple
chr10:67121830	10	67.12183	0.013836482	Credible Set	purple
chr10:67121898	10	67.12190	0.013836482	Credible Set	purple
chr10:67214197	10	67.21420	0.009750032	Credible Set	purple
chr10:67217456	10	67.21746	0.009086602	Credible Set	purple
chr10:67217505	10	67.21751	0.009086602	Credible Set	purple
chr10:67226747	10	67.22675	0.008248714	Credible Set	purple
chr10:67237234	10	67.23723	0.008509800	Credible Set	purple
chr10:67237236	10	67.23724	0.008003592	Credible Set	purple
chr10:67237389	10	67.23739	0.013836482	Credible Set	purple
chr10:67246731	10	67.24673	0.010120631	Credible Set	purple
chr10:67264982	10	67.26498	0.010956238	Credible Set	purple
chr10:67265380	10	67.26538	0.011429699	Credible Set	purple
chr10:67281545	10	67.28154	0.010956238	Credible Set	purple
chr10:67281940	10	67.28194	0.011429699	Credible Set	purple
chr10:67282089	10	67.28209	0.007350506	Credible Set	purple
chr10:67338317	10	67.33832	0.010956238	Credible Set	purple
chr10:67345731	10	67.34573	0.011947227	Credible Set	purple
chr10:67346184	10	67.34618	0.008248714	Credible Set	purple
chr10:67382855	10	67.38286	0.007773003	Credible Set	purple
chr10:67383022	10	67.38302	0.011947227	Credible Set	purple
chr10:67391783	10	67.39178	0.012515334	Credible Set	purple

F34 GBS, routine CBC hemoglobin distribution width



date: Thu Oct 25 17:01:02 2018
build: F34GBS
display range: chr4:54202210–64202210 [54202210–64202210]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:59202210
number of SNPs plotted: 157
min P-value: 2.47E–8 [chr4:59202210]
max P-value: 8.56E–1 [chr4:54761468]
omitted Genes: Ctnna1, Tmem245, Mir32
omitted Genes: Frrs1l, Epb41l4b, Gm12530
omitted Genes: Ptpn3, 1700042G15Rik, D630039A03Rik
omitted Genes: Txndc8, Sveg1, Mir3095
omitted Genes: Zkscan16, Dnajc25, Gng10
omitted Genes: Gm12596, Susd1, Hsd12
omitted Genes: E130308A19Rik, Mup4, Mup6
omitted Genes: Mup7, Mup2, Mup1
omitted Genes: Mup11, Mup17, Mup18
omitted Genes: Mup19, Mup5, Mup21
omitted Genes: Fkbp15, Slc31a1, Cdc26
omitted Genes: Prpf4, Rnf183, Wdr31
omitted Genes: Bspry, Hdhd3, Alad
omitted Genes: Pole3, 4933430I17Rik, Rgs3
omitted Genes: Mir455, Orm1, Orm3
omitted Genes: Orm2, Akna, Whrn
omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213
omitted Genes: 1700018C11Rik, Tnfsf15

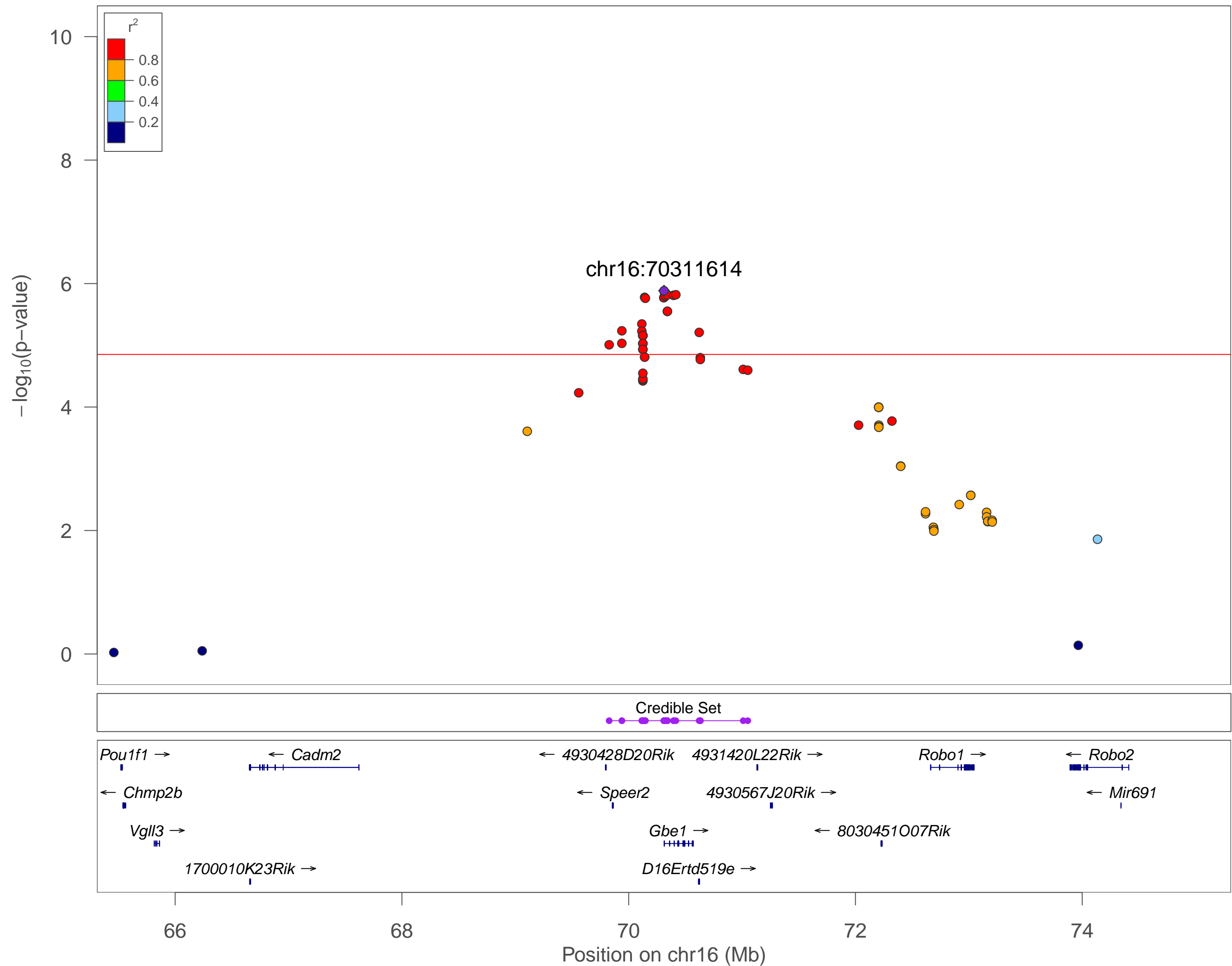
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:57891427	4	57.89143	0.007748913	Credible Set	purple
chr4:57891451	4	57.89145	0.007748913	Credible Set	purple
chr4:57993173	4	57.99317	0.007207393	Credible Set	purple
chr4:58041091	4	58.04109	0.003285135	Credible Set	purple
chr4:58283671	4	58.28367	0.002906190	Credible Set	purple
chr4:58283721	4	58.28372	0.003173812	Credible Set	purple
chr4:58285477	4	58.28548	0.006881396	Credible Set	purple
chr4:58399947	4	58.39995	0.005058829	Credible Set	purple
chr4:58400011	4	58.40001	0.005378042	Credible Set	purple
chr4:58461854	4	58.46185	0.005181592	Credible Set	purple
chr4:58462401	4	58.46240	0.005633158	Credible Set	purple
chr4:58611965	4	58.61196	0.007548703	Credible Set	purple
chr4:58662154	4	58.66215	0.032809373	Credible Set	purple
chr4:58735042	4	58.73504	0.040294408	Credible Set	purple
chr4:58748774	4	58.74877	0.038686690	Credible Set	purple
chr4:58749245	4	58.74925	0.035507815	Credible Set	purple
chr4:58923167	4	58.92317	0.043927718	Credible Set	purple
chr4:58923190	4	58.92319	0.045160814	Credible Set	purple
chr4:58958681	4	58.95868	0.031124327	Credible Set	purple
chr4:59004314	4	59.00431	0.026373074	Credible Set	purple
chr4:59013917	4	59.01392	0.017881488	Credible Set	purple
chr4:59019003	4	59.01900	0.008656517	Credible Set	purple
chr4:59019032	4	59.01903	0.010075153	Credible Set	purple
chr4:59019072	4	59.01907	0.011759463	Credible Set	purple
chr4:59019113	4	59.01911	0.012105110	Credible Set	purple
chr4:59040591	4	59.04059	0.026499791	Credible Set	purple
chr4:59100640	4	59.10064	0.026917255	Credible Set	purple
chr4:59202210	4	59.20221	0.171013248	Credible Set	purple
chr4:59319020	4	59.31902	0.035880347	Credible Set	purple
chr4:59324851	4	59.32485	0.036725464	Credible Set	purple
chr4:59352342	4	59.35234	0.039231485	Credible Set	purple
chr4:59417447	4	59.41745	0.038287627	Credible Set	purple
chr4:59417451	4	59.41745	0.038167661	Credible Set	purple
chr4:59417505	4	59.41750	0.038047320	Credible Set	purple
chr4:59444538	4	59.44454	0.038964344	Credible Set	purple
chr4:59451945	4	59.45195	0.038747805	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:59604913	4	59.60491	0.015387839	Credible Set	purple
chr4:59724135	4	59.72413	0.022336546	Credible Set	purple
chr4:59842519	4	59.84252	0.002352616	Credible Set	purple

F34 GBS, routine CBC hemoglobin distribution width



date: Thu Oct 25 17:00:53 2018

build: F34GBS

display range: chr16:65311614–75311614 [65311614–75311614]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:70311614

number of SNPs plotted: 80

min P-value: 1.3E–6 [chr16:70311614]

max P-value: 9.45E–1 [chr16:65459428]

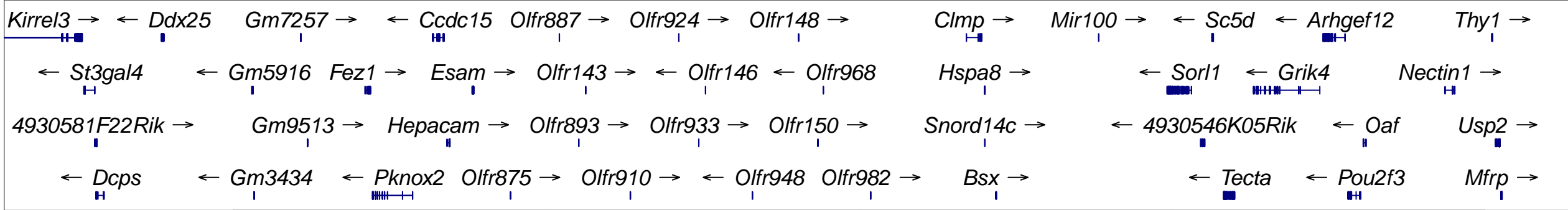
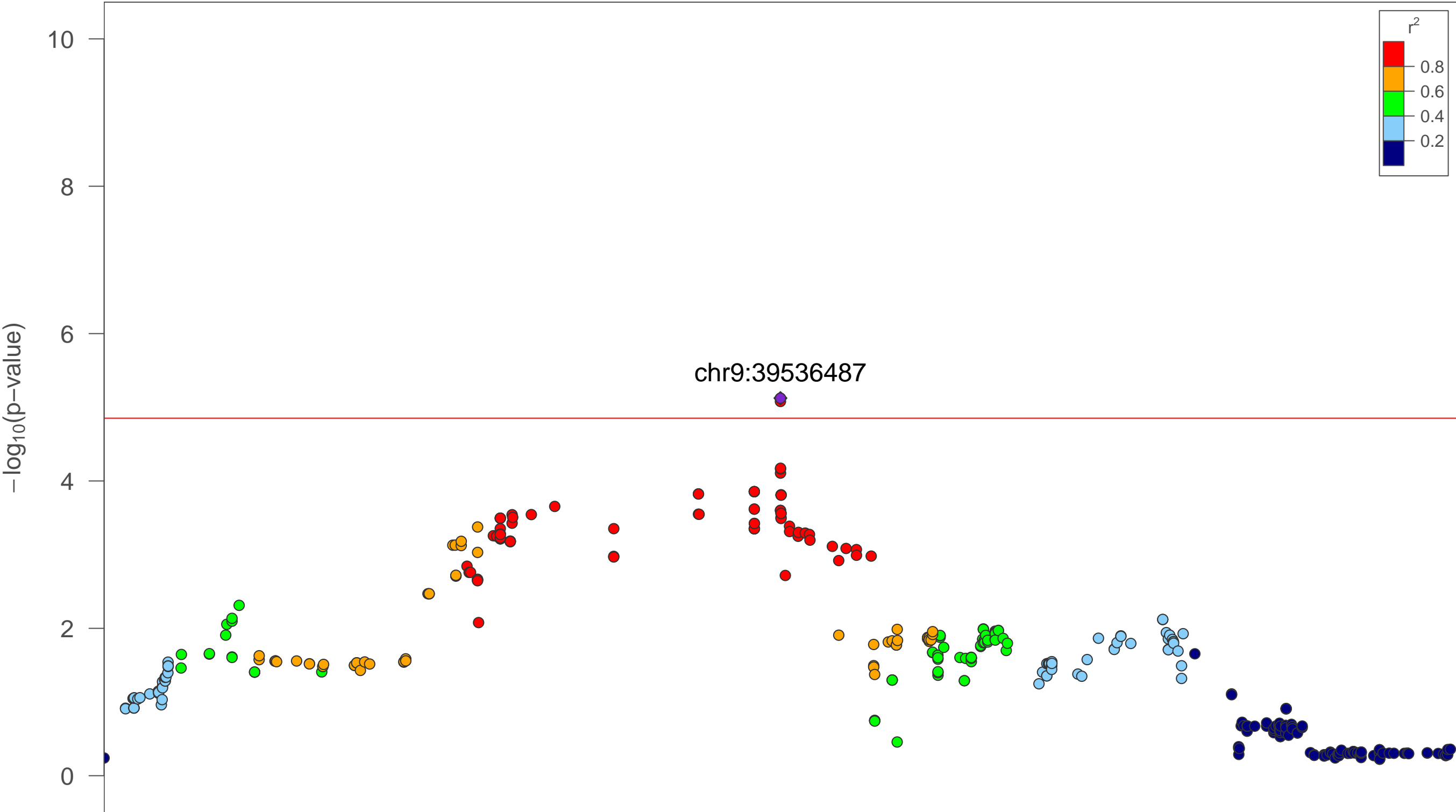
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:69827834	16	69.82783	0.008250572	Credible Set	purple
chr16:69939841	16	69.93984	0.013575024	Credible Set	purple
chr16:69939906	16	69.93991	0.008675613	Credible Set	purple
chr16:70116129	16	70.11613	0.017336091	Credible Set	purple
chr16:70116236	16	70.11624	0.013409284	Credible Set	purple
chr16:70124826	16	70.12483	0.011452122	Credible Set	purple
chr16:70124828	16	70.12483	0.011452122	Credible Set	purple
chr16:70124838	16	70.12484	0.011452122	Credible Set	purple
chr16:70124859	16	70.12486	0.011452122	Credible Set	purple
chr16:70124867	16	70.12487	0.011452122	Credible Set	purple
chr16:70124868	16	70.12487	0.011452122	Credible Set	purple
chr16:70124887	16	70.12489	0.011452122	Credible Set	purple
chr16:70124959	16	70.12496	0.008623924	Credible Set	purple
chr16:70124962	16	70.12496	0.008623924	Credible Set	purple
chr16:70124987	16	70.12499	0.008623924	Credible Set	purple
chr16:70125117	16	70.12512	0.003001133	Credible Set	purple
chr16:70125367	16	70.12537	0.006971344	Credible Set	purple
chr16:70125371	16	70.12537	0.006996982	Credible Set	purple
chr16:70125418	16	70.12542	0.007010792	Credible Set	purple
chr16:70140593	16	70.14059	0.044975696	Credible Set	purple
chr16:70140761	16	70.14076	0.005327267	Credible Set	purple
chr16:70140804	16	70.14080	0.005308280	Credible Set	purple
chr16:70146841	16	70.14684	0.043580539	Credible Set	purple
chr16:70146890	16	70.14689	0.043580539	Credible Set	purple
chr16:70309612	16	70.30961	0.044244068	Credible Set	purple
chr16:70309921	16	70.30992	0.044612838	Credible Set	purple
chr16:70311614	16	70.31161	0.057019078	Credible Set	purple
chr16:70314976	16	70.31498	0.054154550	Credible Set	purple
chr16:70323729	16	70.32373	0.050477142	Credible Set	purple
chr16:70324316	16	70.32432	0.046671903	Credible Set	purple
chr16:70324391	16	70.32439	0.047358827	Credible Set	purple
chr16:70341194	16	70.34119	0.049141270	Credible Set	purple
chr16:70341347	16	70.34135	0.027153292	Credible Set	purple
chr16:70341354	16	70.34135	0.027284663	Credible Set	purple
chr16:70341358	16	70.34136	0.027246633	Credible Set	purple
chr16:70395502	16	70.39550	0.048288713	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:70396913	16	70.39691	0.048411322	Credible Set	purple
chr16:70416028	16	70.41603	0.049357532	Credible Set	purple
chr16:70621955	16	70.62195	0.012817652	Credible Set	purple
chr16:70631684	16	70.63168	0.005194439	Credible Set	purple
chr16:70631718	16	70.63172	0.005201000	Credible Set	purple
chr16:70631722	16	70.63172	0.004885828	Credible Set	purple
chr16:71010303	16	71.01030	0.003440319	Credible Set	purple
chr16:71050225	16	71.05022	0.003338409	Credible Set	purple

F34 GBS, routine CBC mean platelet volume



168 genes
omitted

date: Thu Oct 25 17:01:26 2018

build: F34GBS

display range: chr9:34536487–44536487 [34536487–44536487]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:39536487

number of SNPs plotted: 396

min P-value: 7.51E–6 [chr9:39536487]

max P-value: 5.98E–1 [chr9:43965763]

omitted Genes: Tirap, Foxred1, Srpr

omitted Genes: Fam118b, Rpusd4, 4933422A05Rik

omitted Genes: Cdon, Pus3, Hyls1

omitted Genes: Pate4, Pate3, Pate2

omitted Genes: Pate1, Gm17677, Gm17727

omitted Genes: D730048I06Rik, 9230110F15Rik, Gm3428

omitted Genes: Gm5615, Gm17689, A630095E13Rik

omitted Genes: 1700027I24Rik, Acrv1, Chek1

omitted Genes: Stt3a, Ei24, Tmem218

omitted Genes: Slc37a2, Robo4, Robo3

omitted Genes: Msantd2, Vsig2, Nrgn

omitted Genes: Spa17, Siae, Tbrg1

omitted Genes: Panx3, Olfr160, Olfr151

omitted Genes: Olfr874, Olfr876, Olfr877

omitted Genes: Olfr145, Olfr878, Olfr881

omitted Genes: Olfr883, Olfr884, Olfr885

omitted Genes: Olfr888, Olfr889, Olfr890

omitted Genes: Olfr891, Olfr894, Olfr895

omitted Genes: Olfr25, Olfr898, Olfr250

omitted Genes: Olfr251, Olfr147, Olfr901

omitted Genes: Olfr902, Olfr904, Olfr905

omitted Genes: Olfr906, Olfr907, Olfr908

omitted Genes: Olfr911-ps1, Olfr912, Olfr913

omitted Genes: Olfr914, Olfr915, Olfr916

omitted Genes: Olfr917, Olfr918, Olfr919

omitted Genes: Vwa5a, Olfr920, Olfr921

omitted Genes: Olfr922, Olfr923, Olfr26

omitted Genes: Olfr926, Olfr930, Olfr934

omitted Genes: Olfr935, Olfr936, Olfr937

omitted Genes: Olfr938, Olfr27, Olfr943

omitted Genes: Olfr944, Olfr1537, Olfr945

omitted Genes: Olfr947, ps1, Olfr951, Olfr952

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

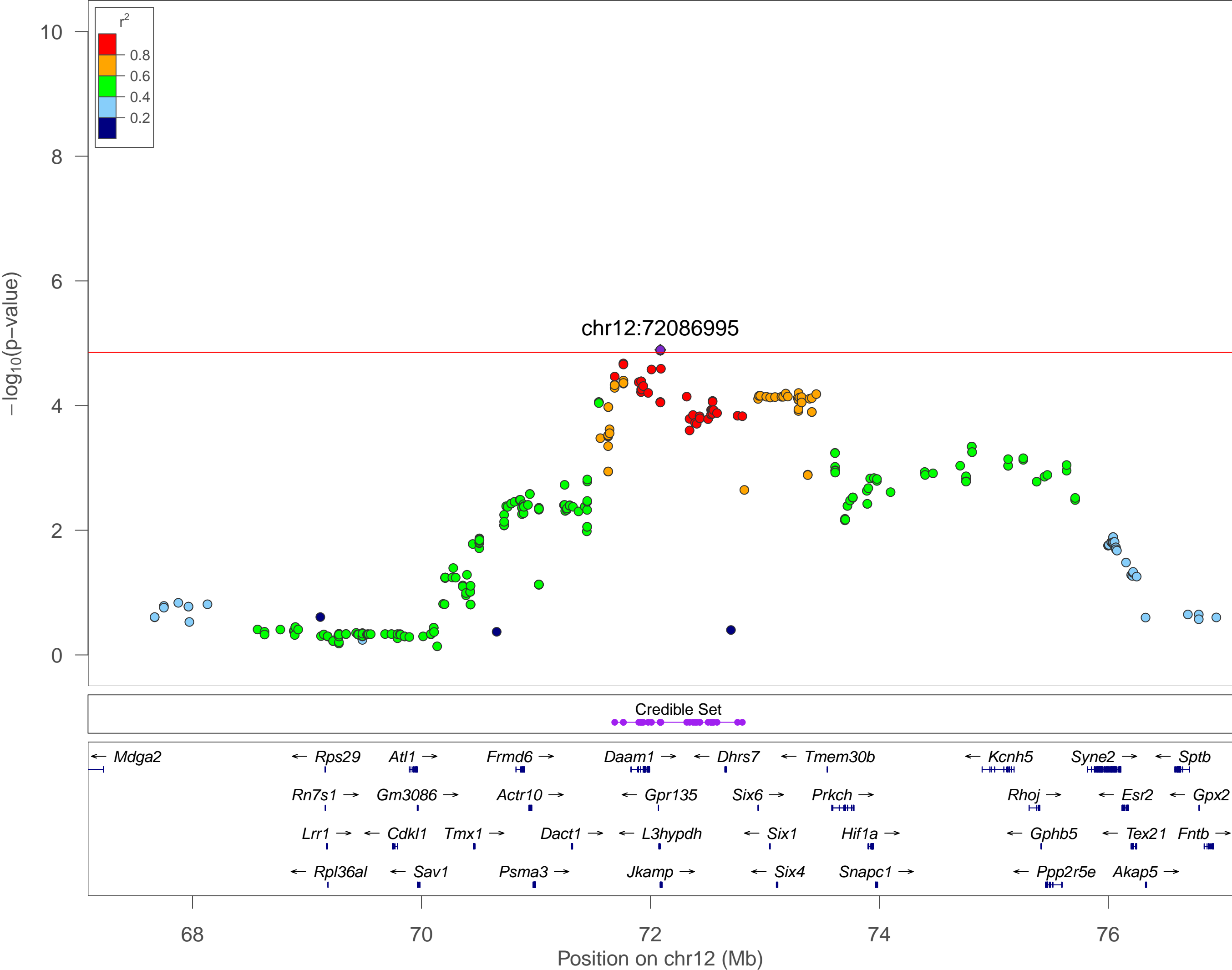
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr9:37414290	9	37.41429	0.003422972	Credible Set	purple
chr9:37438921	9	37.43892	0.003366014	Credible Set	purple
chr9:37465579	9	37.46558	0.004211718	Credible Set	purple
chr9:37465802	9	37.46580	0.005689811	Credible Set	purple
chr9:37465804	9	37.46580	0.005712100	Credible Set	purple
chr9:37465813	9	37.46581	0.005720340	Credible Set	purple
chr9:37465903	9	37.46590	0.003143168	Credible Set	purple
chr9:37465905	9	37.46590	0.003119966	Credible Set	purple
chr9:37465916	9	37.46592	0.003139806	Credible Set	purple
chr9:37465963	9	37.46596	0.003217177	Credible Set	purple
chr9:37466086	9	37.46609	0.003598142	Credible Set	purple
chr9:37466137	9	37.46614	0.003550052	Credible Set	purple
chr9:37539552	9	37.53955	0.002926010	Credible Set	purple
chr9:37539568	9	37.53957	0.002869104	Credible Set	purple
chr9:37539584	9	37.53958	0.002923584	Credible Set	purple
chr9:37539604	9	37.53960	0.002902147	Credible Set	purple
chr9:37552798	9	37.55280	0.004936077	Credible Set	purple
chr9:37553112	9	37.55311	0.006324244	Credible Set	purple
chr9:37557424	9	37.55742	0.005854382	Credible Set	purple
chr9:37695097	9	37.69510	0.006348683	Credible Set	purple
chr9:37868086	9	37.86809	0.008063101	Credible Set	purple
chr9:38304315	9	38.30432	0.001881520	Credible Set	purple
chr9:38304328	9	38.30433	0.001847651	Credible Set	purple
chr9:38304643	9	38.30464	0.004207367	Credible Set	purple
chr9:38930488	9	38.93049	0.011644150	Credible Set	purple
chr9:38930537	9	38.93054	0.011611415	Credible Set	purple
chr9:38930589	9	38.93059	0.006431069	Credible Set	purple
chr9:38935078	9	38.93508	0.006400153	Credible Set	purple
chr9:39343278	9	39.34328	0.012427759	Credible Set	purple
chr9:39343281	9	39.34328	0.012427759	Credible Set	purple
chr9:39343318	9	39.34332	0.012427759	Credible Set	purple
chr9:39343350	9	39.34335	0.012486147	Credible Set	purple
chr9:39343392	9	39.34339	0.007439149	Credible Set	purple
chr9:39343432	9	39.34343	0.007463132	Credible Set	purple
chr9:39343515	9	39.34351	0.004209055	Credible Set	purple
chr9:39343529	9	39.34353	0.004194884	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr9:39343543	9	39.34354	0.004194884	Credible Set	purple
chr9:39343573	9	39.34357	0.004194884	Credible Set	purple
chr9:39343574	9	39.34357	0.004194884	Credible Set	purple
chr9:39343835	9	39.34383	0.004907975	Credible Set	purple
chr9:39343836	9	39.34384	0.004888817	Credible Set	purple
chr9:39536486	9	39.53649	0.198249432	Credible Set	purple
chr9:39536487	9	39.53649	0.199624197	Credible Set	purple
chr9:39536502	9	39.53650	0.180698952	Credible Set	purple
chr9:39536802	9	39.53680	0.007177750	Credible Set	purple
chr9:39536806	9	39.53681	0.007167807	Credible Set	purple
chr9:39537143	9	39.53714	0.021501081	Credible Set	purple
chr9:39537177	9	39.53718	0.024301392	Credible Set	purple
chr9:39537178	9	39.53718	0.024833881	Credible Set	purple
chr9:39540755	9	39.54075	0.005834370	Credible Set	purple
chr9:39540852	9	39.54085	0.005659179	Credible Set	purple
chr9:39540971	9	39.54097	0.006569202	Credible Set	purple
chr9:39540972	9	39.54097	0.006574866	Credible Set	purple
chr9:39541231	9	39.54123	0.011349162	Credible Set	purple
chr9:39541239	9	39.54124	0.011284875	Credible Set	purple
chr9:39541258	9	39.54126	0.011218388	Credible Set	purple
chr9:39603580	9	39.60358	0.004517231	Credible Set	purple
chr9:39604144	9	39.60414	0.003867247	Credible Set	purple
chr9:39667289	9	39.66729	0.003367749	Credible Set	purple
chr9:39669535	9	39.66954	0.003774157	Credible Set	purple
chr9:39719870	9	39.71987	0.003698203	Credible Set	purple
chr9:39751082	9	39.75108	0.003555469	Credible Set	purple
chr9:39754805	9	39.75480	0.003010232	Credible Set	purple
chr9:39920209	9	39.92021	0.002512328	Credible Set	purple
chr9:39967389	9	39.96739	0.001665887	Credible Set	purple
chr9:40021684	9	40.02168	0.002365859	Credible Set	purple
chr9:40098115	9	40.09811	0.002289875	Credible Set	purple
chr9:40098581	9	40.09858	0.001942722	Credible Set	purple
chr9:40207245	9	40.20725	0.001895759	Credible Set	purple

F34 GBS, routine CBC mean platelet volume



date: Thu Oct 25 17:01:13 2018
build: F34GBS
display range: chr12:67086995–77086995 [67086995–77086995]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:72086995
number of SNPs plotted: 340
min P-value: 1.27E–5 [chr12:72086995]
max P-value: 7.27E–1 [chr12:70137276]
omitted Genes: Mgat2, Dnaaf2, 9330151L19Rik
omitted Genes: Pole2, Klhdc1, Klhdc2
omitted Genes: Nemf, Rn7s2, Arf6
omitted Genes: 5830428M24Rik, Vcpkmt, Sos2
omitted Genes: L2hgdh, Atp5s, Mir681
omitted Genes: 4930512B01Rik, Map4k5, 4931403G20Rik
omitted Genes: Nin, Abhd12b, Pygl
omitted Genes: F730035M05Rik, Trim9, 3110056K07Rik
omitted Genes: Arid4a, Tomm20l, Timm9
omitted Genes: 2700049A03Rik, 1700083H02Rik, 4930404H11Rik
omitted Genes: Ccdc175, Rtn1, Lrrc9
omitted Genes: Pcnx4, Ppm1a, 4930447C04Rik
omitted Genes: Mnat1, Trmt5, Slc38a6
omitted Genes: D830013O20Rik, 2210039B01Rik, Syt16
omitted Genes: 1700086L19Rik, Dbpht2, Wdr89
omitted Genes: Rplp2-ps1, Sgpp1, Mir5101
omitted Genes: Mthfd1, Zbtb25, Zbtb1
omitted Genes: Hspa2, Ppp1r36, Gm10451
omitted Genes: Mir5135, Plekhg3, AI463170
omitted Genes: Churc1, Rab15, Max

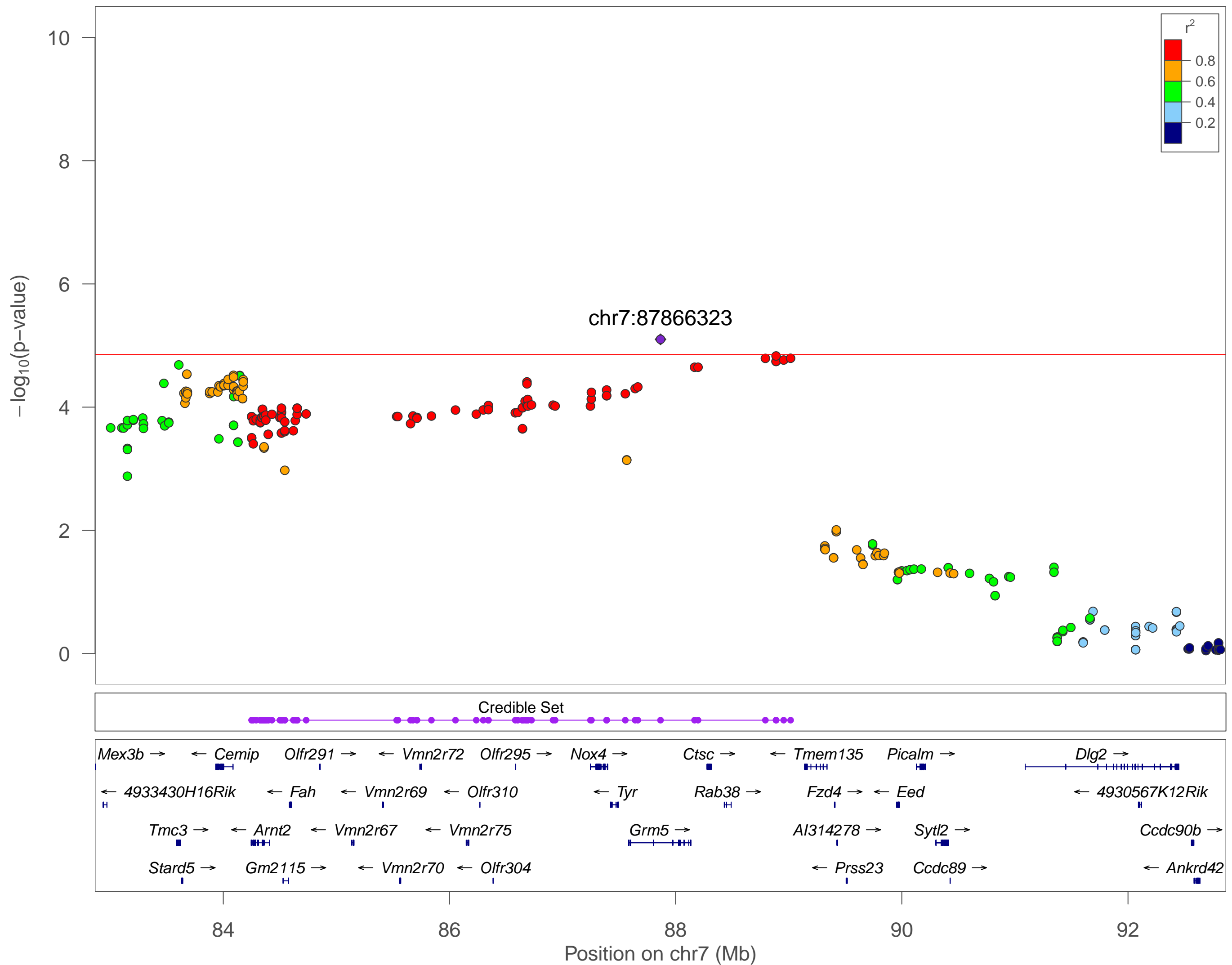
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:71688023	12	71.68802	0.035804279	Credible Set	purple
chr12:71763688	12	71.76369	0.056816257	Credible Set	purple
chr12:71764110	12	71.76411	0.054725343	Credible Set	purple
chr12:71898279	12	71.89828	0.029427655	Credible Set	purple
chr12:71918314	12	71.91831	0.020766950	Credible Set	purple
chr12:71919408	12	71.91941	0.022845369	Credible Set	purple
chr12:71919477	12	71.91948	0.030259950	Credible Set	purple
chr12:71919515	12	71.91952	0.030291080	Credible Set	purple
chr12:71919520	12	71.91952	0.030291080	Credible Set	purple
chr12:71923446	12	71.92345	0.022812867	Credible Set	purple
chr12:71937615	12	71.93761	0.025669447	Credible Set	purple
chr12:71980528	12	71.98053	0.020187761	Credible Set	purple
chr12:72009199	12	72.00920	0.045918376	Credible Set	purple
chr12:72086662	12	72.08666	0.014723900	Credible Set	purple
chr12:72086706	12	72.08671	0.014634966	Credible Set	purple
chr12:72086724	12	72.08672	0.014459619	Credible Set	purple
chr12:72086792	12	72.08679	0.088935759	Credible Set	purple
chr12:72086995	12	72.08700	0.091752314	Credible Set	purple
chr12:72087027	12	72.08703	0.091238103	Credible Set	purple
chr12:72091767	12	72.09177	0.047107639	Credible Set	purple
chr12:72316934	12	72.31693	0.017748789	Credible Set	purple
chr12:72342228	12	72.34223	0.008174200	Credible Set	purple
chr12:72372220	12	72.37222	0.009361947	Credible Set	purple
chr12:72389901	12	72.38990	0.007115213	Credible Set	purple
chr12:72404532	12	72.40453	0.006890577	Credible Set	purple
chr12:72430018	12	72.43002	0.008940829	Credible Set	purple
chr12:72432423	12	72.43242	0.008317797	Credible Set	purple
chr12:72503712	12	72.50371	0.008093364	Credible Set	purple
chr12:72530507	12	72.53051	0.011173208	Credible Set	purple
chr12:72531030	12	72.53103	0.009498292	Credible Set	purple
chr12:72531036	12	72.53104	0.009612957	Credible Set	purple
chr12:72534336	12	72.53434	0.010714374	Credible Set	purple
chr12:72542646	12	72.54265	0.011189095	Credible Set	purple
chr12:72542706	12	72.54271	0.009769147	Credible Set	purple
chr12:72543184	12	72.54318	0.015260124	Credible Set	purple
chr12:72543205	12	72.54321	0.014846908	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:72551877	12	72.55188	0.011070755	Credible Set	purple
chr12:72582082	12	72.58208	0.009998311	Credible Set	purple
chr12:72761155	12	72.76116	0.009115619	Credible Set	purple
chr12:72803219	12	72.80322	0.008967203	Credible Set	purple

F34 GBS, routine WBC differential white blood cell count



date: Thu Oct 25 17:02:03 2018
build: F34GBS
display range: chr7:82866323–92866323 [82866323–92866323]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87866323
number of SNPs plotted: 272
min P-value: 7.94E–6 [chr7:87866323]
max P-value: 8.93E–1 [chr7:92689613]
omitted Genes: Il16, Cfap161, Mesdc1
omitted Genes: Mesdc2, Abhd17c, Zfand6
omitted Genes: 2610206C17Rik, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r71
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr299, Olfr298, Olfr297
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77, Vmn2r78
omitted Genes: Vmn2r79, Me3, Ccdc81
omitted Genes: l7Rn6, E230029C05Rik, 2310010J17Rik
omitted Genes: Ccdc83, Crebzf, Tmem126a
omitted Genes: Tmem126b, Pcf11, 4632427E13Rik
omitted Genes: Rab30, Ddias

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.005842461	Credible Set	purple
chr7:84251011	7	84.25101	0.005822474	Credible Set	purple
chr7:84265685	7	84.26569	0.005053687	Credible Set	purple
chr7:84291540	7	84.29154	0.005344684	Credible Set	purple
chr7:84327288	7	84.32729	0.005250490	Credible Set	purple
chr7:84327808	7	84.32781	0.004707908	Credible Set	purple
chr7:84327850	7	84.32785	0.004781219	Credible Set	purple
chr7:84338595	7	84.33859	0.005694824	Credible Set	purple
chr7:84343118	7	84.34312	0.005632570	Credible Set	purple
chr7:84344805	7	84.34480	0.007499805	Credible Set	purple
chr7:84347423	7	84.34742	0.007578390	Credible Set	purple
chr7:84360038	7	84.36004	0.005936887	Credible Set	purple
chr7:84360626	7	84.36063	0.005872583	Credible Set	purple
chr7:84360642	7	84.36064	0.005872583	Credible Set	purple
chr7:84360703	7	84.36070	0.005872583	Credible Set	purple
chr7:84360714	7	84.36071	0.005872583	Credible Set	purple
chr7:84360716	7	84.36072	0.005872583	Credible Set	purple
chr7:84375526	7	84.37553	0.006162539	Credible Set	purple
chr7:84375577	7	84.37558	0.005161287	Credible Set	purple
chr7:84375642	7	84.37564	0.005161287	Credible Set	purple
chr7:84397575	7	84.39758	0.003135446	Credible Set	purple
chr7:84397597	7	84.39760	0.003135446	Credible Set	purple
chr7:84430102	7	84.43010	0.006337133	Credible Set	purple
chr7:84501082	7	84.50108	0.005628534	Credible Set	purple
chr7:84514082	7	84.51408	0.006610877	Credible Set	purple
chr7:84514444	7	84.51444	0.006903711	Credible Set	purple
chr7:84514505	7	84.51450	0.007875050	Credible Set	purple
chr7:84514564	7	84.51456	0.003276428	Credible Set	purple
chr7:84514575	7	84.51457	0.003296762	Credible Set	purple
chr7:84514734	7	84.51473	0.005598543	Credible Set	purple
chr7:84543346	7	84.54335	0.003440904	Credible Set	purple
chr7:84543355	7	84.54336	0.003574188	Credible Set	purple
chr7:84543782	7	84.54378	0.004863619	Credible Set	purple
chr7:84619632	7	84.61963	0.003553096	Credible Set	purple
chr7:84636759	7	84.63676	0.005073750	Credible Set	purple
chr7:84653095	7	84.65309	0.006302011	Credible Set	purple

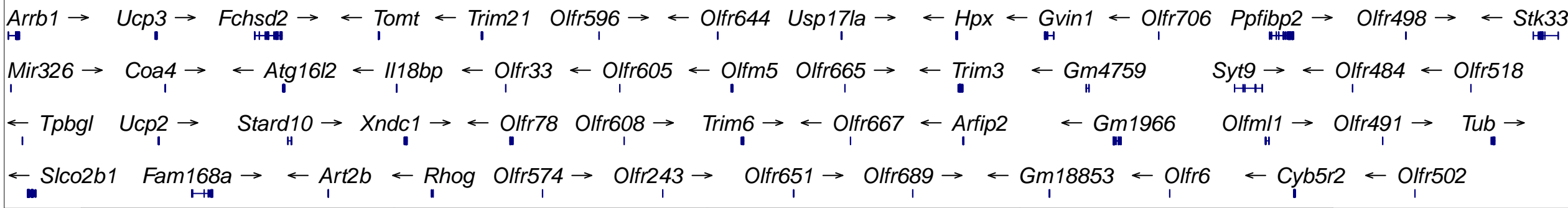
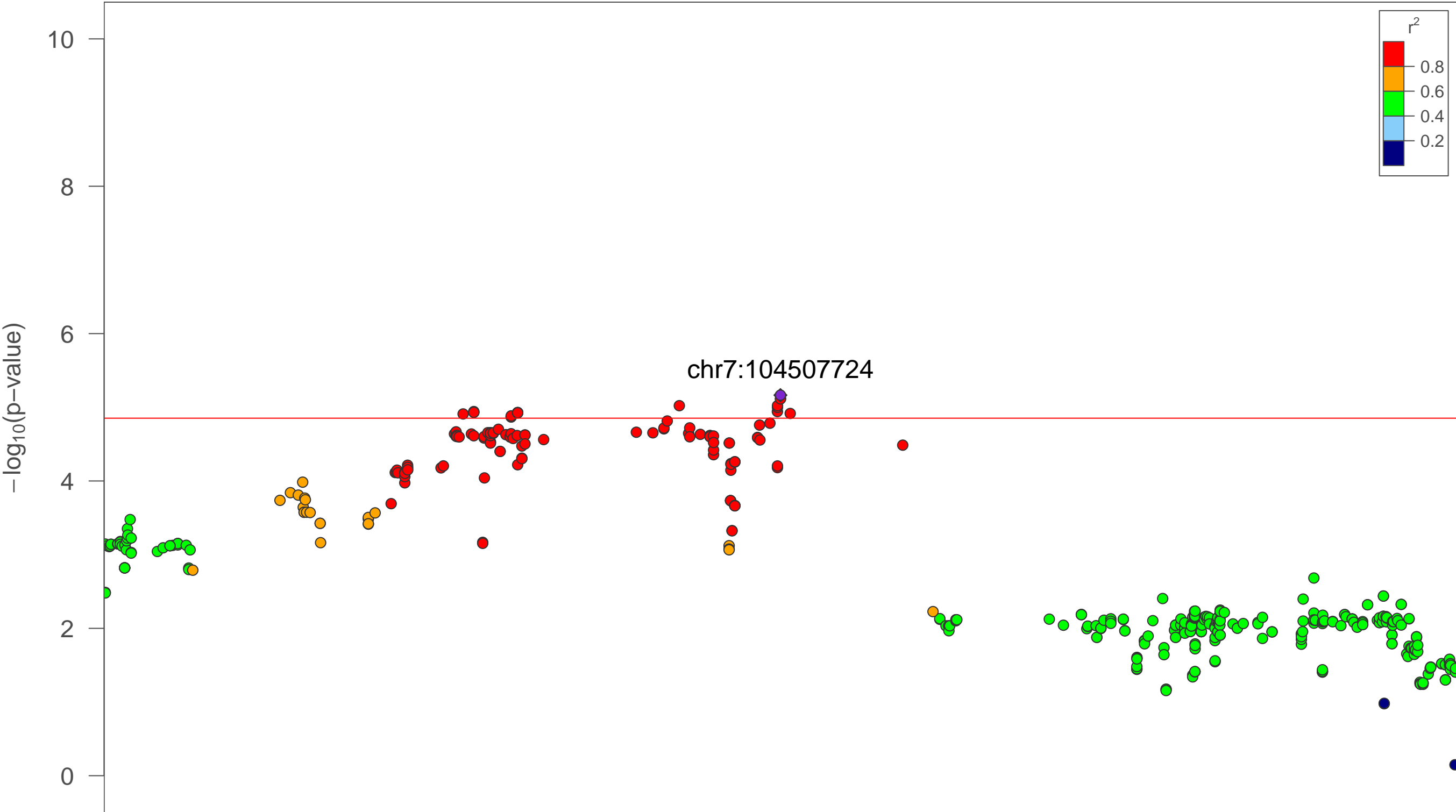
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84653660	7	84.65366	0.007889859	Credible Set	purple
chr7:84653702	7	84.65370	0.007805421	Credible Set	purple
chr7:84653707	7	84.65371	0.007842187	Credible Set	purple
chr7:84733186	7	84.73319	0.006423158	Credible Set	purple
chr7:85533207	7	85.53321	0.005864151	Credible Set	purple
chr7:85543843	7	85.54384	0.005864696	Credible Set	purple
chr7:85656243	7	85.65624	0.004561726	Credible Set	purple
chr7:85677494	7	85.67749	0.005984206	Credible Set	purple
chr7:85712663	7	85.71266	0.005681281	Credible Set	purple
chr7:85712975	7	85.71298	0.005519092	Credible Set	purple
chr7:85840665	7	85.84067	0.005963647	Credible Set	purple
chr7:86053386	7	86.05339	0.007364597	Credible Set	purple
chr7:86237374	7	86.23737	0.006370283	Credible Set	purple
chr7:86298979	7	86.29898	0.007388638	Credible Set	purple
chr7:86344420	7	86.34442	0.008471295	Credible Set	purple
chr7:86344437	7	86.34444	0.008652510	Credible Set	purple
chr7:86344488	7	86.34449	0.007467535	Credible Set	purple
chr7:86582139	7	86.58214	0.006677627	Credible Set	purple
chr7:86603770	7	86.60377	0.006743165	Credible Set	purple
chr7:86645719	7	86.64572	0.003796364	Credible Set	purple
chr7:86645792	7	86.64579	0.003832019	Credible Set	purple
chr7:86645947	7	86.64595	0.007970007	Credible Set	purple
chr7:86645990	7	86.64599	0.008014571	Credible Set	purple
chr7:86668998	7	86.66900	0.010065420	Credible Set	purple
chr7:86685426	7	86.68543	0.019941447	Credible Set	purple
chr7:86685507	7	86.68551	0.018570266	Credible Set	purple
chr7:86685648	7	86.68565	0.008771573	Credible Set	purple
chr7:86692214	7	86.69221	0.010704621	Credible Set	purple
chr7:86692491	7	86.69249	0.008450428	Credible Set	purple
chr7:86725518	7	86.72552	0.008818564	Credible Set	purple
chr7:86916161	7	86.91616	0.008757632	Credible Set	purple
chr7:86934710	7	86.93471	0.008484704	Credible Set	purple
chr7:87246786	7	87.24679	0.008476837	Credible Set	purple
chr7:87254690	7	87.25469	0.010871267	Credible Set	purple
chr7:87255156	7	87.25516	0.013773680	Credible Set	purple
chr7:87389952	7	87.38995	0.014965327	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87389989	7	87.38999	0.01219040	Credible Set	purple
chr7:87390014	7	87.39001	0.01226061	Credible Set	purple
chr7:87554961	7	87.55496	0.01308847	Credible Set	purple
chr7:87642045	7	87.64204	0.01571216	Credible Set	purple
chr7:87665727	7	87.66573	0.01666577	Credible Set	purple
chr7:87866323	7	87.86632	0.09063412	Credible Set	purple
chr7:88167216	7	88.16722	0.03354206	Credible Set	purple
chr7:88198240	7	88.19824	0.03355873	Credible Set	purple
chr7:88793653	7	88.79365	0.04597496	Credible Set	purple
chr7:88888100	7	88.88810	0.04127148	Credible Set	purple
chr7:88888124	7	88.88812	0.04127148	Credible Set	purple
chr7:88888200	7	88.88820	0.05013049	Credible Set	purple
chr7:88955188	7	88.95519	0.04334955	Credible Set	purple
chr7:89016577	7	89.01658	0.04618414	Credible Set	purple

F34 GBS, routine WBC differential white blood cell count



269 genes
omitted

date: Thu Oct 25 17:01:51 2018

build: F34GBS

display range: chr7:99507724–109507724 [99507724–109507724]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104507724

number of SNPs plotted: 453

min P-value: 6.84E–6 [chr7:104507724]

max P-value: 7.11E–1 [chr7:109493860]

omitted Genes: Olfr520, Olfr521, Neu3

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Chrdl2, Pold3, Lipt2

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: P4ha3, Ppme1, C2cd3

omitted Genes: Dnajb13, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Relt, Arhgef17

omitted Genes: Mir3102, P2ry6, P2ry2

omitted Genes: Arap1, Pde2a, Mir139

omitted Genes: Art2a-ps, Clpb, Phox2a

omitted Genes: Inpp1, Folr2, Folr1

omitted Genes: Anapc15, Lamtor1, Lrrc51

omitted Genes: Numa1, Rnf121, Xntrpc

omitted Genes: Trpc2, Art5, Art1

omitted Genes: Chrna10, Nup98, Pgap2

omitted Genes: Stim1, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr549, Olfr550, Olfr551

omitted Genes: Olfr552, Olfr553, Olfr554

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr560, Olfr561, Olfr564

omitted Genes: Olfr566, Olfr568, Olfr569

omitted Genes: Olfr570, Olfr571, Olfr572

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr583

omitted Genes: Olfr584, Olfr585, Olfr586

omitted Genes: Olfr589, Olfr591, Olfr592

omitted Genes: Olfr593, Olfr594, Usp17ld

omitted Genes: Olfr597, Olfr598, Olfr599

omitted Genes: Olfr600, Olfr601, Olfr603

omitted Genes: Usp17lc, Olfr606, Olfr609

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.002947822	Credible Set	purple
chr7:101669186	7	101.6692	0.002986122	Credible Set	purple
chr7:101673483	7	101.6735	0.003165845	Credible Set	purple
chr7:101680140	7	101.6801	0.002925323	Credible Set	purple
chr7:101731061	7	101.7311	0.002990668	Credible Set	purple
chr7:101731110	7	101.7311	0.002174403	Credible Set	purple
chr7:101731130	7	101.7311	0.002611160	Credible Set	purple
chr7:101731658	7	101.7317	0.002882023	Credible Set	purple
chr7:101751790	7	101.7518	0.003659142	Credible Set	purple
chr7:101752580	7	101.7526	0.003433699	Credible Set	purple
chr7:101752971	7	101.7530	0.003192238	Credible Set	purple
chr7:101998679	7	101.9987	0.003380757	Credible Set	purple
chr7:102016307	7	102.0163	0.003587087	Credible Set	purple
chr7:102098054	7	102.0981	0.009274583	Credible Set	purple
chr7:102110109	7	102.1101	0.009854129	Credible Set	purple
chr7:102110501	7	102.1105	0.008638142	Credible Set	purple
chr7:102116318	7	102.1163	0.008859280	Credible Set	purple
chr7:102116430	7	102.1164	0.008859280	Credible Set	purple
chr7:102116478	7	102.1165	0.008555806	Credible Set	purple
chr7:102132562	7	102.1326	0.008467642	Credible Set	purple
chr7:102162058	7	102.1621	0.016793280	Credible Set	purple
chr7:102223396	7	102.2234	0.009244404	Credible Set	purple
chr7:102240695	7	102.2407	0.008762541	Credible Set	purple
chr7:102241191	7	102.2412	0.018032301	Credible Set	purple
chr7:102241211	7	102.2412	0.017605212	Credible Set	purple
chr7:102241212	7	102.2412	0.017636586	Credible Set	purple
chr7:102317213	7	102.3172	0.008197054	Credible Set	purple
chr7:102317246	7	102.3172	0.008540130	Credible Set	purple
chr7:102319586	7	102.3196	0.002515012	Credible Set	purple
chr7:102344970	7	102.3450	0.009606139	Credible Set	purple
chr7:102363897	7	102.3639	0.009620264	Credible Set	purple
chr7:102364204	7	102.3642	0.007336519	Credible Set	purple
chr7:102364223	7	102.3642	0.007054151	Credible Set	purple
chr7:102364315	7	102.3643	0.008821599	Credible Set	purple
chr7:102364326	7	102.3643	0.008821599	Credible Set	purple
chr7:102364411	7	102.3644	0.009415387	Credible Set	purple

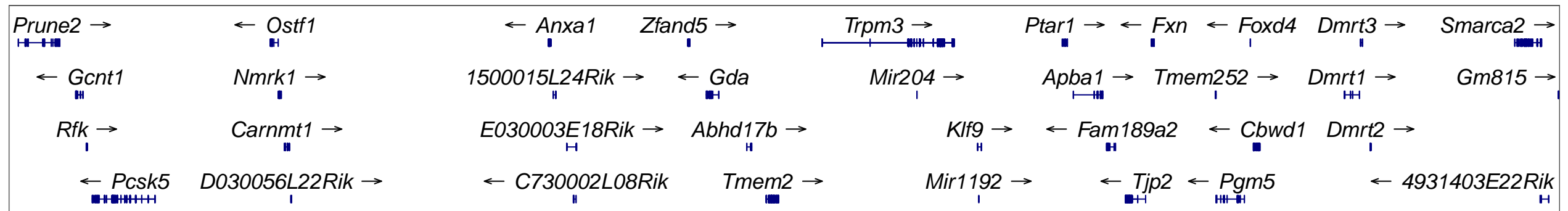
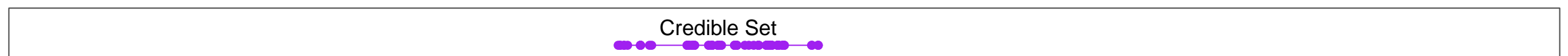
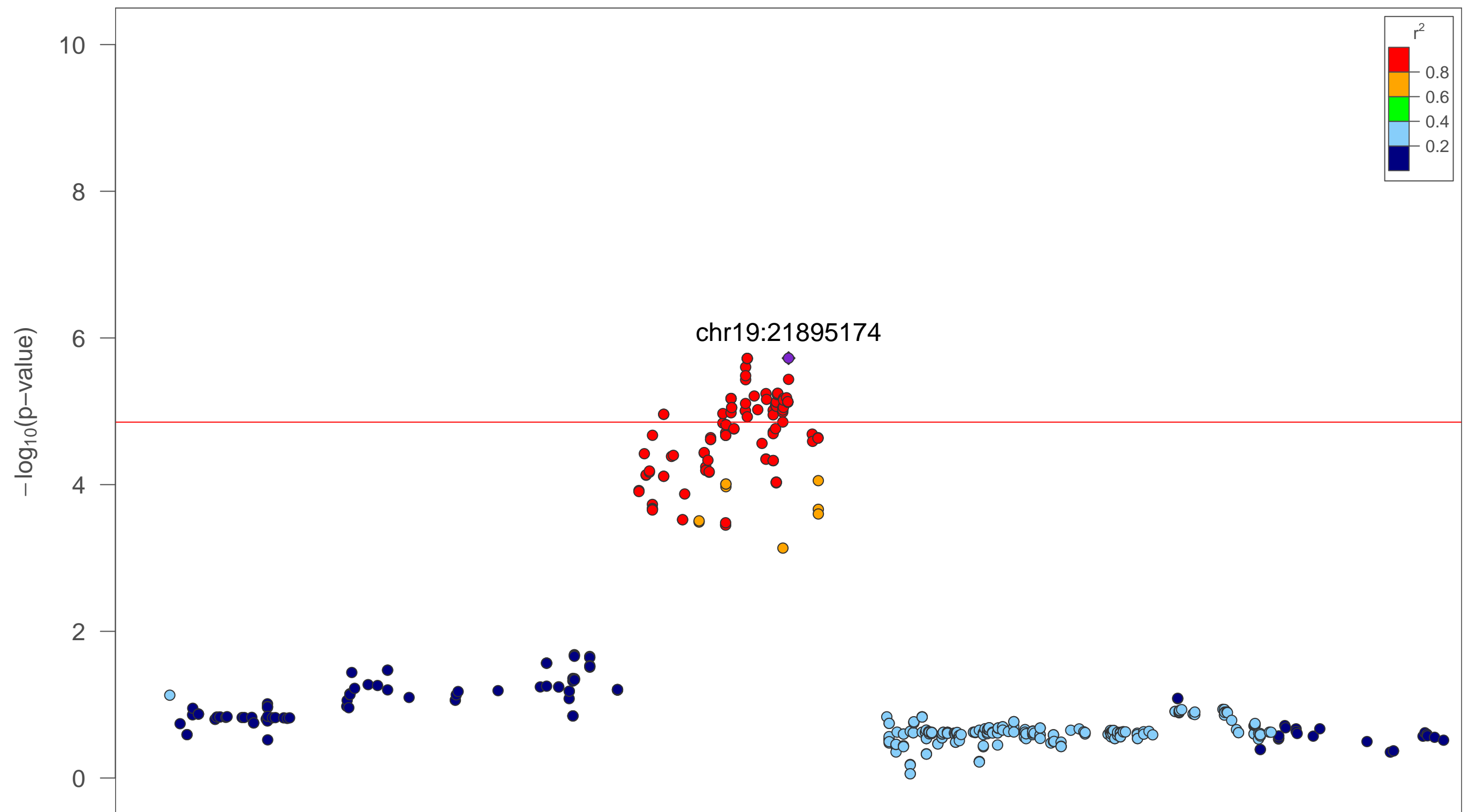
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102385520	7	102.3855	0.009422644	Credible Set	purple
chr7:102385536	7	102.3855	0.009588643	Credible Set	purple
chr7:102423165	7	102.4232	0.010639022	Credible Set	purple
chr7:102435692	7	102.4357	0.005507396	Credible Set	purple
chr7:102435720	7	102.4357	0.005507396	Credible Set	purple
chr7:102478469	7	102.4785	0.009058694	Credible Set	purple
chr7:102510475	7	102.5105	0.008575601	Credible Set	purple
chr7:102510607	7	102.5106	0.008430344	Credible Set	purple
chr7:102516878	7	102.5169	0.009321505	Credible Set	purple
chr7:102517238	7	102.5172	0.015357203	Credible Set	purple
chr7:102517241	7	102.5172	0.015341995	Credible Set	purple
chr7:102517247	7	102.5172	0.015863699	Credible Set	purple
chr7:102531652	7	102.5317	0.008086830	Credible Set	purple
chr7:102561708	7	102.5617	0.008830154	Credible Set	purple
chr7:102565262	7	102.5653	0.017490592	Credible Set	purple
chr7:102565292	7	102.5653	0.017347028	Credible Set	purple
chr7:102565307	7	102.5653	0.017521476	Credible Set	purple
chr7:102565323	7	102.5653	0.017377646	Credible Set	purple
chr7:102565329	7	102.5653	0.017377646	Credible Set	purple
chr7:102565410	7	102.5654	0.003709602	Credible Set	purple
chr7:102596442	7	102.5964	0.006464016	Credible Set	purple
chr7:102596578	7	102.5966	0.004511411	Credible Set	purple
chr7:102596636	7	102.5966	0.004443758	Credible Set	purple
chr7:102619418	7	102.6194	0.008982864	Credible Set	purple
chr7:102619431	7	102.6194	0.008957417	Credible Set	purple
chr7:102619466	7	102.6195	0.006884649	Credible Set	purple
chr7:102757499	7	102.7575	0.007829380	Credible Set	purple
chr7:103442570	7	103.4426	0.009741931	Credible Set	purple
chr7:103564836	7	103.5648	0.009571513	Credible Set	purple
chr7:103646439	7	103.6464	0.010767138	Credible Set	purple
chr7:103646709	7	103.6467	0.011039266	Credible Set	purple
chr7:103671033	7	103.6710	0.013611164	Credible Set	purple
chr7:103760301	7	103.7603	0.021492054	Credible Set	purple
chr7:103829200	7	103.8292	0.009423901	Credible Set	purple
chr7:103837099	7	103.8371	0.011088190	Credible Set	purple
chr7:103837213	7	103.8372	0.008502119	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103915503	7	103.9155	0.009147836	Credible Set	purple
chr7:103986792	7	103.9868	0.008826500	Credible Set	purple
chr7:103986795	7	103.9868	0.008826500	Credible Set	purple
chr7:103986857	7	103.9869	0.008548117	Credible Set	purple
chr7:103986860	7	103.9869	0.008548117	Credible Set	purple
chr7:104012808	7	104.0128	0.008714889	Credible Set	purple
chr7:104013370	7	104.0134	0.004993329	Credible Set	purple
chr7:104013395	7	104.0134	0.005737745	Credible Set	purple
chr7:104013467	7	104.0135	0.007168033	Credible Set	purple
chr7:104129734	7	104.1297	0.007066361	Credible Set	purple
chr7:104129736	7	104.1297	0.007066361	Credible Set	purple
chr7:104138936	7	104.1389	0.001289798	Credible Set	purple
chr7:104138968	7	104.1390	0.001289798	Credible Set	purple
chr7:104141343	7	104.1413	0.003154168	Credible Set	purple
chr7:104141705	7	104.1417	0.003837844	Credible Set	purple
chr7:104141768	7	104.1418	0.003756126	Credible Set	purple
chr7:104170588	7	104.1706	0.004039617	Credible Set	purple
chr7:104170594	7	104.1706	0.004024903	Credible Set	purple
chr7:104170618	7	104.1706	0.004047853	Credible Set	purple
chr7:104170662	7	104.1707	0.004047853	Credible Set	purple
chr7:104338784	7	104.3388	0.008341737	Credible Set	purple
chr7:104338810	7	104.3388	0.008275938	Credible Set	purple
chr7:104353491	7	104.3535	0.012048517	Credible Set	purple
chr7:104356230	7	104.3562	0.007725665	Credible Set	purple
chr7:104430205	7	104.4302	0.012740275	Credible Set	purple
chr7:104485236	7	104.4852	0.018029211	Credible Set	purple
chr7:104485721	7	104.4857	0.003407890	Credible Set	purple
chr7:104485727	7	104.4857	0.003581521	Credible Set	purple
chr7:104486022	7	104.4860	0.020443497	Credible Set	purple
chr7:104486041	7	104.4860	0.021482585	Credible Set	purple
chr7:104507724	7	104.5077	0.029421529	Credible Set	purple
chr7:104508127	7	104.5081	0.026461520	Credible Set	purple
chr7:104508173	7	104.5082	0.026290096	Credible Set	purple
chr7:104580091	7	104.5801	0.017032766	Credible Set	purple
chr7:105411752	7	105.4118	0.006632638	Credible Set	purple

F34 GBS, routine WBC differential white blood cell count



16 genes
omitted

Position on chr19 (Mb)

date: Thu Oct 25 17:01:36 2018

build: F34GBS

display range: chr19:16895174–26895174 [16895174–26895174]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21895174

number of SNPs plotted: 470

min P-value: 1.88E–6 [chr19:21895174]

max P-value: 8.76E–1 [chr19:22798742]

omitted Genes: Trpm6, Rorb, Aldh1a1

omitted Genes: Aldh1a7, Tmc1, 4930554I06Rik

omitted Genes: 1110059E24Rik, Smc5, Mamdc2

omitted Genes: 1700028P14Rik, Pip5k1b, Fam122a

omitted Genes: Mir3084–1, Dock8, Kank1

omitted Genes: 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20824062	19	20.82406	0.002585794	Credible Set	purple
chr19:20837340	19	20.83734	0.001363790	Credible Set	purple
chr19:20837342	19	20.83734	0.001382413	Credible Set	purple
chr19:20861811	19	20.86181	0.001489729	Credible Set	purple
chr19:20861821	19	20.86182	0.001545357	Credible Set	purple
chr19:20884530	19	20.88453	0.004479106	Credible Set	purple
chr19:20967742	19	20.96774	0.001319861	Credible Set	purple
chr19:20967772	19	20.96777	0.001322070	Credible Set	purple
chr19:20967840	19	20.96784	0.008395932	Credible Set	purple
chr19:20967865	19	20.96786	0.008409044	Credible Set	purple
chr19:21025668	19	21.02567	0.002384590	Credible Set	purple
chr19:21039744	19	21.03974	0.002462130	Credible Set	purple
chr19:21268525	19	21.26853	0.002643325	Credible Set	purple
chr19:21268527	19	21.26853	0.002651431	Credible Set	purple
chr19:21268550	19	21.26855	0.002674964	Credible Set	purple
chr19:21280282	19	21.28028	0.001746321	Credible Set	purple
chr19:21280286	19	21.28029	0.001572745	Credible Set	purple
chr19:21296098	19	21.29610	0.002126306	Credible Set	purple
chr19:21305518	19	21.30552	0.001490133	Credible Set	purple
chr19:21305568	19	21.30557	0.001515579	Credible Set	purple
chr19:21316234	19	21.31623	0.004175380	Credible Set	purple
chr19:21316268	19	21.31627	0.003944184	Credible Set	purple
chr19:21316305	19	21.31630	0.003962344	Credible Set	purple
chr19:21407108	19	21.40711	0.006454658	Credible Set	purple
chr19:21407182	19	21.40718	0.008588335	Credible Set	purple
chr19:21428151	19	21.42815	0.004829997	Credible Set	purple
chr19:21428338	19	21.42834	0.004467193	Credible Set	purple
chr19:21428343	19	21.42834	0.004467193	Credible Set	purple
chr19:21430361	19	21.43036	0.006153998	Credible Set	purple
chr19:21430412	19	21.43041	0.006138345	Credible Set	purple
chr19:21467882	19	21.46788	0.008793568	Credible Set	purple
chr19:21467967	19	21.46797	0.013428357	Credible Set	purple
chr19:21467982	19	21.46798	0.013506313	Credible Set	purple
chr19:21467985	19	21.46798	0.013506313	Credible Set	purple
chr19:21467987	19	21.46799	0.013467367	Credible Set	purple
chr19:21472509	19	21.47251	0.010292809	Credible Set	purple

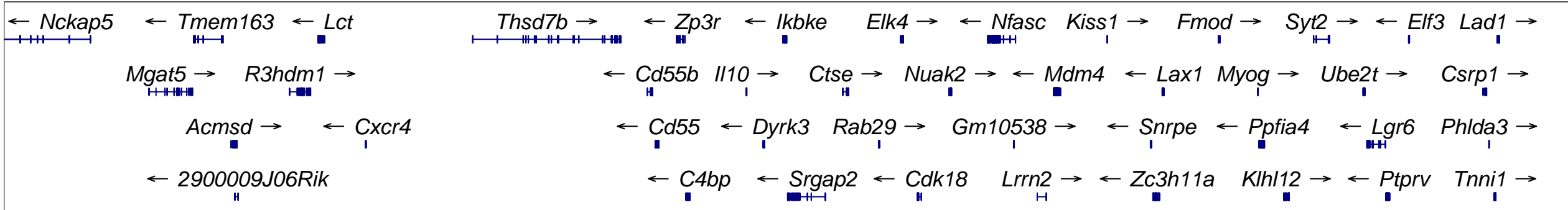
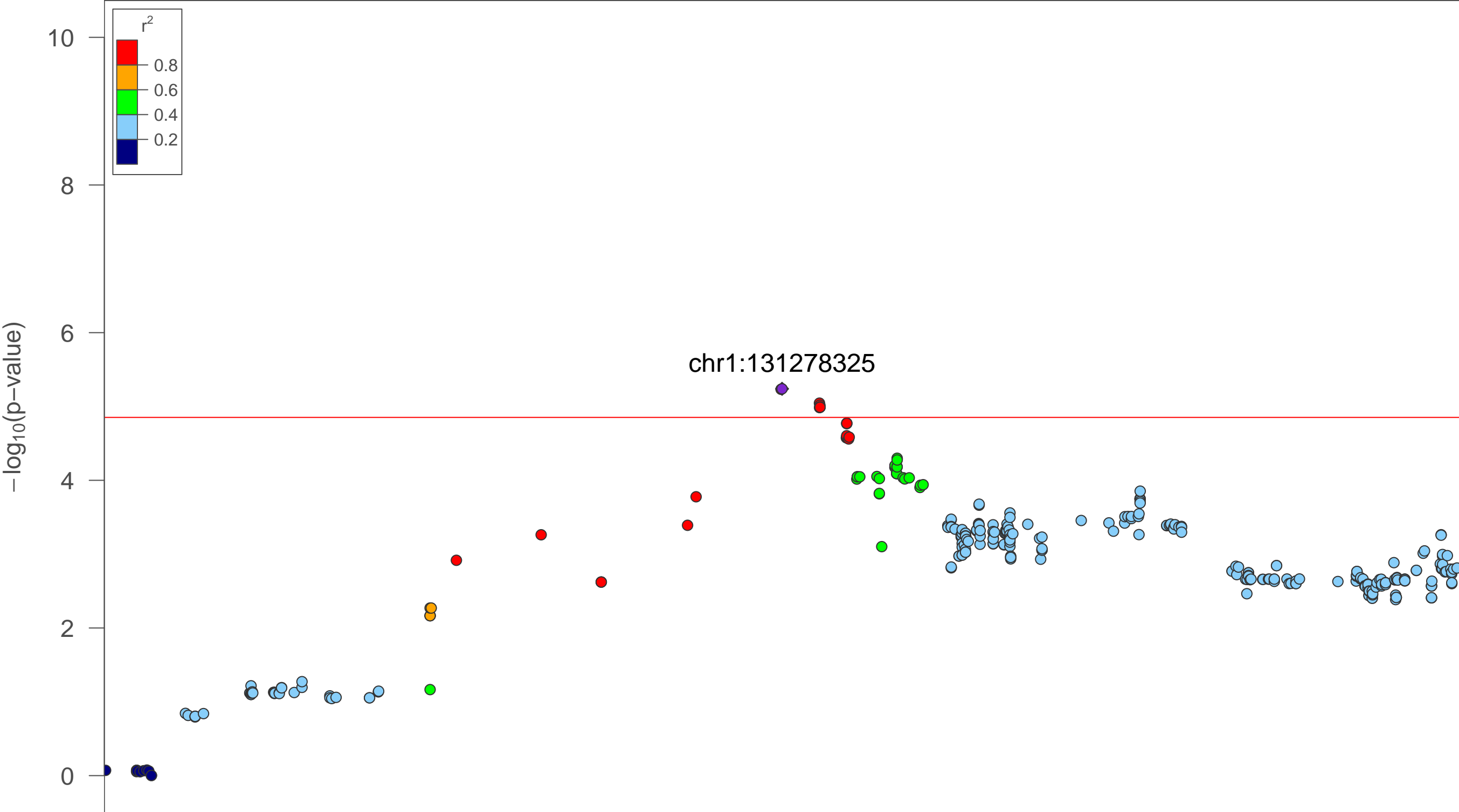
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21472526	19	21.47253	0.010257024	Credible Set	purple
chr19:21489550	19	21.48955	0.005412916	Credible Set	purple
chr19:21489579	19	21.48958	0.005467641	Credible Set	purple
chr19:21574198	19	21.57420	0.009320179	Credible Set	purple
chr19:21574202	19	21.57420	0.009346112	Credible Set	purple
chr19:21575782	19	21.57578	0.011615154	Credible Set	purple
chr19:21576364	19	21.57636	0.034714558	Credible Set	purple
chr19:21576365	19	21.57636	0.023734065	Credible Set	purple
chr19:21576374	19	21.57637	0.026780454	Credible Set	purple
chr19:21588462	19	21.58846	0.045063501	Credible Set	purple
chr19:21588470	19	21.58847	0.045005342	Credible Set	purple
chr19:21588527	19	21.58853	0.044776888	Credible Set	purple
chr19:21588528	19	21.58853	0.045107340	Credible Set	purple
chr19:21588608	19	21.58861	0.007800315	Credible Set	purple
chr19:21640403	19	21.64040	0.014535903	Credible Set	purple
chr19:21666239	19	21.66624	0.009647457	Credible Set	purple
chr19:21697884	19	21.69788	0.003516256	Credible Set	purple
chr19:21727318	19	21.72732	0.002211662	Credible Set	purple
chr19:21727391	19	21.72739	0.002191642	Credible Set	purple
chr19:21727561	19	21.72756	0.015647139	Credible Set	purple
chr19:21731633	19	21.73163	0.013131097	Credible Set	purple
chr19:21780788	19	21.78079	0.009483067	Credible Set	purple
chr19:21780850	19	21.78085	0.008262784	Credible Set	purple
chr19:21780922	19	21.78092	0.002102234	Credible Set	purple
chr19:21780928	19	21.78093	0.002099716	Credible Set	purple
chr19:21780934	19	21.78093	0.002111114	Credible Set	purple
chr19:21780935	19	21.78093	0.002111114	Credible Set	purple
chr19:21781005	19	21.78101	0.004950729	Credible Set	purple
chr19:21781019	19	21.78102	0.004702405	Credible Set	purple
chr19:21798450	19	21.79845	0.010984485	Credible Set	purple
chr19:21798541	19	21.79854	0.005465049	Credible Set	purple
chr19:21803806	19	21.80381	0.001112543	Credible Set	purple
chr19:21804356	19	21.80436	0.010674368	Credible Set	purple
chr19:21804420	19	21.80442	0.012092035	Credible Set	purple
chr19:21804582	19	21.80458	0.012166277	Credible Set	purple
chr19:21812258	19	21.81226	0.015158100	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21812298	19	21.81230	0.015237991	Credible Set	purple
chr19:21812594	19	21.81259	0.015614975	Credible Set	purple
chr19:21814790	19	21.81479	0.015708525	Credible Set	purple
chr19:21814806	19	21.81481	0.015794260	Credible Set	purple
chr19:21851795	19	21.85179	0.008952670	Credible Set	purple
chr19:21852236	19	21.85224	0.010187775	Credible Set	purple
chr19:21852273	19	21.85227	0.009546923	Credible Set	purple
chr19:21852296	19	21.85230	0.006664577	Credible Set	purple
chr19:21857059	19	21.85706	0.010695036	Credible Set	purple
chr19:21857128	19	21.85713	0.010316721	Credible Set	purple
chr19:21857704	19	21.85770	0.013519818	Credible Set	purple
chr19:21857707	19	21.85771	0.012844288	Credible Set	purple
chr19:21880097	19	21.88010	0.013786204	Credible Set	purple
chr19:21889764	19	21.88976	0.012094988	Credible Set	purple
chr19:21889768	19	21.88977	0.012127490	Credible Set	purple
chr19:21889777	19	21.88978	0.012094988	Credible Set	purple
chr19:21889831	19	21.88983	0.012121119	Credible Set	purple
chr19:21889832	19	21.88983	0.012134329	Credible Set	purple
chr19:21889838	19	21.88984	0.012277854	Credible Set	purple
chr19:21895163	19	21.89516	0.023993456	Credible Set	purple
chr19:21895174	19	21.89517	0.045457301	Credible Set	purple
chr19:22070939	19	22.07094	0.004641355	Credible Set	purple
chr19:22073618	19	22.07362	0.003737414	Credible Set	purple
chr19:22113626	19	22.11363	0.004175365	Credible Set	purple
chr19:22113628	19	22.11363	0.004116085	Credible Set	purple
chr19:22113687	19	22.11369	0.004108361	Credible Set	purple

F34 GBS, routine WBC differential lymphocyte number



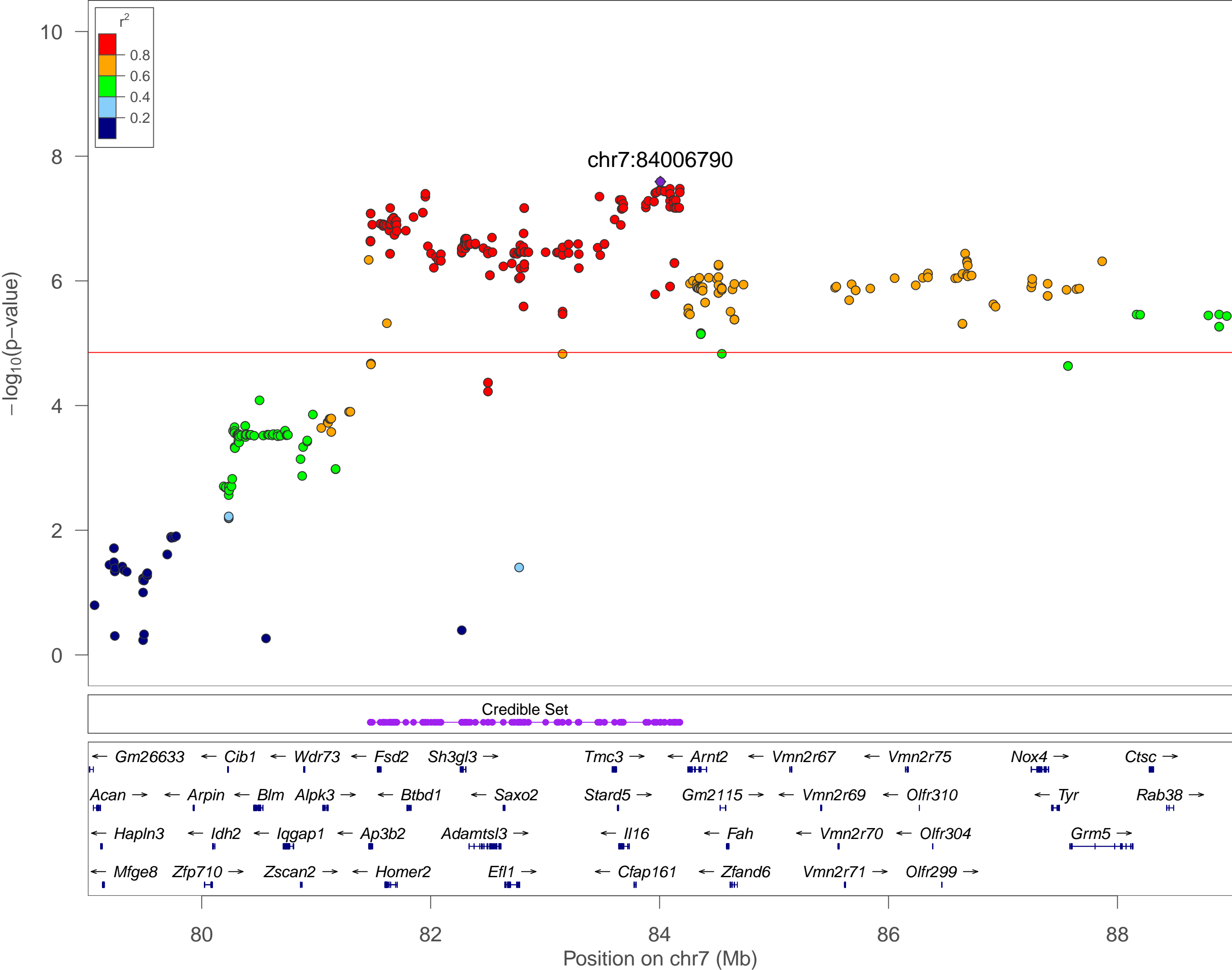
85 genes
omitted

date: Thu Oct 25 17:02:15 2018
build: F34GBS
display range: chr1:126278325–136278325 [126278325–136278325]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:131278325
number of SNPs plotted: 331
min P-value: 5.76E–6 [chr1:131278325]
max P-value: 9.95E–1 [chr1:126626341]
omitted Genes: Ccnt2, Map3k19, Rab3gap1
omitted Genes: Zranb3, Mir128–1, Ubxn4
omitted Genes: Mcm6, Dars, C4bp–ps1
omitted Genes: Pfkfb2, Yod1, AA986860
omitted Genes: Fcamr, Pigr, Fcmr
omitted Genes: Il24, Il20, Il19
omitted Genes: Mapkapk2, Eif2d, Rassf5
omitted Genes: Fam72a, Avpr1b, Rab7b
omitted Genes: Slc26a9, Pm20d1, Slc41a1
omitted Genes: Nucks1, Slc45a3, Mfsd4a
omitted Genes: Lemd1, Mir135b, Klhdc8a
omitted Genes: Tmcc2, Dsty, Rbbp5
omitted Genes: Tmem81, Cntn2, Pik3c2b
omitted Genes: Ppp1r15b, Plekha6, Gm19461
omitted Genes: Golt1a, Ren1, Etnk2
omitted Genes: Sox13, Zbed6, Atp2b4
omitted Genes: Mir6903, Optc, Prelp
omitted Genes: Btg2, Chit1, Chil1
omitted Genes: Mybph, Adora1, Tmem183a
omitted Genes: 4933406M09Rik, Cyb5r1, Adipor1
omitted Genes: Rabif, Mgat4e, Kdm5b
omitted Genes: Ppp1r12b, Ptpn7, Arl8a
omitted Genes: Gpr37l1, Rnpep, Timm17a
omitted Genes: Lmod1, Shisa4, Ipo9
omitted Genes: Nav1, Mir1231, Tnnt2
omitted Genes: Pkp1, Igfn1, Tmem9
omitted Genes: Ascl5, Cacna1s, Gm15850
omitted Genes: Kif21b, 5730559C18Rik, Gpr25
omitted Genes: Camsap2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:130644276	1	130.6443	0.005171124	Credible Set	purple
chr1:131271228	1	131.2712	0.124800595	Credible Set	purple
chr1:131278325	1	131.2783	0.126561546	Credible Set	purple
chr1:131554333	1	131.5543	0.082666046	Credible Set	purple
chr1:131554917	1	131.5549	0.072325200	Credible Set	purple
chr1:131557434	1	131.5574	0.077571556	Credible Set	purple
chr1:131557903	1	131.5579	0.073665721	Credible Set	purple
chr1:131558017	1	131.5580	0.072914337	Credible Set	purple
chr1:131558379	1	131.5584	0.073069638	Credible Set	purple
chr1:131752804	1	131.7528	0.029456788	Credible Set	purple
chr1:131755038	1	131.7550	0.030210485	Credible Set	purple
chr1:131755217	1	131.7552	0.031330051	Credible Set	purple
chr1:131755634	1	131.7556	0.044790792	Credible Set	purple
chr1:131755661	1	131.7557	0.045572795	Credible Set	purple
chr1:131755687	1	131.7557	0.045290624	Credible Set	purple
chr1:131769555	1	131.7696	0.028472515	Credible Set	purple
chr1:131773688	1	131.7737	0.030055953	Credible Set	purple

F34 GBS, routine WBC differential lymphocyte number



date: Thu Oct 25 17:02:46 2018
build: F34GBS
display range: chr7:79006790–89006790 [79006790–89006790]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84006790
number of SNPs plotted: 397
min P-value: 2.56E–8 [chr7:84006790]
max P-value: 5.8E–1 [chr7:79487919]
omitted Genes: Abhd2, Rlbp1, Fanci
omitted Genes: Polg, Mir9–3hg, Mir9–3
omitted Genes: Rhcg, Ticrr, Kif7
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Gm21057, Sema4b
omitted Genes: Gdpgp1, Tll13, Ngrn
omitted Genes: Vps33b, Prc1, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Crtc3
omitted Genes: Gm15880, Nmb, Sec11a
omitted Genes: Zfp592, Slc28a1, Pde8a
omitted Genes: Rps17, Cpeb1, BC048679
omitted Genes: 2900076A07Rik, Mir1839, Whamm
omitted Genes: Fam103a1, 3110040N11Rik, Tm6sf1
omitted Genes: Hdgfrp3, Bnc1, Gm20744
omitted Genes: 4933406J10Rik, Mex3b, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81473821	7	81.47382	0.003026101	Credible Set	purple
chr7:81473841	7	81.47384	0.003122681	Credible Set	purple
chr7:81475123	7	81.47512	0.003052756	Credible Set	purple
chr7:81475858	7	81.47586	0.008274026	Credible Set	purple
chr7:81475869	7	81.47587	0.008217810	Credible Set	purple
chr7:81489705	7	81.48971	0.005538830	Credible Set	purple
chr7:81560306	7	81.56031	0.005716971	Credible Set	purple
chr7:81584607	7	81.58461	0.005287670	Credible Set	purple
chr7:81587028	7	81.58703	0.005626033	Credible Set	purple
chr7:81587096	7	81.58710	0.005586258	Credible Set	purple
chr7:81595380	7	81.59538	0.005512988	Credible Set	purple
chr7:81614445	7	81.61445	0.005449247	Credible Set	purple
chr7:81639723	7	81.63972	0.004486953	Credible Set	purple
chr7:81641021	7	81.64102	0.005527387	Credible Set	purple
chr7:81641166	7	81.64117	0.005560081	Credible Set	purple
chr7:81645454	7	81.64545	0.001969161	Credible Set	purple
chr7:81645464	7	81.64546	0.001950338	Credible Set	purple
chr7:81646679	7	81.64668	0.010038701	Credible Set	purple
chr7:81653902	7	81.65390	0.005661306	Credible Set	purple
chr7:81660191	7	81.66019	0.006627368	Credible Set	purple
chr7:81675727	7	81.67573	0.007133144	Credible Set	purple
chr7:81675758	7	81.67576	0.007000544	Credible Set	purple
chr7:81683805	7	81.68381	0.003858310	Credible Set	purple
chr7:81683816	7	81.68382	0.003852926	Credible Set	purple
chr7:81691936	7	81.69194	0.005884701	Credible Set	purple
chr7:81691946	7	81.69195	0.005610961	Credible Set	purple
chr7:81700477	7	81.70048	0.006368899	Credible Set	purple
chr7:81702582	7	81.70258	0.005470962	Credible Set	purple
chr7:81704380	7	81.70438	0.004426288	Credible Set	purple
chr7:81783181	7	81.78318	0.004471243	Credible Set	purple
chr7:81850247	7	81.85025	0.007272302	Credible Set	purple
chr7:81931360	7	81.93136	0.008491558	Credible Set	purple
chr7:81931538	7	81.93154	0.008543284	Credible Set	purple
chr7:81953706	7	81.95371	0.015024622	Credible Set	purple
chr7:81954104	7	81.95410	0.016755415	Credible Set	purple
chr7:81975588	7	81.97559	0.002564800	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:82003279	7	82.00328	0.001981678	Credible Set	purple
chr7:82027931	7	82.02793	0.001189539	Credible Set	purple
chr7:82047190	7	82.04719	0.001740457	Credible Set	purple
chr7:82068213	7	82.06821	0.001548150	Credible Set	purple
chr7:82089480	7	82.08948	0.001930510	Credible Set	purple
chr7:82089724	7	82.08972	0.001520962	Credible Set	purple
chr7:82271335	7	82.27133	0.002321685	Credible Set	purple
chr7:82271484	7	82.27148	0.002030760	Credible Set	purple
chr7:82271646	7	82.27165	0.002074878	Credible Set	purple
chr7:82271673	7	82.27167	0.002076964	Credible Set	purple
chr7:82274291	7	82.27429	0.002450207	Credible Set	purple
chr7:82274554	7	82.27455	0.002412916	Credible Set	purple
chr7:82297457	7	82.29746	0.002914205	Credible Set	purple
chr7:82299107	7	82.29911	0.003198637	Credible Set	purple
chr7:82299132	7	82.29913	0.003278590	Credible Set	purple
chr7:82299530	7	82.29953	0.002786006	Credible Set	purple
chr7:82303408	7	82.30341	0.003303529	Credible Set	purple
chr7:82303412	7	82.30341	0.003374319	Credible Set	purple
chr7:82303615	7	82.30361	0.002392926	Credible Set	purple
chr7:82303634	7	82.30363	0.002376889	Credible Set	purple
chr7:82313033	7	82.31303	0.002812280	Credible Set	purple
chr7:82313147	7	82.31315	0.002999856	Credible Set	purple
chr7:82313292	7	82.31329	0.002812280	Credible Set	purple
chr7:82313462	7	82.31346	0.002829550	Credible Set	purple
chr7:82314291	7	82.31429	0.003366730	Credible Set	purple
chr7:82314356	7	82.31436	0.003320052	Credible Set	purple
chr7:82314779	7	82.31478	0.002616731	Credible Set	purple
chr7:82314816	7	82.31482	0.002683564	Credible Set	purple
chr7:82335262	7	82.33526	0.002733645	Credible Set	purple
chr7:82347625	7	82.34762	0.002764231	Credible Set	purple
chr7:82390271	7	82.39027	0.002728454	Credible Set	purple
chr7:82390280	7	82.39028	0.002829724	Credible Set	purple
chr7:82460970	7	82.46097	0.002394497	Credible Set	purple
chr7:82500110	7	82.50011	0.002010226	Credible Set	purple
chr7:82500157	7	82.50016	0.001994627	Credible Set	purple
chr7:82500479	7	82.50048	0.002167026	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:82501151	7	82.50115	0.001973573	Credible Set	purple
chr7:82535591	7	82.53559	0.003493037	Credible Set	purple
chr7:82539877	7	82.53988	0.002072976	Credible Set	purple
chr7:82635047	7	82.63505	0.001252680	Credible Set	purple
chr7:82708811	7	82.70881	0.001388179	Credible Set	purple
chr7:82730396	7	82.73040	0.001964861	Credible Set	purple
chr7:82730540	7	82.73054	0.002049199	Credible Set	purple
chr7:82756984	7	82.75698	0.001951843	Credible Set	purple
chr7:82770538	7	82.77054	0.002082988	Credible Set	purple
chr7:82773085	7	82.77308	0.002101881	Credible Set	purple
chr7:82782979	7	82.78298	0.002082988	Credible Set	purple
chr7:82783483	7	82.78348	0.002626973	Credible Set	purple
chr7:82783548	7	82.78355	0.002667989	Credible Set	purple
chr7:82787558	7	82.78756	0.002145889	Credible Set	purple
chr7:82810186	7	82.81019	0.002491472	Credible Set	purple
chr7:82811761	7	82.81176	0.004050773	Credible Set	purple
chr7:82817547	7	82.81755	0.009973121	Credible Set	purple
chr7:82817550	7	82.81755	0.010080208	Credible Set	purple
chr7:82817963	7	82.81796	0.001361527	Credible Set	purple
chr7:82817972	7	82.81797	0.001191165	Credible Set	purple
chr7:82817975	7	82.81798	0.001348065	Credible Set	purple
chr7:82818115	7	82.81812	0.002079740	Credible Set	purple
chr7:82820779	7	82.82078	0.002082988	Credible Set	purple
chr7:82820783	7	82.82078	0.002082988	Credible Set	purple
chr7:82820806	7	82.82081	0.002082988	Credible Set	purple
chr7:82850796	7	82.85080	0.002082988	Credible Set	purple
chr7:82854160	7	82.85416	0.002073230	Credible Set	purple
chr7:83004458	7	83.00446	0.002069762	Credible Set	purple
chr7:83103367	7	83.10337	0.002049895	Credible Set	purple
chr7:83118843	7	83.11884	0.002069472	Credible Set	purple
chr7:83151951	7	83.15195	0.001876320	Credible Set	purple
chr7:83152293	7	83.15229	0.002464111	Credible Set	purple
chr7:83204993	7	83.20499	0.002006845	Credible Set	purple
chr7:83205102	7	83.20510	0.002745910	Credible Set	purple
chr7:83288039	7	83.28804	0.002776773	Credible Set	purple
chr7:83294270	7	83.29427	0.001176128	Credible Set	purple

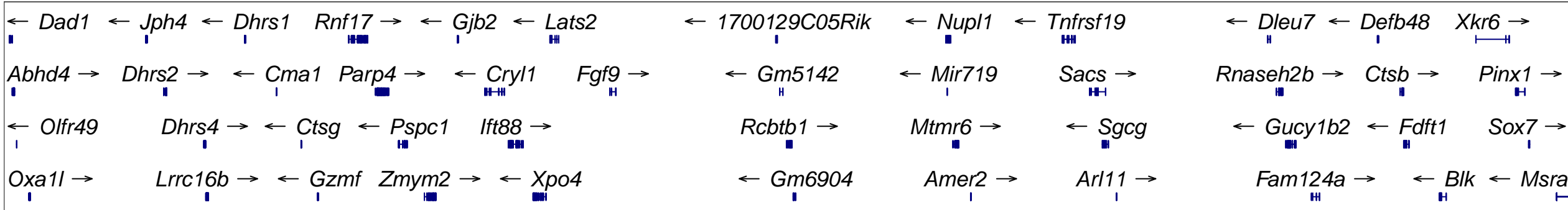
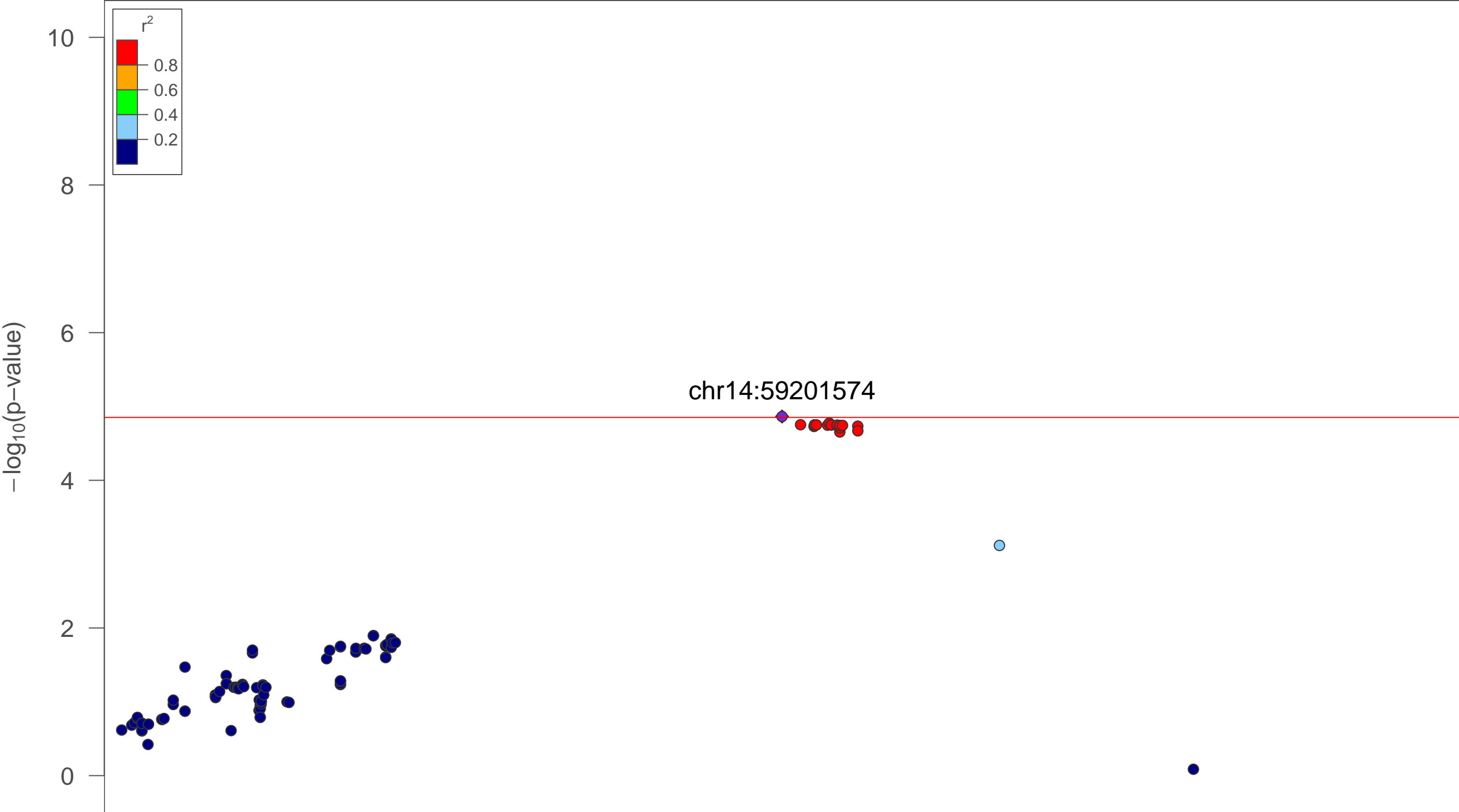
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:83294302	7	83.29430	0.001176128	Credible Set	purple
chr7:83294391	7	83.29439	0.001934993	Credible Set	purple
chr7:83459164	7	83.45916	0.002437130	Credible Set	purple
chr7:83474799	7	83.47480	0.015115469	Credible Set	purple
chr7:83481871	7	83.48187	0.001864795	Credible Set	purple
chr7:83518242	7	83.51824	0.002756305	Credible Set	purple
chr7:83518263	7	83.51826	0.002787826	Credible Set	purple
chr7:83606909	7	83.60691	0.006664566	Credible Set	purple
chr7:83651842	7	83.65184	0.013406210	Credible Set	purple
chr7:83661158	7	83.66116	0.005479029	Credible Set	purple
chr7:83668857	7	83.66886	0.012777413	Credible Set	purple
chr7:83668910	7	83.66891	0.009708079	Credible Set	purple
chr7:83669157	7	83.66916	0.013482005	Credible Set	purple
chr7:83677943	7	83.67794	0.010030132	Credible Set	purple
chr7:83677967	7	83.67797	0.010198684	Credible Set	purple
chr7:83682817	7	83.68282	0.011631887	Credible Set	purple
chr7:83682921	7	83.68292	0.010079954	Credible Set	purple
chr7:83879999	7	83.88000	0.010229013	Credible Set	purple
chr7:83880145	7	83.88014	0.011484956	Credible Set	purple
chr7:83901893	7	83.90189	0.013011030	Credible Set	purple
chr7:83951649	7	83.95165	0.012608519	Credible Set	purple
chr7:83961926	7	83.96193	0.017167467	Credible Set	purple
chr7:83974098	7	83.97410	0.017752599	Credible Set	purple
chr7:84006464	7	84.00646	0.019292341	Credible Set	purple
chr7:84006790	7	84.00679	0.025817660	Credible Set	purple
chr7:84006899	7	84.00690	0.019285117	Credible Set	purple
chr7:84007186	7	84.00719	0.018768817	Credible Set	purple
chr7:84042795	7	84.04279	0.018504064	Credible Set	purple
chr7:84042808	7	84.04281	0.018167839	Credible Set	purple
chr7:84043291	7	84.04329	0.018286351	Credible Set	purple
chr7:84090415	7	84.09041	0.020030694	Credible Set	purple
chr7:84091016	7	84.09102	0.016138703	Credible Set	purple
chr7:84091395	7	84.09140	0.012946410	Credible Set	purple
chr7:84091408	7	84.09141	0.016709005	Credible Set	purple
chr7:84091894	7	84.09189	0.010483652	Credible Set	purple
chr7:84119855	7	84.11986	0.013429388	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84124190	7	84.12419	0.013337639	Credible Set	purple
chr7:84124515	7	84.12452	0.012123053	Credible Set	purple
chr7:84129412	7	84.12941	0.001416950	Credible Set	purple
chr7:84129418	7	84.12942	0.001402105	Credible Set	purple
chr7:84129648	7	84.12965	0.010095752	Credible Set	purple
chr7:84142029	7	84.14203	0.013222649	Credible Set	purple
chr7:84146037	7	84.14604	0.010252076	Credible Set	purple
chr7:84146051	7	84.14605	0.010032074	Credible Set	purple
chr7:84170763	7	84.17076	0.010055338	Credible Set	purple
chr7:84170827	7	84.17083	0.010151340	Credible Set	purple
chr7:84175856	7	84.17586	0.017693356	Credible Set	purple
chr7:84176468	7	84.17647	0.020084459	Credible Set	purple
chr7:84176482	7	84.17648	0.017566262	Credible Set	purple

F34 GBS, routine WBC differential lymphocyte number



146 genes
omitted

Position on chr14 (Mb)

date: Thu Oct 25 17:02:27 2018

build: F34GBS

display range: chr14:54201574–64201574 [54201574–64201574]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:59201574

number of SNPs plotted: 118

min P-value: 1.37E–5 [chr14:59201574]

max P-value: 8.19E–1 [chr14:62236131]

omitted Genes: Slc7a7, Mrpl52, Mmp14

omitted Genes: Lrp10, Rem2, Prmt5

omitted Genes: Haus4, Ajuba, 4931414P19Rik

omitted Genes: Psmb5, Mir686, Psmb11

omitted Genes: Cdh24, Acin1, Mir6948

omitted Genes: 4930579G18Rik, 1700123O20Rik, Cebpe

omitted Genes: Slc7a8, Homez, Ppp1r3e

omitted Genes: Bcl2l2, Pabpn1, Slc22a17

omitted Genes: Efs, Il25, Cmtm5

omitted Genes: Myh6, Mir208a, Mhrt

omitted Genes: Myh7, Mir208b, Ngdn

omitted Genes: Gm10364, Zfhx2, Zfhx2os

omitted Genes: Thtpa, Ap1g2, Cpne6

omitted Genes: Nrl, Pck2, Dcaf11

omitted Genes: Fitm1, Psme1, Emc9

omitted Genes: Psme2, Rnf31, Irf9

omitted Genes: Rec8, Ipo4, Tm9sf1

omitted Genes: Tssk4, Mdp1, Nedd8

omitted Genes: Gmpr2, Tinf2, Tgm1

omitted Genes: Rabggta, Nop9, Cideb

omitted Genes: Ltb4r2, Ltb4r1, Adcy4

omitted Genes: Ripk3, Nfatc4, Nynrin

omitted Genes: Cbln3, Khnyn, Sdr39u1

omitted Genes: Mcpt-ps1, Cma2, Gm5801

omitted Genes: Mcpt1, Mcpt9, Mcpt2

omitted Genes: Mcpt4, Mcpt8, Mir6949

omitted Genes: Gzme, Gzmd, Gzmg

omitted Genes: Gzmn, Gzmc, Gzmb

omitted Genes: Atp12a, Cenpj, Mphosph8

omitted Genes: Gm16973, Zmym5, B020004C17Rik

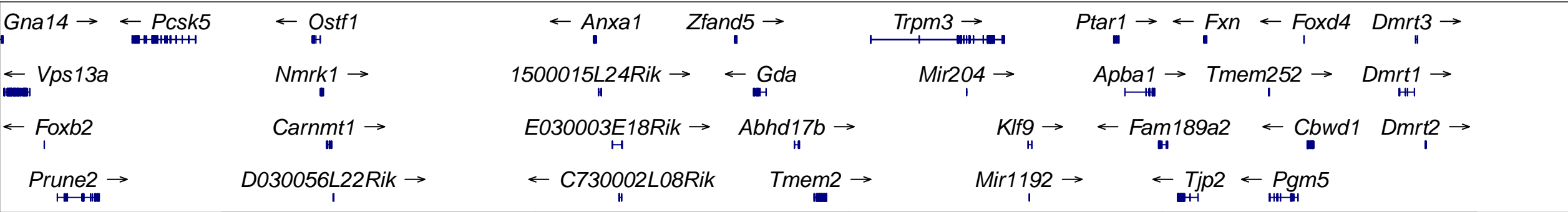
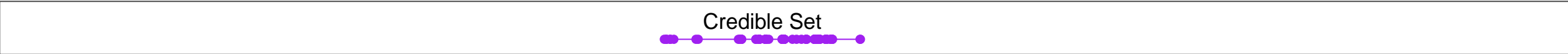
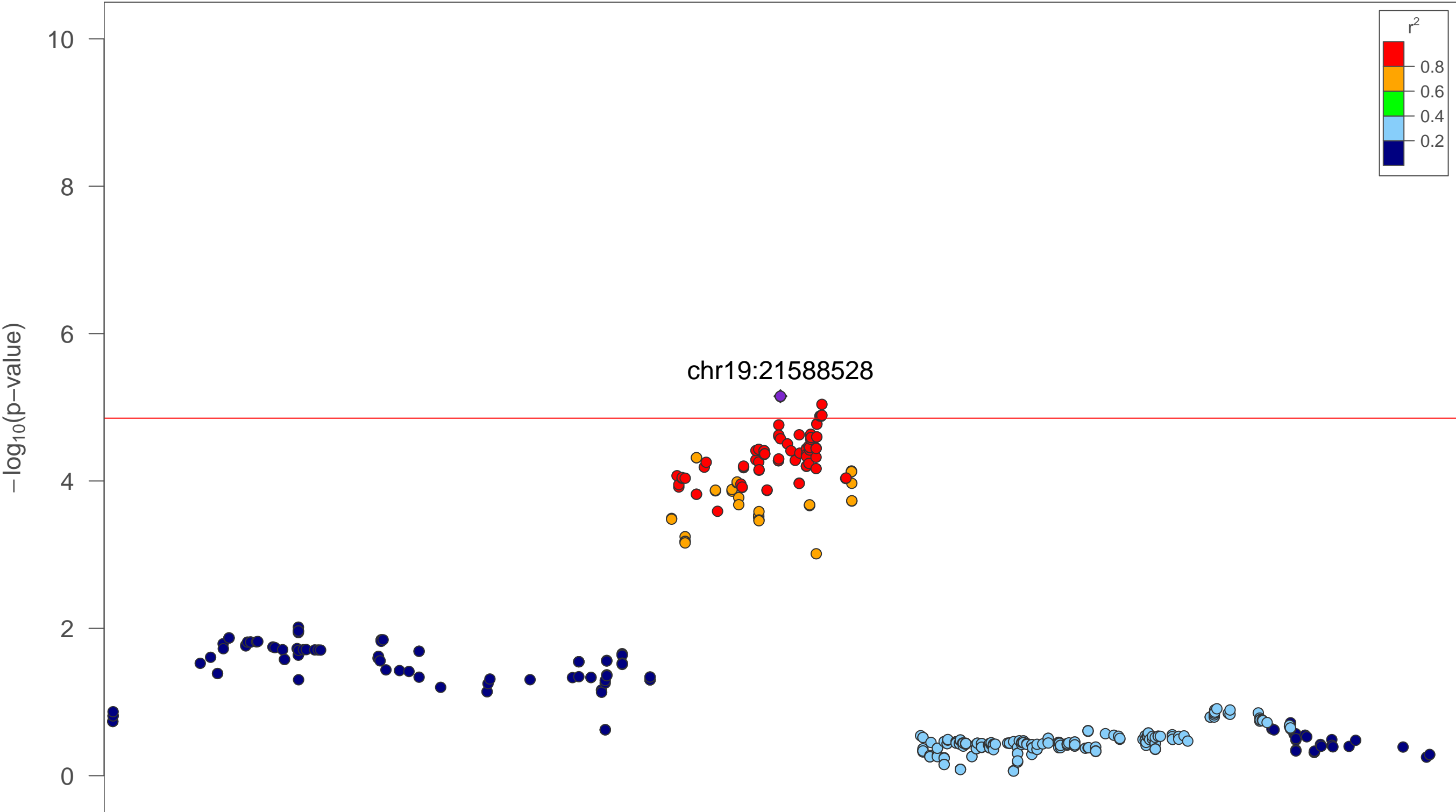
omitted Genes: Gja3, Gjb6, Il17d
Make more plots at <http://csg.sph.umich.edu/locuszoom/>

omitted Genes: Ecf1akmt1, Ssn18, Mir3077

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:59201574	14	59.20157	0.07261897	Credible Set	purple
chr14:59338108	14	59.33811	0.05689636	Credible Set	purple
chr14:59437591	14	59.43759	0.05409787	Credible Set	purple
chr14:59440712	14	59.44071	0.05670075	Credible Set	purple
chr14:59455253	14	59.45525	0.05663948	Credible Set	purple
chr14:59537225	14	59.53722	0.05615352	Credible Set	purple
chr14:59549690	14	59.54969	0.05971186	Credible Set	purple
chr14:59564460	14	59.56446	0.05645541	Credible Set	purple
chr14:59565568	14	59.56557	0.05645541	Credible Set	purple
chr14:59608014	14	59.60801	0.05611562	Credible Set	purple
chr14:59608030	14	59.60803	0.05611562	Credible Set	purple
chr14:59625852	14	59.62585	0.05098621	Credible Set	purple
chr14:59627887	14	59.62789	0.04583768	Credible Set	purple
chr14:59628306	14	59.62831	0.05192754	Credible Set	purple
chr14:59628310	14	59.62831	0.05563060	Credible Set	purple
chr14:59647532	14	59.64753	0.05574007	Credible Set	purple
chr14:59760158	14	59.76016	0.05448814	Credible Set	purple
chr14:59760629	14	59.76063	0.04742890	Credible Set	purple

F34 GBS, routine WBC differential lymphocyte number



18 genes
omitted

date: Thu Oct 25 17:02:35 2018

build: F34GBS

display range: chr19:16588528–26588528 [16588528–26588528]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21588528

number of SNPs plotted: 468

min P-value: 7.07E–6 [chr19:21588528]

max P-value: 8.66E–1 [chr19:23311843]

omitted Genes: Gcnt1, Rfk, Trpm6

omitted Genes: Rorb, Aldh1a1, Aldh1a7

omitted Genes: Tmc1, 4930554I06Rik, 1110059E24Rik

omitted Genes: Smc5, Mamdc2, 1700028P14Rik

omitted Genes: Pip5k1b, Fam122a, Mir3084–1

omitted Genes: Dock8, Kank1, 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20824062	19	20.82406	0.004208088	Credible Set	purple
chr19:20837340	19	20.83734	0.003016468	Credible Set	purple
chr19:20837342	19	20.83734	0.003234779	Credible Set	purple
chr19:20861811	19	20.86181	0.003891778	Credible Set	purple
chr19:20861821	19	20.86182	0.003985128	Credible Set	purple
chr19:20884530	19	20.88453	0.003909079	Credible Set	purple
chr19:21025668	19	21.02567	0.005414121	Credible Set	purple
chr19:21039744	19	21.03974	0.006259725	Credible Set	purple
chr19:21296098	19	21.29610	0.003285971	Credible Set	purple
chr19:21305518	19	21.30552	0.002970110	Credible Set	purple
chr19:21305568	19	21.30557	0.003007889	Credible Set	purple
chr19:21316234	19	21.31623	0.005335891	Credible Set	purple
chr19:21316268	19	21.31627	0.005460410	Credible Set	purple
chr19:21316305	19	21.31630	0.005592177	Credible Set	purple
chr19:21407108	19	21.40711	0.006735416	Credible Set	purple
chr19:21407182	19	21.40718	0.008862111	Credible Set	purple
chr19:21428151	19	21.42815	0.006314288	Credible Set	purple
chr19:21428338	19	21.42834	0.009176532	Credible Set	purple
chr19:21428343	19	21.42834	0.009176532	Credible Set	purple
chr19:21430361	19	21.43036	0.004950147	Credible Set	purple
chr19:21430412	19	21.43041	0.005018073	Credible Set	purple
chr19:21467882	19	21.46788	0.007875532	Credible Set	purple
chr19:21467967	19	21.46797	0.008801371	Credible Set	purple
chr19:21467982	19	21.46798	0.008818367	Credible Set	purple
chr19:21467985	19	21.46798	0.008818367	Credible Set	purple
chr19:21467987	19	21.46799	0.008809916	Credible Set	purple
chr19:21472509	19	21.47251	0.008053099	Credible Set	purple
chr19:21472526	19	21.47253	0.008032139	Credible Set	purple
chr19:21489579	19	21.48958	0.002760087	Credible Set	purple
chr19:21574198	19	21.57420	0.006543297	Credible Set	purple
chr19:21574202	19	21.57420	0.006568182	Credible Set	purple
chr19:21575782	19	21.57578	0.006917508	Credible Set	purple
chr19:21576364	19	21.57636	0.018961711	Credible Set	purple
chr19:21576365	19	21.57636	0.013504963	Credible Set	purple
chr19:21576374	19	21.57637	0.014026219	Credible Set	purple
chr19:21588462	19	21.58846	0.044572147	Credible Set	purple

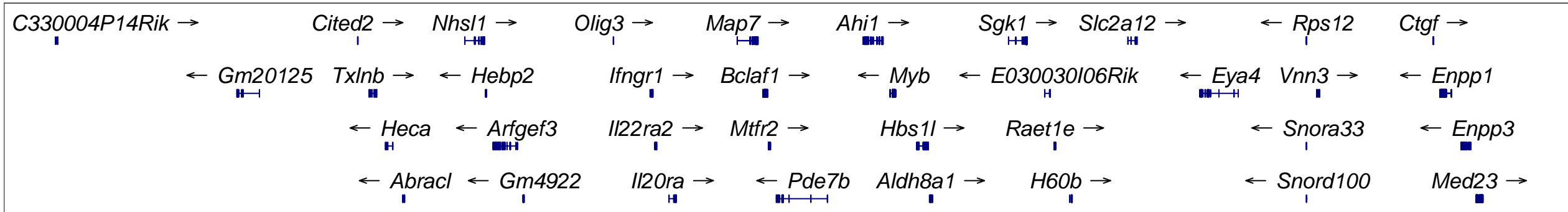
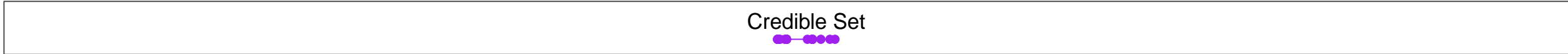
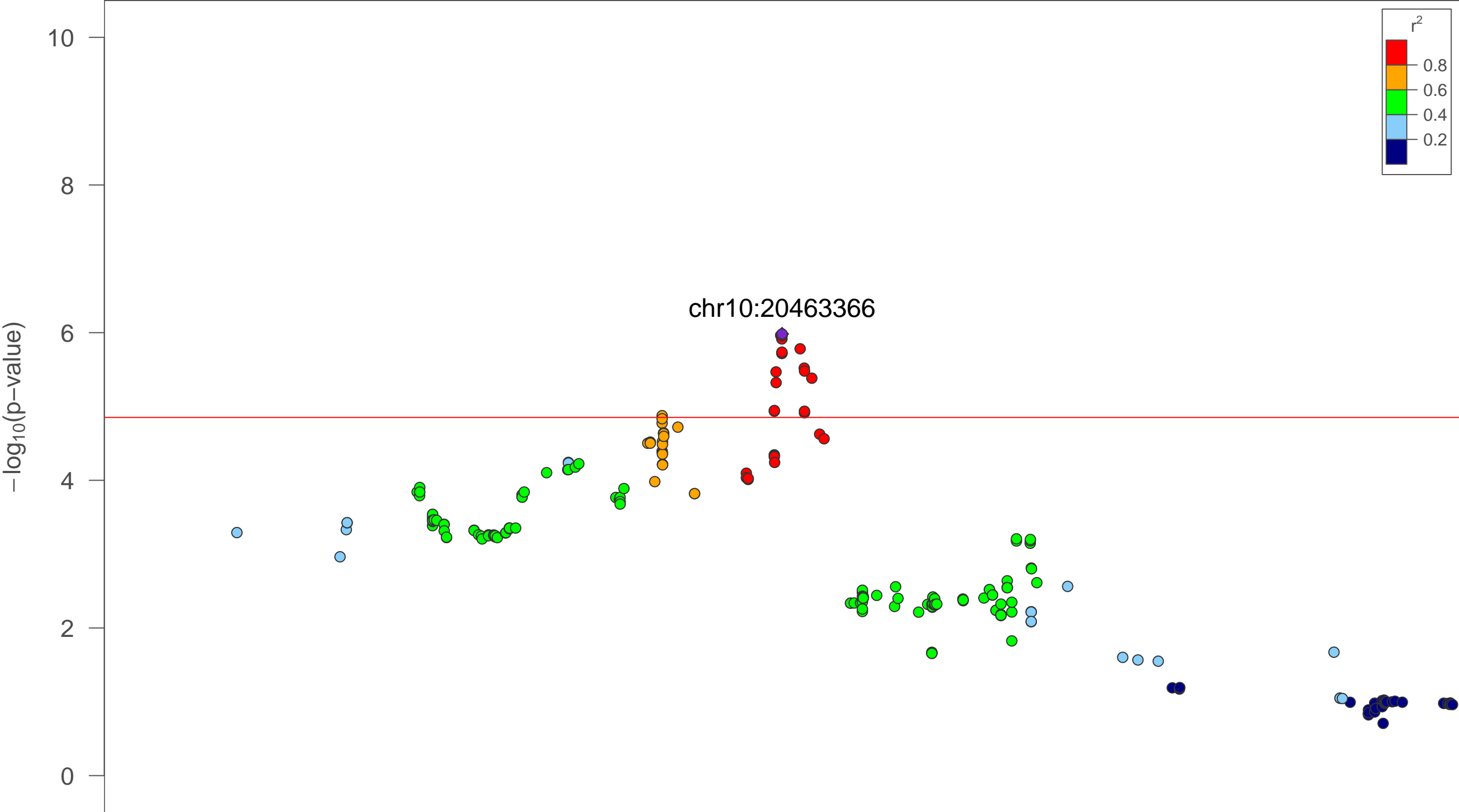
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21588470	19	21.58847	0.044496810	Credible Set	purple
chr19:21588527	19	21.58853	0.044205261	Credible Set	purple
chr19:21588528	19	21.58853	0.044692835	Credible Set	purple
chr19:21588608	19	21.58861	0.012585851	Credible Set	purple
chr19:21640403	19	21.64040	0.010808190	Credible Set	purple
chr19:21666239	19	21.66624	0.008798367	Credible Set	purple
chr19:21697884	19	21.69788	0.006619425	Credible Set	purple
chr19:21727318	19	21.72732	0.003379409	Credible Set	purple
chr19:21727391	19	21.72739	0.003347427	Credible Set	purple
chr19:21727561	19	21.72756	0.014152365	Credible Set	purple
chr19:21731633	19	21.73163	0.008213531	Credible Set	purple
chr19:21780788	19	21.78079	0.009395344	Credible Set	purple
chr19:21780850	19	21.78085	0.009250484	Credible Set	purple
chr19:21780922	19	21.78092	0.005559132	Credible Set	purple
chr19:21780928	19	21.78093	0.005559389	Credible Set	purple
chr19:21780934	19	21.78093	0.005592690	Credible Set	purple
chr19:21780935	19	21.78093	0.005592690	Credible Set	purple
chr19:21781005	19	21.78101	0.007931772	Credible Set	purple
chr19:21781019	19	21.78102	0.007433931	Credible Set	purple
chr19:21798450	19	21.79845	0.010138868	Credible Set	purple
chr19:21798541	19	21.79854	0.006052896	Credible Set	purple
chr19:21804356	19	21.80436	0.009010334	Credible Set	purple
chr19:21804420	19	21.80442	0.009692442	Credible Set	purple
chr19:21804582	19	21.80458	0.009749274	Credible Set	purple
chr19:21812258	19	21.81226	0.014244974	Credible Set	purple
chr19:21812298	19	21.81230	0.014392275	Credible Set	purple
chr19:21812594	19	21.81259	0.012409000	Credible Set	purple
chr19:21814790	19	21.81479	0.013046734	Credible Set	purple
chr19:21814806	19	21.81481	0.013079562	Credible Set	purple
chr19:21851795	19	21.85179	0.007261849	Credible Set	purple
chr19:21852236	19	21.85224	0.009561590	Credible Set	purple
chr19:21852273	19	21.85227	0.009436247	Credible Set	purple
chr19:21852296	19	21.85230	0.005195750	Credible Set	purple
chr19:21857059	19	21.85706	0.013266207	Credible Set	purple
chr19:21857128	19	21.85713	0.013288766	Credible Set	purple
chr19:21857704	19	21.85770	0.019681719	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21857707	19	21.85771	0.019373102	Credible Set	purple
chr19:21880097	19	21.88010	0.024721873	Credible Set	purple
chr19:21889764	19	21.88976	0.024668792	Credible Set	purple
chr19:21889768	19	21.88977	0.024732248	Credible Set	purple
chr19:21889777	19	21.88978	0.024668792	Credible Set	purple
chr19:21889831	19	21.88983	0.024694632	Credible Set	purple
chr19:21889832	19	21.88983	0.024767928	Credible Set	purple
chr19:21889838	19	21.88984	0.025160262	Credible Set	purple
chr19:21895163	19	21.89516	0.025304821	Credible Set	purple
chr19:21895174	19	21.89517	0.035029357	Credible Set	purple
chr19:22070939	19	22.07094	0.003881712	Credible Set	purple
chr19:22073618	19	22.07362	0.003931898	Credible Set	purple

F34 GBS, routine WBC differential monocyte percentage



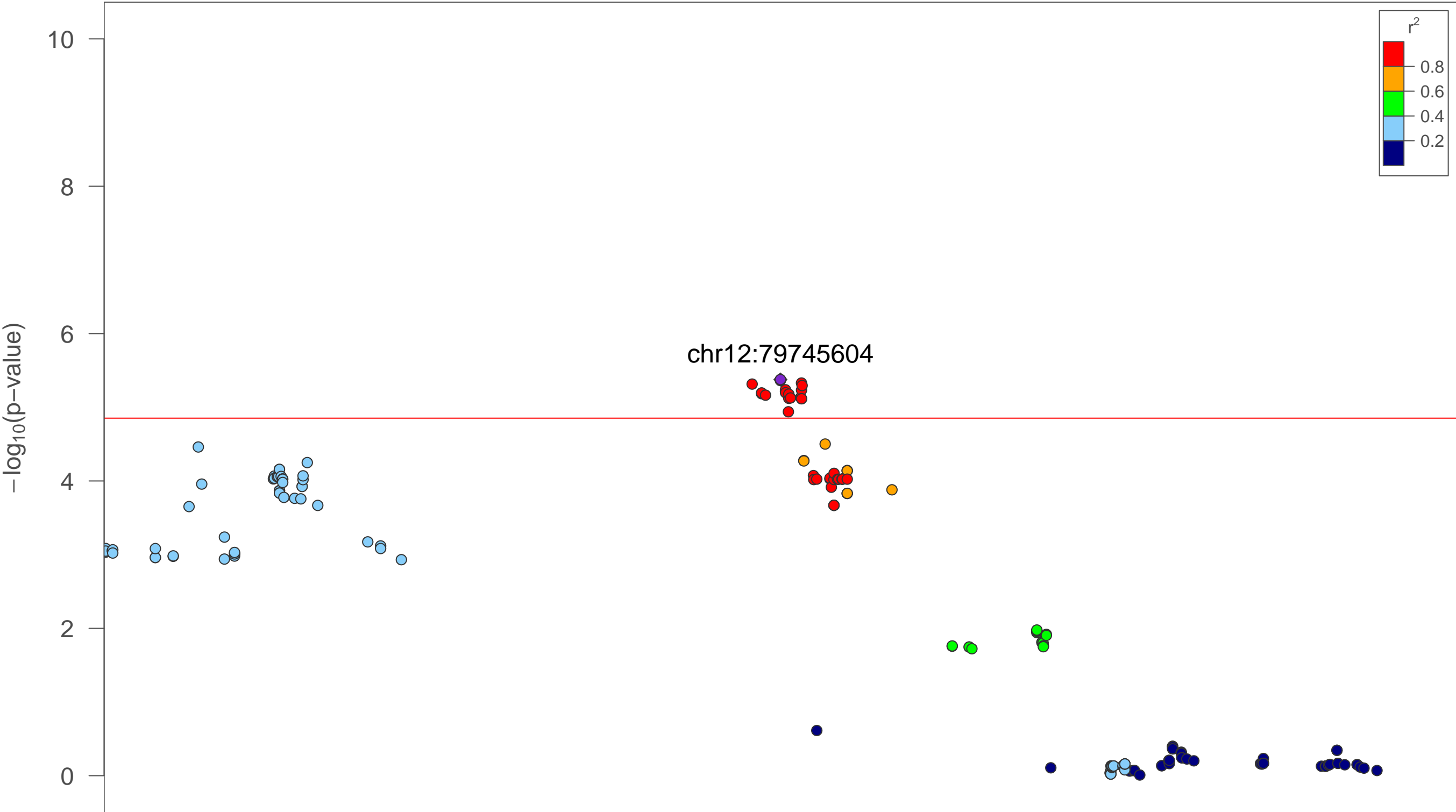
46 genes
omitted

date: Thu Oct 25 17:02:59 2018
build: F34GBS
display range: chr10:15463366–25463366 [15463366–25463366]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:20463366
number of SNPs plotted: 243
min P-value: 1.04E–6 [chr10:20463366]
max P-value: 1.96E–1 [chr10:24897369]
omitted Genes: Repts1, Ect2l, Ccdc28a
omitted Genes: 4930444F02Rik, Perp, Tnfaip3
omitted Genes: Gm20139, Slc35d3, Pex7
omitted Genes: Map3k5, 4930405J17Rik, Rpl32l
omitted Genes: Mir6413, 4930455C13Rik, 1700020N01Rik
omitted Genes: Gm5420, 4930444G20Rik, C920009B18Rik
omitted Genes: Raet1d, Gm10825, Tbp1l
omitted Genes: Mir7663, Tcf21, Slc18b1
omitted Genes: Vnn1, Taar1, Taar2
omitted Genes: Taar3, Taar4, Taar5
omitted Genes: Taar6, Taar7a, Taar7b
omitted Genes: Taar7d, Taar7e, Taar7f
omitted Genes: Taar8a, Taar8b, Taar8c
omitted Genes: Taar9, Stx7, Moxd1
omitted Genes: Mir6905, Arg1, Akap7
omitted Genes: Epb41l2

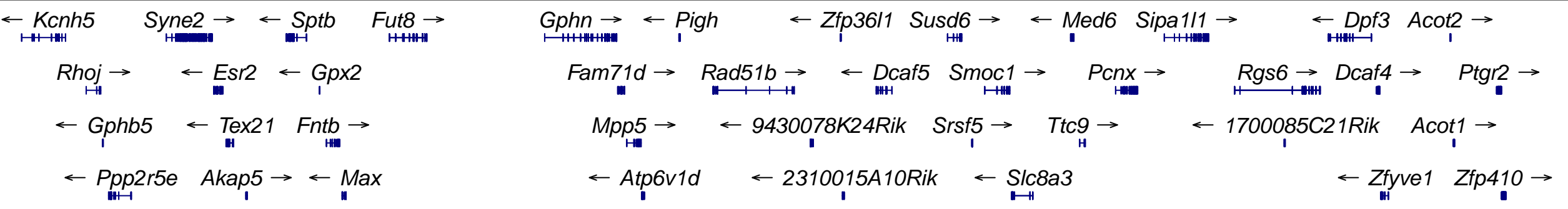
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:20406341	10	20.40634	0.001638727	Credible Set	purple
chr10:20406586	10	20.40659	0.006263026	Credible Set	purple
chr10:20406630	10	20.40663	0.005763847	Credible Set	purple
chr10:20406656	10	20.40666	0.006263026	Credible Set	purple
chr10:20419014	10	20.41901	0.021720278	Credible Set	purple
chr10:20419458	10	20.41946	0.013311268	Credible Set	purple
chr10:20453644	10	20.45364	0.062429059	Credible Set	purple
chr10:20462020	10	20.46202	0.062429059	Credible Set	purple
chr10:20462039	10	20.46204	0.062429059	Credible Set	purple
chr10:20462485	10	20.46249	0.032056139	Credible Set	purple
chr10:20462491	10	20.46249	0.032056139	Credible Set	purple
chr10:20462498	10	20.46250	0.032056139	Credible Set	purple
chr10:20462516	10	20.46252	0.032056139	Credible Set	purple
chr10:20462589	10	20.46259	0.062429059	Credible Set	purple
chr10:20462616	10	20.46262	0.062429059	Credible Set	purple
chr10:20462619	10	20.46262	0.062429059	Credible Set	purple
chr10:20462638	10	20.46264	0.062429059	Credible Set	purple
chr10:20462706	10	20.46271	0.062429059	Credible Set	purple
chr10:20463366	10	20.46337	0.062429059	Credible Set	purple
chr10:20463388	10	20.46339	0.062429059	Credible Set	purple
chr10:20463396	10	20.46340	0.062429059	Credible Set	purple
chr10:20596835	10	20.59683	0.032056139	Credible Set	purple
chr10:20627018	10	20.62702	0.021720278	Credible Set	purple
chr10:20628820	10	20.62882	0.005763847	Credible Set	purple
chr10:20628826	10	20.62883	0.005763847	Credible Set	purple
chr10:20628827	10	20.62883	0.005763847	Credible Set	purple
chr10:20628851	10	20.62885	0.005763847	Credible Set	purple
chr10:20629308	10	20.62931	0.021720278	Credible Set	purple
chr10:20683025	10	20.68303	0.016484013	Credible Set	purple
chr10:20740878	10	20.74088	0.002977462	Credible Set	purple
chr10:20773316	10	20.77332	0.002661898	Credible Set	purple

F34 GBS, routine WBC differential monocyte percentage



Credible Set



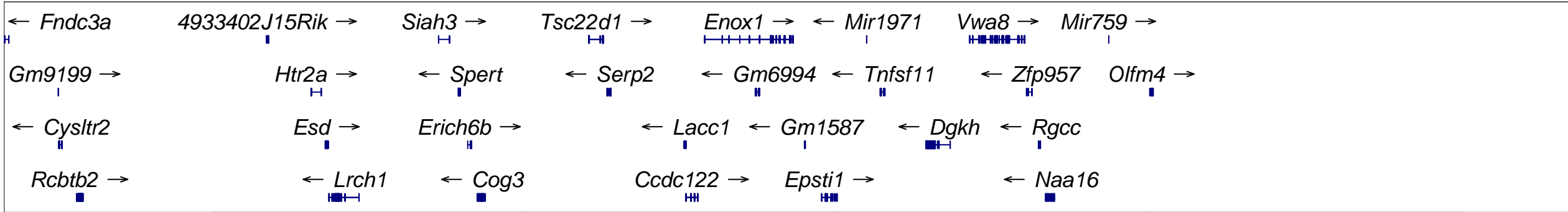
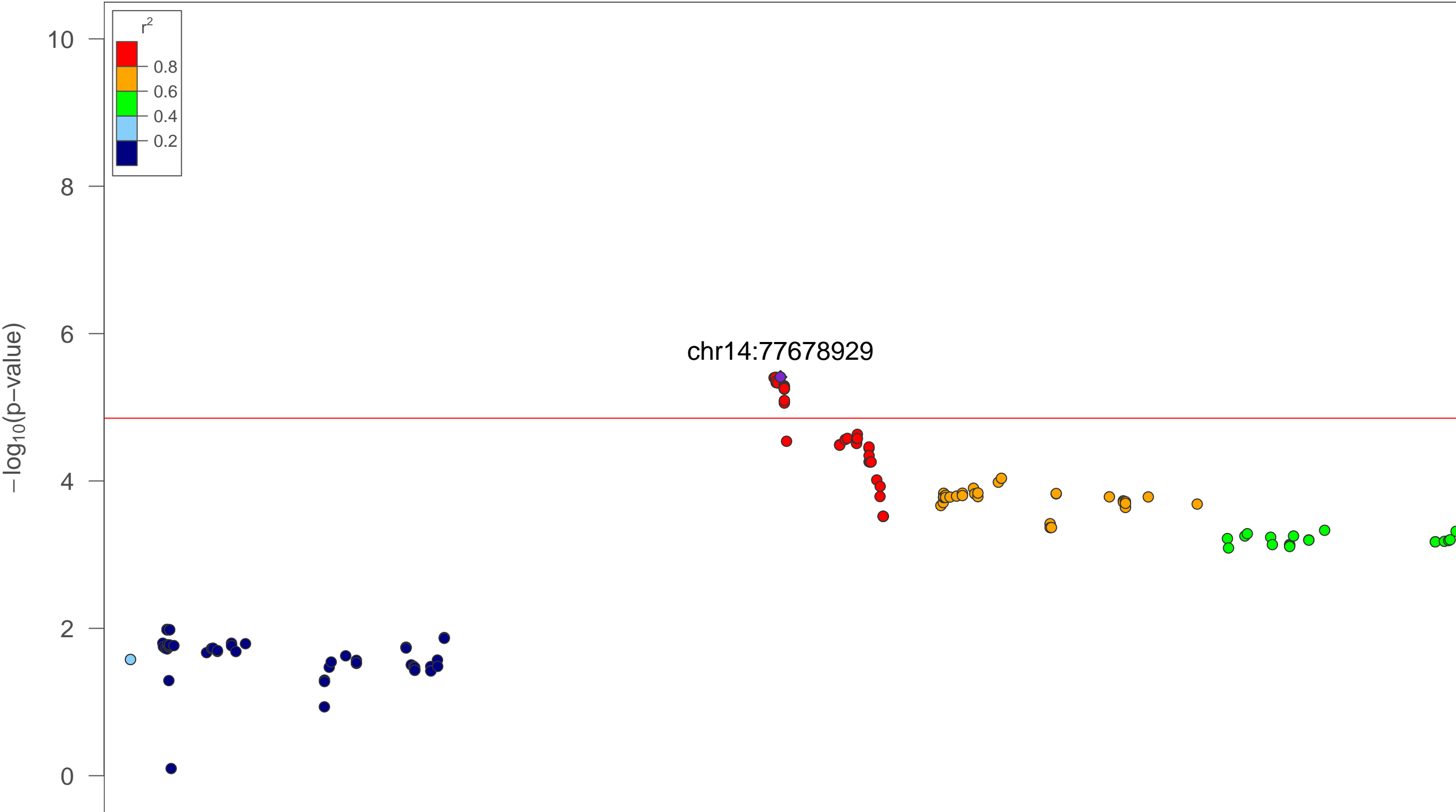
70 genes
omitted

date: Thu Oct 25 17:03:09 2018
build: F34GBS
display range: chr12:74745604–84745604 [74745604–84745604]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:79745604
number of SNPs plotted: 197
min P-value: 4.2E–6 [chr12:79745604]
max P-value: 9.78E–1 [chr12:82401670]
omitted Genes: Wdr89, Rplp2-ps1, Sgpp1
omitted Genes: Mir5101, Mthfd1, Zbtb25
omitted Genes: Zbtb1, Hspa2, Ppp1r36
omitted Genes: Gm10451, Mir5135, Plekhg3
omitted Genes: Al463170, Churc1, Rab15
omitted Genes: Eif2s1, Plek2, Tmem229b
omitted Genes: Plekhh1, 9230116L04Rik, Arg2
omitted Genes: Vti1b, Rdh11, Rdh12
omitted Genes: Zfyve26, Actn1, Mir1843a
omitted Genes: Scarna3b, Exd2, 2310002D06Rik
omitted Genes: Galnt16, Erh, Slc39a9
omitted Genes: Plekhd1os, Plekhd1, Ccdc177
omitted Genes: 1700052I22Rik, Gm20337, Slc10a1
omitted Genes: Mir3067, Cox16, Synj2bp-cox16
omitted Genes: Gm4787, Adam4, Synj2bp
omitted Genes: Adam21, Map3k9, Rbm25
omitted Genes: Psen1, Papln, Numb
omitted Genes: 2410016O06Rik, Acot4, Acot3
omitted Genes: Acot5, Acot6, Dnal1
omitted Genes: Pnma1, Elmsan1, Fam161b
omitted Genes: Coq6, Entpd5, Bbof1
omitted Genes: Rnf113a2, Aldh6a1, Lin52
omitted Genes: Vsx2, Abcd4, Vrtm
omitted Genes: Syndig1l

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:79536445	12	79.53645	0.055357895	Credible Set	purple
chr12:79606302	12	79.60630	0.041507626	Credible Set	purple
chr12:79606341	12	79.60634	0.042276041	Credible Set	purple
chr12:79606519	12	79.60652	0.042431669	Credible Set	purple
chr12:79635483	12	79.63548	0.039699130	Credible Set	purple
chr12:79745599	12	79.74560	0.063241943	Credible Set	purple
chr12:79745602	12	79.74560	0.061511193	Credible Set	purple
chr12:79745604	12	79.74560	0.063375677	Credible Set	purple
chr12:79783055	12	79.78306	0.044553084	Credible Set	purple
chr12:79783259	12	79.78326	0.046672301	Credible Set	purple
chr12:79783633	12	79.78363	0.042733209	Credible Set	purple
chr12:79804344	12	79.80434	0.024183296	Credible Set	purple
chr12:79807304	12	79.80730	0.036115502	Credible Set	purple
chr12:79807400	12	79.80740	0.040986996	Credible Set	purple
chr12:79819960	12	79.81996	0.036553407	Credible Set	purple
chr12:79896148	12	79.89615	0.037212111	Credible Set	purple
chr12:79901257	12	79.90126	0.057122572	Credible Set	purple
chr12:79901553	12	79.90155	0.046158253	Credible Set	purple
chr12:79901695	12	79.90170	0.035686737	Credible Set	purple
chr12:79901736	12	79.90174	0.035686737	Credible Set	purple
chr12:79905916	12	79.90592	0.052976006	Credible Set	purple
chr12:79989743	12	79.98974	0.003638209	Credible Set	purple
chr12:79991638	12	79.99164	0.003233201	Credible Set	purple
chr12:80014258	12	80.01426	0.003275603	Credible Set	purple
chr12:80111333	12	80.11133	0.003289963	Credible Set	purple
chr12:80111773	12	80.11177	0.003369705	Credible Set	purple
chr12:80141156	12	80.14116	0.003240498	Credible Set	purple
chr12:80141872	12	80.14187	0.003885293	Credible Set	purple
chr12:80167644	12	80.16764	0.003260801	Credible Set	purple
chr12:80176656	12	80.17666	0.003264987	Credible Set	purple
chr12:80200997	12	80.20100	0.003275603	Credible Set	purple
chr12:80201015	12	80.20101	0.003275603	Credible Set	purple
chr12:80203854	12	80.20385	0.003275603	Credible Set	purple
chr12:80203855	12	80.20386	0.003275603	Credible Set	purple
chr12:80239462	12	80.23946	0.003274306	Credible Set	purple

F34 GBS, routine WBC differential monocyte percentage



36 genes
omitted

date: Thu Oct 25 17:03:18 2018
build: F34GBS
display range: chr14:72678929–82678929 [72678929–82678929]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr14:77678929
number of SNPs plotted: 153
min P-value: 3.88E–6 [chr14:77678929]
max P-value: 7.99E–1 [chr14:73175203]
omitted Genes: Rb1, Mir687, Lpar6
omitted Genes: Itm2b, Med4, Nudt15
omitted Genes: Sucla2, Gm4278, 5031414D18Rik
omitted Genes: Lrrc63, Lcp1, Cpb2
omitted Genes: Zc3h13, Slc25a30, Gm4285
omitted Genes: Tpt1, Snora31, Gtf2f2
omitted Genes: Kctd4, Gpalpp1, Nufip1
omitted Genes: 4930444M15Rik, 1700108F19Rik, Dnajc15
omitted Genes: Fam216b, Akap11, Mtrf1
omitted Genes: Kbtbd7, Kbtbd6, Wbp4
omitted Genes: Elf1, Sugt1, Lect1
omitted Genes: 4930452G13Rik, Pcdh8, Gm10845

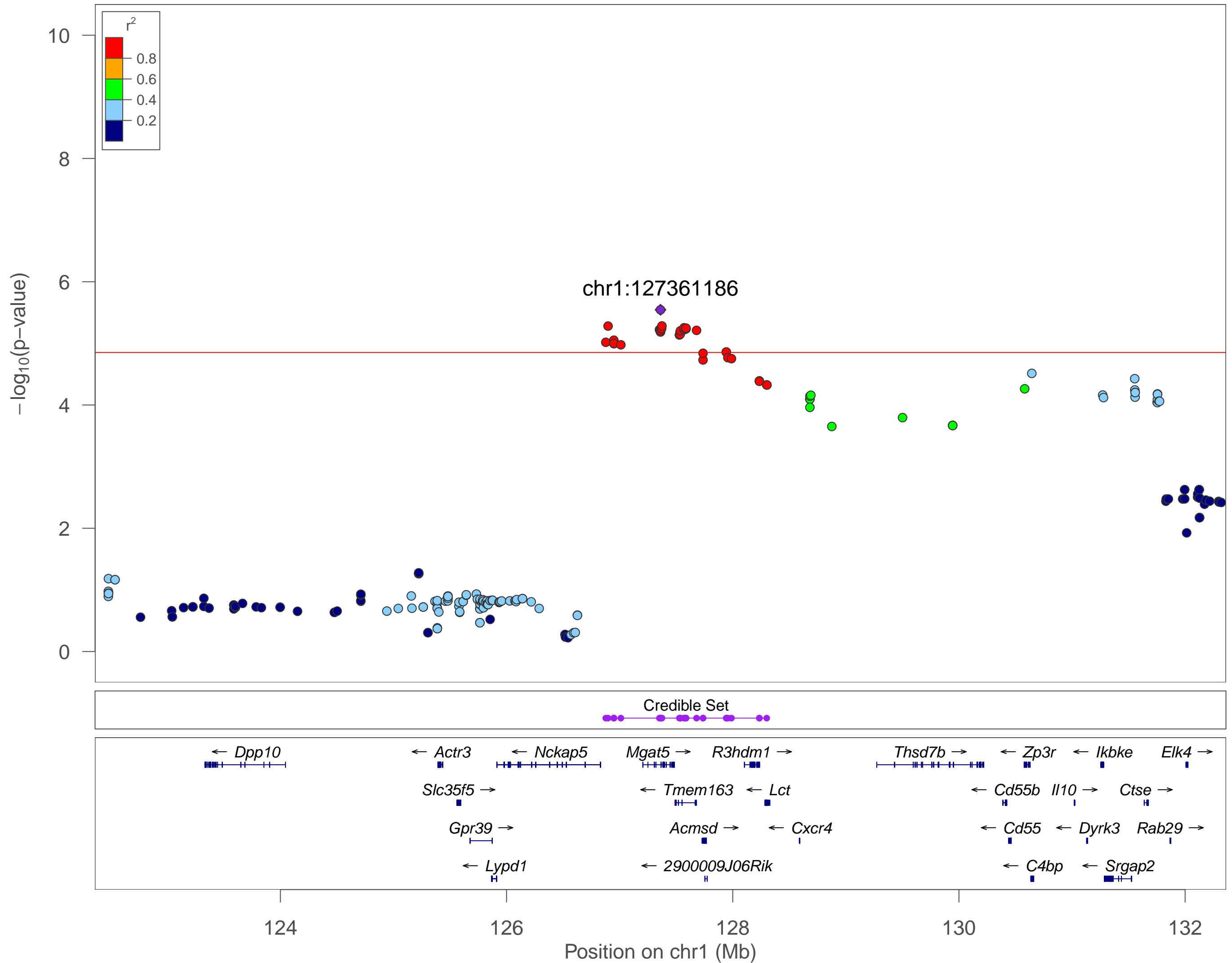
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:77631724	14	77.63172	0.060931650	Credible Set	purple
chr14:77642597	14	77.64260	0.061706763	Credible Set	purple
chr14:77642802	14	77.64280	0.061706763	Credible Set	purple
chr14:77647283	14	77.64728	0.052703501	Credible Set	purple
chr14:77647687	14	77.64769	0.054714719	Credible Set	purple
chr14:77658356	14	77.65836	0.052057048	Credible Set	purple
chr14:77678847	14	77.67885	0.062164900	Credible Set	purple
chr14:77678929	14	77.67893	0.062313732	Credible Set	purple
chr14:77707033	14	77.70703	0.047953004	Credible Set	purple
chr14:77707351	14	77.70735	0.047078685	Credible Set	purple
chr14:77707392	14	77.70739	0.045308725	Credible Set	purple
chr14:77707431	14	77.70743	0.044366826	Credible Set	purple
chr14:77707491	14	77.70749	0.043387652	Credible Set	purple
chr14:77707493	14	77.70749	0.044179531	Credible Set	purple
chr14:77707780	14	77.70778	0.030242221	Credible Set	purple
chr14:77707832	14	77.70783	0.028586543	Credible Set	purple
chr14:77708407	14	77.70841	0.030906687	Credible Set	purple
chr14:77724180	14	77.72418	0.009154335	Credible Set	purple
chr14:78116598	14	78.11660	0.008271824	Credible Set	purple
chr14:78116913	14	78.11691	0.008135150	Credible Set	purple
chr14:78157408	14	78.15741	0.009649219	Credible Set	purple
chr14:78173886	14	78.17389	0.009978527	Credible Set	purple
chr14:78240912	14	78.24091	0.009608270	Credible Set	purple
chr14:78240962	14	78.24096	0.009383688	Credible Set	purple
chr14:78241501	14	78.24150	0.008658576	Credible Set	purple
chr14:78241810	14	78.24181	0.008582225	Credible Set	purple
chr14:78245017	14	78.24502	0.009894615	Credible Set	purple
chr14:78245066	14	78.24507	0.010025453	Credible Set	purple
chr14:78247459	14	78.24746	0.011247210	Credible Set	purple
chr14:78247805	14	78.24780	0.009955304	Credible Set	purple
chr14:78333693	14	78.33369	0.007444743	Credible Set	purple
chr14:78333727	14	78.33373	0.007735171	Credible Set	purple
chr14:78334235	14	78.33424	0.004976995	Credible Set	purple
chr14:78334352	14	78.33435	0.005985134	Credible Set	purple
chr14:78342935	14	78.34293	0.004937596	Credible Set	purple
chr14:78349294	14	78.34929	0.004956184	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:78390714	14	78.39071	0.002912681	Credible Set	purple

F34 GBS, routine WBC differential eosinophil percentage



date: Thu Oct 25 17:03:50 2018

build: F34GBS

display range: chr1:122361186–132361186 [122361186–132361186]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:127361186

number of SNPs plotted: 227

min P-value: 2.85E–6 [chr1:127361186]

max P-value: 5.97E–1 [chr1:126542829]

omitted Genes: Ccnt2, Map3k19, Rab3gap1

omitted Genes: Zranb3, Mir128–1, Ubxn4

omitted Genes: Mcm6, Dars, C4bp–ps1

omitted Genes: Pfkfb2, Yod1, AA986860

omitted Genes: Fcamr, Pigr, Fcmr

omitted Genes: Il24, Il20, Il19

omitted Genes: Mapkapk2, Eif2d, Rassf5

omitted Genes: Fam72a, Avpr1b, Rab7b

omitted Genes: Slc26a9, Pm20d1, Slc41a1

omitted Genes: Nucks1, Slc45a3, Mfsd4a

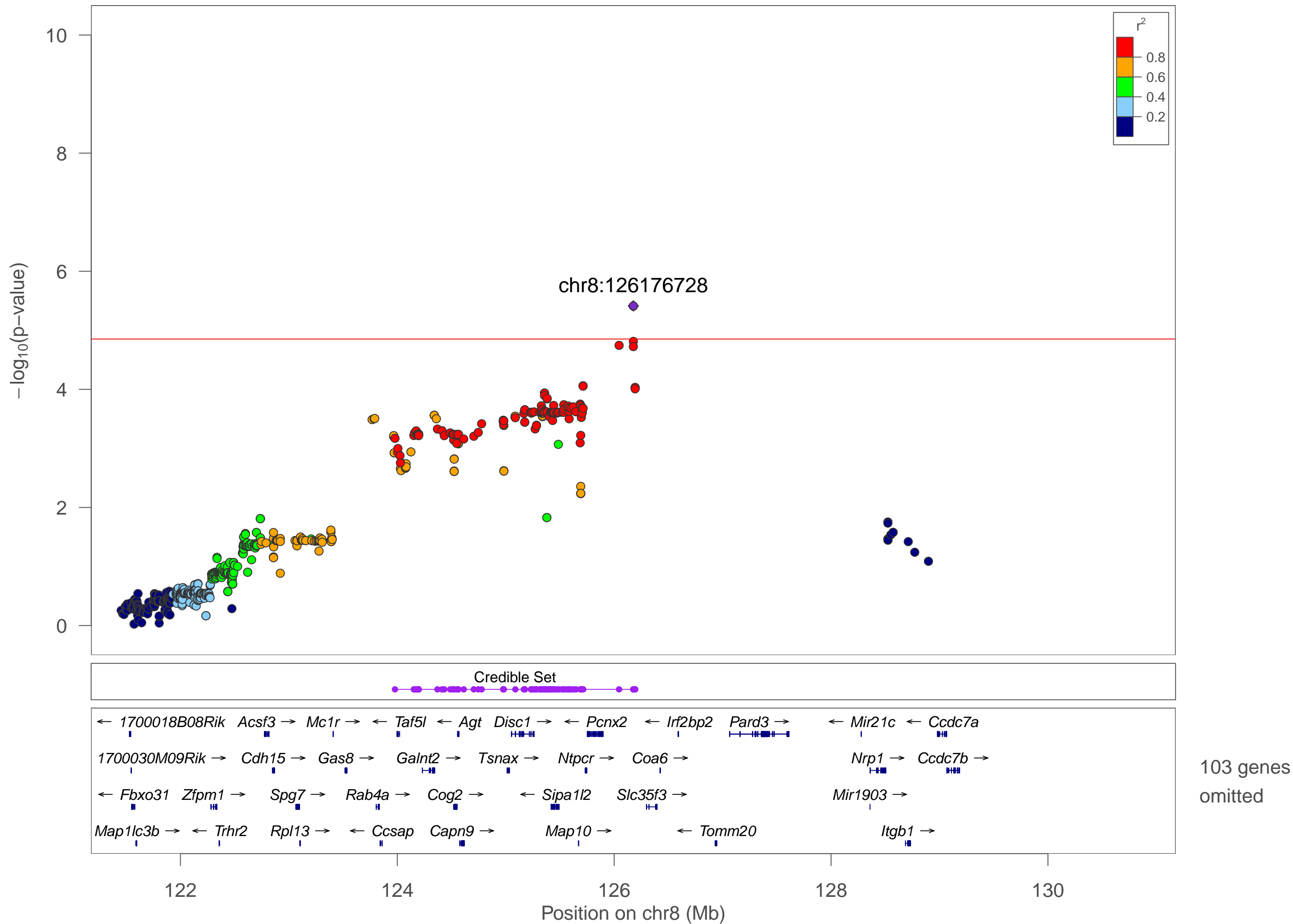
omitted Genes: Cdk18, Lemd1, Mir135b

omitted Genes: Klhdc8a, Nuak2, Tmcc2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:126877472	1	126.8775	0.024408867	Credible Set	purple
chr1:126897506	1	126.8975	0.043620608	Credible Set	purple
chr1:126948531	1	126.9485	0.026317821	Credible Set	purple
chr1:126948932	1	126.9489	0.023233275	Credible Set	purple
chr1:126948973	1	126.9490	0.023366825	Credible Set	purple
chr1:127010566	1	127.0106	0.022312139	Credible Set	purple
chr1:127351820	1	127.3518	0.038332922	Credible Set	purple
chr1:127360988	1	127.3610	0.035420933	Credible Set	purple
chr1:127360991	1	127.3610	0.035420933	Credible Set	purple
chr1:127361132	1	127.3611	0.037356199	Credible Set	purple
chr1:127361186	1	127.3612	0.078016154	Credible Set	purple
chr1:127366123	1	127.3661	0.039908366	Credible Set	purple
chr1:127367650	1	127.3676	0.041023204	Credible Set	purple
chr1:127370999	1	127.3710	0.039818213	Credible Set	purple
chr1:127373912	1	127.3739	0.043808802	Credible Set	purple
chr1:127528010	1	127.5280	0.031706054	Credible Set	purple
chr1:127534149	1	127.5341	0.035372315	Credible Set	purple
chr1:127534857	1	127.5349	0.032409527	Credible Set	purple
chr1:127537075	1	127.5371	0.036834344	Credible Set	purple
chr1:127569392	1	127.5694	0.038263434	Credible Set	purple
chr1:127569489	1	127.5695	0.041012765	Credible Set	purple
chr1:127586872	1	127.5869	0.039431793	Credible Set	purple
chr1:127586881	1	127.5869	0.040471969	Credible Set	purple
chr1:127679838	1	127.6798	0.037394863	Credible Set	purple
chr1:127737207	1	127.7372	0.013012840	Credible Set	purple
chr1:127737208	1	127.7372	0.016523559	Credible Set	purple
chr1:127942547	1	127.9425	0.017181009	Credible Set	purple
chr1:127943084	1	127.9431	0.017276226	Credible Set	purple
chr1:127956570	1	127.9566	0.014120763	Credible Set	purple
chr1:127988443	1	127.9884	0.013632031	Credible Set	purple
chr1:128235181	1	128.2352	0.006193451	Credible Set	purple
chr1:128235351	1	128.2354	0.006090698	Credible Set	purple
chr1:128300314	1	128.3003	0.005360983	Credible Set	purple

F34 GBS, routine WBC differential large unstained cell number



date: Thu Oct 25 17:04:01 2018

build: F34GBS

display range: chr8:121176728–131176728 [121176728–131176728]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:126176728

number of SNPs plotted: 850

min P-value: 3.86E–6 [chr8:126176728]

max P-value: 9.45E–1 [chr8:121573290]

omitted Genes: Zcchc14, Jph3, Klhdc4

omitted Genes: Slc7a5, BC048644, Car5a

omitted Genes: Banp, Mir7237, Zc3h18

omitted Genes: Il17c, Cyba, Mvd

omitted Genes: 9330133O14Rik, Gm20735, Snai3

omitted Genes: Rnf166, Ctu2, Piezo1

omitted Genes: Cdt1, Aprt, Galns

omitted Genes: Trappc2l, Pabpn1l, Mir6396

omitted Genes: Cbfa2t3, Ankrd11, 2810013P06Rik

omitted Genes: Snord68, Mir7079, Cpne7

omitted Genes: Mir7080, Sult5a1, Dpep1

omitted Genes: Chmp1a, Spata33, Cdk10

omitted Genes: Spata2l, 4933417D19Rik, Vps9d1

omitted Genes: Zfp276, Fanca, Spire2

omitted Genes: Tcf25, Tubb3, Def8

omitted Genes: Afg3l1, Dbnidd1, n-R5s100

omitted Genes: n-R5s103, n-R5s104, n-R5s105

omitted Genes: n-R5s108, n-R5s110, n-R5s111

omitted Genes: n-R5s113, Gm25018, n-R5s117

omitted Genes: n-R5s121, n-R5s122, n-R5s123

omitted Genes: n-R5s124, n-R5s128, Gm26391

omitted Genes: n-R5s133, n-R5s134, Rn5s

omitted Genes: n-R5s136, n-R5s138, n-R5s139

omitted Genes: Gm22109, n-R5s141, n-R5s142

omitted Genes: n-R5s143, n-R5s144, Gm25212

omitted Genes: n-R5s146, Gm22291, Gm23284

omitted Genes: n-R5s149, Rhou, 6030466F02Rik

omitted Genes: Acta1, Nup133, Abcb10

omitted Genes: Mir1967, Urb2, Pgbd5

omitted Genes: 2310022B05Rik, Ttc13, Arv1

omitted Genes: Fam89a, Trim67, 2810004N23Rik

omitted Genes: Cnpat, Exoc8, Sortn

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:123978600	8	123.9786	0.001528413	Credible Set	purple
chr8:124152632	8	124.1526	0.001694062	Credible Set	purple
chr8:124159766	8	124.1598	0.001867781	Credible Set	purple
chr8:124173734	8	124.1737	0.002006165	Credible Set	purple
chr8:124180762	8	124.1808	0.001746288	Credible Set	purple
chr8:124189418	8	124.1894	0.001759202	Credible Set	purple
chr8:124196154	8	124.1962	0.001685875	Credible Set	purple
chr8:124196376	8	124.1964	0.001796655	Credible Set	purple
chr8:124197071	8	124.1971	0.001759825	Credible Set	purple
chr8:124197277	8	124.1973	0.001700089	Credible Set	purple
chr8:124370035	8	124.3700	0.002142741	Credible Set	purple
chr8:124412466	8	124.4125	0.002019464	Credible Set	purple
chr8:124433098	8	124.4331	0.001685289	Credible Set	purple
chr8:124487999	8	124.4880	0.001859850	Credible Set	purple
chr8:124510054	8	124.5101	0.001757004	Credible Set	purple
chr8:124520576	8	124.5206	0.001755578	Credible Set	purple
chr8:124520641	8	124.5206	0.001765541	Credible Set	purple
chr8:124543418	8	124.5434	0.001763569	Credible Set	purple
chr8:124563037	8	124.5630	0.001766275	Credible Set	purple
chr8:124563111	8	124.5631	0.001763569	Credible Set	purple
chr8:124563221	8	124.5632	0.001763569	Credible Set	purple
chr8:124612523	8	124.6125	0.001492897	Credible Set	purple
chr8:124705504	8	124.7055	0.001650005	Credible Set	purple
chr8:124746311	8	124.7463	0.001893122	Credible Set	purple
chr8:124777638	8	124.7776	0.002595270	Credible Set	purple
chr8:124977284	8	124.9773	0.002787824	Credible Set	purple
chr8:124977290	8	124.9773	0.002837849	Credible Set	purple
chr8:124977353	8	124.9774	0.002955531	Credible Set	purple
chr8:124979975	8	124.9800	0.002529348	Credible Set	purple
chr8:124982183	8	124.9822	0.002892122	Credible Set	purple
chr8:125088462	8	125.0885	0.003243641	Credible Set	purple
chr8:125166834	8	125.1668	0.003794082	Credible Set	purple
chr8:125175162	8	125.1752	0.002742517	Credible Set	purple
chr8:125175172	8	125.1752	0.002755058	Credible Set	purple
chr8:125175263	8	125.1753	0.004298180	Credible Set	purple
chr8:125175309	8	125.1753	0.004334181	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:125175313	8	125.1753	0.004323931	Credible Set	purple
chr8:125232862	8	125.2329	0.003950738	Credible Set	purple
chr8:125232967	8	125.2330	0.003950738	Credible Set	purple
chr8:125236805	8	125.2368	0.003835431	Credible Set	purple
chr8:125244581	8	125.2446	0.003950738	Credible Set	purple
chr8:125261827	8	125.2618	0.004009503	Credible Set	purple
chr8:125271155	8	125.2712	0.002152626	Credible Set	purple
chr8:125283686	8	125.2837	0.002462780	Credible Set	purple
chr8:125283700	8	125.2837	0.002427817	Credible Set	purple
chr8:125313378	8	125.3134	0.003960228	Credible Set	purple
chr8:125327590	8	125.3276	0.003962498	Credible Set	purple
chr8:125327926	8	125.3279	0.003932665	Credible Set	purple
chr8:125328592	8	125.3286	0.005002569	Credible Set	purple
chr8:125337596	8	125.3376	0.003956013	Credible Set	purple
chr8:125339832	8	125.3398	0.004043053	Credible Set	purple
chr8:125339948	8	125.3399	0.004403995	Credible Set	purple
chr8:125352885	8	125.3529	0.003950738	Credible Set	purple
chr8:125357050	8	125.3571	0.004153951	Credible Set	purple
chr8:125357070	8	125.3571	0.003992568	Credible Set	purple
chr8:125357611	8	125.3576	0.007998043	Credible Set	purple
chr8:125357613	8	125.3576	0.008011698	Credible Set	purple
chr8:125357664	8	125.3577	0.007290025	Credible Set	purple
chr8:125358000	8	125.3580	0.003948422	Credible Set	purple
chr8:125381350	8	125.3813	0.003950738	Credible Set	purple
chr8:125381413	8	125.3814	0.003983447	Credible Set	purple
chr8:125381419	8	125.3814	0.003983447	Credible Set	purple
chr8:125381501	8	125.3815	0.006456504	Credible Set	purple
chr8:125381543	8	125.3815	0.006588992	Credible Set	purple
chr8:125402101	8	125.4021	0.003438611	Credible Set	purple
chr8:125402104	8	125.4021	0.003367583	Credible Set	purple
chr8:125413718	8	125.4137	0.003950738	Credible Set	purple
chr8:125418482	8	125.4185	0.003950738	Credible Set	purple
chr8:125418672	8	125.4187	0.003950738	Credible Set	purple
chr8:125418880	8	125.4189	0.003950738	Credible Set	purple
chr8:125424267	8	125.4243	0.003892193	Credible Set	purple
chr8:125431865	8	125.4319	0.002928213	Credible Set	purple

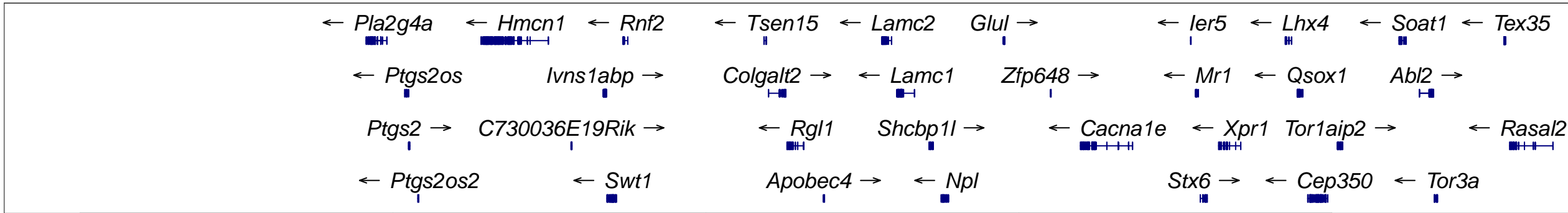
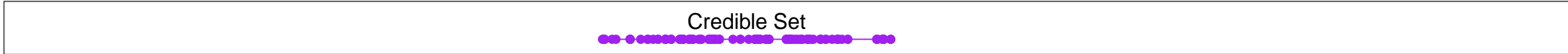
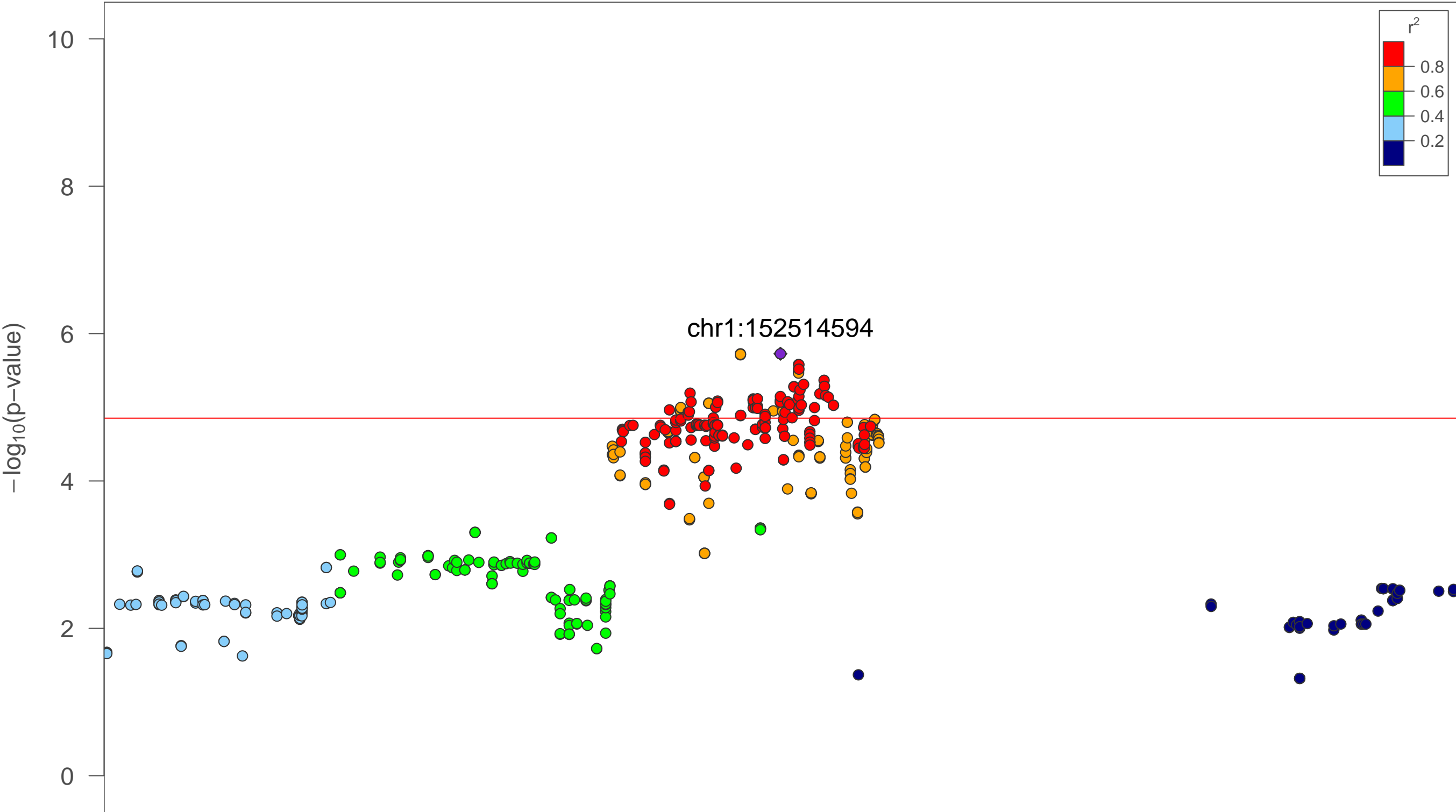
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:125434348	8	125.4343	0.004035697	Credible Set	purple
chr8:125434876	8	125.4349	0.003964326	Credible Set	purple
chr8:125435327	8	125.4353	0.003969090	Credible Set	purple
chr8:125435876	8	125.4359	0.003944932	Credible Set	purple
chr8:125442038	8	125.4420	0.005071274	Credible Set	purple
chr8:125442845	8	125.4428	0.003941202	Credible Set	purple
chr8:125445748	8	125.4457	0.003789302	Credible Set	purple
chr8:125447109	8	125.4471	0.003928053	Credible Set	purple
chr8:125470813	8	125.4708	0.003830442	Credible Set	purple
chr8:125475610	8	125.4756	0.003947334	Credible Set	purple
chr8:125490914	8	125.4909	0.003947334	Credible Set	purple
chr8:125519869	8	125.5199	0.003947334	Credible Set	purple
chr8:125532800	8	125.5328	0.003950738	Credible Set	purple
chr8:125532879	8	125.5329	0.003950738	Credible Set	purple
chr8:125535705	8	125.5357	0.005200027	Credible Set	purple
chr8:125535715	8	125.5357	0.005188449	Credible Set	purple
chr8:125536481	8	125.5365	0.004393031	Credible Set	purple
chr8:125560754	8	125.5608	0.004745899	Credible Set	purple
chr8:125576647	8	125.5766	0.004973082	Credible Set	purple
chr8:125584598	8	125.5846	0.003112353	Credible Set	purple
chr8:125584609	8	125.5846	0.004086251	Credible Set	purple
chr8:125585107	8	125.5851	0.004664570	Credible Set	purple
chr8:125602298	8	125.6023	0.004606692	Credible Set	purple
chr8:125621974	8	125.6220	0.004828224	Credible Set	purple
chr8:125645785	8	125.6458	0.004040086	Credible Set	purple
chr8:125645803	8	125.6458	0.004040086	Credible Set	purple
chr8:125686823	8	125.6868	0.005324217	Credible Set	purple
chr8:125689213	8	125.6892	0.005092299	Credible Set	purple
chr8:125689398	8	125.6894	0.005096822	Credible Set	purple
chr8:125691437	8	125.6914	0.001702796	Credible Set	purple
chr8:125697075	8	125.6971	0.003270429	Credible Set	purple
chr8:125705281	8	125.7053	0.004040400	Credible Set	purple
chr8:125705285	8	125.7053	0.003828675	Credible Set	purple
chr8:125705796	8	125.7058	0.004714132	Credible Set	purple
chr8:125712995	8	125.7130	0.010388986	Credible Set	purple
chr8:125712999	8	125.7130	0.010446069	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:125713002	8	125.7130	0.010312410	Credible Set	purple
chr8:125713148	8	125.7131	0.004560446	Credible Set	purple
chr8:126045228	8	126.0452	0.046640253	Credible Set	purple
chr8:126176719	8	126.1767	0.200755065	Credible Set	purple
chr8:126176728	8	126.1767	0.202885381	Credible Set	purple
chr8:126176792	8	126.1768	0.054057454	Credible Set	purple
chr8:126176848	8	126.1768	0.044585097	Credible Set	purple
chr8:126193117	8	126.1931	0.009681698	Credible Set	purple
chr8:126193126	8	126.1931	0.009858927	Credible Set	purple
chr8:126193186	8	126.1932	0.009338563	Credible Set	purple

F34 GBS, retic parameters reticulocyte percent



39 genes
omitted

date: Thu Oct 25 17:04:13 2018

build: F34GBS

display range: chr1:147514594–157514594 [147514594–157514594]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:152514594

number of SNPs plotted: 499

min P-value: 1.88E–6 [chr1:152514594]

max P-value: 4.8E–2 [chr1:156353025]

omitted Genes: Pdc, 2310030A07Rik, BC003331

omitted Genes: Tpr, Prg4, Trmt1l

omitted Genes: Mir7682, Fam129a, Edem3

omitted Genes: 1700025G04Rik, Arpc5, Ncf2

omitted Genes: Smg7, Nmnat2, E330020D12Rik

omitted Genes: Dhx9, Rgs8, C230024C17Rik

omitted Genes: Rgs16, Rnasel, Rgs1

omitted Genes: Teddm2, Teddm1b, Teddm1a

omitted Genes: Mir8114, 4930452N14Rik, 4930532M18Rik

omitted Genes: Gm5532, Acbd6, Tor1aip1

omitted Genes: Fam163a, Tdrd5, Nphs2

omitted Genes: Fam20b, Ralgps2, Angptl1

omitted Genes: 2810025M15Rik, BC026585, Sec16b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:151339098	1	151.3391	0.002896438	Credible Set	purple
chr1:151346919	1	151.3469	0.004173767	Credible Set	purple
chr1:151346950	1	151.3469	0.004050923	Credible Set	purple
chr1:151351933	1	151.3519	0.003903870	Credible Set	purple
chr1:151352397	1	151.3524	0.003897974	Credible Set	purple
chr1:151400733	1	151.4007	0.004666141	Credible Set	purple
chr1:151424994	1	151.4250	0.004691589	Credible Set	purple
chr1:151515546	1	151.5155	0.001985201	Credible Set	purple
chr1:151515567	1	151.5156	0.002067244	Credible Set	purple
chr1:151516022	1	151.5160	0.001823672	Credible Set	purple
chr1:151516157	1	151.5162	0.002830805	Credible Set	purple
chr1:151582944	1	151.5829	0.003570811	Credible Set	purple
chr1:151626734	1	151.6267	0.004691589	Credible Set	purple
chr1:151630091	1	151.6301	0.004466706	Credible Set	purple
chr1:151663201	1	151.6632	0.004119639	Credible Set	purple
chr1:151693985	1	151.6940	0.002783331	Credible Set	purple
chr1:151694036	1	151.6940	0.007437689	Credible Set	purple
chr1:151741376	1	151.7414	0.004027916	Credible Set	purple
chr1:151741404	1	151.7414	0.002907849	Credible Set	purple
chr1:151741409	1	151.7414	0.002907849	Credible Set	purple
chr1:151741410	1	151.7414	0.002902968	Credible Set	purple
chr1:151741413	1	151.7414	0.002907849	Credible Set	purple
chr1:151741477	1	151.7415	0.005100188	Credible Set	purple
chr1:151741478	1	151.7415	0.005491751	Credible Set	purple
chr1:151777225	1	151.7772	0.005626348	Credible Set	purple
chr1:151777722	1	151.7777	0.005341084	Credible Set	purple
chr1:151777765	1	151.7778	0.005657913	Credible Set	purple
chr1:151832714	1	151.8327	0.006949675	Credible Set	purple
chr1:151832824	1	151.8328	0.006358324	Credible Set	purple
chr1:151841655	1	151.8417	0.007041982	Credible Set	purple
chr1:151846455	1	151.8465	0.012261176	Credible Set	purple
chr1:151854124	1	151.8541	0.009435657	Credible Set	purple
chr1:151854136	1	151.8541	0.003033152	Credible Set	purple
chr1:151854478	1	151.8545	0.004411419	Credible Set	purple
chr1:151854533	1	151.8545	0.004394856	Credible Set	purple
chr1:151893115	1	151.8931	0.004691589	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:151893154	1	151.8932	0.004691589	Credible Set	purple
chr1:151893169	1	151.8932	0.004876621	Credible Set	purple
chr1:151896769	1	151.8968	0.004891800	Credible Set	purple
chr1:151907336	1	151.9073	0.004865930	Credible Set	purple
chr1:151916998	1	151.9170	0.004691589	Credible Set	purple
chr1:151917004	1	151.9170	0.004691589	Credible Set	purple
chr1:151953861	1	151.9539	0.004720731	Credible Set	purple
chr1:151963849	1	151.9638	0.002965971	Credible Set	purple
chr1:151964084	1	151.9641	0.004551512	Credible Set	purple
chr1:151971418	1	151.9714	0.004691589	Credible Set	purple
chr1:152018151	1	152.0182	0.004898524	Credible Set	purple
chr1:152018723	1	152.0187	0.005853185	Credible Set	purple
chr1:152019427	1	152.0194	0.005074529	Credible Set	purple
chr1:152027497	1	152.0275	0.002520202	Credible Set	purple
chr1:152027513	1	152.0275	0.003226878	Credible Set	purple
chr1:152027772	1	152.0278	0.003402495	Credible Set	purple
chr1:152030727	1	152.0307	0.004691589	Credible Set	purple
chr1:152030740	1	152.0307	0.004691589	Credible Set	purple
chr1:152030750	1	152.0308	0.004691589	Credible Set	purple
chr1:152030755	1	152.0308	0.004691589	Credible Set	purple
chr1:152030782	1	152.0308	0.003791684	Credible Set	purple
chr1:152035922	1	152.0359	0.008054665	Credible Set	purple
chr1:152035925	1	152.0359	0.008056079	Credible Set	purple
chr1:152047326	1	152.0473	0.004699510	Credible Set	purple
chr1:152049281	1	152.0493	0.004747493	Credible Set	purple
chr1:152049576	1	152.0496	0.004709191	Credible Set	purple
chr1:152050080	1	152.0501	0.009673176	Credible Set	purple
chr1:152050132	1	152.0501	0.009271428	Credible Set	purple
chr1:152060153	1	152.0602	0.003487767	Credible Set	purple
chr1:152060186	1	152.0602	0.003468602	Credible Set	purple
chr1:152085317	1	152.0853	0.003414125	Credible Set	purple
chr1:152085323	1	152.0853	0.003507709	Credible Set	purple
chr1:152085887	1	152.0859	0.003446032	Credible Set	purple
chr1:152172042	1	152.1720	0.003232799	Credible Set	purple
chr1:152219150	1	152.2192	0.006258417	Credible Set	purple
chr1:152221047	1	152.2210	0.006330232	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:152273304	1	152.2733	0.002635169	Credible Set	purple
chr1:152312984	1	152.3130	0.007935417	Credible Set	purple
chr1:152313303	1	152.3133	0.010321796	Credible Set	purple
chr1:152313315	1	152.3133	0.009863235	Credible Set	purple
chr1:152313427	1	152.3134	0.010165857	Credible Set	purple
chr1:152313450	1	152.3134	0.009950365	Credible Set	purple
chr1:152313626	1	152.3136	0.009508917	Credible Set	purple
chr1:152313656	1	152.3137	0.009863648	Credible Set	purple
chr1:152329709	1	152.3297	0.004194085	Credible Set	purple
chr1:152329711	1	152.3297	0.004150873	Credible Set	purple
chr1:152330012	1	152.3300	0.007932320	Credible Set	purple
chr1:152344680	1	152.3447	0.008269548	Credible Set	purple
chr1:152344704	1	152.3447	0.010358700	Credible Set	purple
chr1:152345178	1	152.3452	0.007767833	Credible Set	purple
chr1:152382093	1	152.3821	0.004450088	Credible Set	purple
chr1:152382197	1	152.3822	0.004841214	Credible Set	purple
chr1:152400891	1	152.4009	0.005853289	Credible Set	purple
chr1:152401044	1	152.4010	0.005123119	Credible Set	purple
chr1:152401140	1	152.4011	0.006527809	Credible Set	purple
chr1:152401179	1	152.4012	0.006118288	Credible Set	purple
chr1:152401759	1	152.4018	0.003179731	Credible Set	purple
chr1:152402888	1	152.4029	0.004367868	Credible Set	purple
chr1:152402907	1	152.4029	0.004367868	Credible Set	purple
chr1:152402941	1	152.4029	0.004367868	Credible Set	purple
chr1:152513693	1	152.5137	0.009901076	Credible Set	purple
chr1:152513781	1	152.5138	0.009373920	Credible Set	purple
chr1:152514271	1	152.5143	0.009403894	Credible Set	purple
chr1:152514375	1	152.5144	0.011093062	Credible Set	purple
chr1:152514594	1	152.5146	0.039929574	Credible Set	purple
chr1:152514647	1	152.5146	0.039832481	Credible Set	purple
chr1:152531770	1	152.5318	0.004235411	Credible Set	purple
chr1:152536828	1	152.5368	0.001677710	Credible Set	purple
chr1:152536849	1	152.5368	0.001694258	Credible Set	purple
chr1:152536958	1	152.5370	0.005604155	Credible Set	purple
chr1:152545294	1	152.5453	0.003390846	Credible Set	purple
chr1:152545312	1	152.5453	0.003390846	Credible Set	purple

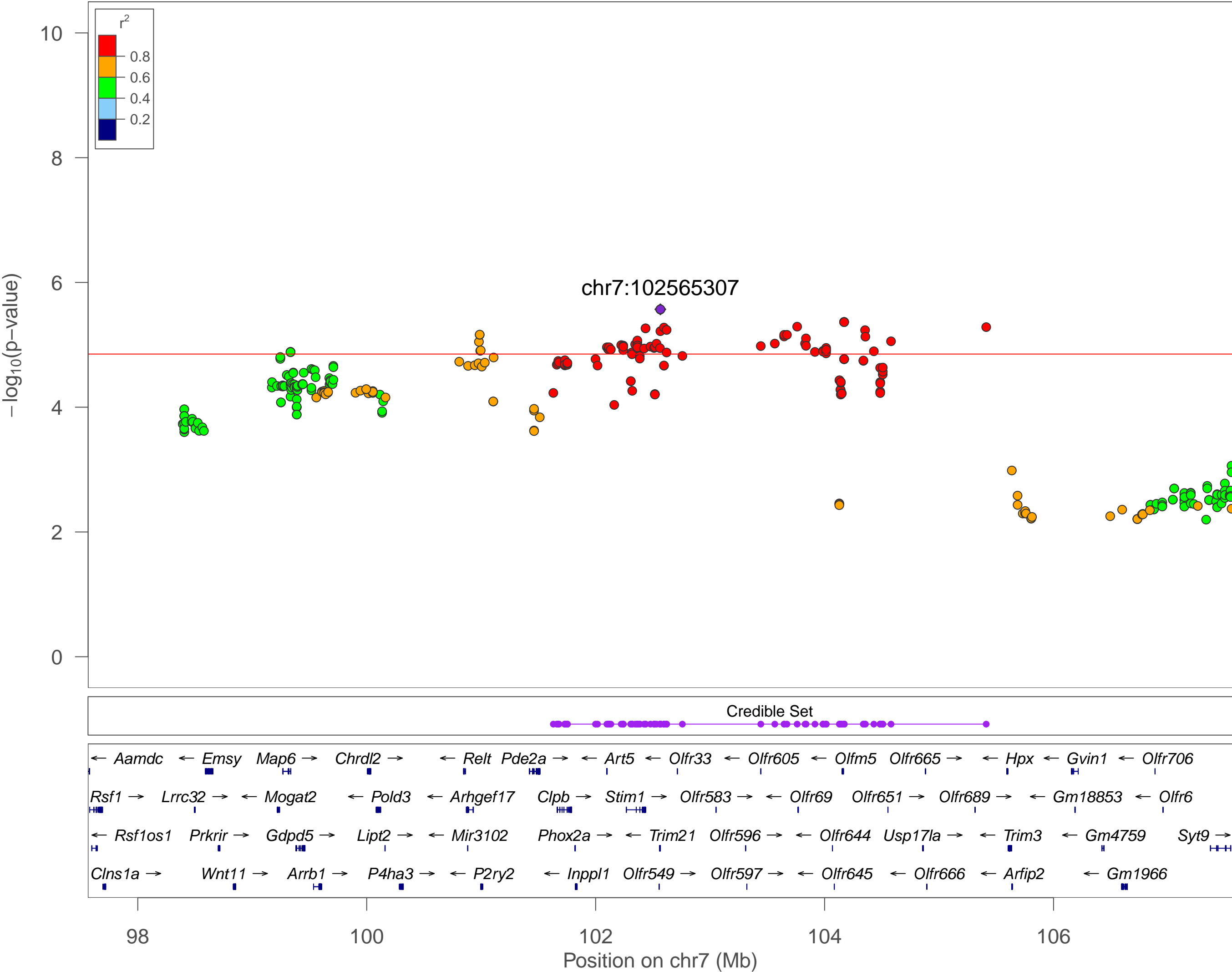
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:152548725	1	152.5487	0.006900719	Credible Set	purple
chr1:152568046	1	152.5680	0.009478547	Credible Set	purple
chr1:152582751	1	152.5828	0.008722077	Credible Set	purple
chr1:152600723	1	152.6007	0.005880718	Credible Set	purple
chr1:152614121	1	152.6141	0.014948522	Credible Set	purple
chr1:152614133	1	152.6141	0.014797893	Credible Set	purple
chr1:152644575	1	152.6446	0.010114633	Credible Set	purple
chr1:152650776	1	152.6508	0.007548897	Credible Set	purple
chr1:152650892	1	152.6509	0.007345767	Credible Set	purple
chr1:152650962	1	152.6510	0.011127781	Credible Set	purple
chr1:152650976	1	152.6510	0.028765589	Credible Set	purple
chr1:152651016	1	152.6510	0.025133576	Credible Set	purple
chr1:152651777	1	152.6518	0.007821710	Credible Set	purple
chr1:152659220	1	152.6592	0.013518611	Credible Set	purple
chr1:152669121	1	152.6691	0.008623833	Credible Set	purple
chr1:152685949	1	152.6859	0.015942450	Credible Set	purple
chr1:152731898	1	152.7319	0.003892579	Credible Set	purple
chr1:152731899	1	152.7319	0.003604457	Credible Set	purple
chr1:152731910	1	152.7319	0.003205477	Credible Set	purple
chr1:152732468	1	152.7325	0.002820924	Credible Set	purple
chr1:152732477	1	152.7325	0.002848003	Credible Set	purple
chr1:152732522	1	152.7325	0.002607363	Credible Set	purple
chr1:152766369	1	152.7664	0.007971496	Credible Set	purple
chr1:152766418	1	152.7664	0.005413035	Credible Set	purple
chr1:152805855	1	152.8059	0.012036101	Credible Set	purple
chr1:152837203	1	152.8372	0.018034009	Credible Set	purple
chr1:152840027	1	152.8400	0.015050244	Credible Set	purple
chr1:152847662	1	152.8477	0.011433616	Credible Set	purple
chr1:152868708	1	152.8687	0.010864872	Credible Set	purple
chr1:152906391	1	152.9064	0.008534767	Credible Set	purple
chr1:152906398	1	152.9064	0.008530725	Credible Set	purple
chr1:153091176	1	153.0912	0.002688364	Credible Set	purple
chr1:153091194	1	153.0912	0.002722811	Credible Set	purple
chr1:153096224	1	153.0962	0.002384013	Credible Set	purple
chr1:153128621	1	153.1286	0.002474947	Credible Set	purple
chr1:153129186	1	153.1292	0.002387507	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:153129276	1	153.1293	0.004400066	Credible Set	purple
chr1:153134434	1	153.1344	0.002371447	Credible Set	purple
chr1:153134521	1	153.1345	0.003527590	Credible Set	purple
chr1:153136723	1	153.1367	0.002653707	Credible Set	purple
chr1:153180646	1	153.1806	0.004571288	Credible Set	purple
chr1:153180739	1	153.1807	0.004551653	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes



date: Thu Oct 25 17:04:37 2018

build: F34GBS

display range: chr7:97565307–107565307 [97565307–107565307]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:102565307

number of SNPs plotted: 328

min P-value: 2.7E–6 [chr7:102565307]

max P-value: 6.35E–3 [chr7:107333153]

omitted Genes: Aqp11, Pak1, Gdpd4

omitted Genes: Myo7a, Capn5, Omp

omitted Genes: Gm16938, B3gnt6, Acer3

omitted Genes: Tsku, Gucy2d, Uvrag

omitted Genes: Dgat2, Gm26705, Serpinh1

omitted Genes: Kihl35, Rps3, Snord15b

omitted Genes: Snord15a, Mir326, Tpbgl

omitted Genes: Slco2b1, Olfr520, Olfr521

omitted Genes: Neu3, Spcs2, Xrra1

omitted Genes: Rnf169, Kcne3, Pgm2l1

omitted Genes: Gpx2-ps1, Ppme1, C2cd3

omitted Genes: Ucp3, Ucp2, Dnajb13

omitted Genes: Coa4, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Fam168a, P2ry6

omitted Genes: Fchsd2, Atg16l2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Art2b, Folr2, Folr1

omitted Genes: Anapc15, Tomt, Lamtor1

omitted Genes: Lrrc51, Numa1, Il18bp

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr78, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr573, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101630176	7	101.6302	0.001666218	Credible Set	purple
chr7:101660383	7	101.6604	0.004478869	Credible Set	purple
chr7:101669186	7	101.6692	0.004685483	Credible Set	purple
chr7:101673483	7	101.6735	0.005106436	Credible Set	purple
chr7:101680140	7	101.6801	0.004873251	Credible Set	purple
chr7:101731061	7	101.7311	0.004366629	Credible Set	purple
chr7:101731110	7	101.7311	0.004834470	Credible Set	purple
chr7:101731130	7	101.7311	0.005250993	Credible Set	purple
chr7:101731658	7	101.7317	0.004500023	Credible Set	purple
chr7:101751790	7	101.7518	0.004464519	Credible Set	purple
chr7:101752580	7	101.7526	0.004669091	Credible Set	purple
chr7:101752971	7	101.7530	0.004775575	Credible Set	purple
chr7:101998679	7	101.9987	0.005446458	Credible Set	purple
chr7:102016307	7	102.0163	0.004346337	Credible Set	purple
chr7:102098054	7	102.0981	0.008271975	Credible Set	purple
chr7:102110109	7	102.1101	0.007713600	Credible Set	purple
chr7:102110501	7	102.1105	0.007717741	Credible Set	purple
chr7:102116318	7	102.1163	0.008094142	Credible Set	purple
chr7:102116430	7	102.1164	0.008094142	Credible Set	purple
chr7:102116478	7	102.1165	0.008281684	Credible Set	purple
chr7:102132562	7	102.1326	0.007649262	Credible Set	purple
chr7:102223396	7	102.2234	0.008932092	Credible Set	purple
chr7:102240695	7	102.2407	0.007499838	Credible Set	purple
chr7:102241191	7	102.2412	0.008790987	Credible Set	purple
chr7:102241211	7	102.2412	0.008585367	Credible Set	purple
chr7:102241212	7	102.2412	0.008450446	Credible Set	purple
chr7:102306968	7	102.3070	0.002505706	Credible Set	purple
chr7:102306978	7	102.3070	0.002523243	Credible Set	purple
chr7:102317213	7	102.3172	0.006912562	Credible Set	purple
chr7:102317246	7	102.3172	0.006473017	Credible Set	purple
chr7:102319586	7	102.3196	0.001794277	Credible Set	purple
chr7:102344970	7	102.3450	0.009168286	Credible Set	purple
chr7:102363897	7	102.3639	0.008006639	Credible Set	purple
chr7:102364204	7	102.3642	0.009810287	Credible Set	purple
chr7:102364223	7	102.3642	0.010503286	Credible Set	purple
chr7:102364315	7	102.3643	0.008789794	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102364326	7	102.3643	0.008789794	Credible Set	purple
chr7:102364411	7	102.3644	0.008263564	Credible Set	purple
chr7:102385520	7	102.3855	0.006047459	Credible Set	purple
chr7:102385536	7	102.3855	0.005554218	Credible Set	purple
chr7:102423165	7	102.4232	0.007919867	Credible Set	purple
chr7:102435692	7	102.4357	0.016139724	Credible Set	purple
chr7:102435720	7	102.4357	0.016139724	Credible Set	purple
chr7:102478469	7	102.4785	0.008488158	Credible Set	purple
chr7:102510475	7	102.5105	0.008124566	Credible Set	purple
chr7:102510607	7	102.5106	0.008083571	Credible Set	purple
chr7:102516878	7	102.5169	0.008314005	Credible Set	purple
chr7:102531652	7	102.5317	0.009387117	Credible Set	purple
chr7:102561708	7	102.5617	0.008035262	Credible Set	purple
chr7:102565262	7	102.5653	0.031563442	Credible Set	purple
chr7:102565292	7	102.5653	0.031472204	Credible Set	purple
chr7:102565307	7	102.5653	0.031602621	Credible Set	purple
chr7:102565323	7	102.5653	0.031511275	Credible Set	purple
chr7:102565329	7	102.5653	0.031511275	Credible Set	purple
chr7:102565410	7	102.5654	0.014576406	Credible Set	purple
chr7:102596442	7	102.5964	0.016595746	Credible Set	purple
chr7:102596578	7	102.5966	0.004329223	Credible Set	purple
chr7:102596636	7	102.5966	0.004357565	Credible Set	purple
chr7:102619418	7	102.6194	0.015290632	Credible Set	purple
chr7:102619431	7	102.6194	0.015253688	Credible Set	purple
chr7:102619466	7	102.6195	0.006888519	Credible Set	purple
chr7:102757499	7	102.7575	0.006102586	Credible Set	purple
chr7:103442570	7	103.4426	0.008636898	Credible Set	purple
chr7:103564836	7	103.5648	0.009421142	Credible Set	purple
chr7:103646439	7	103.6464	0.012111876	Credible Set	purple
chr7:103646709	7	103.6467	0.012830230	Credible Set	purple
chr7:103671033	7	103.6710	0.012844440	Credible Set	purple
chr7:103760301	7	103.7603	0.017133624	Credible Set	purple
chr7:103829200	7	103.8292	0.009447507	Credible Set	purple
chr7:103837099	7	103.8371	0.011322627	Credible Set	purple
chr7:103837213	7	103.8372	0.008715849	Credible Set	purple
chr7:103915503	7	103.9155	0.007023448	Credible Set	purple

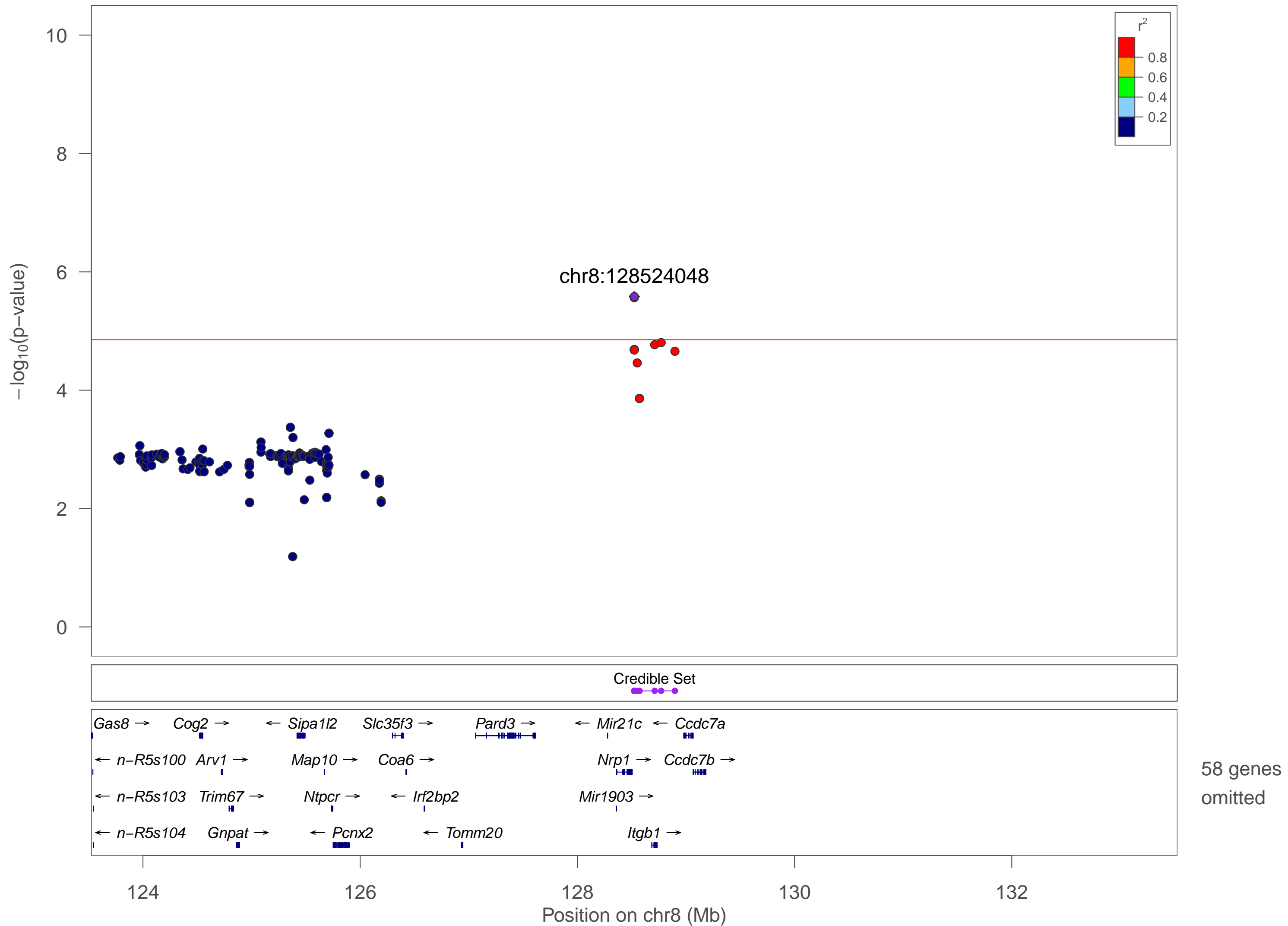
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986792	7	103.9868	0.007285178	Credible Set	purple
chr7:103986795	7	103.9868	0.007285178	Credible Set	purple
chr7:103986857	7	103.9869	0.007129979	Credible Set	purple
chr7:103986860	7	103.9869	0.007129979	Credible Set	purple
chr7:104012808	7	104.0128	0.006678759	Credible Set	purple
chr7:104013370	7	104.0134	0.007235938	Credible Set	purple
chr7:104013395	7	104.0134	0.008094198	Credible Set	purple
chr7:104013467	7	104.0135	0.007587979	Credible Set	purple
chr7:104129734	7	104.1297	0.002594766	Credible Set	purple
chr7:104129736	7	104.1297	0.002594766	Credible Set	purple
chr7:104138934	7	104.1389	0.001858189	Credible Set	purple
chr7:104138936	7	104.1389	0.001865475	Credible Set	purple
chr7:104138968	7	104.1390	0.001865475	Credible Set	purple
chr7:104141705	7	104.1417	0.002378657	Credible Set	purple
chr7:104141768	7	104.1418	0.002450029	Credible Set	purple
chr7:104149893	7	104.1499	0.001648049	Credible Set	purple
chr7:104170479	7	104.1705	0.020160451	Credible Set	purple
chr7:104170506	7	104.1705	0.020225329	Credible Set	purple
chr7:104170518	7	104.1705	0.020295584	Credible Set	purple
chr7:104170522	7	104.1705	0.020184594	Credible Set	purple
chr7:104170543	7	104.1705	0.020080050	Credible Set	purple
chr7:104170588	7	104.1706	0.005423359	Credible Set	purple
chr7:104170594	7	104.1706	0.005434988	Credible Set	purple
chr7:104170618	7	104.1706	0.005458156	Credible Set	purple
chr7:104170662	7	104.1707	0.005458156	Credible Set	purple
chr7:104338784	7	104.3388	0.005132344	Credible Set	purple
chr7:104338810	7	104.3388	0.005188055	Credible Set	purple
chr7:104353491	7	104.3535	0.015143062	Credible Set	purple
chr7:104356230	7	104.3562	0.012025411	Credible Set	purple
chr7:104430205	7	104.4302	0.007189441	Credible Set	purple
chr7:104485236	7	104.4852	0.004012765	Credible Set	purple
chr7:104485721	7	104.4857	0.001742260	Credible Set	purple
chr7:104485727	7	104.4857	0.001658591	Credible Set	purple
chr7:104486022	7	104.4860	0.002426149	Credible Set	purple
chr7:104486041	7	104.4860	0.002328465	Credible Set	purple
chr7:104507724	7	104.5077	0.003180216	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104508127	7	104.5081	0.003511477	Credible Set	purple
chr7:104508173	7	104.5082	0.004054181	Credible Set	purple
chr7:104580091	7	104.5801	0.010219445	Credible Set	purple
chr7:105411752	7	105.4118	0.016860666	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes

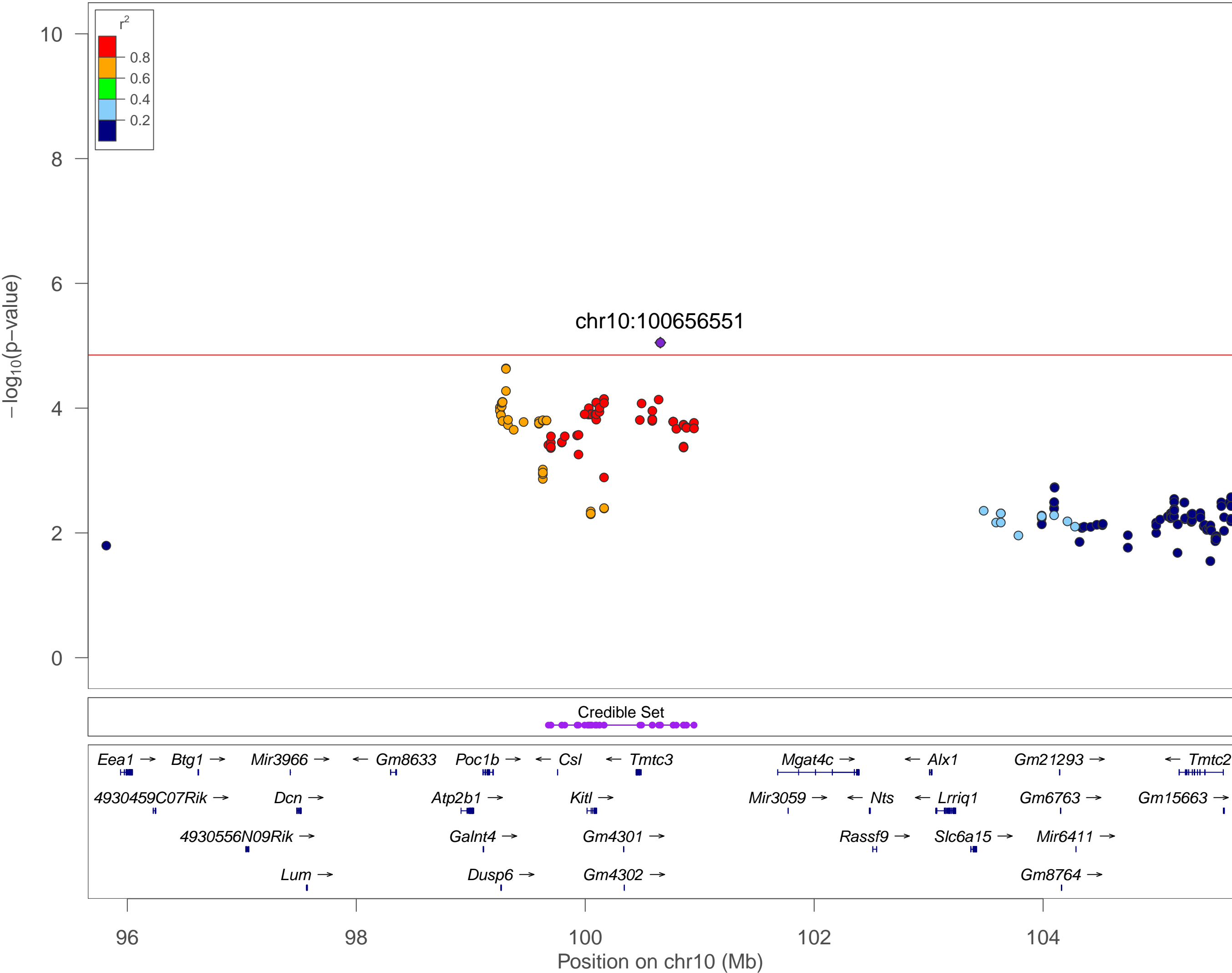


date: Thu Oct 25 17:04:47 2018
build: F34GBS
display range: chr8:123524048–133524048 [123524048–133524048]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128524048
number of SNPs plotted: 191
min P-value: 2.62E–6 [chr8:128524048]
max P-value: 6.49E–2 [chr8:125378859]
omitted Genes: n-R5s105, n-R5s108, n-R5s110
omitted Genes: n-R5s111, n-R5s113, Gm25018
omitted Genes: n-R5s117, n-R5s121, n-R5s122
omitted Genes: n-R5s123, n-R5s124, n-R5s128
omitted Genes: Gm26391, n-R5s133, n-R5s134
omitted Genes: Rn5s, n-R5s136, n-R5s138
omitted Genes: n-R5s139, Gm22109, n-R5s141
omitted Genes: n-R5s142, n-R5s143, n-R5s144
omitted Genes: Gm25212, n-R5s146, Gm22291
omitted Genes: Gm23284, n-R5s149, Rhou
omitted Genes: 6030466F02Rik, Rab4a, Ccsap
omitted Genes: Acta1, Nup133, Abcb10
omitted Genes: Taf5l, Mir1967, Urb2
omitted Genes: Galnt2, Pgbd5, Agt
omitted Genes: Capn9, 2310022B05Rik, Ttc13
omitted Genes: Fam89a, 2810004N23Rik, Exoc8
omitted Genes: Sprtn, Egl1, Tsnax
omitted Genes: Disc1, 4930567H12Rik, BC021891
omitted Genes: Kcnk1, Gm17296, Rbm34
omitted Genes: 2610044O15Rik8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128523972	8	128.5240	0.033717596	Credible Set	purple
chr8:128524047	8	128.5240	0.238995812	Credible Set	purple
chr8:128524048	8	128.5240	0.241872420	Credible Set	purple
chr8:128524081	8	128.5241	0.232170029	Credible Set	purple
chr8:128524424	8	128.5244	0.033841364	Credible Set	purple
chr8:128524425	8	128.5244	0.033257818	Credible Set	purple
chr8:128524441	8	128.5244	0.033192537	Credible Set	purple
chr8:128551483	8	128.5515	0.020601125	Credible Set	purple
chr8:128571869	8	128.5719	0.005561569	Credible Set	purple
chr8:128571887	8	128.5719	0.005561968	Credible Set	purple
chr8:128711717	8	128.7117	0.040376936	Credible Set	purple
chr8:128771719	8	128.7717	0.043695102	Credible Set	purple
chr8:128898075	8	128.8981	0.031594156	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes



date: Thu Oct 25 17:04:25 2018

build: F34GBS

display range: chr10:95656551–105656551 [95656551–105656551]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:100656551

number of SNPs plotted: 225

min P-value: 8.91E–6 [chr10:100656551]

max P-value: 2.83E–2 [chr10:105460999]

omitted Genes: 4930473O22Rik, Kera, Epyc

omitted Genes: Gm10754, Ccer1, 4930525C09Rik

omitted Genes: Gm20110, Gm18409, Gm4303

omitted Genes: Gm4305, Gm4307, Gm4312

omitted Genes: Cep290, 4930430F08Rik, 1700017N19Rik

omitted Genes: Gm21304, Gm21312, Gm20765

omitted Genes: Gm4340

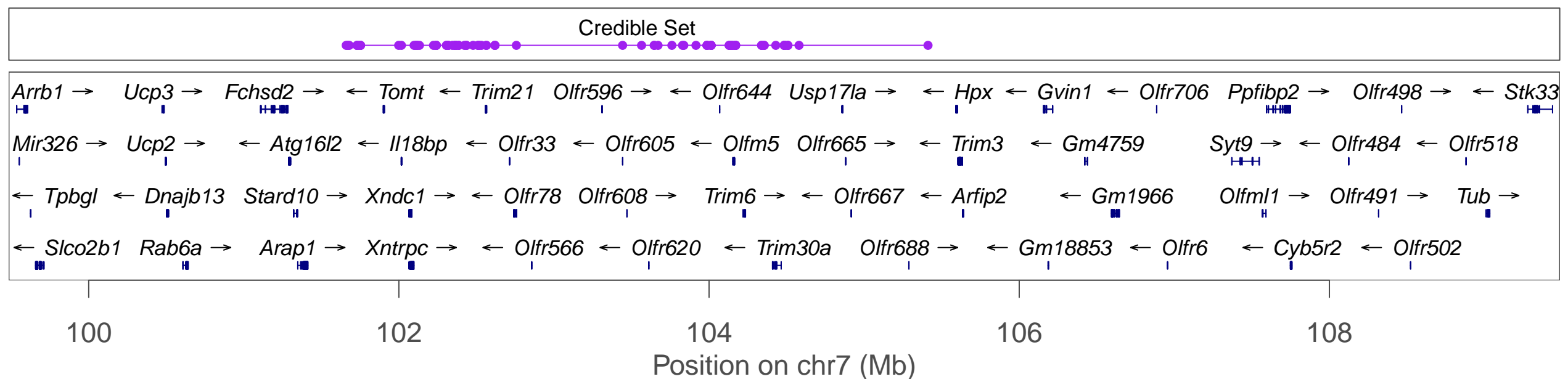
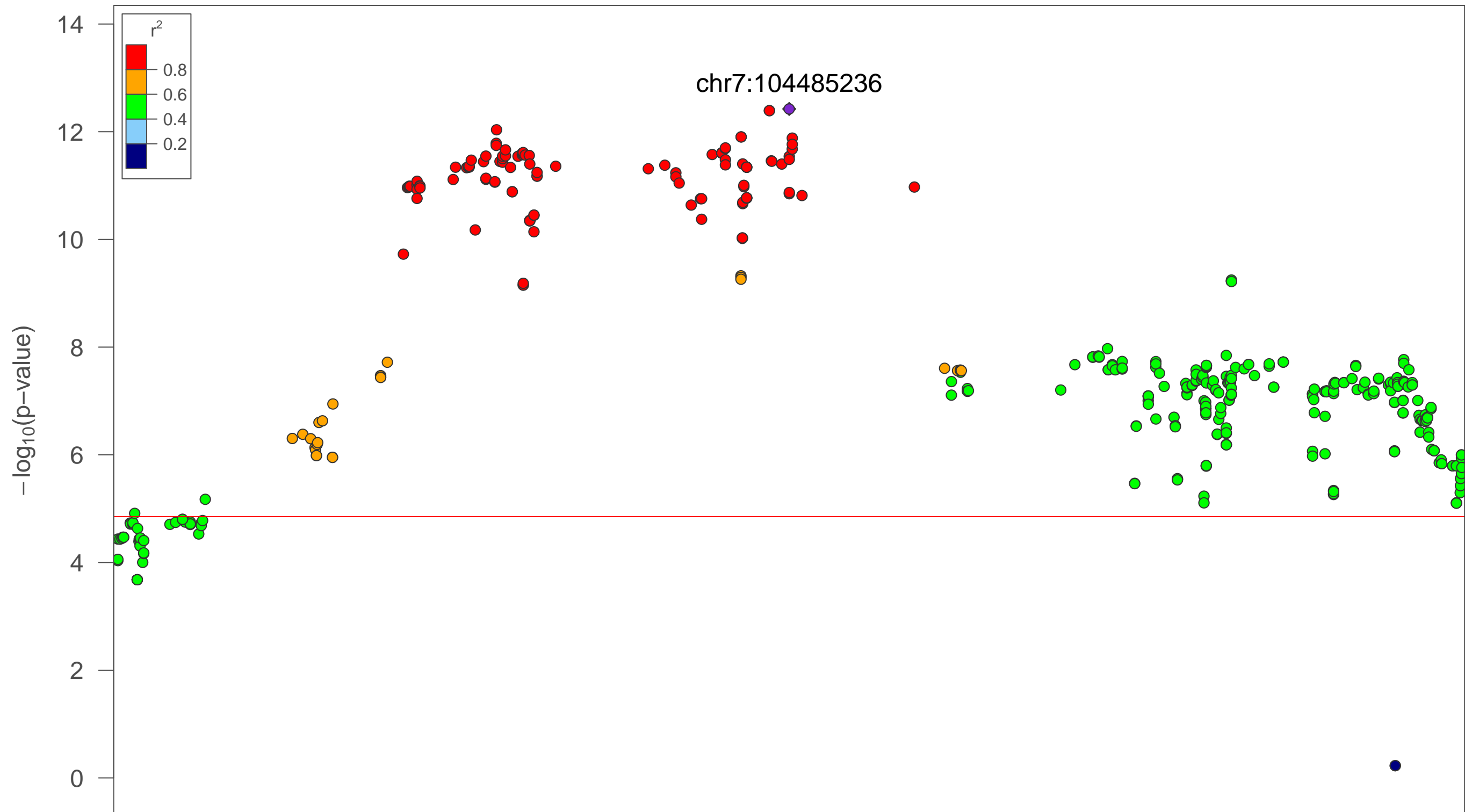
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:99678204	10	99.67820	0.003695785	Credible Set	purple
chr10:99699271	10	99.69927	0.004004593	Credible Set	purple
chr10:99699681	10	99.69968	0.003455693	Credible Set	purple
chr10:99700646	10	99.70065	0.004977286	Credible Set	purple
chr10:99795502	10	99.79550	0.004015112	Credible Set	purple
chr10:99795653	10	99.79565	0.004090384	Credible Set	purple
chr10:99821621	10	99.82162	0.004993822	Credible Set	purple
chr10:99929872	10	99.92987	0.005147946	Credible Set	purple
chr10:99930010	10	99.93001	0.005147946	Credible Set	purple
chr10:99941475	10	99.94147	0.005237917	Credible Set	purple
chr10:99994442	10	99.99444	0.010728454	Credible Set	purple
chr10:100020266	10	100.02027	0.010728454	Credible Set	purple
chr10:100031418	10	100.03142	0.010569132	Credible Set	purple
chr10:100031691	10	100.03169	0.013242003	Credible Set	purple
chr10:100048262	10	100.04826	0.010728454	Credible Set	purple
chr10:100048350	10	100.04835	0.010728454	Credible Set	purple
chr10:100048362	10	100.04836	0.010728454	Credible Set	purple
chr10:100055412	10	100.05541	0.010728454	Credible Set	purple
chr10:100055418	10	100.05542	0.010728454	Credible Set	purple
chr10:100086663	10	100.08666	0.010728454	Credible Set	purple
chr10:100096296	10	100.09630	0.008868477	Credible Set	purple
chr10:100096708	10	100.09671	0.010728454	Credible Set	purple
chr10:100096785	10	100.09678	0.016158474	Credible Set	purple
chr10:100096807	10	100.09681	0.016158474	Credible Set	purple
chr10:100124479	10	100.12448	0.011605958	Credible Set	purple
chr10:100125049	10	100.12505	0.013368238	Credible Set	purple
chr10:100164149	10	100.16415	0.018302663	Credible Set	purple
chr10:100164180	10	100.16418	0.018302663	Credible Set	purple
chr10:100164914	10	100.16491	0.015790220	Credible Set	purple
chr10:100477167	10	100.47717	0.008760724	Credible Set	purple
chr10:100492319	10	100.49232	0.015612511	Credible Set	purple
chr10:100585564	10	100.58556	0.008502828	Credible Set	purple
chr10:100585784	10	100.58578	0.009035353	Credible Set	purple
chr10:100585854	10	100.58585	0.008814260	Credible Set	purple
chr10:100586507	10	100.58651	0.012102948	Credible Set	purple
chr10:100641295	10	100.64129	0.017827993	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:100656540	10	100.6565	0.130504087	Credible Set	purple
chr10:100656551	10	100.6566	0.130504087	Credible Set	purple
chr10:100656588	10	100.6566	0.130504087	Credible Set	purple
chr10:100656608	10	100.6566	0.130504087	Credible Set	purple
chr10:100768688	10	100.7687	0.008260169	Credible Set	purple
chr10:100768699	10	100.7687	0.008260169	Credible Set	purple
chr10:100768710	10	100.7687	0.008260169	Credible Set	purple
chr10:100768727	10	100.7687	0.008260169	Credible Set	purple
chr10:100795827	10	100.7958	0.006440819	Credible Set	purple
chr10:100858643	10	100.8586	0.007233931	Credible Set	purple
chr10:100858698	10	100.8587	0.007455446	Credible Set	purple
chr10:100858701	10	100.8587	0.007380061	Credible Set	purple
chr10:100858992	10	100.8590	0.003502672	Credible Set	purple
chr10:100859031	10	100.8590	0.003372882	Credible Set	purple
chr10:100859032	10	100.8590	0.003425095	Credible Set	purple
chr10:100884062	10	100.8841	0.006861303	Credible Set	purple
chr10:100884636	10	100.8846	0.006674317	Credible Set	purple
chr10:100949966	10	100.9500	0.007943553	Credible Set	purple
chr10:100950077	10	100.9501	0.006555414	Credible Set	purple
chr10:100950118	10	100.9501	0.006555414	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume



269 genes
omitted

date: Thu Oct 25 17:05:11 2018

build: F34GBS

display range: chr7:99485236–109485236 [99485236–109485236]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104485236

number of SNPs plotted: 448

min P-value: 3.78E–13 [chr7:104485236]

max P-value: 5.92E–1 [chr7:108970724]

omitted Genes: Olfr520, Olfr521, Neu3

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Chrdl2, Pold3, Lipt2

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: P4ha3, Ppme1, C2cd3

omitted Genes: Coa4, Mrpl48, Plekha1

omitted Genes: Fam168a, Relt, Arhgef17

omitted Genes: Mir3102, P2ry6, P2ry2

omitted Genes: Pde2a, Mir139, Art2a-ps

omitted Genes: Art2b, Clpb, Phox2a

omitted Genes: Inpp1, Folr2, Folr1

omitted Genes: Anapc15, Lamtor1, Lrrc51

omitted Genes: Numa1, Rnf121, Trpc2

omitted Genes: Art5, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Stim1, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr549, Olfr550, Olfr551

omitted Genes: Olfr552, Olfr553, Olfr554

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr560, Olfr561, Olfr564

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr583

omitted Genes: Olfr584, Olfr585, Olfr586

omitted Genes: Olfr589, Olfr591, Olfr592

omitted Genes: Olfr593, Olfr594, Usp17ld

omitted Genes: Olfr597, Olfr598, Olfr599

omitted Genes: Olfr600, Olfr601, Olfr603

omitted Genes: Usp17lc, Olfr606, Olfr609

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.002922584	Credible Set	purple
chr7:101669186	7	101.6692	0.002980118	Credible Set	purple
chr7:101673483	7	101.6735	0.003100272	Credible Set	purple
chr7:101680140	7	101.6801	0.003089270	Credible Set	purple
chr7:101731061	7	101.7311	0.003264047	Credible Set	purple
chr7:101731110	7	101.7311	0.002720615	Credible Set	purple
chr7:101731130	7	101.7311	0.001858530	Credible Set	purple
chr7:101731658	7	101.7317	0.003812740	Credible Set	purple
chr7:101751790	7	101.7518	0.003150088	Credible Set	purple
chr7:101752580	7	101.7526	0.003097184	Credible Set	purple
chr7:101752971	7	101.7530	0.002881860	Credible Set	purple
chr7:101998679	7	101.9987	0.004105885	Credible Set	purple
chr7:102016307	7	102.0163	0.006874705	Credible Set	purple
chr7:102098054	7	102.0981	0.006735745	Credible Set	purple
chr7:102110109	7	102.1101	0.006940155	Credible Set	purple
chr7:102110501	7	102.1105	0.007050173	Credible Set	purple
chr7:102116318	7	102.1163	0.006921301	Credible Set	purple
chr7:102116430	7	102.1164	0.006921301	Credible Set	purple
chr7:102116478	7	102.1165	0.007172341	Credible Set	purple
chr7:102132562	7	102.1326	0.009237227	Credible Set	purple
chr7:102223396	7	102.2234	0.008678256	Credible Set	purple
chr7:102240695	7	102.2407	0.010954729	Credible Set	purple
chr7:102241191	7	102.2412	0.004136877	Credible Set	purple
chr7:102241211	7	102.2412	0.004235478	Credible Set	purple
chr7:102241212	7	102.2412	0.004323937	Credible Set	purple
chr7:102306968	7	102.3070	0.003675950	Credible Set	purple
chr7:102306978	7	102.3070	0.003746813	Credible Set	purple
chr7:102317213	7	102.3172	0.018744530	Credible Set	purple
chr7:102317246	7	102.3172	0.017143486	Credible Set	purple
chr7:102319586	7	102.3196	0.033053856	Credible Set	purple
chr7:102344970	7	102.3450	0.008763101	Credible Set	purple
chr7:102363897	7	102.3639	0.010237186	Credible Set	purple
chr7:102364204	7	102.3642	0.009390003	Credible Set	purple
chr7:102364223	7	102.3642	0.008475725	Credible Set	purple
chr7:102364315	7	102.3643	0.009876047	Credible Set	purple
chr7:102364326	7	102.3643	0.009876047	Credible Set	purple

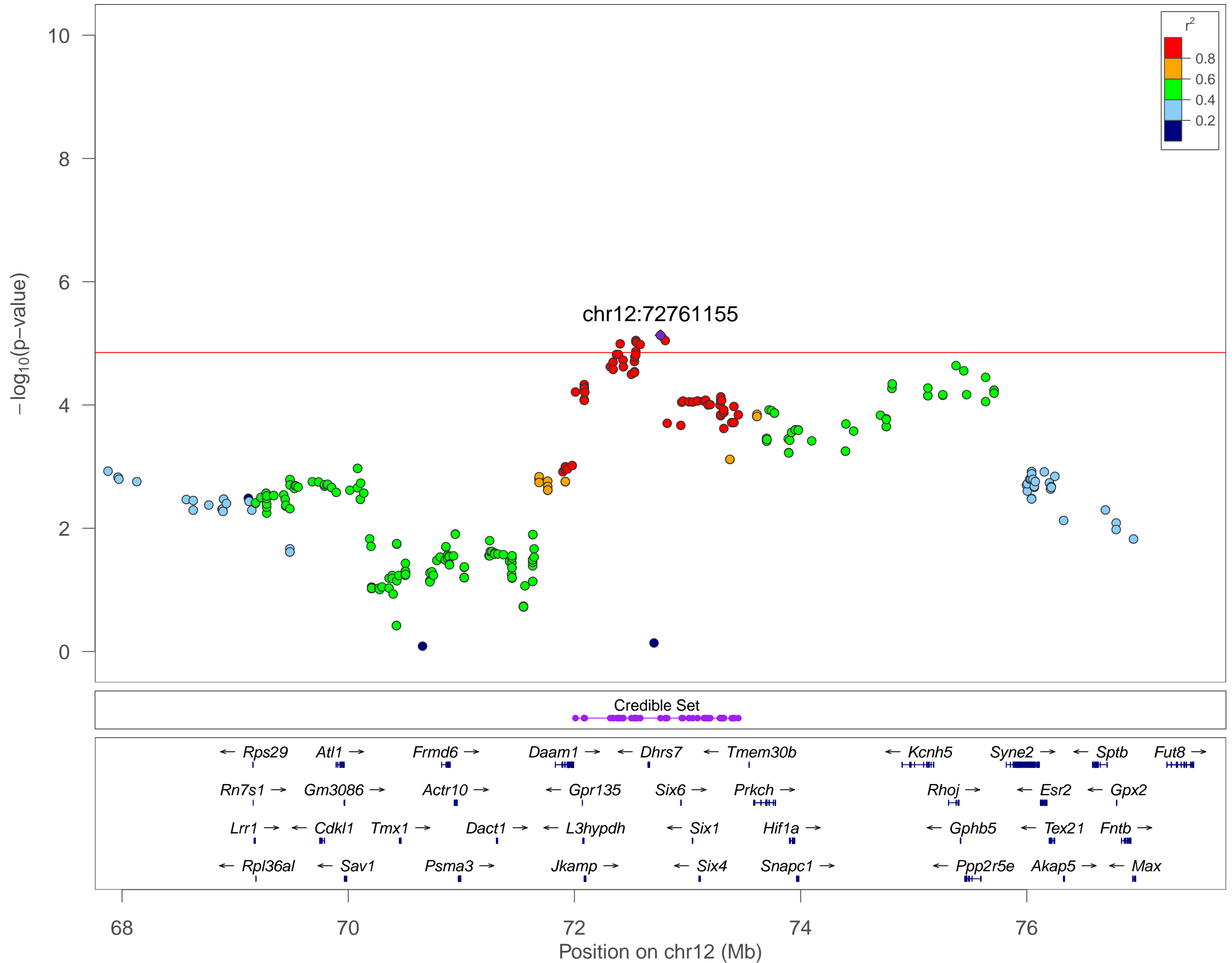
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102364411	7	102.3644	0.010896742	Credible Set	purple
chr7:102385520	7	102.3855	0.011063609	Credible Set	purple
chr7:102385536	7	102.3855	0.014229578	Credible Set	purple
chr7:102423165	7	102.4232	0.006809155	Credible Set	purple
chr7:102435692	7	102.4357	0.002460061	Credible Set	purple
chr7:102435720	7	102.4357	0.002460061	Credible Set	purple
chr7:102478469	7	102.4785	0.010867907	Credible Set	purple
chr7:102510475	7	102.5105	0.011608096	Credible Set	purple
chr7:102510607	7	102.5106	0.012399442	Credible Set	purple
chr7:102516878	7	102.5169	0.012715001	Credible Set	purple
chr7:102531652	7	102.5317	0.011438024	Credible Set	purple
chr7:102561708	7	102.5617	0.011251725	Credible Set	purple
chr7:102565410	7	102.5654	0.007851336	Credible Set	purple
chr7:102619418	7	102.6194	0.004724310	Credible Set	purple
chr7:102619431	7	102.6194	0.004725741	Credible Set	purple
chr7:102619466	7	102.6195	0.005514189	Credible Set	purple
chr7:102757499	7	102.7575	0.007152918	Credible Set	purple
chr7:103442570	7	103.4426	0.006445316	Credible Set	purple
chr7:103564836	7	103.5648	0.007471790	Credible Set	purple
chr7:103646439	7	103.6464	0.005434970	Credible Set	purple
chr7:103646709	7	103.6467	0.004594335	Credible Set	purple
chr7:103671033	7	103.6710	0.003535162	Credible Set	purple
chr7:103760301	7	103.7603	0.001406962	Credible Set	purple
chr7:103829200	7	103.8292	0.001838384	Credible Set	purple
chr7:103837213	7	103.8372	0.001835699	Credible Set	purple
chr7:103915503	7	103.9155	0.011708764	Credible Set	purple
chr7:103986792	7	103.9868	0.012442039	Credible Set	purple
chr7:103986795	7	103.9868	0.012442039	Credible Set	purple
chr7:103986857	7	103.9869	0.012419049	Credible Set	purple
chr7:103986860	7	103.9869	0.012419049	Credible Set	purple
chr7:104012808	7	104.0128	0.015074030	Credible Set	purple
chr7:104013370	7	104.0134	0.009389331	Credible Set	purple
chr7:104013395	7	104.0134	0.007585969	Credible Set	purple
chr7:104013467	7	104.0135	0.015455171	Credible Set	purple
chr7:104129734	7	104.1297	0.024487194	Credible Set	purple
chr7:104129736	7	104.1297	0.024487194	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104141343	7	104.1413	0.007884958	Credible Set	purple
chr7:104141705	7	104.1417	0.001493692	Credible Set	purple
chr7:104141768	7	104.1418	0.001575630	Credible Set	purple
chr7:104149893	7	104.1499	0.003036090	Credible Set	purple
chr7:104149911	7	104.1499	0.003218082	Credible Set	purple
chr7:104170479	7	104.1705	0.001907269	Credible Set	purple
chr7:104170506	7	104.1705	0.001894180	Credible Set	purple
chr7:104170518	7	104.1705	0.001879994	Credible Set	purple
chr7:104170522	7	104.1705	0.001890011	Credible Set	purple
chr7:104170543	7	104.1705	0.001910915	Credible Set	purple
chr7:104170588	7	104.1706	0.006882723	Credible Set	purple
chr7:104170594	7	104.1706	0.006857523	Credible Set	purple
chr7:104170618	7	104.1706	0.006874262	Credible Set	purple
chr7:104170662	7	104.1707	0.006874262	Credible Set	purple
chr7:104338784	7	104.3388	0.073962290	Credible Set	purple
chr7:104338810	7	104.3388	0.073651039	Credible Set	purple
chr7:104353491	7	104.3535	0.008981800	Credible Set	purple
chr7:104356230	7	104.3562	0.008816571	Credible Set	purple
chr7:104430205	7	104.4302	0.007838657	Credible Set	purple
chr7:104485236	7	104.4852	0.079147235	Credible Set	purple
chr7:104485721	7	104.4857	0.010814539	Credible Set	purple
chr7:104485727	7	104.4857	0.009539969	Credible Set	purple
chr7:104486022	7	104.4860	0.002262679	Credible Set	purple
chr7:104486041	7	104.4860	0.002383354	Credible Set	purple
chr7:104507724	7	104.5077	0.014686410	Credible Set	purple
chr7:104508127	7	104.5081	0.023288637	Credible Set	purple
chr7:104508173	7	104.5082	0.017930859	Credible Set	purple
chr7:104580091	7	104.5801	0.002099295	Credible Set	purple
chr7:105411752	7	105.4118	0.002993724	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume



date: Thu Oct 25 17:04:57 2018
build: F34GBS
display range: chr12:67761155–77761155 [67761155–77761155]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr12:72761155
number of SNPs plotted: 336
min P-value: 7.38E–6 [chr12:72761155]
max P-value: 8.19E–1 [chr12:70656926]
omitted Genes: Mgat2, Dnaaf2, 9330151L19Rik
omitted Genes: Pole2, Klhdc1, Klhdc2
omitted Genes: Nemf, Rn7s2, Arf6
omitted Genes: 5830428M24Rik, Vcpkmt, Sos2
omitted Genes: L2hgdh, Atp5s, Mir681
omitted Genes: 4930512B01Rik, Map4k5, 4931403G20Rik
omitted Genes: Nin, Abhd12b, Pygl
omitted Genes: F730035M05Rik, Trim9, 3110056K07Rik
omitted Genes: Arid4a, Tomm20l, Timm9
omitted Genes: 2700049A03Rik, 1700083H02Rik, 4930404H11Rik
omitted Genes: Ccdc175, Rtn1, Lrrc9
omitted Genes: Pcnx4, Ppm1a, 4930447C04Rik
omitted Genes: Mnat1, Trmt5, Slc38a6
omitted Genes: D830013O20Rik, 2210039B01Rik, Syt16
omitted Genes: 1700086L19Rik, Dbpht2, Wdr89
omitted Genes: Rplp2-ps1, Sgpp1, Mir5101
omitted Genes: Mthfd1, Zbtb25, Zbtb1
omitted Genes: Hspa2, Ppp1r36, Gm10451
omitted Genes: Mir5135, Plekhg3, AI463170
omitted Genes: Churc1, Rab15

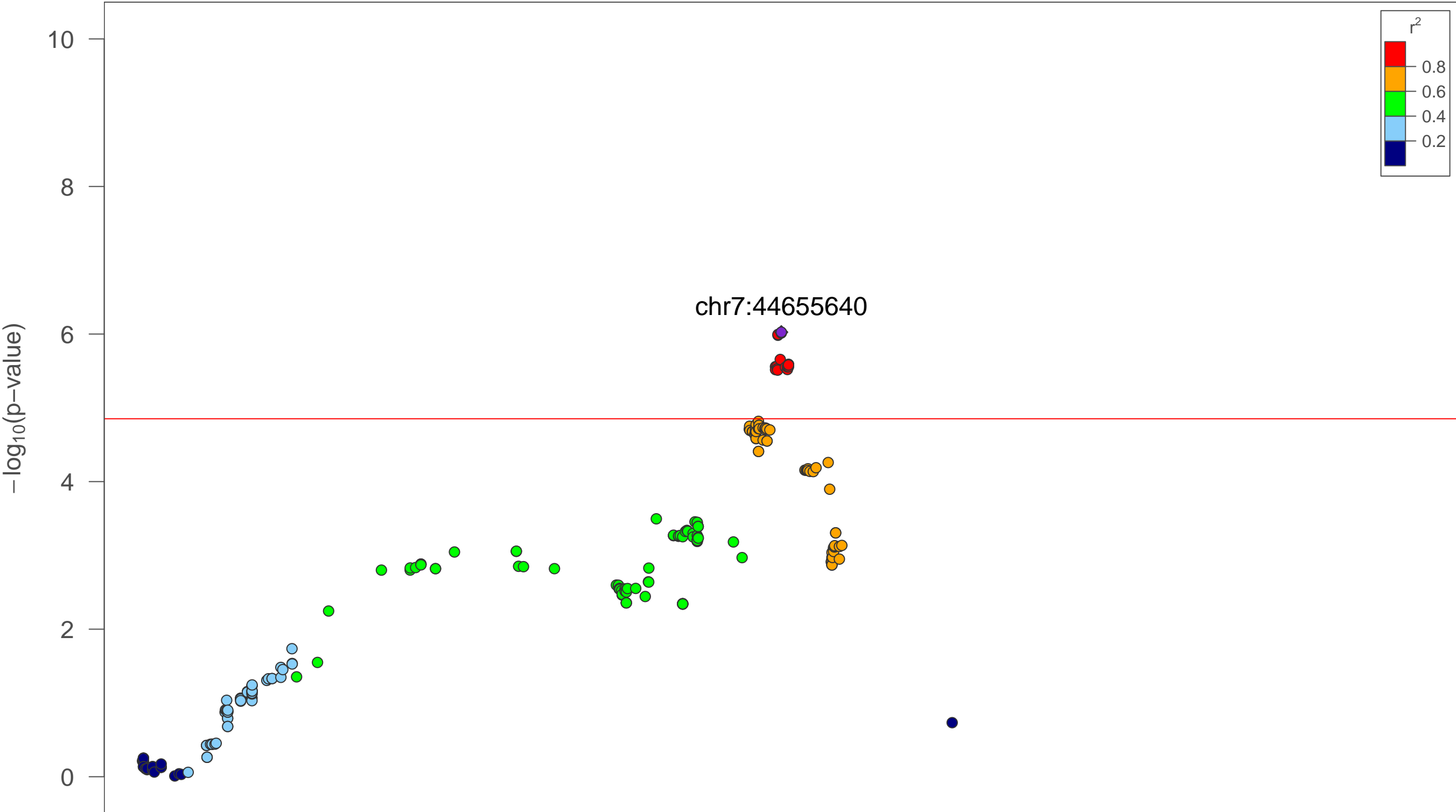
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:72009199	12	72.00920	0.009313544	Credible Set	purple
chr12:72086662	12	72.08666	0.012109109	Credible Set	purple
chr12:72086706	12	72.08671	0.010931224	Credible Set	purple
chr12:72086724	12	72.08672	0.010616944	Credible Set	purple
chr12:72086792	12	72.08679	0.007133110	Credible Set	purple
chr12:72086995	12	72.08700	0.006955550	Credible Set	purple
chr12:72087027	12	72.08703	0.006936629	Credible Set	purple
chr12:72091767	12	72.09177	0.009223625	Credible Set	purple
chr12:72316934	12	72.31693	0.022792517	Credible Set	purple
chr12:72342139	12	72.34214	0.026925751	Credible Set	purple
chr12:72342228	12	72.34223	0.020744439	Credible Set	purple
chr12:72372220	12	72.37222	0.035303028	Credible Set	purple
chr12:72389901	12	72.38990	0.035282384	Credible Set	purple
chr12:72404532	12	72.40453	0.051569904	Credible Set	purple
chr12:72430018	12	72.43002	0.028832638	Credible Set	purple
chr12:72432423	12	72.43242	0.022760314	Credible Set	purple
chr12:72503712	12	72.50371	0.017448019	Credible Set	purple
chr12:72530507	12	72.53051	0.027468994	Credible Set	purple
chr12:72531030	12	72.53103	0.019107273	Credible Set	purple
chr12:72531036	12	72.53104	0.018537023	Credible Set	purple
chr12:72534336	12	72.53434	0.032352122	Credible Set	purple
chr12:72542646	12	72.54265	0.039247508	Credible Set	purple
chr12:72542706	12	72.54271	0.034964712	Credible Set	purple
chr12:72543184	12	72.54318	0.058214784	Credible Set	purple
chr12:72543205	12	72.54321	0.055352205	Credible Set	purple
chr12:72551877	12	72.55188	0.053745692	Credible Set	purple
chr12:72582082	12	72.58208	0.050431926	Credible Set	purple
chr12:72761155	12	72.76116	0.070149570	Credible Set	purple
chr12:72803219	12	72.80322	0.058077048	Credible Set	purple
chr12:72820664	12	72.82066	0.003091247	Credible Set	purple
chr12:72948661	12	72.94866	0.006497966	Credible Set	purple
chr12:72960023	12	72.96002	0.006766562	Credible Set	purple
chr12:73012360	12	73.01236	0.006588722	Credible Set	purple
chr12:73046310	12	73.04631	0.006532534	Credible Set	purple
chr12:73088646	12	73.08865	0.006792230	Credible Set	purple
chr12:73144833	12	73.14483	0.006777596	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:73160141	12	73.16014	0.006973151	Credible Set	purple
chr12:73182054	12	73.18205	0.005897369	Credible Set	purple
chr12:73200528	12	73.20053	0.005957969	Credible Set	purple
chr12:73287081	12	73.28708	0.005871430	Credible Set	purple
chr12:73293245	12	73.29324	0.004042649	Credible Set	purple
chr12:73293285	12	73.29328	0.004179006	Credible Set	purple
chr12:73293811	12	73.29381	0.007219253	Credible Set	purple
chr12:73293812	12	73.29381	0.006934058	Credible Set	purple
chr12:73294375	12	73.29438	0.007853504	Credible Set	purple
chr12:73301700	12	73.30170	0.006913792	Credible Set	purple
chr12:73320679	12	73.32068	0.004514037	Credible Set	purple
chr12:73320695	12	73.32070	0.004514037	Credible Set	purple
chr12:73320730	12	73.32073	0.004941685	Credible Set	purple
chr12:73390527	12	73.39053	0.003172300	Credible Set	purple
chr12:73409987	12	73.40999	0.003174178	Credible Set	purple
chr12:73409994	12	73.40999	0.003175461	Credible Set	purple
chr12:73410037	12	73.41004	0.005585985	Credible Set	purple
chr12:73449146	12	73.44915	0.004169872	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin concentration mean



Credible Set

4933402C06Rik → ← Vmn2r58 ← Vmn2r62 ← Cd33 Klk1b3 → Il4i1 → Ntf5 → Nomo1 → ← Saa1 ← Mrgpra3 ← Mrgprb1 Nav2 →
← A230077H06Rik ← Vmn2r59 ← Vmn2r63 Ctu1 → ← Acpt ← Atf5 Hrc → ← Emp3 ← Tph1 ← Mrgpra2a Mrgprb8 → ← Dbx1
Vstm2b → Vmn2r60 → Gm9268 → Klk12 → Syt3 → Ifr3 → Bcat2 → Otog → Ldhc → ← Mrgpra4 ← Csrp3
4930433I11Rik → Vmn2r61 → Zfp936 → Klk6 → Lrrc4b → ← Fcgrt Ntn5 → Munc → ← Ptpn5 ← Mrgprx1 ← E2f8

197 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:06:00 2018

build: F34GBS

display range: chr7:39655640–49655640 [39655640–49655640]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44655640

number of SNPs plotted: 247

min P-value: 9.42E-7 [chr7:44655640]

max P-value: 9.76E-1 [chr7:40177351]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

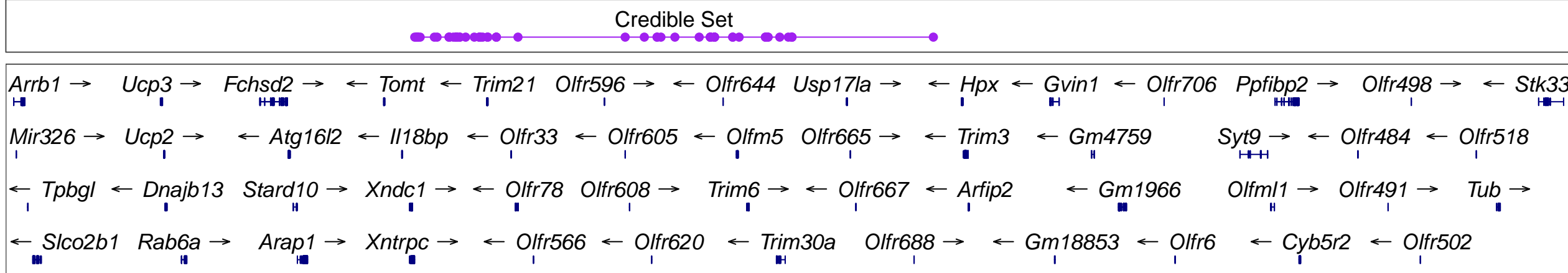
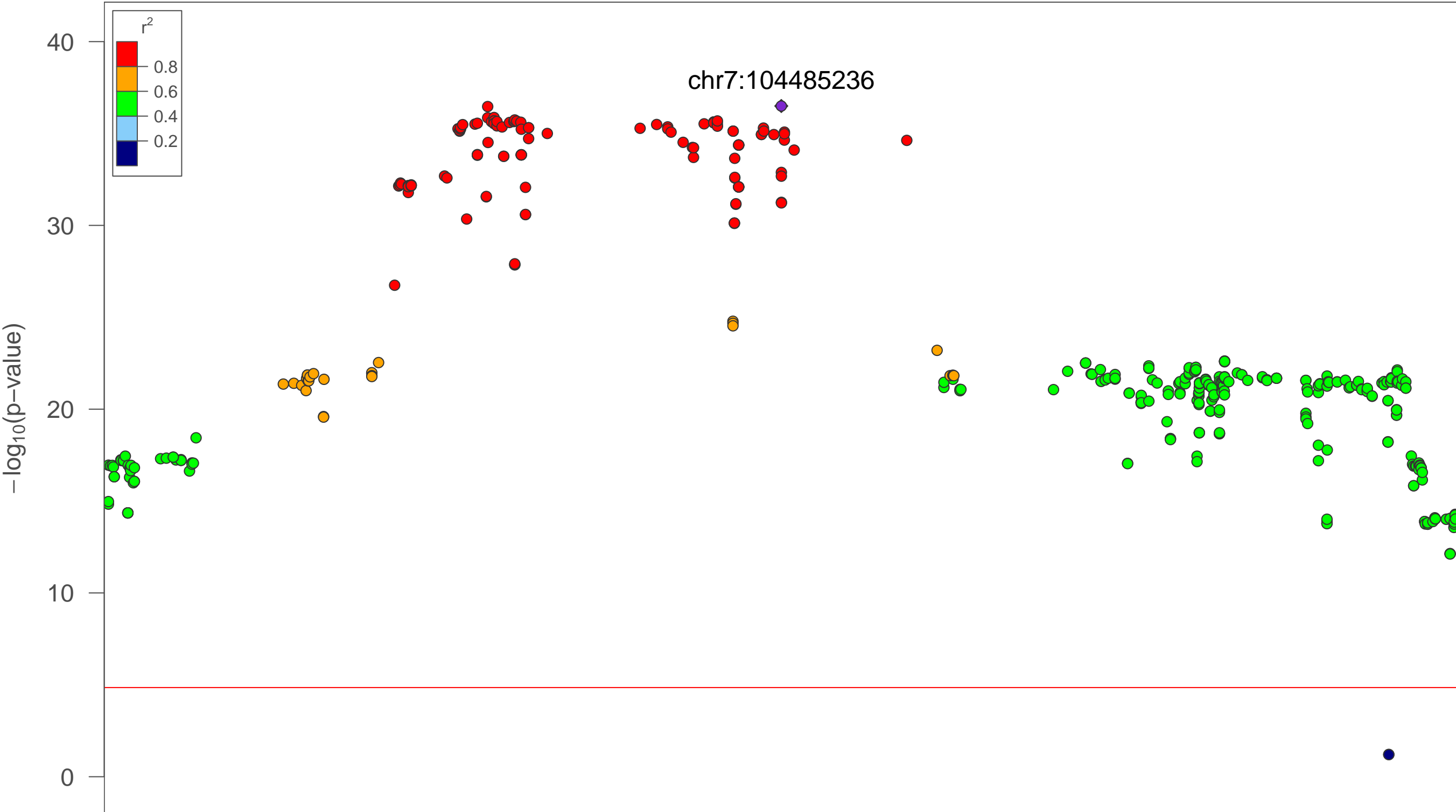
omitted Genes: Gm15545, Rpl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44612740	7	44.61274	0.04019643	Credible Set	purple
chr7:44613080	7	44.61308	0.03673297	Credible Set	purple
chr7:44623189	7	44.62319	0.04042732	Credible Set	purple
chr7:44625757	7	44.62576	0.03771995	Credible Set	purple
chr7:44628444	7	44.62844	0.03622587	Credible Set	purple
chr7:44630865	7	44.63087	0.10304051	Credible Set	purple
chr7:44630890	7	44.63089	0.10554906	Credible Set	purple
chr7:44647914	7	44.64791	0.04987531	Credible Set	purple
chr7:44655619	7	44.65562	0.11031480	Credible Set	purple
chr7:44655640	7	44.65564	0.11308659	Credible Set	purple
chr7:44685749	7	44.68575	0.03943631	Credible Set	purple
chr7:44700610	7	44.70061	0.03691384	Credible Set	purple
chr7:44700692	7	44.70069	0.04008230	Credible Set	purple
chr7:44708823	7	44.70882	0.04008230	Credible Set	purple
chr7:44708981	7	44.70898	0.04271153	Credible Set	purple
chr7:44708990	7	44.70899	0.04311534	Credible Set	purple
chr7:44708997	7	44.70900	0.04224478	Credible Set	purple
chr7:44709016	7	44.70902	0.04224478	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin concentration mean



269 genes omitted

date: Thu Oct 25 17:05:47 2018

build: F34GBS

display range: chr7:99485236–109485236 [99485236–109485236]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104485236

number of SNPs plotted: 448

min P-value: 3.19E–37 [chr7:104485236]

max P-value: 6.26E–2 [chr7:108970724]

omitted Genes: Olfr520, Olfr521, Neu3

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Chrdl2, Pold3, Lipt2

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: P4ha3, Ppme1, C2cd3

omitted Genes: Coa4, Mrpl48, Plekha1

omitted Genes: Fam168a, Relt, Arhgef17

omitted Genes: Mir3102, P2ry6, P2ry2

omitted Genes: Pde2a, Mir139, Art2a-ps

omitted Genes: Art2b, Clpb, Phox2a

omitted Genes: Inpp1, Folr2, Folr1

omitted Genes: Anapc15, Lamtor1, Lrrc51

omitted Genes: Numa1, Rnf121, Trpc2

omitted Genes: Art5, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Stim1, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr549, Olfr550, Olfr551

omitted Genes: Olfr552, Olfr553, Olfr554

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr560, Olfr561, Olfr564

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr583

omitted Genes: Olfr584, Olfr585, Olfr586

omitted Genes: Olfr589, Olfr591, Olfr592

omitted Genes: Olfr593, Olfr594, Usp17ld

omitted Genes: Olfr597, Olfr598, Olfr599

omitted Genes: Olfr600, Olfr601, Olfr603

omitted Genes: Usp17lc, Olfr606, Olfr609

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

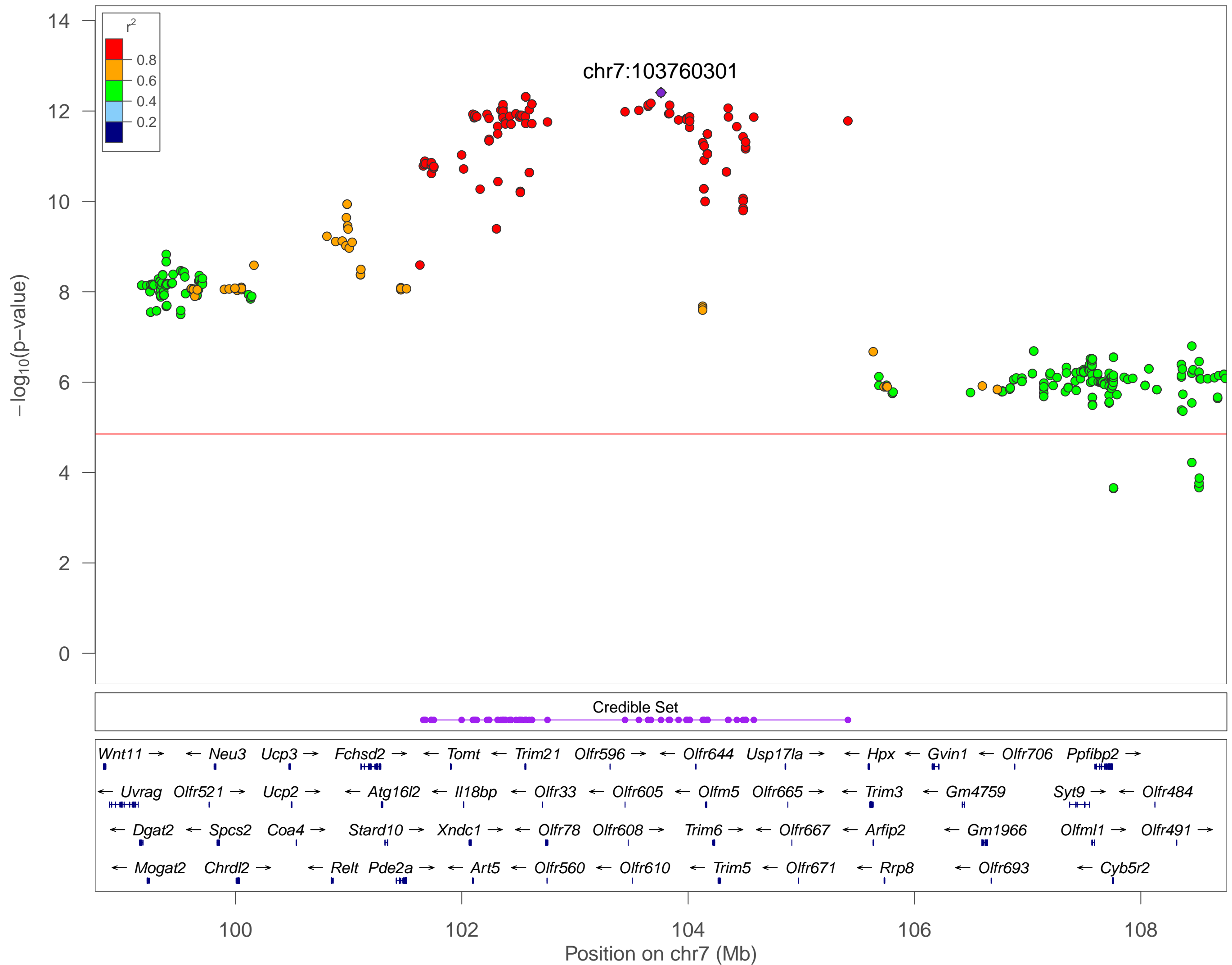
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102098054	7	102.0981	0.008086265	Credible Set	purple
chr7:102110109	7	102.1101	0.006000914	Credible Set	purple
chr7:102110501	7	102.1105	0.006483575	Credible Set	purple
chr7:102116318	7	102.1163	0.007997225	Credible Set	purple
chr7:102116430	7	102.1164	0.007997225	Credible Set	purple
chr7:102116478	7	102.1165	0.009340079	Credible Set	purple
chr7:102132562	7	102.1326	0.013561780	Credible Set	purple
chr7:102223396	7	102.2234	0.014473276	Credible Set	purple
chr7:102240695	7	102.2407	0.016062135	Credible Set	purple
chr7:102317213	7	102.3172	0.031915585	Credible Set	purple
chr7:102317246	7	102.3172	0.128817713	Credible Set	purple
chr7:102319586	7	102.3196	0.001470396	Credible Set	purple
chr7:102344970	7	102.3450	0.019659537	Credible Set	purple
chr7:102363897	7	102.3639	0.015557967	Credible Set	purple
chr7:102364204	7	102.3642	0.027955625	Credible Set	purple
chr7:102364223	7	102.3642	0.032978368	Credible Set	purple
chr7:102364315	7	102.3643	0.021621776	Credible Set	purple
chr7:102364326	7	102.3643	0.021621776	Credible Set	purple
chr7:102364411	7	102.3644	0.015597870	Credible Set	purple
chr7:102385520	7	102.3855	0.011607758	Credible Set	purple
chr7:102385536	7	102.3855	0.019966710	Credible Set	purple
chr7:102423165	7	102.4232	0.010141303	Credible Set	purple
chr7:102478469	7	102.4785	0.017703605	Credible Set	purple
chr7:102510475	7	102.5105	0.019860576	Credible Set	purple
chr7:102510607	7	102.5106	0.021177480	Credible Set	purple
chr7:102516878	7	102.5169	0.024302819	Credible Set	purple
chr7:102531652	7	102.5317	0.021019403	Credible Set	purple
chr7:102561708	7	102.5617	0.018269972	Credible Set	purple
chr7:102565410	7	102.5654	0.007652250	Credible Set	purple
chr7:102619418	7	102.6194	0.009260030	Credible Set	purple
chr7:102619431	7	102.6194	0.009201823	Credible Set	purple
chr7:102619466	7	102.6195	0.002380883	Credible Set	purple
chr7:102757499	7	102.7575	0.004519018	Credible Set	purple
chr7:103442570	7	103.4426	0.008593713	Credible Set	purple
chr7:103564836	7	103.5648	0.013800293	Credible Set	purple
chr7:103646439	7	103.6464	0.010268750	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103646709	7	103.6467	0.007973212	Credible Set	purple
chr7:103671033	7	103.6710	0.005323470	Credible Set	purple
chr7:103760301	7	103.7603	0.001495665	Credible Set	purple
chr7:103915503	7	103.9155	0.015003463	Credible Set	purple
chr7:103986792	7	103.9868	0.018843635	Credible Set	purple
chr7:103986795	7	103.9868	0.018843635	Credible Set	purple
chr7:103986857	7	103.9869	0.017031546	Credible Set	purple
chr7:103986860	7	103.9869	0.017031546	Credible Set	purple
chr7:104012808	7	104.0128	0.016708489	Credible Set	purple
chr7:104013370	7	104.0134	0.011923804	Credible Set	purple
chr7:104013395	7	104.0134	0.011183186	Credible Set	purple
chr7:104013467	7	104.0135	0.021486394	Credible Set	purple
chr7:104129734	7	104.1297	0.006038278	Credible Set	purple
chr7:104129736	7	104.1297	0.006038278	Credible Set	purple
chr7:104170618	7	104.1706	0.001081113	Credible Set	purple
chr7:104338784	7	104.3388	0.004006456	Credible Set	purple
chr7:104338810	7	104.3388	0.003972653	Credible Set	purple
chr7:104353491	7	104.3535	0.008827808	Credible Set	purple
chr7:104356230	7	104.3562	0.006046661	Credible Set	purple
chr7:104430205	7	104.4302	0.003941042	Credible Set	purple
chr7:104485236	7	104.4852	0.137614778	Credible Set	purple
chr7:104507724	7	104.5077	0.001975080	Credible Set	purple
chr7:104508127	7	104.5081	0.005362379	Credible Set	purple
chr7:104508173	7	104.5082	0.004347901	Credible Set	purple
chr7:105411752	7	105.4118	0.001912813	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:06:40 2018

build: F34GBS

display range: chr7:98760301–108760301 [98760301–108760301]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:103760301

number of SNPs plotted: 417

min P-value: 3.92E–13 [chr7:103760301]

max P-value: 2.25E–4 [chr7:107758350]

omitted Genes: Gm26705, Map6, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Arrb1

omitted Genes: Mir326, Tpbgl, Slco2b1

omitted Genes: Olfr520, Xrra1, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, P4ha3

omitted Genes: Ppme1, C2cd3, Dnajb13

omitted Genes: Mrpl48, Rab6a, Plekhhb1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, P2ry2, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Clpb, Phox2a, Inpp1

omitted Genes: Folr2, Folr1, Anapc15

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Rnf121, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Stim1

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

omitted Genes: Olfr569, Olfr570, Olfr571

omitted Genes: Olfr572, Olfr574, Olfr575

omitted Genes: Olfr576, Olfr577, Olfr578

omitted Genes: Olfr582, Olfr583, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

omitted Genes: Olfr594, Ucp17ld, Olfr597

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.0009929434	Credible Set	purple
chr7:101669186	7	101.6692	0.0010713666	Credible Set	purple
chr7:101673483	7	101.6735	0.0012617061	Credible Set	purple
chr7:101680140	7	101.6801	0.0011142265	Credible Set	purple
chr7:101731061	7	101.7311	0.0010041356	Credible Set	purple
chr7:101731110	7	101.7311	0.0010118919	Credible Set	purple
chr7:101731130	7	101.7311	0.0011696765	Credible Set	purple
chr7:101752971	7	101.7530	0.0009629975	Credible Set	purple
chr7:101998679	7	101.9987	0.0017175575	Credible Set	purple
chr7:102098054	7	102.0981	0.0131280765	Credible Set	purple
chr7:102110109	7	102.1101	0.0109895379	Credible Set	purple
chr7:102110501	7	102.1105	0.0112663096	Credible Set	purple
chr7:102116318	7	102.1163	0.0120776507	Credible Set	purple
chr7:102116430	7	102.1164	0.0120776507	Credible Set	purple
chr7:102116478	7	102.1165	0.0125998291	Credible Set	purple
chr7:102132562	7	102.1326	0.0116375091	Credible Set	purple
chr7:102223396	7	102.2234	0.0130936504	Credible Set	purple
chr7:102240695	7	102.2407	0.0106787116	Credible Set	purple
chr7:102241191	7	102.2412	0.0037464787	Credible Set	purple
chr7:102241211	7	102.2412	0.0034665230	Credible Set	purple
chr7:102241212	7	102.2412	0.0034817014	Credible Set	purple
chr7:102317213	7	102.3172	0.0071701726	Credible Set	purple
chr7:102317246	7	102.3172	0.0049213778	Credible Set	purple
chr7:102344970	7	102.3450	0.0161887131	Credible Set	purple
chr7:102363897	7	102.3639	0.0120464049	Credible Set	purple
chr7:102364204	7	102.3642	0.0177104280	Credible Set	purple
chr7:102364223	7	102.3642	0.0212434342	Credible Set	purple
chr7:102364315	7	102.3643	0.0152663070	Credible Set	purple
chr7:102364326	7	102.3643	0.0152663070	Credible Set	purple
chr7:102364411	7	102.3644	0.0109717078	Credible Set	purple
chr7:102385520	7	102.3855	0.0089801886	Credible Set	purple
chr7:102385536	7	102.3855	0.0080702215	Credible Set	purple
chr7:102423165	7	102.4232	0.0119005748	Credible Set	purple
chr7:102435692	7	102.4357	0.0080011307	Credible Set	purple
chr7:102435720	7	102.4357	0.0080011307	Credible Set	purple
chr7:102478469	7	102.4785	0.0134630192	Credible Set	purple

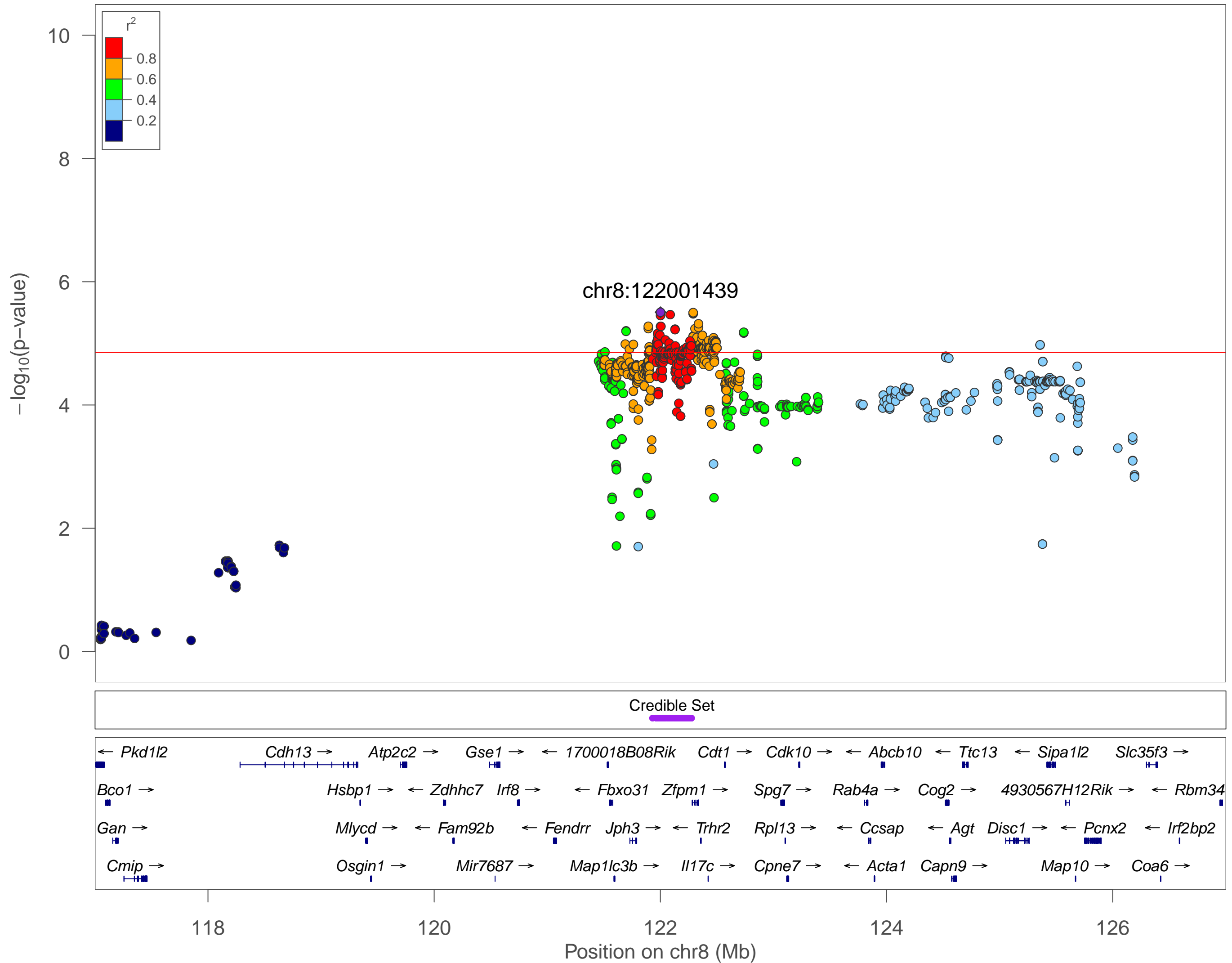
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102510475	7	102.5105	0.011760647	Credible Set	purple
chr7:102510607	7	102.5106	0.011380137	Credible Set	purple
chr7:102516878	7	102.5169	0.012505242	Credible Set	purple
chr7:102531652	7	102.5317	0.012456754	Credible Set	purple
chr7:102561708	7	102.5617	0.011694669	Credible Set	purple
chr7:102565262	7	102.5653	0.031327334	Credible Set	purple
chr7:102565292	7	102.5653	0.031346426	Credible Set	purple
chr7:102565307	7	102.5653	0.031369672	Credible Set	purple
chr7:102565323	7	102.5653	0.031388803	Credible Set	purple
chr7:102565329	7	102.5653	0.031388803	Credible Set	purple
chr7:102565410	7	102.5654	0.008295208	Credible Set	purple
chr7:102596442	7	102.5964	0.016460981	Credible Set	purple
chr7:102619418	7	102.6194	0.021930790	Credible Set	purple
chr7:102619431	7	102.6194	0.021874623	Credible Set	purple
chr7:102619466	7	102.6195	0.008212079	Credible Set	purple
chr7:102757499	7	102.7575	0.008925640	Credible Set	purple
chr7:103442570	7	103.4426	0.014881387	Credible Set	purple
chr7:103564836	7	103.5648	0.015953655	Credible Set	purple
chr7:103646439	7	103.6464	0.019486914	Credible Set	purple
chr7:103646709	7	103.6467	0.020896343	Credible Set	purple
chr7:103671033	7	103.6710	0.022759804	Credible Set	purple
chr7:103760301	7	103.7603	0.038647383	Credible Set	purple
chr7:103829200	7	103.8292	0.013434031	Credible Set	purple
chr7:103837099	7	103.8371	0.020615481	Credible Set	purple
chr7:103837213	7	103.8372	0.013790586	Credible Set	purple
chr7:103915503	7	103.9155	0.009890892	Credible Set	purple
chr7:103986792	7	103.9868	0.010600819	Credible Set	purple
chr7:103986795	7	103.9868	0.010600819	Credible Set	purple
chr7:103986857	7	103.9869	0.010024565	Credible Set	purple
chr7:103986860	7	103.9869	0.010024565	Credible Set	purple
chr7:104012808	7	104.0128	0.006829287	Credible Set	purple
chr7:104013370	7	104.0134	0.009540389	Credible Set	purple
chr7:104013395	7	104.0134	0.011583584	Credible Set	purple
chr7:104013467	7	104.0135	0.009304569	Credible Set	purple
chr7:104129734	7	104.1297	0.003174973	Credible Set	purple
chr7:104129736	7	104.1297	0.003174973	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104141343	7	104.1413	0.001317245	Credible Set	purple
chr7:104141705	7	104.1417	0.002670671	Credible Set	purple
chr7:104141768	7	104.1418	0.002679300	Credible Set	purple
chr7:104170479	7	104.1705	0.001806270	Credible Set	purple
chr7:104170506	7	104.1705	0.001812380	Credible Set	purple
chr7:104170518	7	104.1705	0.001828490	Credible Set	purple
chr7:104170522	7	104.1705	0.001814914	Credible Set	purple
chr7:104170543	7	104.1705	0.001793815	Credible Set	purple
chr7:104170588	7	104.1706	0.004880965	Credible Set	purple
chr7:104170594	7	104.1706	0.004862902	Credible Set	purple
chr7:104170618	7	104.1706	0.004913876	Credible Set	purple
chr7:104170662	7	104.1707	0.004913876	Credible Set	purple
chr7:104353491	7	104.3535	0.017811187	Credible Set	purple
chr7:104356230	7	104.3562	0.011465954	Credible Set	purple
chr7:104430205	7	104.4302	0.007067539	Credible Set	purple
chr7:104485236	7	104.4852	0.004261719	Credible Set	purple
chr7:104507724	7	104.5077	0.002328720	Credible Set	purple
chr7:104508127	7	104.5081	0.002551765	Credible Set	purple
chr7:104508173	7	104.5082	0.003282108	Credible Set	purple
chr7:104580091	7	104.5801	0.011377779	Credible Set	purple
chr7:105411752	7	105.4118	0.009416495	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:06:54 2018

build: F34GBS

display range: chr8:117001439–127001439 [117001439–127001439]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:122001439

number of SNPs plotted: 886

min P-value: 3.12E–6 [chr8:122001439]

max P-value: 6.6E–1 [chr8:117850640]

omitted Genes: Mir7077, Mir7078, Plcg2

omitted Genes: Sdr42e1, Gm38416, Hsd17b2

omitted Genes: Mphosph6, Necab2, Slc38a8

omitted Genes: Mbtps1, Hsd11, Dnaaf1

omitted Genes: Taf1c, Adad2, Kcng4

omitted Genes: Wfdc1, Tldc1, Cotl1

omitted Genes: Klhl36, Usp10, Crisp1d2

omitted Genes: 6430548M08Rik, A330074K22Rik, Gins2

omitted Genes: Emc8–1190005i06rik, 1190005i06Rik, Emc8

omitted Genes: Cox4i1, Foxf1, Mthfsd

omitted Genes: Foxc2, Foxl1, 1700030M09Rik

omitted Genes: Zcchc14, Klhdc4, Slc7a5

omitted Genes: BC048644, Car5a, Banp

omitted Genes: Mir7237, Zc3h18, Cyba

omitted Genes: Mvd, 9330133O14Rik, Gm20735

omitted Genes: Snai3, Rnf166, Ctub2

omitted Genes: Piezo1, Appt, Galns

omitted Genes: Trappc2l, Pabpn1l, Mir6396

omitted Genes: Cbfa2t3, Acsf3, Cdh15

omitted Genes: Ankrd11, 2810013P06Rik, Snord68

omitted Genes: Mir7079, Mir7080, Sult5a1

omitted Genes: Dpep1, Chmp1a, Spata33

omitted Genes: Spata2l, 4933417D19Rik, Vps9d1

omitted Genes: Zfp276, Fanca, Spire2

omitted Genes: Tcf25, Mc1r, Tubb3

omitted Genes: Def8, Afg3l1, Dbn1d1

omitted Genes: Gas8, n–R5s100, n–R5s103

omitted Genes: n–R5s104, n–R5s105, n–R5s108

omitted Genes: n–R5s110, n–R5s111, n–R5s113

omitted Genes: Gm25018, n–R5s117, n–R5s121

omitted Genes: n–R5s122, n–R5s123, n–R5s124

omitted Genes: n–R5s128, Gm26391, n–R5s133

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:121930880	8	121.9309	0.004949384	Credible Set	purple
chr8:121930977	8	121.9310	0.004884971	Credible Set	purple
chr8:121960554	8	121.9606	0.006118467	Credible Set	purple
chr8:121961919	8	121.9619	0.006741756	Credible Set	purple
chr8:121966290	8	121.9663	0.007481209	Credible Set	purple
chr8:121966311	8	121.9663	0.002658600	Credible Set	purple
chr8:121966312	8	121.9663	0.002684870	Credible Set	purple
chr8:121966322	8	121.9663	0.002636304	Credible Set	purple
chr8:121966639	8	121.9666	0.004326518	Credible Set	purple
chr8:121966705	8	121.9667	0.008656549	Credible Set	purple
chr8:121966756	8	121.9668	0.008911267	Credible Set	purple
chr8:121966990	8	121.9670	0.007370962	Credible Set	purple
chr8:121966991	8	121.9670	0.006903072	Credible Set	purple
chr8:121966992	8	121.9670	0.006856297	Credible Set	purple
chr8:121974244	8	121.9742	0.008208380	Credible Set	purple
chr8:121974249	8	121.9742	0.008226306	Credible Set	purple
chr8:121974305	8	121.9743	0.008161931	Credible Set	purple
chr8:121974325	8	121.9743	0.008179746	Credible Set	purple
chr8:121976235	8	121.9762	0.010063614	Credible Set	purple
chr8:121976517	8	121.9765	0.012085593	Credible Set	purple
chr8:121976521	8	121.9765	0.012129693	Credible Set	purple
chr8:121981546	8	121.9815	0.008211202	Credible Set	purple
chr8:121995055	8	121.9951	0.004449220	Credible Set	purple
chr8:121995078	8	121.9951	0.004578666	Credible Set	purple
chr8:121995079	8	121.9951	0.004883014	Credible Set	purple
chr8:121995687	8	121.9957	0.011467249	Credible Set	purple
chr8:122001362	8	122.0014	0.015662249	Credible Set	purple
chr8:122001439	8	122.0014	0.025989359	Credible Set	purple
chr8:122001442	8	122.0014	0.023059665	Credible Set	purple
chr8:122001818	8	122.0018	0.005741075	Credible Set	purple
chr8:122001981	8	122.0020	0.006054676	Credible Set	purple
chr8:122002025	8	122.0020	0.003179842	Credible Set	purple
chr8:122002067	8	122.0021	0.003179842	Credible Set	purple
chr8:122002101	8	122.0021	0.003179842	Credible Set	purple
chr8:122002127	8	122.0021	0.006030626	Credible Set	purple
chr8:122002218	8	122.0022	0.006030626	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:122003523	8	122.0035	0.006279445	Credible Set	purple
chr8:122003541	8	122.0035	0.006449517	Credible Set	purple
chr8:122003853	8	122.0039	0.005918232	Credible Set	purple
chr8:122003945	8	122.0039	0.006484190	Credible Set	purple
chr8:122005311	8	122.0053	0.005339823	Credible Set	purple
chr8:122005336	8	122.0053	0.005339823	Credible Set	purple
chr8:122005348	8	122.0053	0.015674070	Credible Set	purple
chr8:122010526	8	122.0105	0.006030626	Credible Set	purple
chr8:122015785	8	122.0158	0.005369289	Credible Set	purple
chr8:122015943	8	122.0159	0.002622184	Credible Set	purple
chr8:122015966	8	122.0160	0.002472665	Credible Set	purple
chr8:122018214	8	122.0182	0.005907470	Credible Set	purple
chr8:122018241	8	122.0182	0.005545572	Credible Set	purple
chr8:122018758	8	122.0188	0.003254292	Credible Set	purple
chr8:122020302	8	122.0203	0.005191434	Credible Set	purple
chr8:122023460	8	122.0235	0.006425334	Credible Set	purple
chr8:122024035	8	122.0240	0.004310108	Credible Set	purple
chr8:122026904	8	122.0269	0.005462509	Credible Set	purple
chr8:122031170	8	122.0312	0.004907366	Credible Set	purple
chr8:122032377	8	122.0324	0.005793253	Credible Set	purple
chr8:122032681	8	122.0327	0.005848699	Credible Set	purple
chr8:122035610	8	122.0356	0.005222523	Credible Set	purple
chr8:122035650	8	122.0357	0.005191240	Credible Set	purple
chr8:122035881	8	122.0359	0.005787015	Credible Set	purple
chr8:122036007	8	122.0360	0.005672751	Credible Set	purple
chr8:122036452	8	122.0365	0.006023736	Credible Set	purple
chr8:122045025	8	122.0450	0.009645882	Credible Set	purple
chr8:122045040	8	122.0450	0.006332939	Credible Set	purple
chr8:122065233	8	122.0652	0.005731392	Credible Set	purple
chr8:122065534	8	122.0655	0.005767254	Credible Set	purple
chr8:122065719	8	122.0657	0.005978678	Credible Set	purple
chr8:122074319	8	122.0743	0.005785234	Credible Set	purple
chr8:122074380	8	122.0744	0.005804973	Credible Set	purple
chr8:122074409	8	122.0744	0.005804973	Credible Set	purple
chr8:122075721	8	122.0757	0.007299219	Credible Set	purple
chr8:122077089	8	122.0771	0.005975461	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:122077746	8	122.0777	0.005863109	Credible Set	purple
chr8:122078705	8	122.0787	0.007793853	Credible Set	purple
chr8:122078711	8	122.0787	0.008626213	Credible Set	purple
chr8:122087021	8	122.0870	0.006740003	Credible Set	purple
chr8:122087024	8	122.0870	0.006992745	Credible Set	purple
chr8:122087068	8	122.0871	0.023857465	Credible Set	purple
chr8:122087488	8	122.0875	0.006142591	Credible Set	purple
chr8:122097829	8	122.0978	0.004729330	Credible Set	purple
chr8:122097864	8	122.0979	0.004718729	Credible Set	purple
chr8:122097914	8	122.0979	0.004718729	Credible Set	purple
chr8:122098026	8	122.0980	0.005968375	Credible Set	purple
chr8:122098264	8	122.0983	0.006030626	Credible Set	purple
chr8:122098555	8	122.0986	0.006134521	Credible Set	purple
chr8:122099136	8	122.0991	0.005595918	Credible Set	purple
chr8:122099269	8	122.0993	0.006116376	Credible Set	purple
chr8:122099407	8	122.0994	0.005954153	Credible Set	purple
chr8:122119850	8	122.1198	0.006174390	Credible Set	purple
chr8:122126372	8	122.1264	0.005781633	Credible Set	purple
chr8:122126643	8	122.1266	0.005675720	Credible Set	purple
chr8:122126657	8	122.1267	0.005643272	Credible Set	purple
chr8:122126675	8	122.1267	0.005655547	Credible Set	purple
chr8:122129779	8	122.1298	0.014201591	Credible Set	purple
chr8:122129781	8	122.1298	0.013935105	Credible Set	purple
chr8:122132490	8	122.1325	0.007783198	Credible Set	purple
chr8:122132563	8	122.1326	0.003411458	Credible Set	purple
chr8:122132629	8	122.1326	0.003026721	Credible Set	purple
chr8:122132657	8	122.1327	0.003039609	Credible Set	purple
chr8:122132660	8	122.1327	0.002988825	Credible Set	purple
chr8:122132700	8	122.1327	0.002998279	Credible Set	purple
chr8:122140064	8	122.1401	0.002430579	Credible Set	purple
chr8:122140617	8	122.1406	0.004967122	Credible Set	purple
chr8:122140668	8	122.1407	0.003327326	Credible Set	purple
chr8:122143194	8	122.1432	0.004096054	Credible Set	purple
chr8:122143198	8	122.1432	0.003989126	Credible Set	purple
chr8:122143647	8	122.1436	0.006227860	Credible Set	purple
chr8:122161138	8	122.1611	0.004311153	Credible Set	purple

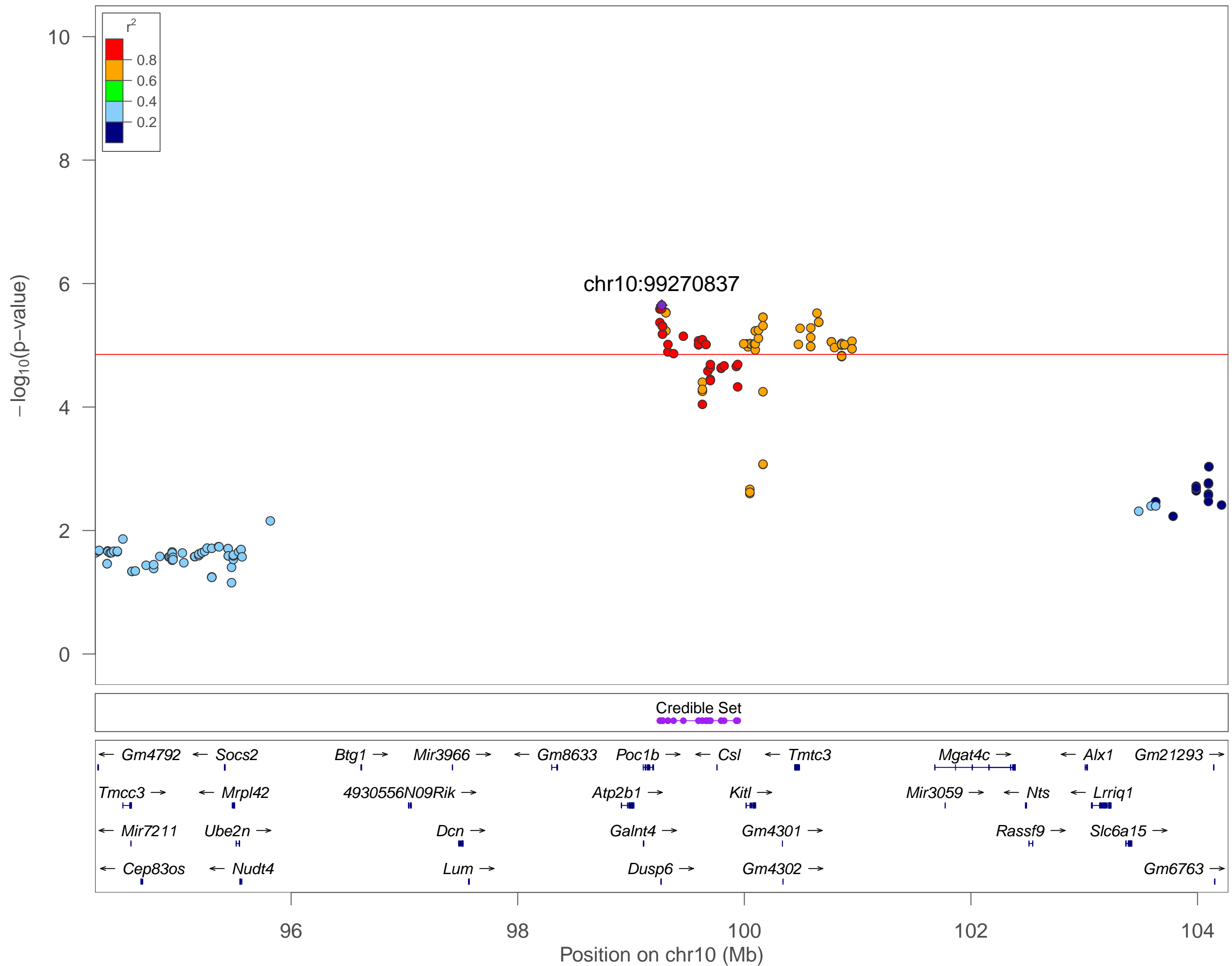
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:122161157	8	122.1612	0.005598723	Credible Set	purple
chr8:122161598	8	122.1616	0.002221463	Credible Set	purple
chr8:122161622	8	122.1616	0.002230187	Credible Set	purple
chr8:122161625	8	122.1616	0.002206512	Credible Set	purple
chr8:122161665	8	122.1617	0.006208114	Credible Set	purple
chr8:122161683	8	122.1617	0.006208114	Credible Set	purple
chr8:122161737	8	122.1617	0.006208114	Credible Set	purple
chr8:122163079	8	122.1631	0.003866526	Credible Set	purple
chr8:122163130	8	122.1631	0.002933719	Credible Set	purple
chr8:122178957	8	122.1790	0.004595634	Credible Set	purple
chr8:122179254	8	122.1793	0.002057829	Credible Set	purple
chr8:122179449	8	122.1794	0.005394876	Credible Set	purple
chr8:122179473	8	122.1795	0.005412446	Credible Set	purple
chr8:122185374	8	122.1854	0.002147277	Credible Set	purple
chr8:122185458	8	122.1855	0.005866642	Credible Set	purple
chr8:122186770	8	122.1868	0.005470198	Credible Set	purple
chr8:122186780	8	122.1868	0.005649025	Credible Set	purple
chr8:122192954	8	122.1930	0.005758913	Credible Set	purple
chr8:122193526	8	122.1935	0.005802336	Credible Set	purple
chr8:122193537	8	122.1935	0.005826553	Credible Set	purple
chr8:122197166	8	122.1972	0.005812274	Credible Set	purple
chr8:122197187	8	122.1972	0.006483091	Credible Set	purple
chr8:122210438	8	122.2104	0.006972384	Credible Set	purple
chr8:122211178	8	122.2112	0.006122677	Credible Set	purple
chr8:122222775	8	122.2228	0.006030626	Credible Set	purple
chr8:122223010	8	122.2230	0.003135265	Credible Set	purple
chr8:122223079	8	122.2231	0.003072647	Credible Set	purple
chr8:122224941	8	122.2249	0.006214862	Credible Set	purple
chr8:122233190	8	122.2332	0.007433642	Credible Set	purple
chr8:122235012	8	122.2350	0.006592882	Credible Set	purple
chr8:122235350	8	122.2353	0.002366069	Credible Set	purple
chr8:122235368	8	122.2354	0.002348658	Credible Set	purple
chr8:122235394	8	122.2354	0.002400298	Credible Set	purple
chr8:122236097	8	122.2361	0.004212245	Credible Set	purple
chr8:122237812	8	122.2378	0.006386226	Credible Set	purple
chr8:122237817	8	122.2378	0.006368699	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:122240202	8	122.2402	0.006331737	Credible Set	purple
chr8:122240296	8	122.2403	0.005980477	Credible Set	purple
chr8:122246861	8	122.2469	0.006659267	Credible Set	purple
chr8:122259808	8	122.2598	0.007559009	Credible Set	purple
chr8:122262163	8	122.2622	0.009314276	Credible Set	purple
chr8:122262214	8	122.2622	0.007610542	Credible Set	purple
chr8:122262948	8	122.2629	0.005477178	Credible Set	purple
chr8:122265327	8	122.2653	0.007413144	Credible Set	purple
chr8:122265814	8	122.2658	0.006834875	Credible Set	purple
chr8:122265865	8	122.2659	0.006839467	Credible Set	purple
chr8:122271333	8	122.2713	0.007855758	Credible Set	purple
chr8:122273143	8	122.2731	0.007807822	Credible Set	purple
chr8:122273765	8	122.2738	0.003506738	Credible Set	purple
chr8:122274216	8	122.2742	0.003266308	Credible Set	purple
chr8:122275678	8	122.2757	0.003175994	Credible Set	purple
chr8:122275695	8	122.2757	0.003198128	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:06:08 2018

build: F34GBS

display range: chr10:94270837–104270837 [94270837–104270837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:99270837

number of SNPs plotted: 184

min P-value: 2.24E–6 [chr10:99270837]

max P-value: 7E–2 [chr10:95474045]

omitted Genes: Cep83, Plxnc1, Gm29684

omitted Genes: Cradd, 2310039L15Rik, 5730420D15Rik

omitted Genes: Mir3058, Eea1, 4930459C07Rik

omitted Genes: 4930473O22Rik, Kera, Epyc

omitted Genes: Gm10754, Ccer1, 4930525C09Rik

omitted Genes: Gm20110, Gm18409, Gm4303

omitted Genes: Gm4305, Gm4307, Gm4312

omitted Genes: Cep290, 4930430F08Rik, 1700017N19Rik

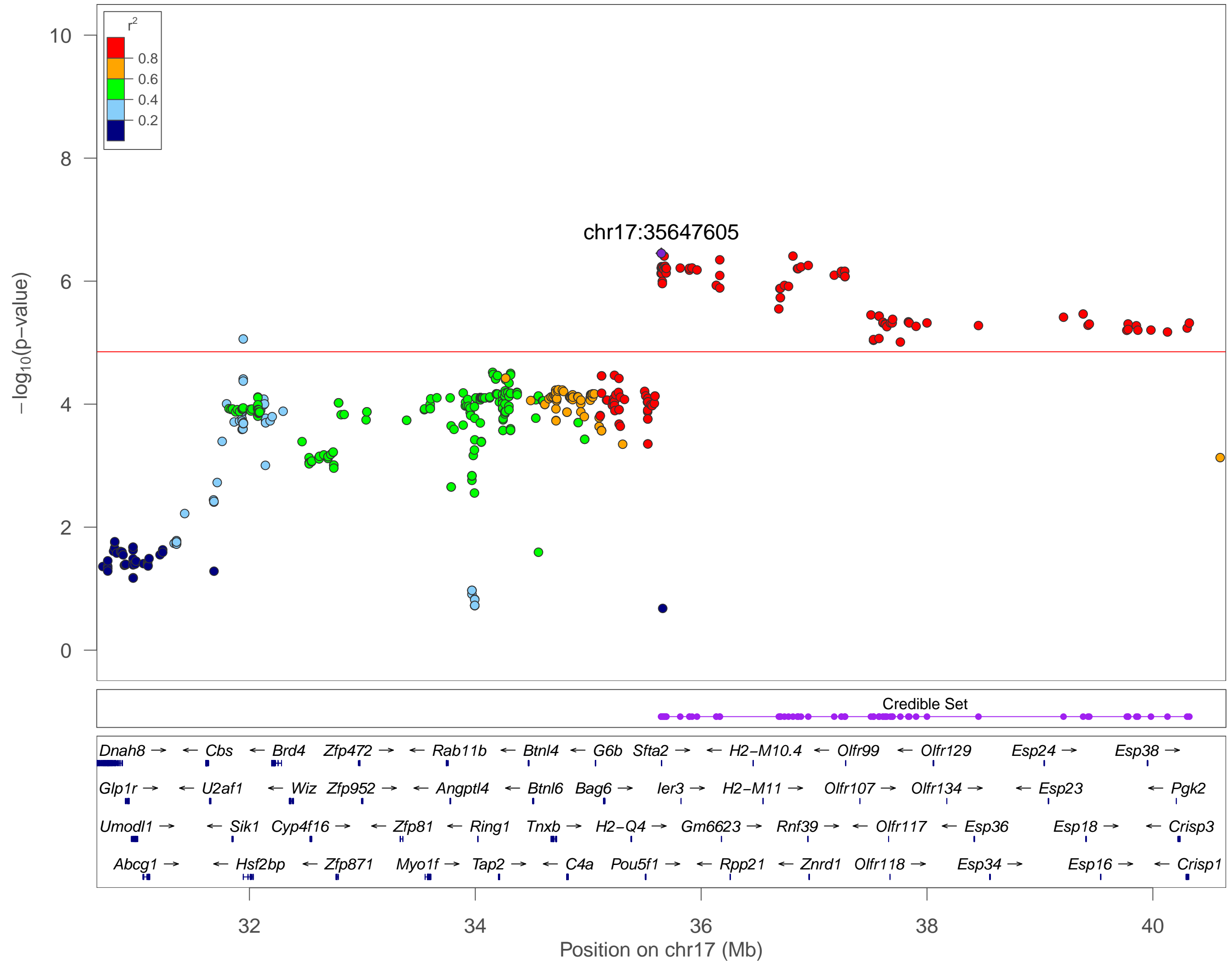
omitted Genes: Gm8764, Gm21304, Gm21312

omitted Genes: Gm20765, Gm4340

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:99254791	10	99.25479	0.065606388	Credible Set	purple
chr10:99254830	10	99.25483	0.049790182	Credible Set	purple
chr10:99263835	10	99.26384	0.096825995	Credible Set	purple
chr10:99263868	10	99.26387	0.096825995	Credible Set	purple
chr10:99270417	10	99.27042	0.065606388	Credible Set	purple
chr10:99270837	10	99.27084	0.096825995	Credible Set	purple
chr10:99277813	10	99.27781	0.029137103	Credible Set	purple
chr10:99277816	10	99.27782	0.029137103	Credible Set	purple
chr10:99277972	10	99.27797	0.040206862	Credible Set	purple
chr10:99277973	10	99.27797	0.040206862	Credible Set	purple
chr10:99278026	10	99.27803	0.040206862	Credible Set	purple
chr10:99325139	10	99.32514	0.016129540	Credible Set	purple
chr10:99325722	10	99.32572	0.020720109	Credible Set	purple
chr10:99375519	10	99.37552	0.015028662	Credible Set	purple
chr10:99461777	10	99.46178	0.029137103	Credible Set	purple
chr10:99596119	10	99.59612	0.020720109	Credible Set	purple
chr10:99596142	10	99.59614	0.025644468	Credible Set	purple
chr10:99596164	10	99.59616	0.022914216	Credible Set	purple
chr10:99629121	10	99.62912	0.025644468	Credible Set	purple
chr10:99629701	10	99.62970	0.025644468	Credible Set	purple
chr10:99661770	10	99.66177	0.020720109	Credible Set	purple
chr10:99661829	10	99.66183	0.020720109	Credible Set	purple
chr10:99678204	10	99.67820	0.008334112	Credible Set	purple
chr10:99699271	10	99.69927	0.009365149	Credible Set	purple
chr10:99699649	10	99.69965	0.006117200	Credible Set	purple
chr10:99699681	10	99.69968	0.005960117	Credible Set	purple
chr10:99700646	10	99.70065	0.010697830	Credible Set	purple
chr10:99795502	10	99.79550	0.008993465	Credible Set	purple
chr10:99795653	10	99.79565	0.009365149	Credible Set	purple
chr10:99821621	10	99.82162	0.010212225	Credible Set	purple
chr10:99929872	10	99.92987	0.009769853	Credible Set	purple
chr10:99930010	10	99.93001	0.009769853	Credible Set	purple
chr10:99941475	10	99.94147	0.010697830	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:06:23 2018

build: F34GBS

display range: chr17:30647605–40647605 [30647605–40647605]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:35647605

number of SNPs plotted: 518

min P-value: 3.52E–7 [chr17:35647605]

max P-value: 2.09E–1 [chr17:35659711]

omitted Genes: Tff3, Tff2, LOC102631757

omitted Genes: Tff1, Tmprss3, Ubash3a

omitted Genes: Rsph1, Slc37a1, Pde9a

omitted Genes: Wdr4, Ndufv3, Pknox1

omitted Genes: Cryaa, Rrp1b, Pdxk-ps

omitted Genes: Notch3, Ephx3, Gm4432

omitted Genes: Akap8, Akap8l, Rasal3

omitted Genes: A530088E08Rik, Pglyrp2, Cyp4f39

omitted Genes: Cyp4f17, Cyp4f37, Cyp4f40

omitted Genes: Cyp4f15, Zfp811, Zfp799

omitted Genes: Zfp870, Cyp4f14, Cyp4f13

omitted Genes: Cyp4f41-ps, Zfp763, 4921501E09Rik

omitted Genes: Zfp563, Morc2b, Olfr55

omitted Genes: Olfr239, Gm4461, Zfp955a

omitted Genes: Olfr63, Zfp955b, Zfp101

omitted Genes: Actl9, Adamts10, Zfp414

omitted Genes: Pram1, Hnrnpm, March2

omitted Genes: Kank3, Rps28, Ndufa7

omitted Genes: Cd320, Kifc1, Gm27740

omitted Genes: Platr17, BC051226, Daxx

omitted Genes: Zbtb22, Tapbp, Rgl2

omitted Genes: Pfdn6, Wdr46, B3galt4

omitted Genes: Rps18, Vps52, H2-K2

omitted Genes: AA388235, H2-K1, Mir219a-1

omitted Genes: Mir219c, H2-Ke6, Slc39a7

omitted Genes: Rxrb, Col11a2, BC051537

omitted Genes: H2-Oa, Brd2, H2-DMa

omitted Genes: H2-DMb2, H2-DMb1, Psmb9

omitted Genes: Tap1, Psmb8, H2-Ob

omitted Genes: H2-Ab1, H2-Aa, H2-Eb1

omitted Genes: H2-Eb2, Btln2, Btln1, Btln4

omitted Genes: BC051143, Btln5, ps, Notch4

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:35645542	17	35.64554	0.015959227	Credible Set	purple
chr17:35647446	17	35.64745	0.019403871	Credible Set	purple
chr17:35647569	17	35.64757	0.019403871	Credible Set	purple
chr17:35647605	17	35.64760	0.032938940	Credible Set	purple
chr17:35647647	17	35.64765	0.032864243	Credible Set	purple
chr17:35649675	17	35.64968	0.020347768	Credible Set	purple
chr17:35653842	17	35.65384	0.015835848	Credible Set	purple
chr17:35656227	17	35.65623	0.011953328	Credible Set	purple
chr17:35656237	17	35.65624	0.011049252	Credible Set	purple
chr17:35657043	17	35.65704	0.019403871	Credible Set	purple
chr17:35659591	17	35.65959	0.019403871	Credible Set	purple
chr17:35659790	17	35.65979	0.019285867	Credible Set	purple
chr17:35661925	17	35.66192	0.020261720	Credible Set	purple
chr17:35661953	17	35.66195	0.020235492	Credible Set	purple
chr17:35662044	17	35.66204	0.019403871	Credible Set	purple
chr17:35671886	17	35.67189	0.018244197	Credible Set	purple
chr17:35672608	17	35.67261	0.029769228	Credible Set	purple
chr17:35680171	17	35.68017	0.020699720	Credible Set	purple
chr17:35685462	17	35.68546	0.019287142	Credible Set	purple
chr17:35690117	17	35.69012	0.016166071	Credible Set	purple
chr17:35692366	17	35.69237	0.019114064	Credible Set	purple
chr17:35814797	17	35.81480	0.019338733	Credible Set	purple
chr17:35896309	17	35.89631	0.017933541	Credible Set	purple
chr17:35896336	17	35.89634	0.019157881	Credible Set	purple
chr17:35919532	17	35.91953	0.019403871	Credible Set	purple
chr17:35963419	17	35.96342	0.018046527	Credible Set	purple
chr17:36134373	17	36.13437	0.010351821	Credible Set	purple
chr17:36134388	17	36.13439	0.010351821	Credible Set	purple
chr17:36164938	17	36.16494	0.026020321	Credible Set	purple
chr17:36164968	17	36.16497	0.014785564	Credible Set	purple
chr17:36165054	17	36.16505	0.009423360	Credible Set	purple
chr17:36687888	17	36.68789	0.004445141	Credible Set	purple
chr17:36696968	17	36.69697	0.009233952	Credible Set	purple
chr17:36701296	17	36.70130	0.006640878	Credible Set	purple
chr17:36701348	17	36.70135	0.006652416	Credible Set	purple
chr17:36701690	17	36.70169	0.009295105	Credible Set	purple

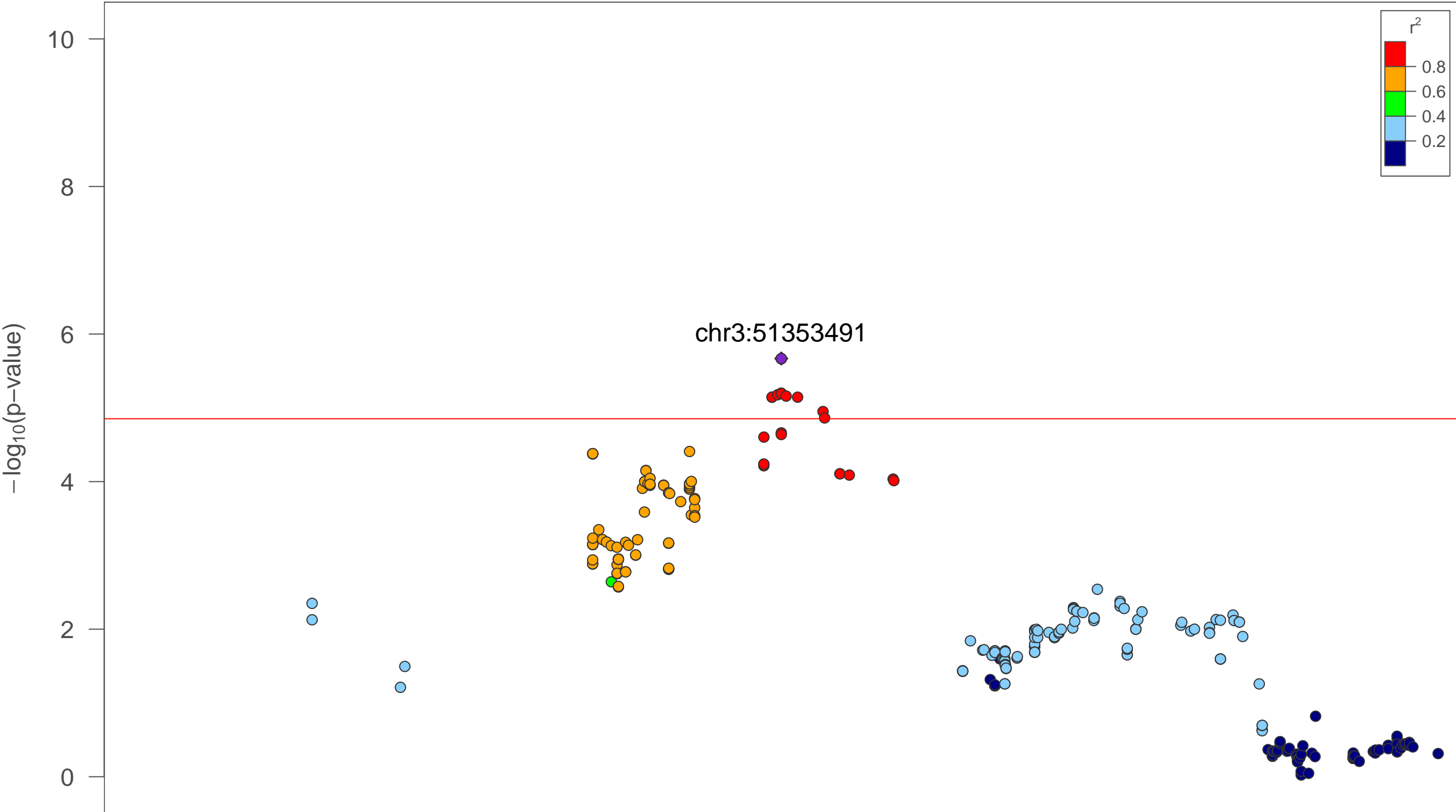
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:36737772	17	36.73777	0.010347145	Credible Set	purple
chr17:36773709	17	36.77371	0.009993692	Credible Set	purple
chr17:36813020	17	36.81302	0.029796440	Credible Set	purple
chr17:36852594	17	36.85259	0.018974525	Credible Set	purple
chr17:36857085	17	36.85708	0.018820602	Credible Set	purple
chr17:36858903	17	36.85890	0.018974525	Credible Set	purple
chr17:36858955	17	36.85896	0.018974525	Credible Set	purple
chr17:36883876	17	36.88388	0.020112576	Credible Set	purple
chr17:36948500	17	36.94850	0.021247355	Credible Set	purple
chr17:37178457	17	37.17846	0.014950300	Credible Set	purple
chr17:37241973	17	37.24197	0.015828467	Credible Set	purple
chr17:37242059	17	37.24206	0.017167668	Credible Set	purple
chr17:37271534	17	37.27153	0.017227009	Credible Set	purple
chr17:37273627	17	37.27363	0.014371745	Credible Set	purple
chr17:37273628	17	37.27363	0.014141616	Credible Set	purple
chr17:37273636	17	37.27364	0.014230016	Credible Set	purple
chr17:37503566	17	37.50357	0.003575854	Credible Set	purple
chr17:37526332	17	37.52633	0.001443878	Credible Set	purple
chr17:37526408	17	37.52641	0.001448747	Credible Set	purple
chr17:37526413	17	37.52641	0.001480667	Credible Set	purple
chr17:37574863	17	37.57486	0.001537708	Credible Set	purple
chr17:37575322	17	37.57532	0.003429711	Credible Set	purple
chr17:37575334	17	37.57533	0.003429711	Credible Set	purple
chr17:37575341	17	37.57534	0.003429711	Credible Set	purple
chr17:37575344	17	37.57534	0.003429711	Credible Set	purple
chr17:37610173	17	37.61017	0.002685950	Credible Set	purple
chr17:37610452	17	37.61045	0.002748952	Credible Set	purple
chr17:37631225	17	37.63123	0.002599248	Credible Set	purple
chr17:37631428	17	37.63143	0.002545401	Credible Set	purple
chr17:37644696	17	37.64470	0.002348741	Credible Set	purple
chr17:37676096	17	37.67610	0.002685890	Credible Set	purple
chr17:37692132	17	37.69213	0.002685890	Credible Set	purple
chr17:37695484	17	37.69548	0.003058205	Credible Set	purple
chr17:37763996	17	37.76400	0.001353188	Credible Set	purple
chr17:37835420	17	37.83542	0.002791536	Credible Set	purple
chr17:37835736	17	37.83574	0.002756783	Credible Set	purple

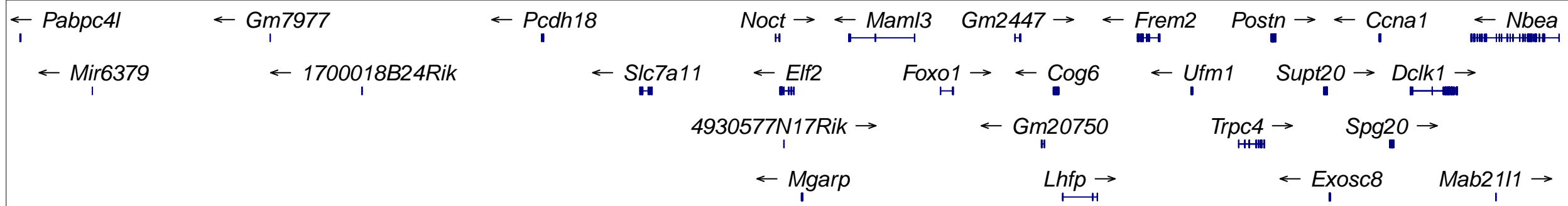
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:37842881	17	37.84288	0.002680426	Credible Set	purple
chr17:37903355	17	37.90335	0.002376706	Credible Set	purple
chr17:37999788	17	37.99979	0.002685890	Credible Set	purple
chr17:38455586	17	38.45559	0.002444826	Credible Set	purple
chr17:39208793	17	39.20879	0.003297060	Credible Set	purple
chr17:39382632	17	39.38263	0.003698378	Credible Set	purple
chr17:39426246	17	39.42625	0.002470239	Credible Set	purple
chr17:39437308	17	39.43731	0.002579331	Credible Set	purple
chr17:39769349	17	39.76935	0.002059838	Credible Set	purple
chr17:39780605	17	39.78061	0.002591185	Credible Set	purple
chr17:39780934	17	39.78093	0.002126763	Credible Set	purple
chr17:39853992	17	39.85399	0.002427523	Credible Set	purple
chr17:39867231	17	39.86723	0.002069375	Credible Set	purple
chr17:39983068	17	39.98307	0.002078934	Credible Set	purple
chr17:40129553	17	40.12955	0.001939989	Credible Set	purple
chr17:40303781	17	40.30378	0.002233659	Credible Set	purple
chr17:40322995	17	40.32299	0.002678436	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin distribution width



Credible Set



17 genes
omitted

Position on chr3 (Mb)

date: Thu Oct 25 17:07:29 2018

build: F34GBS

display range: chr3:46353491–56353491 [46353491–56353491]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:51353491

number of SNPs plotted: 283

min P-value: 2.14E–6 [chr3:51353491]

max P-value: 9.46E–1 [chr3:55192362]

omitted Genes: Ndufc1, Naa15, Rab33b

omitted Genes: Setd7, 5031434O11Rik, Mgst2

omitted Genes: Nhlrc3, Proser1, Stoml3

omitted Genes: Alg5, Smad9, Rfxap

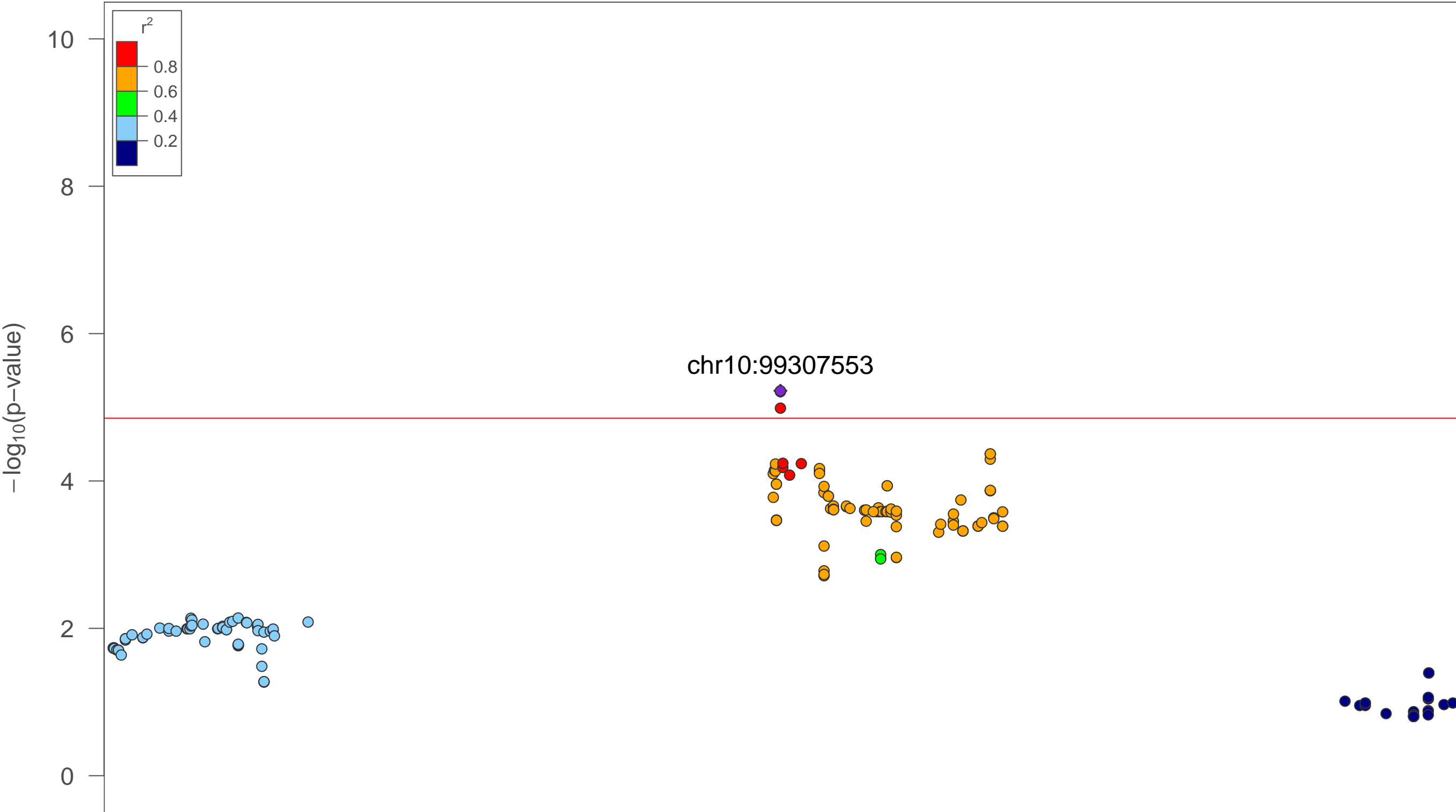
omitted Genes: Sertm1, 4931419H13Rik, Ccdc169

omitted Genes: Sohlh2, 4933417G07Rik

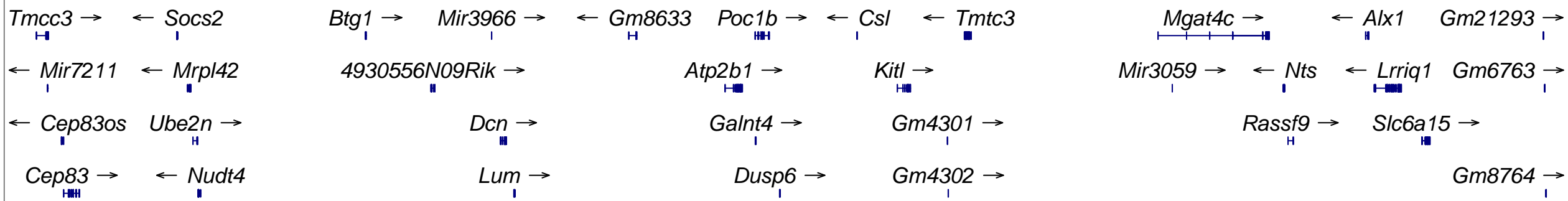
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:51224536	3	51.22454	0.006549880	Credible Set	purple
chr3:51224538	3	51.22454	0.006862850	Credible Set	purple
chr3:51224542	3	51.22454	0.006880732	Credible Set	purple
chr3:51224949	3	51.22495	0.015320677	Credible Set	purple
chr3:51284978	3	51.28498	0.050073355	Credible Set	purple
chr3:51285004	3	51.28500	0.050469758	Credible Set	purple
chr3:51326496	3	51.32650	0.053967627	Credible Set	purple
chr3:51353269	3	51.35327	0.056741272	Credible Set	purple
chr3:51353361	3	51.35336	0.017369834	Credible Set	purple
chr3:51353422	3	51.35342	0.016532821	Credible Set	purple
chr3:51353461	3	51.35346	0.159007360	Credible Set	purple
chr3:51353490	3	51.35349	0.158323691	Credible Set	purple
chr3:51353491	3	51.35349	0.159783900	Credible Set	purple
chr3:51353741	3	51.35374	0.056139059	Credible Set	purple
chr3:51389257	3	51.38926	0.051905555	Credible Set	purple
chr3:51473939	3	51.47394	0.050270008	Credible Set	purple
chr3:51661337	3	51.66134	0.032781117	Credible Set	purple
chr3:51673564	3	51.67356	0.027059421	Credible Set	purple
chr3:51785724	3	51.78572	0.005167142	Credible Set	purple
chr3:51786977	3	51.78698	0.005170855	Credible Set	purple
chr3:51855671	3	51.85567	0.004975115	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin distribution width



Credible Set



28 genes
omitted

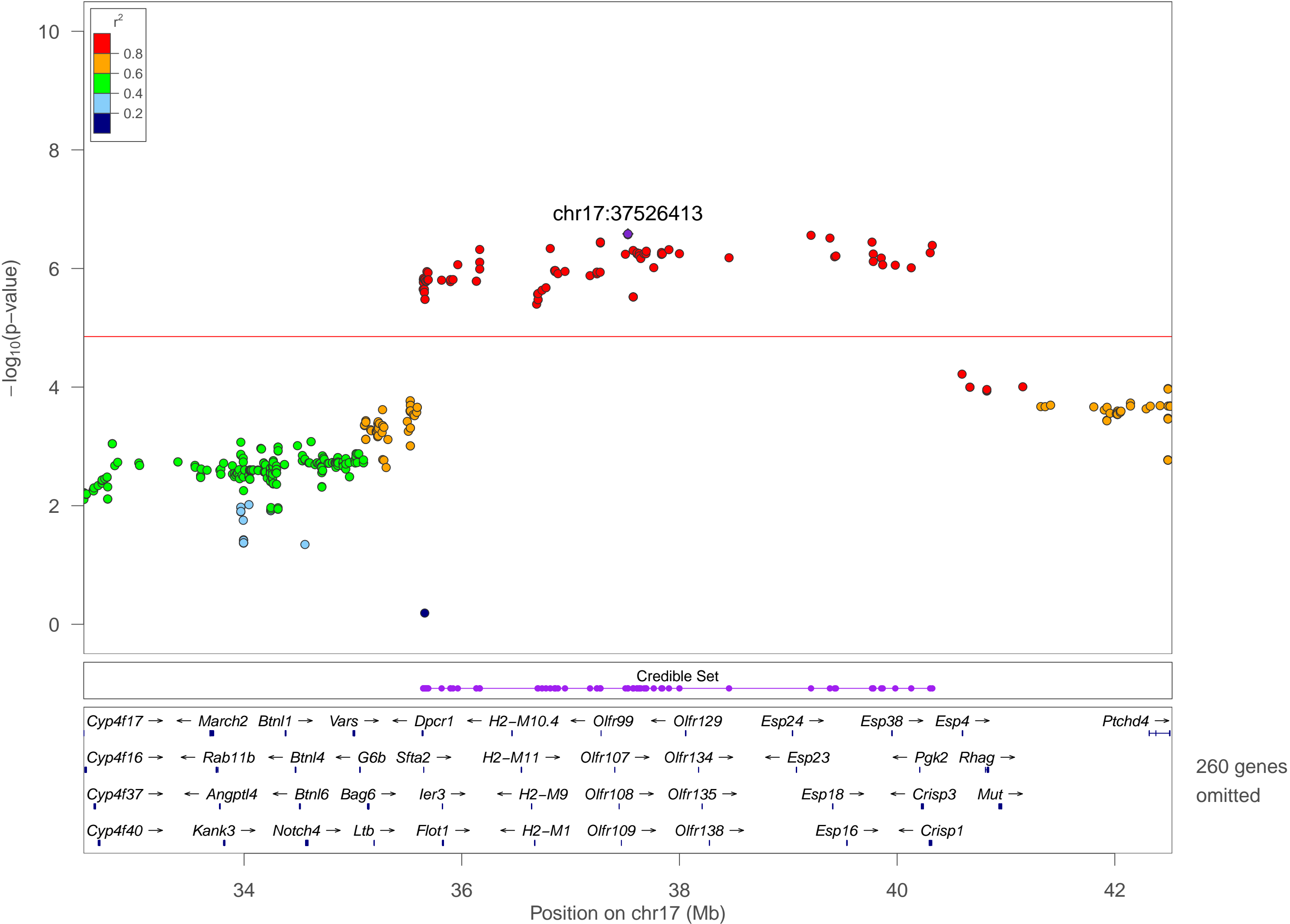
Position on chr10 (Mb)

date: Thu Oct 25 17:07:06 2018
build: F34GBS
display range: chr10:94307553–104307553 [94307553–104307553]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:99307553
number of SNPs plotted: 180
min P-value: 5.98E–6 [chr10:99307553]
max P-value: 1.57E–1 [chr10:103988206]
omitted Genes: Plxnc1, Gm29684, Cradd
omitted Genes: 2310039L15Rik, 5730420D15Rik, Mir3058
omitted Genes: Eea1, 4930459C07Rik, 4930473O22Rik
omitted Genes: Kera, Epyc, Gm10754
omitted Genes: Ccer1, 4930525C09Rik, Gm20110
omitted Genes: Gm18409, Gm4303, Gm4305
omitted Genes: Gm4307, Gm4312, Cep290
omitted Genes: 4930430F08Rik, 1700017N19Rik, Gm21304
omitted Genes: Gm21312, Gm20765, Gm4340
omitted Genes: Mir6411

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:99307553	10	99.30755	0.33002136	Credible Set	purple
chr10:99307573	10	99.30757	0.33002136	Credible Set	purple
chr10:99307596	10	99.30760	0.20250564	Credible Set	purple
chr10:99325139	10	99.32514	0.03365487	Credible Set	purple
chr10:99325722	10	99.32572	0.03866595	Credible Set	purple
chr10:99375519	10	99.37552	0.02709656	Credible Set	purple
chr10:99461777	10	99.46178	0.03803425	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin distribution width



date: Thu Oct 25 17:07:20 2018

build: F34GBS

display range: chr17:32526413–42526413 [32526413–42526413]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:37526413

number of SNPs plotted: 428

min P-value: 2.61E–7 [chr17:37526413]

max P-value: 6.46E–1 [chr17:35659711]

omitted Genes: Cyp4f15, Zfp871, Zfp811

omitted Genes: Zfp799, Zfp870, Cyp4f14

omitted Genes: Cyp4f13, Cyp4f41-ps, Zfp472

omitted Genes: Zfp952, Zfp763, 4921501E09Rik

omitted Genes: Zfp563, Morc2b, Olfr55

omitted Genes: Olfr239, Gm4461, Zfp955a

omitted Genes: Olfr63, Zfp955b, Zfp81

omitted Genes: Zfp101, Actl9, Adamts10

omitted Genes: Myo1f, Zfp414, Pram1

omitted Genes: Hnrnpm, Rps28, Ndufa7

omitted Genes: Cd320, Kifc1, Gm27740

omitted Genes: Platr17, BC051226, Daxx

omitted Genes: Zbtb22, Tapbp, Rgl2

omitted Genes: Pfdn6, Wdr46, B3galt4

omitted Genes: Rps18, Vps52, H2–K2

omitted Genes: AA388235, H2–K1, Ring1

omitted Genes: Mir219a–1, Mir219c, H2–Ke6

omitted Genes: Slc39a7, Rxrb, Col11a2

omitted Genes: BC051537, H2–Oa, Brd2

omitted Genes: H2–DMA, H2–DMb2, H2–DMb1

omitted Genes: Psmb9, Tap1, Psmb8

omitted Genes: Tap2, H2–Ob, H2–Ab1

omitted Genes: H2–Aa, H2–Eb1, H2–Eb2

omitted Genes: Btl2, BC051142, Btl5-ps

omitted Genes: Gpsm3, Pbx2, Ager

omitted Genes: Rnf5, Agpat1, Egfl8

omitted Genes: Ppt2, Prt1, Fkbp1

omitted Genes: Atf6b, Tnxb, C4b

omitted Genes: Cyp21a1, C4a, Stk19

omitted Genes: Dxo, Skiv2l, Mir6971

omitted Genes: Mir6970, Nelfe, Cfb

omitted Genes: Mir6972, C2, Zbtb12

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:35645542	17	35.64554	0.004231237	Credible Set	purple
chr17:35647446	17	35.64745	0.006073973	Credible Set	purple
chr17:35647569	17	35.64757	0.006073973	Credible Set	purple
chr17:35647605	17	35.64760	0.005547333	Credible Set	purple
chr17:35647647	17	35.64765	0.005475530	Credible Set	purple
chr17:35649675	17	35.64968	0.006384669	Credible Set	purple
chr17:35653842	17	35.65384	0.003890164	Credible Set	purple
chr17:35656227	17	35.65623	0.004226838	Credible Set	purple
chr17:35656237	17	35.65624	0.003767926	Credible Set	purple
chr17:35657043	17	35.65704	0.006073973	Credible Set	purple
chr17:35659591	17	35.65959	0.006073973	Credible Set	purple
chr17:35659790	17	35.65979	0.006053563	Credible Set	purple
chr17:35661925	17	35.66192	0.002905546	Credible Set	purple
chr17:35661953	17	35.66195	0.002908672	Credible Set	purple
chr17:35662044	17	35.66204	0.006073973	Credible Set	purple
chr17:35671886	17	35.67189	0.005621736	Credible Set	purple
chr17:35672608	17	35.67261	0.005780892	Credible Set	purple
chr17:35680171	17	35.68017	0.008183165	Credible Set	purple
chr17:35685462	17	35.68546	0.006015166	Credible Set	purple
chr17:35690117	17	35.69012	0.007886011	Credible Set	purple
chr17:35692366	17	35.69237	0.006019554	Credible Set	purple
chr17:35814797	17	35.81480	0.005943021	Credible Set	purple
chr17:35896309	17	35.89631	0.005615817	Credible Set	purple
chr17:35896336	17	35.89634	0.006072269	Credible Set	purple
chr17:35919532	17	35.91953	0.006073973	Credible Set	purple
chr17:35963419	17	35.96342	0.010599888	Credible Set	purple
chr17:36134373	17	36.13437	0.005718160	Credible Set	purple
chr17:36134388	17	36.13439	0.005718160	Credible Set	purple
chr17:36164938	17	36.16494	0.018723323	Credible Set	purple
chr17:36164968	17	36.16497	0.011608797	Credible Set	purple
chr17:36165054	17	36.16505	0.008997770	Credible Set	purple
chr17:36696968	17	36.69697	0.003519335	Credible Set	purple
chr17:36701690	17	36.70169	0.003606588	Credible Set	purple
chr17:36737772	17	36.73777	0.004082546	Credible Set	purple
chr17:36773709	17	36.77371	0.004483641	Credible Set	purple
chr17:36813020	17	36.81302	0.019401763	Credible Set	purple

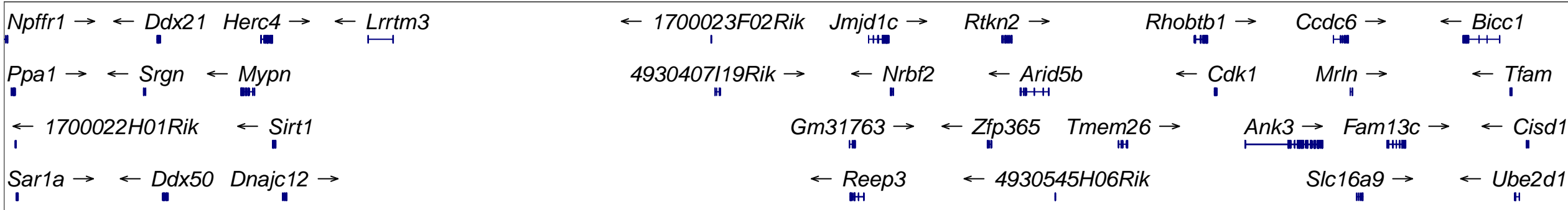
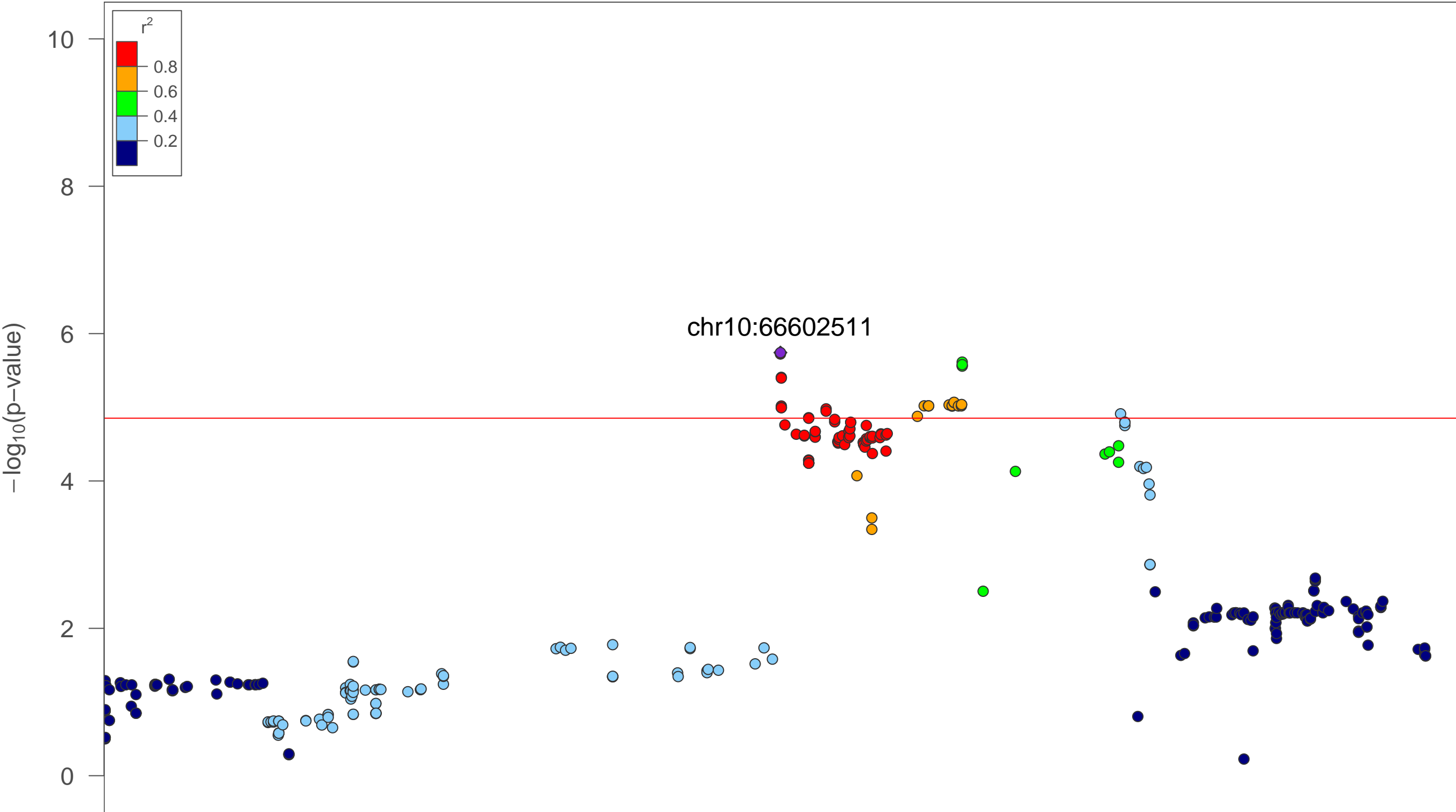
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:36852594	17	36.85259	0.008506659	Credible Set	purple
chr17:36857085	17	36.85708	0.008186433	Credible Set	purple
chr17:36858903	17	36.85890	0.008506659	Credible Set	purple
chr17:36858955	17	36.85896	0.008506659	Credible Set	purple
chr17:36883876	17	36.88388	0.007572203	Credible Set	purple
chr17:36948500	17	36.94850	0.008241514	Credible Set	purple
chr17:37178457	17	37.17846	0.007036269	Credible Set	purple
chr17:37241973	17	37.24197	0.007529506	Credible Set	purple
chr17:37242059	17	37.24206	0.008017601	Credible Set	purple
chr17:37271534	17	37.27153	0.008004896	Credible Set	purple
chr17:37273627	17	37.27363	0.024742759	Credible Set	purple
chr17:37273628	17	37.27363	0.023882663	Credible Set	purple
chr17:37273636	17	37.27364	0.024462362	Credible Set	purple
chr17:37503566	17	37.50357	0.015651385	Credible Set	purple
chr17:37526332	17	37.52633	0.032673092	Credible Set	purple
chr17:37526408	17	37.52641	0.033201054	Credible Set	purple
chr17:37526413	17	37.52641	0.033618526	Credible Set	purple
chr17:37574863	17	37.57486	0.018025221	Credible Set	purple
chr17:37575322	17	37.57532	0.003180852	Credible Set	purple
chr17:37575334	17	37.57533	0.003180852	Credible Set	purple
chr17:37575341	17	37.57534	0.003180852	Credible Set	purple
chr17:37575344	17	37.57534	0.003180852	Credible Set	purple
chr17:37610173	17	37.61017	0.015890002	Credible Set	purple
chr17:37610452	17	37.61045	0.016510792	Credible Set	purple
chr17:37631225	17	37.63123	0.016137959	Credible Set	purple
chr17:37631428	17	37.63143	0.014707317	Credible Set	purple
chr17:37644696	17	37.64470	0.013352743	Credible Set	purple
chr17:37676096	17	37.67610	0.015988342	Credible Set	purple
chr17:37692132	17	37.69213	0.015988342	Credible Set	purple
chr17:37695484	17	37.69548	0.017572581	Credible Set	purple
chr17:37763996	17	37.76400	0.009488744	Credible Set	purple
chr17:37835420	17	37.83542	0.015582281	Credible Set	purple
chr17:37835736	17	37.83574	0.016721185	Credible Set	purple
chr17:37842881	17	37.84288	0.015929333	Credible Set	purple
chr17:37903355	17	37.90335	0.018594999	Credible Set	purple
chr17:37999788	17	37.99979	0.015988342	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:38455586	17	38.45559	0.013732756	Credible Set	purple
chr17:39208793	17	39.20879	0.031852409	Credible Set	purple
chr17:39382632	17	39.38263	0.028676486	Credible Set	purple
chr17:39426246	17	39.42625	0.014247864	Credible Set	purple
chr17:39437308	17	39.43731	0.014662066	Credible Set	purple
chr17:39769349	17	39.76935	0.024653296	Credible Set	purple
chr17:39780605	17	39.78061	0.015799966	Credible Set	purple
chr17:39780934	17	39.78093	0.011937208	Credible Set	purple
chr17:39853992	17	39.85399	0.013589919	Credible Set	purple
chr17:39867231	17	39.86723	0.010518197	Credible Set	purple
chr17:39983068	17	39.98307	0.010399961	Credible Set	purple
chr17:40129553	17	40.12955	0.009439661	Credible Set	purple
chr17:40303781	17	40.30378	0.016558534	Credible Set	purple
chr17:40322995	17	40.32299	0.021851332	Credible Set	purple

F34 GBS, retic parameters red cell distribution width



39 genes
omitted

date: Thu Oct 25 17:07:38 2018

build: F34GBS

display range: chr10:61602511–71602511 [61602511–71602511]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:66602511

number of SNPs plotted: 346

min P-value: 1.81E–6 [chr10:66602511]

max P-value: 5.94E–1 [chr10:70028591]

omitted Genes: Tysnd1, Aifm2, H2afy2

omitted Genes: Mir5108, Col13a1, Gm5424

omitted Genes: 2010107G23Rik, Neurog3, Tspan15

omitted Genes: Mir7662, Tacr2, Hk1

omitted Genes: Hk1os, Hkdc1, Supv3l1

omitted Genes: 4930507D05Rik, Vps26a, Kif1bp

omitted Genes: Stox1, Mir7215, Ccar1

omitted Genes: Snord98, Tet1, Slc25a16

omitted Genes: Dna2, Rufy2, Hnrnph3

omitted Genes: Pbld2, Pbld1, Atoh7

omitted Genes: Ctnna3, Egr2, Ado

omitted Genes: 1700040L02Rik, Phyhipl, D630013N20Rik

omitted Genes: C730027H18Rik, 1700113B09Rik, lpmk

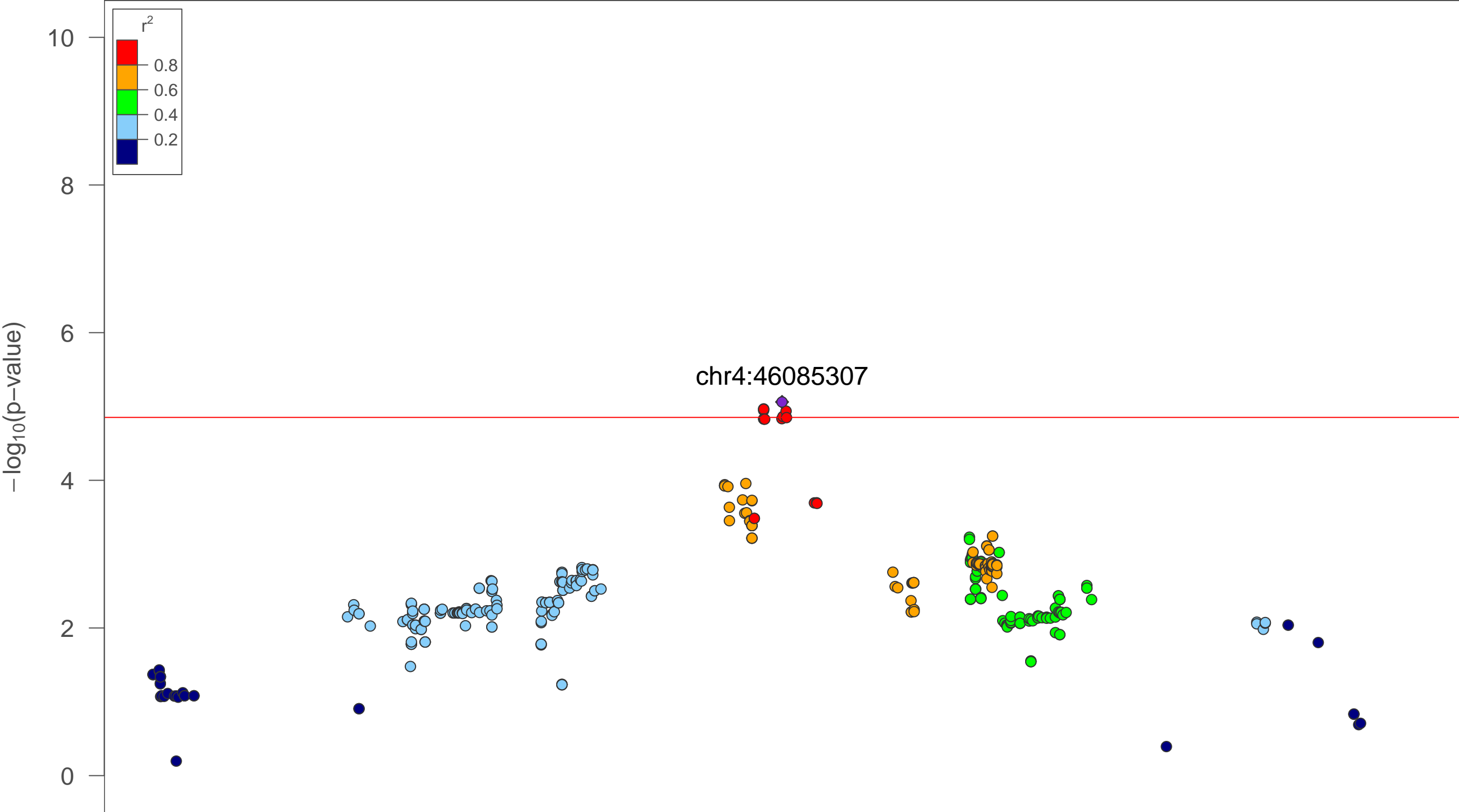
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:66602509	10	66.60251	0.114957231	Credible Set	purple
chr10:66602511	10	66.60251	0.114957231	Credible Set	purple
chr10:66608856	10	66.60886	0.059113686	Credible Set	purple
chr10:66608885	10	66.60889	0.059113686	Credible Set	purple
chr10:66609052	10	66.60905	0.024600070	Credible Set	purple
chr10:66609080	10	66.60908	0.024600070	Credible Set	purple
chr10:66609124	10	66.60912	0.024600070	Credible Set	purple
chr10:66635369	10	66.63537	0.014827777	Credible Set	purple
chr10:66719524	10	66.71952	0.011118828	Credible Set	purple
chr10:66778997	10	66.77900	0.010270821	Credible Set	purple
chr10:66779040	10	66.77904	0.010677544	Credible Set	purple
chr10:66811101	10	66.81110	0.005123930	Credible Set	purple
chr10:66811116	10	66.81112	0.005032271	Credible Set	purple
chr10:66811497	10	66.81150	0.017842867	Credible Set	purple
chr10:66811529	10	66.81153	0.017842867	Credible Set	purple
chr10:66811581	10	66.81158	0.004697080	Credible Set	purple
chr10:66811611	10	66.81161	0.004697080	Credible Set	purple
chr10:66811619	10	66.81162	0.004697080	Credible Set	purple
chr10:66811684	10	66.81168	0.004697080	Credible Set	purple
chr10:66859150	10	66.85915	0.010270821	Credible Set	purple
chr10:66859163	10	66.85916	0.010270821	Credible Set	purple
chr10:66859201	10	66.85920	0.012124524	Credible Set	purple
chr10:66859671	10	66.85967	0.012124524	Credible Set	purple
chr10:66940094	10	66.94009	0.024600070	Credible Set	purple
chr10:66940121	10	66.94012	0.022459976	Credible Set	purple
chr10:67003583	10	67.00358	0.015709767	Credible Set	purple
chr10:67003588	10	67.00359	0.016706709	Credible Set	purple
chr10:67026213	10	67.02621	0.008918899	Credible Set	purple
chr10:67029219	10	67.02922	0.008371125	Credible Set	purple
chr10:67029237	10	67.02924	0.008918899	Credible Set	purple
chr10:67034406	10	67.03441	0.009545893	Credible Set	purple
chr10:67036263	10	67.03626	0.009894723	Credible Set	purple
chr10:67061736	10	67.06174	0.010677544	Credible Set	purple
chr10:67077389	10	67.07739	0.008122366	Credible Set	purple
chr10:67107858	10	67.10786	0.010270821	Credible Set	purple
chr10:67107945	10	67.10795	0.009894723	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:67108562	10	67.10856	0.012124524	Credible Set	purple
chr10:67115847	10	67.11585	0.010677544	Credible Set	purple
chr10:67116164	10	67.11616	0.012701061	Credible Set	purple
chr10:67121830	10	67.12183	0.015709767	Credible Set	purple
chr10:67121898	10	67.12190	0.015709767	Credible Set	purple
chr10:67214197	10	67.21420	0.008636086	Credible Set	purple
chr10:67217456	10	67.21746	0.008122366	Credible Set	purple
chr10:67217505	10	67.21751	0.008122366	Credible Set	purple
chr10:67226747	10	67.22675	0.007459588	Credible Set	purple
chr10:67237234	10	67.23723	0.009545893	Credible Set	purple
chr10:67237236	10	67.23724	0.008918899	Credible Set	purple
chr10:67237389	10	67.23739	0.014041816	Credible Set	purple
chr10:67246731	10	67.24673	0.009221448	Credible Set	purple
chr10:67264982	10	67.26498	0.009894723	Credible Set	purple
chr10:67265380	10	67.26538	0.010270821	Credible Set	purple
chr10:67281545	10	67.28154	0.009894723	Credible Set	purple
chr10:67281940	10	67.28194	0.010270821	Credible Set	purple
chr10:67282089	10	67.28209	0.006274143	Credible Set	purple
chr10:67338317	10	67.33832	0.009894723	Credible Set	purple
chr10:67345731	10	67.34573	0.011118828	Credible Set	purple
chr10:67346184	10	67.34618	0.011118828	Credible Set	purple
chr10:67382855	10	67.38286	0.006731257	Credible Set	purple
chr10:67383022	10	67.38302	0.010677544	Credible Set	purple
chr10:67391783	10	67.39178	0.011118828	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width



Credible Set

← *Aqp3* *Gm3893* → *Phf24* → ← *Tln1* *Melk* → *Grhpr* → *Gm829* → ← *Trmo* ← *Anks6* *Nr4a3* → *Plppr1* →
← *Nol6* *Gm13304* → *Dnajb5* → *Npr2* → ← *Pax5* ← *Exosc3* *Tmod1* → ← *Gabbr2* *Stx17* → ← *Acnat2*
Ube2r2 → *Ccl21b* → ← *Vcp* ← *Gba2* ← *Mir5120* ← *Shb* ← *Tstd2* *Galnt12* → ← *Erp44* ← *Acnat1*
← *Ubap2* *Gm13308* → *Unc13b* → *Reck* → *Zcchc7* → ← *Gm12409* ← *Tbc1d2* *Tgfbr1* → ← *Mir1958* ← *Baat*

109 genes
omitted

date: Thu Oct 25 17:07:57 2018

build: F34GBS

display range: chr4:41085307–51085307 [41085307–51085307]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:46085307

number of SNPs plotted: 346

min P-value: 8.69E–6 [chr4:46085307]

max P-value: 6.35E–1 [chr4:41616530]

omitted Genes: Dcaf12, Ubap1, Kif24

omitted Genes: Nudt2, AI464131, 1110017D15Rik

omitted Genes: Fam219aos, Fam219a, Dnaic1

omitted Genes: Enho, Cntfr, Rpp25l

omitted Genes: Dctn3, Arid3c, Sigmar1

omitted Genes: Galt, Il11ra1, Ccl27a

omitted Genes: Gm21541, Gm20878, Gm13306

omitted Genes: Gm13305, Gm21586, Fam205a2

omitted Genes: Gm10591, Ccl27b, Il11ra2

omitted Genes: Ccl19, Ccl21a, Fam205a1

omitted Genes: Fam205c, 1700022I11Rik, Fancg

omitted Genes: Pigo, Stoml2, Fam214b

omitted Genes: Atp8b5, Rusc2, Fam166b

omitted Genes: Tesk1, Cd72, Sit1

omitted Genes: Rmrp, Ccdc107, Arhgef39

omitted Genes: Car9, Tpm2, Creb3

omitted Genes: Rgp1, Msmp, Spag8

omitted Genes: Hint2, Fam221b, Tmem8b

omitted Genes: Olfr70, Olfr71, Hrct1

omitted Genes: 5430416O09Rik, A630077J23Rik, Olfr159

omitted Genes: Olfr29-ps1, Olfr156, Olfr157

omitted Genes: Olfr155, Glipr2, Ccin

omitted Genes: Clta, Gne, Gm12504

omitted Genes: Rnf38, Mir5106, 5730488B01Rik

omitted Genes: Zbtb5, Polr1e, Fbxo10

omitted Genes: Tomm5, Frmpd1, Frmpd1os

omitted Genes: Trmt10b, Dcaf10, Slc25a51

omitted Genes: Aldh1b1, Igfbp1, Stra6l

omitted Genes: Ccdc180, Tdrd7, Ncbp1

omitted Genes: Xpa, Foxe1, Hemgn

omitted Genes: Anp32b, Nans, Trim14, Trim14

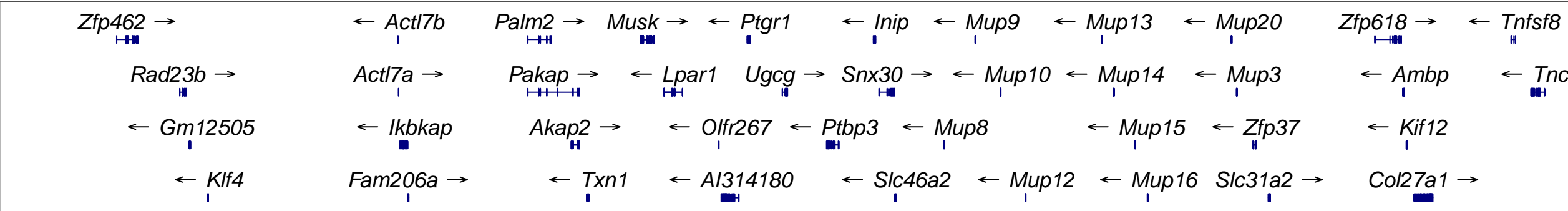
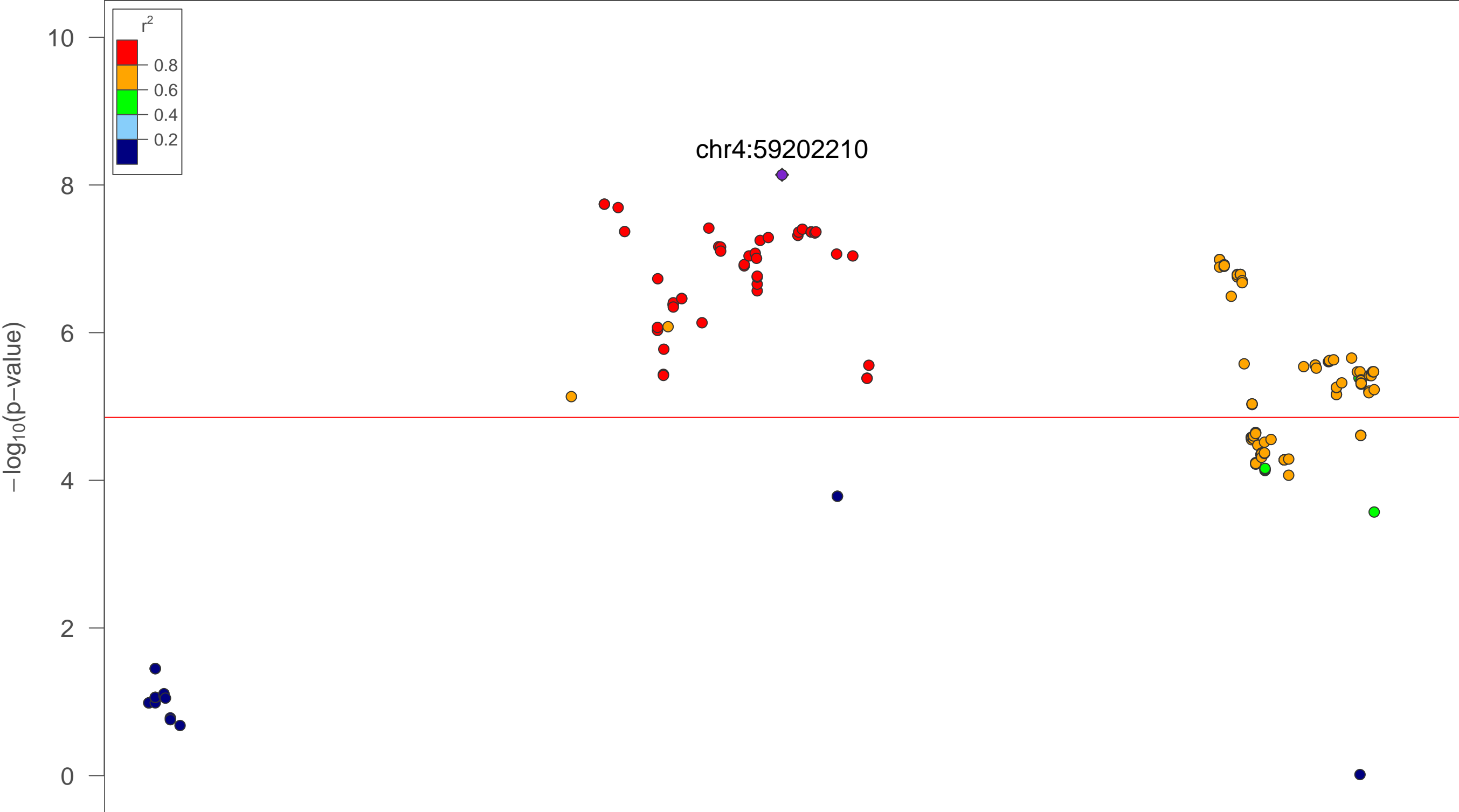
omitted Genes: Coro2a, Ccl15a1, Alq2

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:45949623	4	45.94962	0.089762626	Credible Set	purple
chr4:45949656	4	45.94966	0.093939720	Credible Set	purple
chr4:45949665	4	45.94967	0.092953049	Credible Set	purple
chr4:45950119	4	45.95012	0.069606476	Credible Set	purple
chr4:45950209	4	45.95021	0.069509485	Credible Set	purple
chr4:45951631	4	45.95163	0.069346826	Credible Set	purple
chr4:45957405	4	45.95741	0.069129650	Credible Set	purple
chr4:46084049	4	46.08405	0.070167667	Credible Set	purple
chr4:46085307	4	46.08531	0.115350828	Credible Set	purple
chr4:46091992	4	46.09199	0.074918273	Credible Set	purple
chr4:46115063	4	46.11506	0.087995678	Credible Set	purple
chr4:46118124	4	46.11812	0.072463060	Credible Set	purple
chr4:46324082	4	46.32408	0.005837550	Credible Set	purple
chr4:46340473	4	46.34047	0.005854421	Credible Set	purple
chr4:46343171	4	46.34317	0.005746680	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width



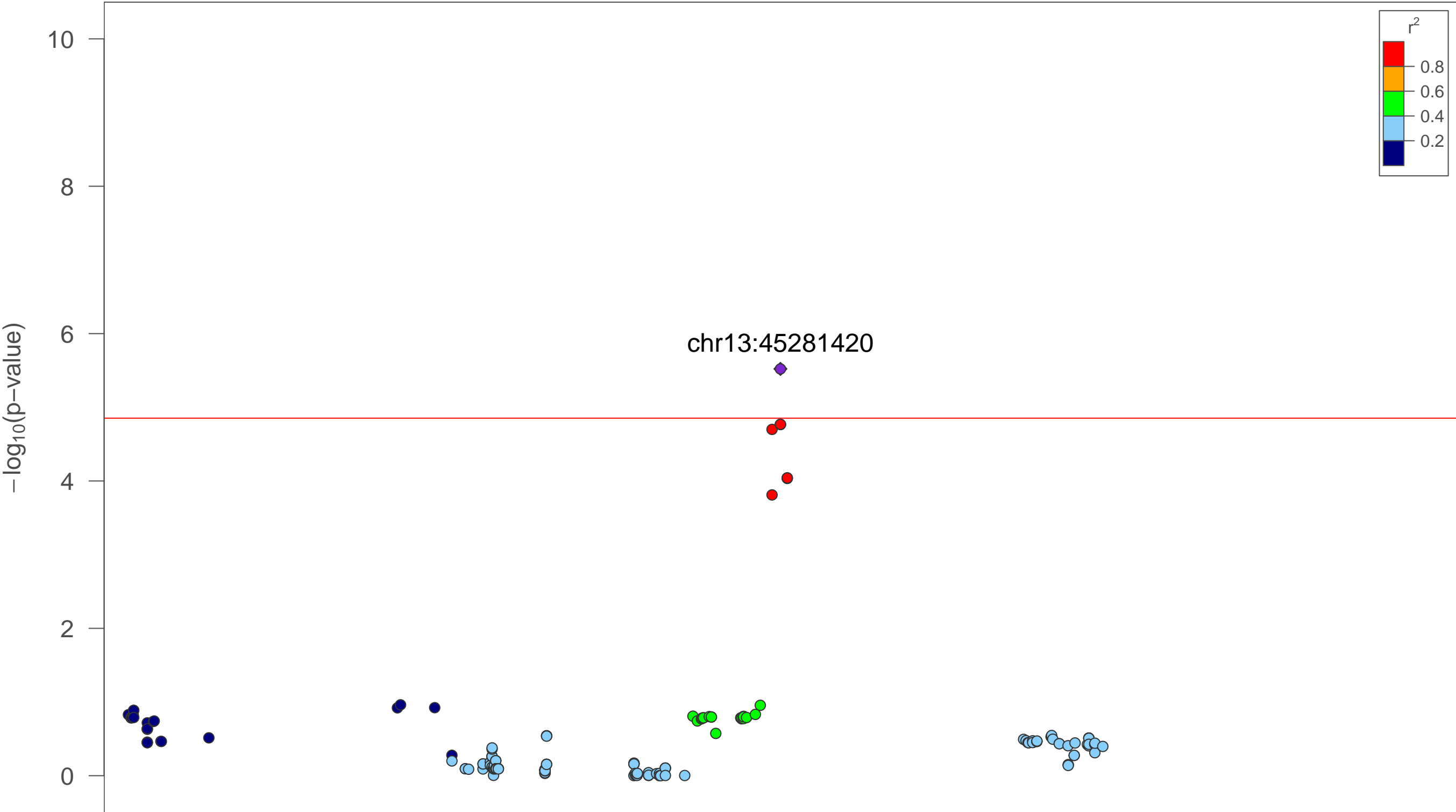
53 genes
omitted

date: Thu Oct 25 17:08:05 2018
build: F34GBS
display range: chr4:54202210–64202210 [54202210–64202210]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:59202210
number of SNPs plotted: 157
min P-value: 7.28E–9 [chr4:59202210]
max P-value: 9.66E–1 [chr4:63465549]
omitted Genes: Ctnna1, Tmem245, Mir32
omitted Genes: Frs1l, Ebp41l4b, Gm12530
omitted Genes: Ptpn3, 1700042G15Rik, D630039A03Rik
omitted Genes: Txndc8, Slep1, Mir3095
omitted Genes: Zkscan16, Dnajc25, Gng10
omitted Genes: Gm12596, Susd1, Hsd12
omitted Genes: E130308A19Rik, Mup4, Mup6
omitted Genes: Mup7, Mup2, Mup1
omitted Genes: Mup11, Mup17, Mup18
omitted Genes: Mup19, Mup5, Mup21
omitted Genes: Fkbp15, Slc31a1, Cdc26
omitted Genes: Prpf4, Rnf183, Wdr31
omitted Genes: Bspr, Hdhd3, Alad
omitted Genes: Pole3, 4933430I17Rik, Rgs3
omitted Genes: Mir455, Orm1, Orm3
omitted Genes: Orm2, Akna, Whrn
omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213
omitted Genes: 1700018C11Rik, Tnfsf15

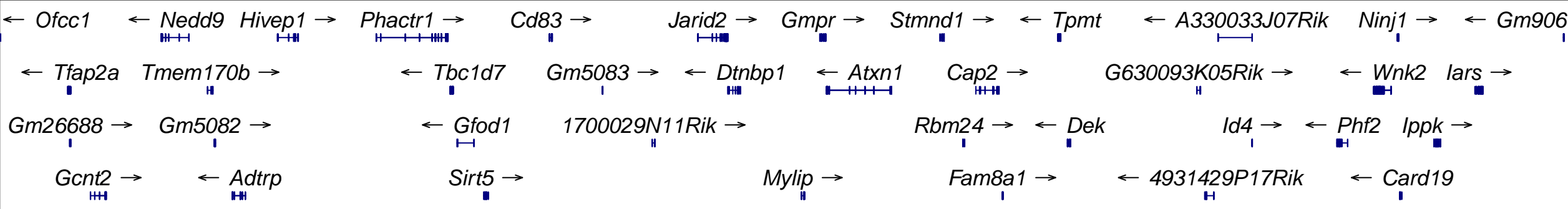
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:57891427	4	57.89143	0.074789361	Credible Set	purple
chr4:57891451	4	57.89145	0.074789361	Credible Set	purple
chr4:57993173	4	57.99317	0.067416927	Credible Set	purple
chr4:58041091	4	58.04109	0.032637673	Credible Set	purple
chr4:58285477	4	58.28548	0.007854700	Credible Set	purple
chr4:58399947	4	58.39995	0.003810993	Credible Set	purple
chr4:58400011	4	58.40001	0.003350692	Credible Set	purple
chr4:58461854	4	58.46185	0.004337250	Credible Set	purple
chr4:58462401	4	58.46240	0.004311110	Credible Set	purple
chr4:58662154	4	58.66215	0.036220962	Credible Set	purple
chr4:58735042	4	58.73504	0.020669850	Credible Set	purple
chr4:58748774	4	58.74877	0.020454574	Credible Set	purple
chr4:58749245	4	58.74925	0.018065857	Credible Set	purple
chr4:58923167	4	58.92317	0.011568694	Credible Set	purple
chr4:58923190	4	58.92319	0.012046201	Credible Set	purple
chr4:58958681	4	58.95868	0.015628801	Credible Set	purple
chr4:59004314	4	59.00431	0.016952064	Credible Set	purple
chr4:59013917	4	59.01392	0.014537933	Credible Set	purple
chr4:59019003	4	59.01900	0.005457270	Credible Set	purple
chr4:59019032	4	59.01903	0.006668589	Credible Set	purple
chr4:59019072	4	59.01907	0.008243187	Credible Set	purple
chr4:59019113	4	59.01911	0.008487489	Credible Set	purple
chr4:59040591	4	59.04059	0.024982138	Credible Set	purple
chr4:59100640	4	59.10064	0.027250456	Credible Set	purple
chr4:59202210	4	59.20221	0.181971130	Credible Set	purple
chr4:59319020	4	59.31902	0.029047920	Credible Set	purple
chr4:59324851	4	59.32485	0.032108606	Credible Set	purple
chr4:59352342	4	59.35234	0.035044679	Credible Set	purple
chr4:59417447	4	59.41745	0.032336464	Credible Set	purple
chr4:59417451	4	59.41745	0.032254525	Credible Set	purple
chr4:59417505	4	59.41750	0.032172049	Credible Set	purple
chr4:59444538	4	59.44454	0.031259187	Credible Set	purple
chr4:59451945	4	59.45195	0.032339242	Credible Set	purple
chr4:59604913	4	59.60491	0.016542001	Credible Set	purple
chr4:59724135	4	59.72413	0.015635485	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width



Credible Set



41 genes
omitted

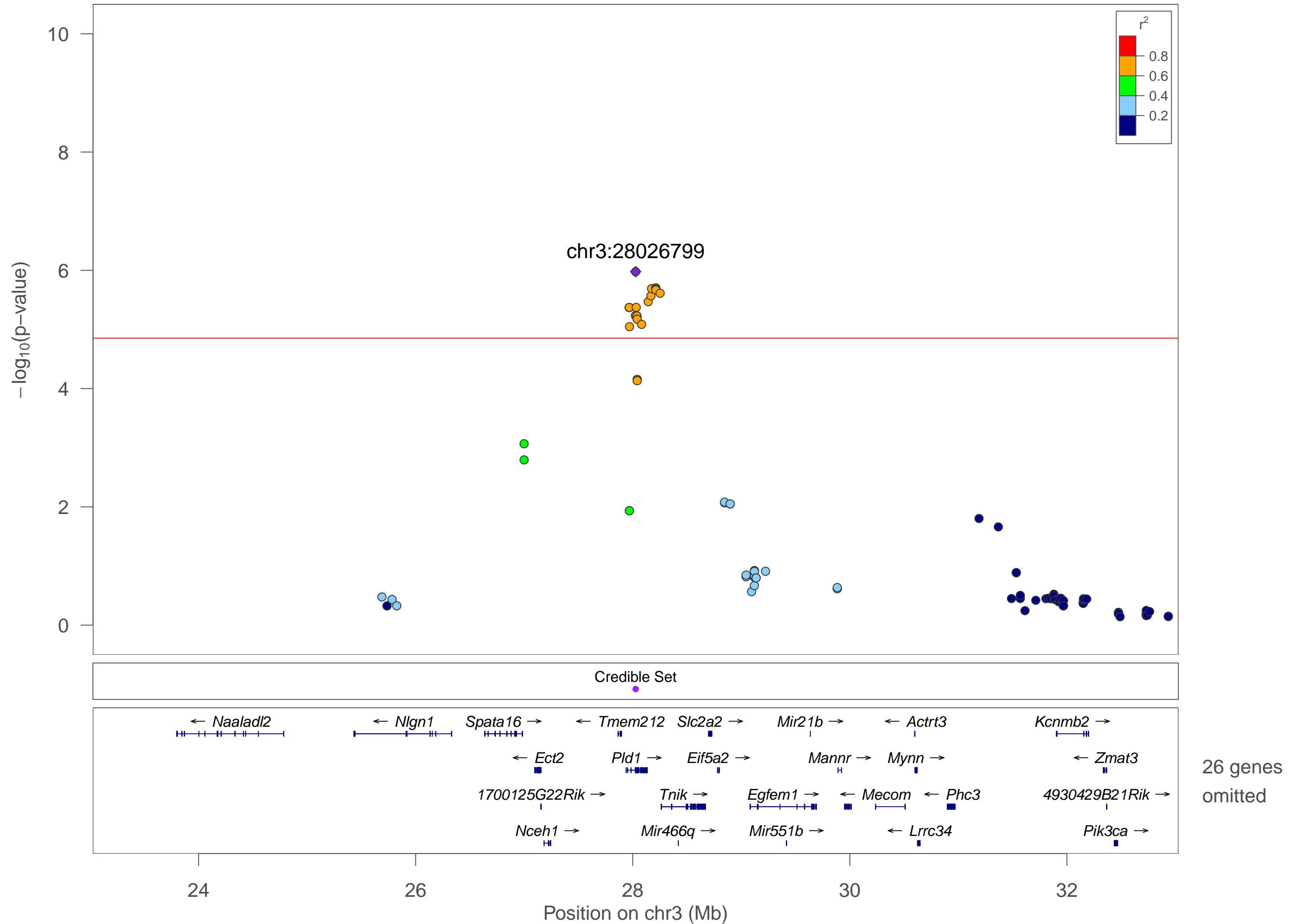
Position on chr13 (Mb)

date: Thu Oct 25 17:07:47 2018
build: F34GBS
display range: chr13:40281420–50281420 [40281420–50281420]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr13:45281420
number of SNPs plotted: 173
min P-value: 3.01E–6 [chr13:45281420]
max P-value: 10E–1 [chr13:44396308]
omitted Genes: Mir5124a, Pak1ip1, Tmem14c
omitted Genes: Mak, Gcm2, Sycp2l
omitted Genes: Elovl2, Smim13, Gm10790
omitted Genes: Edn1, Nol7, Ranbp9
omitted Genes: Mcur1, Rnf182, Gm20751
omitted Genes: A330076C08Rik, Nup153, Kif13a
omitted Genes: Nhlrc1, Kdm1b, Rnf144b
omitted Genes: A930002C04Rik, A330048O09Rik, Zfp169
omitted Genes: Mirlet7d, Mirlet7f–1, Mirlet7a–1
omitted Genes: Ptpdc1, Barx1, Fam120a
omitted Genes: Fam120aos, Susd3, Fgd3
omitted Genes: Bicd2, Cenpp, Ecm2
omitted Genes: Aspn, Omd, Ogn
omitted Genes: Nol8, 2310081J21Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr13:45219307	13	45.21931	0.01259701	Credible Set	purple
chr13:45219356	13	45.21936	0.08755971	Credible Set	purple
chr13:45281289	13	45.28129	0.10158012	Credible Set	purple
chr13:45281291	13	45.28129	0.10114708	Credible Set	purple
chr13:45281309	13	45.28131	0.10177082	Credible Set	purple
chr13:45281420	13	45.28142	0.53331775	Credible Set	purple
chr13:45331781	13	45.33178	0.02081501	Credible Set	purple
chr13:45331853	13	45.33185	0.02045599	Credible Set	purple
chr13:45331868	13	45.33187	0.02075652	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume, repeat



date: Thu Oct 25 17:08:37 2018

build: F34GBS

display range: chr3:23026799–33026799 [23026799–33026799]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:28026799

number of SNPs plotted: 116

min P-value: 1.05E–6 [chr3:28026799]

max P-value: 7.21E–1 [chr3:32490030]

omitted Genes: Tnfsf10, Ghser, Fndc3b

omitted Genes: Mir3092, Rpl22l1, Gm1527

omitted Genes: Lrriq4, Lrrc31, Samd7

omitted Genes: Sec62, Gpr160, Prkci

omitted Genes: Mir7008, Skil, Cldn11

omitted Genes: Slc7a14, Kcnmb3, Zfp639

omitted Genes: Mfn1, Gnb4, Actl6a

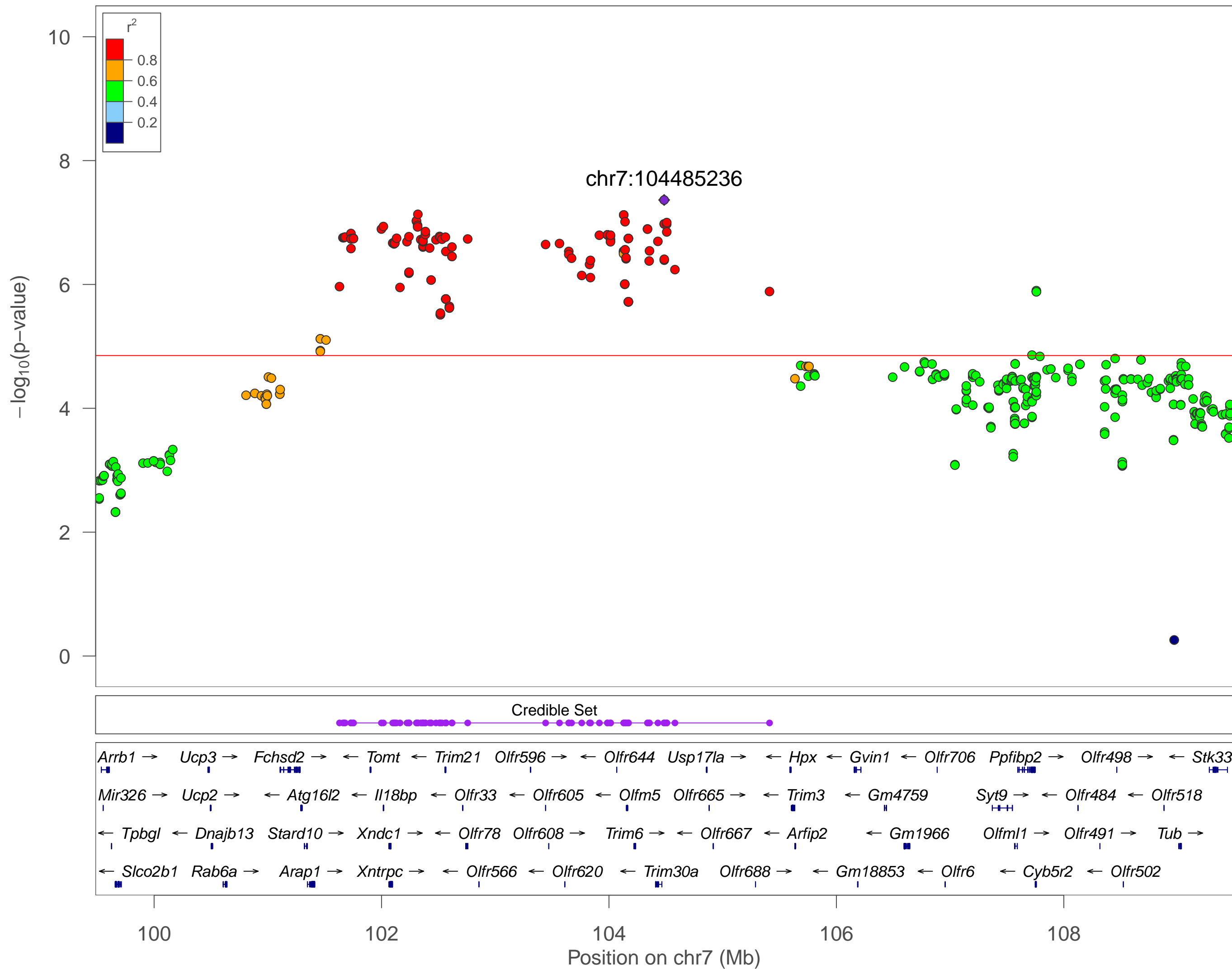
omitted Genes: Mrpl47, Ndubf5, Usp13

omitted Genes: Pex5l, 4930419G24Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:28026799	3	28.0268	1	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume, repeat



date: Thu Oct 25 17:08:51 2018

build: F34GBS

display range: chr7:99485236–109485236 [99485236–109485236]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104485236

number of SNPs plotted: 448

min P-value: 4.32E–8 [chr7:104485236]

max P-value: 5.53E–1 [chr7:108970722]

omitted Genes: Olfr520, Olfr521, Neu3

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Chrdl2, Pold3, Lipt2

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: P4ha3, Ppme1, C2cd3

omitted Genes: Coa4, Mrpl48, Plekhhb1

omitted Genes: Fam168a, Relt, Arhgef17

omitted Genes: Mir3102, P2ry6, P2ry2

omitted Genes: Pde2a, Mir139, Art2a-ps

omitted Genes: Art2b, Clpb, Phox2a

omitted Genes: Inpp1, Folr2, Folr1

omitted Genes: Anapc15, Lamtor1, Lrrc51

omitted Genes: Numa1, Rnf121, Trpc2

omitted Genes: Art5, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Stim1, Rrm1, Olfr543

omitted Genes: Olfr544, Olfr545, Olfr547

omitted Genes: Olfr549, Olfr550, Olfr551

omitted Genes: Olfr552, Olfr553, Olfr554

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr560, Olfr561, Olfr564

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr583

omitted Genes: Olfr584, Olfr585, Olfr586

omitted Genes: Olfr589, Olfr591, Olfr592

omitted Genes: Olfr593, Olfr594, Usp17ld

omitted Genes: Olfr597, Olfr598, Olfr599

omitted Genes: Olfr600, Olfr601, Olfr603

omitted Genes: Usp17lc, Olfr606, Olfr609

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101630176	7	101.6302	0.001789679	Credible Set	purple
chr7:101660383	7	101.6604	0.010341918	Credible Set	purple
chr7:101669186	7	101.6692	0.010354086	Credible Set	purple
chr7:101673483	7	101.6735	0.010512090	Credible Set	purple
chr7:101680140	7	101.6801	0.010567581	Credible Set	purple
chr7:101731061	7	101.7311	0.012046240	Credible Set	purple
chr7:101731110	7	101.7311	0.010042784	Credible Set	purple
chr7:101731130	7	101.7311	0.007006876	Credible Set	purple
chr7:101731658	7	101.7317	0.009875469	Credible Set	purple
chr7:101751790	7	101.7518	0.010045918	Credible Set	purple
chr7:101752580	7	101.7526	0.010142363	Credible Set	purple
chr7:101752971	7	101.7530	0.010001728	Credible Set	purple
chr7:101998679	7	101.9987	0.014114434	Credible Set	purple
chr7:102016307	7	102.0163	0.015472808	Credible Set	purple
chr7:102098054	7	102.0981	0.008537204	Credible Set	purple
chr7:102110109	7	102.1101	0.008275023	Credible Set	purple
chr7:102110501	7	102.1105	0.008757857	Credible Set	purple
chr7:102116318	7	102.1163	0.008549278	Credible Set	purple
chr7:102116430	7	102.1164	0.008549278	Credible Set	purple
chr7:102116478	7	102.1165	0.008485512	Credible Set	purple
chr7:102132562	7	102.1326	0.010142489	Credible Set	purple
chr7:102162058	7	102.1621	0.001736170	Credible Set	purple
chr7:102223396	7	102.2234	0.008946636	Credible Set	purple
chr7:102240695	7	102.2407	0.010738925	Credible Set	purple
chr7:102241191	7	102.2412	0.002888969	Credible Set	purple
chr7:102241211	7	102.2412	0.002928719	Credible Set	purple
chr7:102241212	7	102.2412	0.003006739	Credible Set	purple
chr7:102306968	7	102.3070	0.018668175	Credible Set	purple
chr7:102306978	7	102.3070	0.019080554	Credible Set	purple
chr7:102317213	7	102.3172	0.016102328	Credible Set	purple
chr7:102317246	7	102.3172	0.015242451	Credible Set	purple
chr7:102319586	7	102.3196	0.024041039	Credible Set	purple
chr7:102344970	7	102.3450	0.009674340	Credible Set	purple
chr7:102363897	7	102.3639	0.009626705	Credible Set	purple
chr7:102364204	7	102.3642	0.007395796	Credible Set	purple
chr7:102364223	7	102.3642	0.007656479	Credible Set	purple

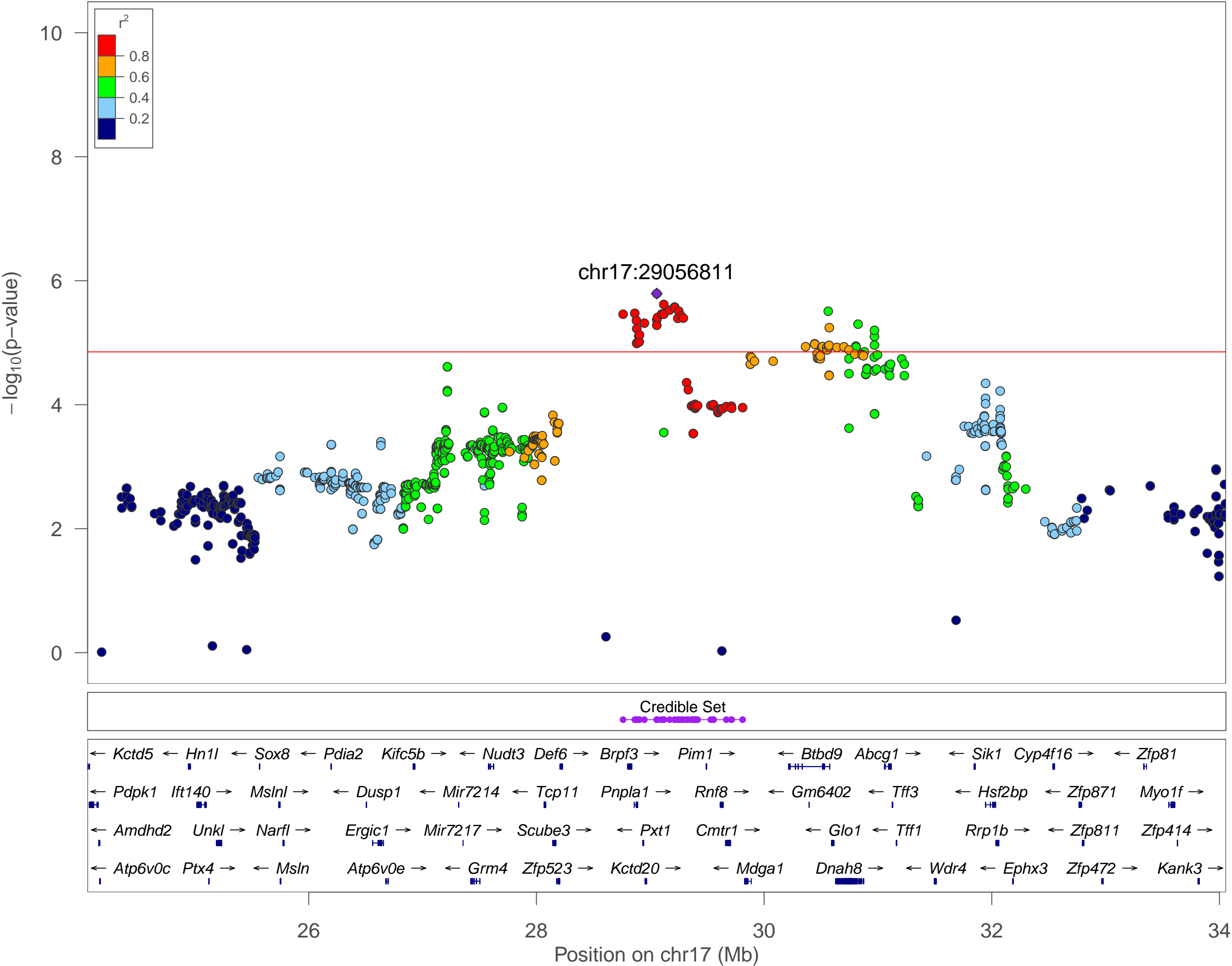
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102364315	7	102.3643	0.008959549	Credible Set	purple
chr7:102364326	7	102.3643	0.008959549	Credible Set	purple
chr7:102364411	7	102.3644	0.009244659	Credible Set	purple
chr7:102385520	7	102.3855	0.011613288	Credible Set	purple
chr7:102385536	7	102.3855	0.012917652	Credible Set	purple
chr7:102423165	7	102.4232	0.007131428	Credible Set	purple
chr7:102435692	7	102.4357	0.002263594	Credible Set	purple
chr7:102435720	7	102.4357	0.002263594	Credible Set	purple
chr7:102478469	7	102.4785	0.009598491	Credible Set	purple
chr7:102510475	7	102.5105	0.010682947	Credible Set	purple
chr7:102510607	7	102.5106	0.010835669	Credible Set	purple
chr7:102516878	7	102.5169	0.010503596	Credible Set	purple
chr7:102531652	7	102.5317	0.009797808	Credible Set	purple
chr7:102561708	7	102.5617	0.010550785	Credible Set	purple
chr7:102565262	7	102.5653	0.001148009	Credible Set	purple
chr7:102565292	7	102.5653	0.001154438	Credible Set	purple
chr7:102565307	7	102.5653	0.001140220	Credible Set	purple
chr7:102565323	7	102.5653	0.001146602	Credible Set	purple
chr7:102565329	7	102.5653	0.001146602	Credible Set	purple
chr7:102565410	7	102.5654	0.006305334	Credible Set	purple
chr7:102619418	7	102.6194	0.005272459	Credible Set	purple
chr7:102619431	7	102.6194	0.005270062	Credible Set	purple
chr7:102619466	7	102.6195	0.007407272	Credible Set	purple
chr7:102757499	7	102.7575	0.009879928	Credible Set	purple
chr7:103442570	7	103.4426	0.008109336	Credible Set	purple
chr7:103564836	7	103.5648	0.008394521	Credible Set	purple
chr7:103646439	7	103.6464	0.006321513	Credible Set	purple
chr7:103646709	7	103.6467	0.005661752	Credible Set	purple
chr7:103671033	7	103.6710	0.004942555	Credible Set	purple
chr7:103760301	7	103.7603	0.002669575	Credible Set	purple
chr7:103829200	7	103.8292	0.003963801	Credible Set	purple
chr7:103837099	7	103.8371	0.002471471	Credible Set	purple
chr7:103837213	7	103.8372	0.004586112	Credible Set	purple
chr7:103915503	7	103.9155	0.011309668	Credible Set	purple
chr7:103986792	7	103.9868	0.011456842	Credible Set	purple
chr7:103986795	7	103.9868	0.011456842	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986857	7	103.9869	0.011456499	Credible Set	purple
chr7:103986860	7	103.9869	0.011456499	Credible Set	purple
chr7:104012808	7	104.0128	0.010878150	Credible Set	purple
chr7:104013370	7	104.0134	0.009686578	Credible Set	purple
chr7:104013395	7	104.0134	0.008931380	Credible Set	purple
chr7:104013467	7	104.0135	0.011329190	Credible Set	purple
chr7:104129734	7	104.1297	0.023467857	Credible Set	purple
chr7:104129736	7	104.1297	0.023467857	Credible Set	purple
chr7:104138934	7	104.1389	0.001940021	Credible Set	purple
chr7:104138936	7	104.1389	0.001961076	Credible Set	purple
chr7:104138968	7	104.1390	0.001961076	Credible Set	purple
chr7:104141343	7	104.1413	0.018365898	Credible Set	purple
chr7:104141705	7	104.1417	0.006700518	Credible Set	purple
chr7:104141768	7	104.1418	0.006704119	Credible Set	purple
chr7:104149893	7	104.1499	0.004845480	Credible Set	purple
chr7:104149911	7	104.1499	0.005032014	Credible Set	purple
chr7:104170588	7	104.1706	0.010091899	Credible Set	purple
chr7:104170594	7	104.1706	0.010042296	Credible Set	purple
chr7:104170618	7	104.1706	0.010049479	Credible Set	purple
chr7:104170662	7	104.1707	0.010049479	Credible Set	purple
chr7:104338784	7	104.3388	0.014201135	Credible Set	purple
chr7:104338810	7	104.3388	0.014048140	Credible Set	purple
chr7:104353491	7	104.3535	0.004481911	Credible Set	purple
chr7:104356230	7	104.3562	0.006449043	Credible Set	purple
chr7:104430205	7	104.4302	0.009070232	Credible Set	purple
chr7:104485236	7	104.4852	0.040217316	Credible Set	purple
chr7:104485721	7	104.4857	0.016996983	Credible Set	purple
chr7:104485727	7	104.4857	0.016932289	Credible Set	purple
chr7:104486022	7	104.4860	0.004611366	Credible Set	purple
chr7:104486041	7	104.4860	0.004771599	Credible Set	purple
chr7:104507724	7	104.5077	0.016806775	Credible Set	purple
chr7:104508127	7	104.5081	0.017848907	Credible Set	purple
chr7:104508173	7	104.5082	0.012718918	Credible Set	purple
chr7:104580091	7	104.5801	0.003289964	Credible Set	purple
chr7:105411752	7	105.4118	0.001502488	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume, repeat



date: Thu Oct 25 17:08:18 2018

build: F34GBS

display range: chr17:24056811–34056811 [24056811–34056811]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:29056811

number of SNPs plotted: 1034

min P-value: 1.62E–6 [chr17:29056811]

max P-value: 9.79E–1 [chr17:24180740]

omitted Genes: Tbc1d24, Ntn3, 1600002H07Rik

omitted Genes: Ccnf, Mir5134, Mir6965

omitted Genes: Abca17, Abca3, D330041H03Rik

omitted Genes: Rnps1, Eci1, Dnase1l2

omitted Genes: E4f1, Pgp, Mlst8

omitted Genes: Bricd5, Caskin1, Traf7

omitted Genes: Rab26os, Rab26, Pkd1

omitted Genes: Tsc2, Nthl1, Slc9a3r2

omitted Genes: Npw, Zfp598, Syngn3

omitted Genes: Gfer, Noxo1, Tbl3

omitted Genes: Rnf151, Snhg9, Snora78

omitted Genes: Rps2, Snora64, Ndubf10

omitted Genes: Rpl3l, Msrb1, Hs3st6

omitted Genes: Meib1, Fahd1, Hagl

omitted Genes: Igfbp3, Nubp2, Spsb3

omitted Genes: Eme2, Mrps34, Nme3

omitted Genes: Mapk8ip3, Cramp1l, Tmem204

omitted Genes: Telo2, Clcn7, Ccdc154

omitted Genes: BC003965, Gnptg, Tsr3

omitted Genes: Baiap3, Mir3547, Ube2i

omitted Genes: Gm17801, Prss34, Prss28

omitted Genes: Prss29, Tpsab1, Tpsb2

omitted Genes: Tpsg1, Cacna1h, Tekt4

omitted Genes: Sstr5, 2810468N07Rik, Lmf1

omitted Genes: Gng13, Chtf18, Rpusd1

omitted Genes: Hagl, Mir6966, Ccdc78

omitted Genes: Fam173a, Metrnl, Fbxl16

omitted Genes: Wdr24, Jmjd8, Stub1

omitted Genes: Mir3082, Rhbdl1, Rhot2

omitted Genes: Wdr90, Fam195a, 0610011F06Rik

omitted Genes: Wfikkn1, Rab40a, Gm10012

omitted Genes: Pigg, Nhlh4, Ccnp15

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

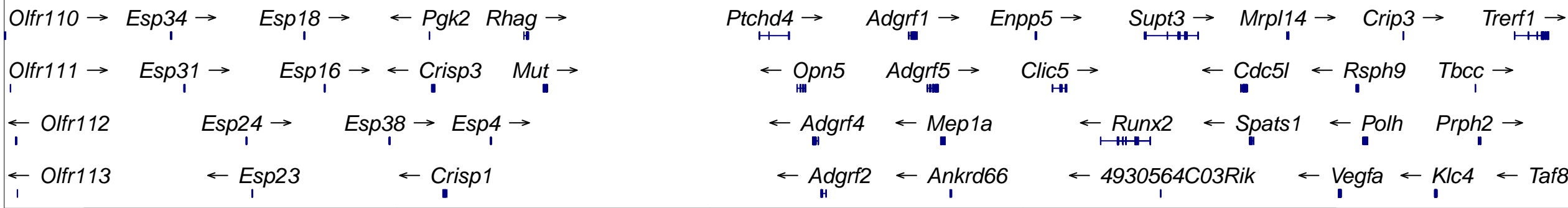
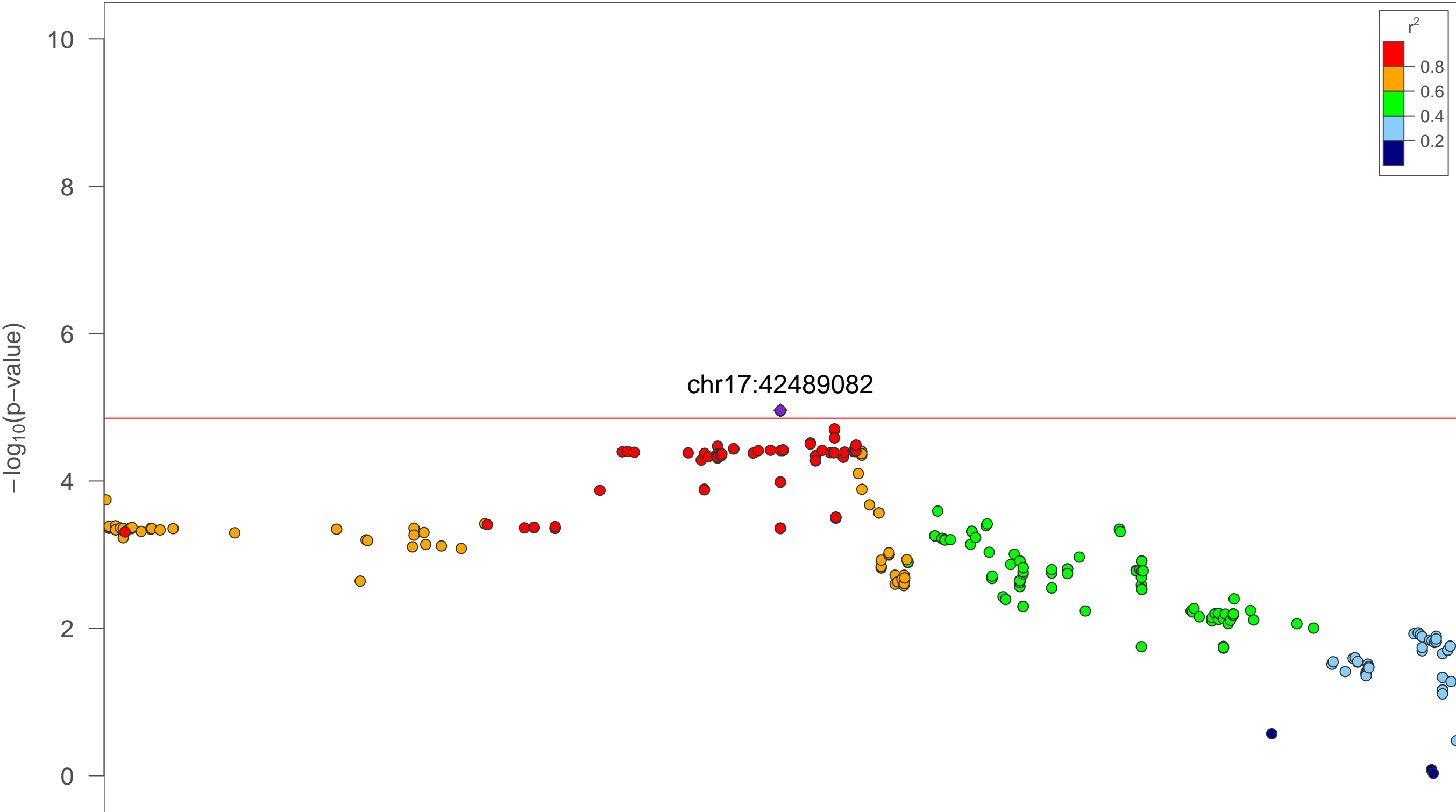
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:28761178	17	28.76118	0.039188938	Credible Set	purple
chr17:28863817	17	28.86382	0.040517206	Credible Set	purple
chr17:28878343	17	28.87834	0.031303527	Credible Set	purple
chr17:28881088	17	28.88109	0.023421851	Credible Set	purple
chr17:28881365	17	28.88136	0.014063971	Credible Set	purple
chr17:28881407	17	28.88141	0.014064568	Credible Set	purple
chr17:28881418	17	28.88142	0.013837047	Credible Set	purple
chr17:28898789	17	28.89879	0.017992089	Credible Set	purple
chr17:28902111	17	28.90211	0.014593218	Credible Set	purple
chr17:28902126	17	28.90213	0.014663526	Credible Set	purple
chr17:28905249	17	28.90525	0.018805268	Credible Set	purple
chr17:28948304	17	28.94830	0.028528967	Credible Set	purple
chr17:29056811	17	29.05681	0.081720674	Credible Set	purple
chr17:29056940	17	29.05694	0.032169094	Credible Set	purple
chr17:29057099	17	29.05710	0.026402913	Credible Set	purple
chr17:29063670	17	29.06367	0.034972664	Credible Set	purple
chr17:29098722	17	29.09872	0.039188938	Credible Set	purple
chr17:29115818	17	29.11582	0.039188938	Credible Set	purple
chr17:29118933	17	29.11893	0.055623342	Credible Set	purple
chr17:29119041	17	29.11904	0.040175332	Credible Set	purple
chr17:29119131	17	29.11913	0.039139174	Credible Set	purple
chr17:29170505	17	29.17050	0.045422919	Credible Set	purple
chr17:29213919	17	29.21392	0.050655738	Credible Set	purple
chr17:29213920	17	29.21392	0.049427962	Credible Set	purple
chr17:29241654	17	29.24165	0.033809733	Credible Set	purple
chr17:29250546	17	29.25055	0.043869269	Credible Set	purple
chr17:29271835	17	29.27183	0.036699318	Credible Set	purple
chr17:29290714	17	29.29071	0.034151497	Credible Set	purple
chr17:29319189	17	29.31919	0.003470127	Credible Set	purple
chr17:29334046	17	29.33405	0.002703281	Credible Set	purple
chr17:29362178	17	29.36218	0.001526830	Credible Set	purple
chr17:29377491	17	29.37749	0.001550025	Credible Set	purple
chr17:29378435	17	29.37843	0.001550025	Credible Set	purple
chr17:29378474	17	29.37847	0.001557110	Credible Set	purple
chr17:29378507	17	29.37851	0.001560914	Credible Set	purple
chr17:29378548	17	29.37855	0.001563726	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:29393566	17	29.39357	0.001618165	Credible Set	purple
chr17:29395215	17	29.39522	0.001405790	Credible Set	purple
chr17:29395231	17	29.39523	0.001457827	Credible Set	purple
chr17:29398643	17	29.39864	0.001529801	Credible Set	purple
chr17:29415986	17	29.41599	0.001550025	Credible Set	purple
chr17:29531394	17	29.53139	0.001550025	Credible Set	purple
chr17:29553602	17	29.55360	0.001603443	Credible Set	purple
chr17:29554963	17	29.55496	0.001515483	Credible Set	purple
chr17:29555542	17	29.55554	0.001524576	Credible Set	purple
chr17:29555787	17	29.55579	0.001593175	Credible Set	purple
chr17:29667798	17	29.66780	0.001496360	Credible Set	purple
chr17:29712556	17	29.71256	0.001518835	Credible Set	purple
chr17:29714755	17	29.71476	0.001408293	Credible Set	purple
chr17:29811310	17	29.81131	0.001443688	Credible Set	purple

F34 GBS, retic parameters mean reticulocyte volume, repeat



98 genes
omitted

date: Thu Oct 25 17:08:28 2018

build: F34GBS

display range: chr17:37489082–47489082 [37489082–47489082]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:42489082

number of SNPs plotted: 292

min P-value: 1.1E–5 [chr17:42489082]

max P-value: 9.26E–1 [chr17:47315006]

omitted Genes: Olfr114, Olfr115, Olfr116

omitted Genes: Olfr117, Olfr118, Olfr119

omitted Genes: Olfr120, Olfr121, Olfr122

omitted Genes: Olfr123, Olfr124, Olfr125

omitted Genes: Olfr126, Olfr127, Olfr128

omitted Genes: Olfr761, Olfr129, Olfr130

omitted Genes: Olfr131, Olfr132, Olfr133

omitted Genes: Olfr134, Olfr135, Olfr138

omitted Genes: Olfr137, Olfr136, Esp36

omitted Genes: Esp15, Esp8, Esp6

omitted Genes: Gm44501, Esp5, Esp3

omitted Genes: Esp1, Crisp2, 9130008F23Rik

omitted Genes: Glyatl3, Cenpq, Cd2ap

omitted Genes: Tnfrsf21, E130008D07Rik, Pla2g7

omitted Genes: 1700071M16Rik, Tdrd6, Slc25a27

omitted Genes: Cyp39a1, Rcan2, Enpp4

omitted Genes: B230354K17Rik, Aars2, Tcte1

omitted Genes: Tmem151b, Nfkbie, Slc35b2

omitted Genes: Hsp90ab1, Slc29a1, Gm7325

omitted Genes: Capn11, Tmem63b, 1600014C23Rik

omitted Genes: Mrps18a, Mad2l1bp, Gtpbp2

omitted Genes: Xpo5, Mir693, Polr1c

omitted Genes: Yipf3, Lrrc73, Tjap1

omitted Genes: Dlk2, Abcc10, Zfp318

omitted Genes: Slc22a7, Ttbk1, Dnph1

omitted Genes: Cul9, Srf, Mir6976

omitted Genes: Ptk7, Mrpl2, Cul7

omitted Genes: Rrp36, Klhdc3, Mea1

omitted Genes: Ppp2r5d, Pex6, Gnmt

omitted Genes: Cnpy3, Ptcra, 2310039H08Rik

omitted Genes: Rpl7l1, Gltscr1, Mllp2

omitted Genes: Mrps10, Guca1b, Guca1a

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

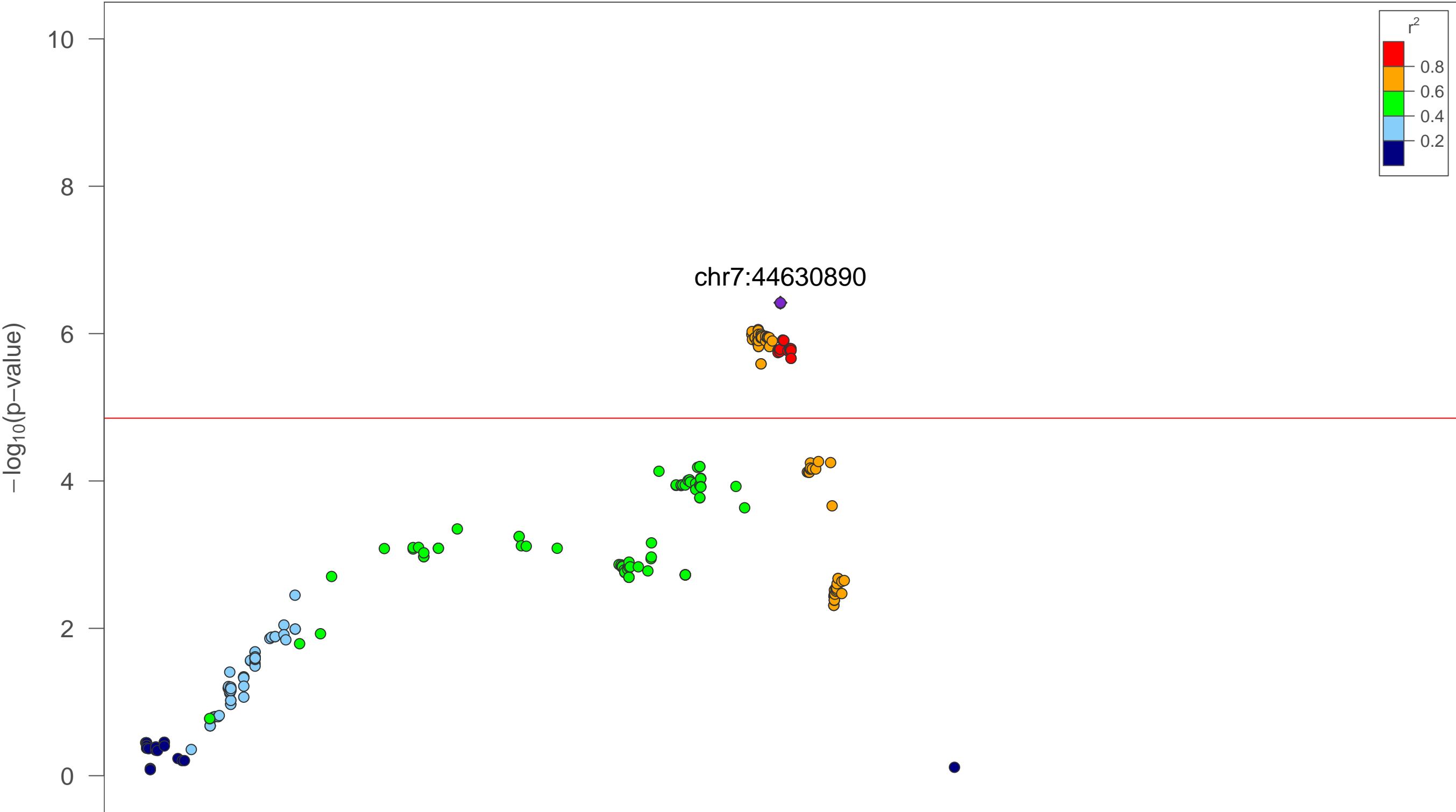
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:40322995	17	40.32299	0.001925994	Credible Set	purple
chr17:40596316	17	40.59632	0.001747708	Credible Set	purple
chr17:40668615	17	40.66862	0.001767481	Credible Set	purple
chr17:40668642	17	40.66864	0.001767481	Credible Set	purple
chr17:40668650	17	40.66865	0.001767481	Credible Set	purple
chr17:40823871	17	40.82387	0.001728030	Credible Set	purple
chr17:40824165	17	40.82417	0.001813987	Credible Set	purple
chr17:41154429	17	41.15443	0.005256147	Credible Set	purple
chr17:41320112	17	41.32011	0.016393635	Credible Set	purple
chr17:41359808	17	41.35981	0.016568127	Credible Set	purple
chr17:41409714	17	41.40971	0.016183259	Credible Set	purple
chr17:41806772	17	41.80677	0.015882965	Credible Set	purple
chr17:41903568	17	41.90357	0.012834321	Credible Set	purple
chr17:41926884	17	41.92688	0.005444641	Credible Set	purple
chr17:41926899	17	41.92690	0.005334929	Credible Set	purple
chr17:41928375	17	41.92838	0.015676900	Credible Set	purple
chr17:41956148	17	41.95615	0.014177500	Credible Set	purple
chr17:42013920	17	42.01392	0.014708796	Credible Set	purple
chr17:42023895	17	42.02390	0.013943435	Credible Set	purple
chr17:42024466	17	42.02447	0.013623376	Credible Set	purple
chr17:42024515	17	42.02452	0.019357133	Credible Set	purple
chr17:42024583	17	42.02458	0.019312048	Credible Set	purple
chr17:42024700	17	42.02470	0.015320345	Credible Set	purple
chr17:42024755	17	42.02475	0.014674524	Credible Set	purple
chr17:42024810	17	42.02481	0.014743765	Credible Set	purple
chr17:42025311	17	42.02531	0.014105814	Credible Set	purple
chr17:42050395	17	42.05040	0.014971741	Credible Set	purple
chr17:42050673	17	42.05067	0.014596565	Credible Set	purple
chr17:42056191	17	42.05619	0.015407444	Credible Set	purple
chr17:42143893	17	42.14389	0.017848640	Credible Set	purple
chr17:42143896	17	42.14390	0.018014846	Credible Set	purple
chr17:42288066	17	42.28807	0.015812708	Credible Set	purple
chr17:42325798	17	42.32580	0.016958613	Credible Set	purple
chr17:42416069	17	42.41607	0.017164316	Credible Set	purple
chr17:42488210	17	42.48821	0.001731401	Credible Set	purple
chr17:42488216	17	42.48822	0.001728455	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:42488241	17	42.48824	0.001738098	Credible Set	purple
chr17:42488701	17	42.48870	0.006698897	Credible Set	purple
chr17:42488808	17	42.48881	0.006713565	Credible Set	purple
chr17:42488822	17	42.48882	0.006699569	Credible Set	purple
chr17:42489082	17	42.48908	0.056233892	Credible Set	purple
chr17:42489130	17	42.48913	0.055350303	Credible Set	purple
chr17:42489886	17	42.48989	0.016997208	Credible Set	purple
chr17:42508272	17	42.50827	0.017063167	Credible Set	purple
chr17:42508276	17	42.50828	0.017063167	Credible Set	purple
chr17:42508349	17	42.50835	0.017412448	Credible Set	purple
chr17:42710063	17	42.71006	0.021358708	Credible Set	purple
chr17:42710132	17	42.71013	0.020640815	Credible Set	purple
chr17:42748429	17	42.74843	0.014648457	Credible Set	purple
chr17:42748810	17	42.74881	0.012528564	Credible Set	purple
chr17:42748868	17	42.74887	0.012720279	Credible Set	purple
chr17:42798191	17	42.79819	0.017098002	Credible Set	purple
chr17:42857918	17	42.85792	0.015971822	Credible Set	purple
chr17:42879412	17	42.87941	0.015951100	Credible Set	purple
chr17:42888048	17	42.88805	0.015954438	Credible Set	purple
chr17:42888694	17	42.88869	0.031411853	Credible Set	purple
chr17:42888751	17	42.88875	0.032480984	Credible Set	purple
chr17:42888758	17	42.88876	0.024729093	Credible Set	purple
chr17:42898383	17	42.89838	0.002394195	Credible Set	purple
chr17:42898392	17	42.89839	0.002318784	Credible Set	purple
chr17:42898421	17	42.89842	0.002388373	Credible Set	purple
chr17:42953111	17	42.95311	0.013939538	Credible Set	purple
chr17:42963409	17	42.96341	0.016270304	Credible Set	purple
chr17:43026300	17	43.02630	0.016705390	Credible Set	purple
chr17:43026388	17	43.02639	0.016705390	Credible Set	purple
chr17:43037723	17	43.03772	0.016470016	Credible Set	purple
chr17:43047345	17	43.04734	0.016767498	Credible Set	purple
chr17:43047599	17	43.04760	0.019782062	Credible Set	purple
chr17:43047622	17	43.04762	0.020063233	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin concentration mean, repeat



Credible Set

4933402C06Rik → ← Vmn2r58 ← Vmn2r62 ← Cd33 Klk1b3 → Il4i1 → Ntf5 → Nomo1 → ← Saa1 ← Mrgpra3 ← Mrgprb1 Nav2 →
← A230077H06Rik ← Vmn2r59 ← Vmn2r63 Ctu1 → ← Acpt ← Atf5 Hrc → ← Emp3 ← Tph1 ← Mrgpra2a Mrgprb8 →
Vstm2b → Vmn2r60 → Gm9268 → Klk12 → Syt3 → Irf3 → Bcat2 → Otog → Ldhc → ← Mrgpra4 ← Csrp3
4930433I11Rik → Vmn2r61 → Zfp936 → Klk6 → Lrrc4b → ← Fcgrt Ntn5 → Munc → ← Ptpn5 ← Mrgprx1 ← E2f8

197 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:09:29 2018

build: F34GBS

display range: chr7:39630890–49630890 [39630890–49630890]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44630890

number of SNPs plotted: 247

min P-value: 3.81E–7 [chr7:44630890]

max P-value: 8.26E–1 [chr7:39972874]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

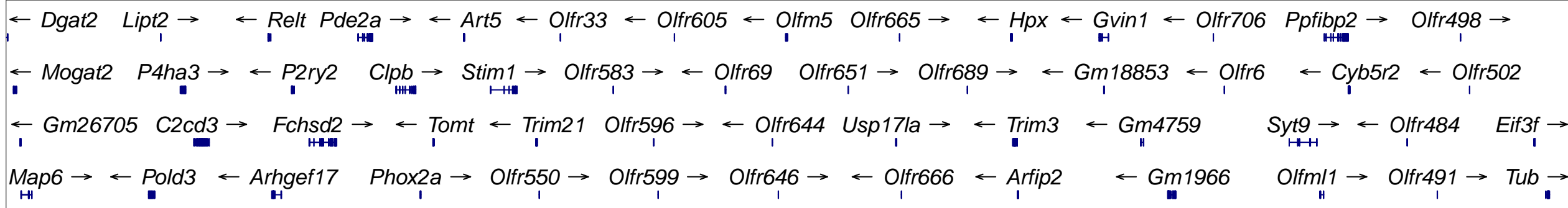
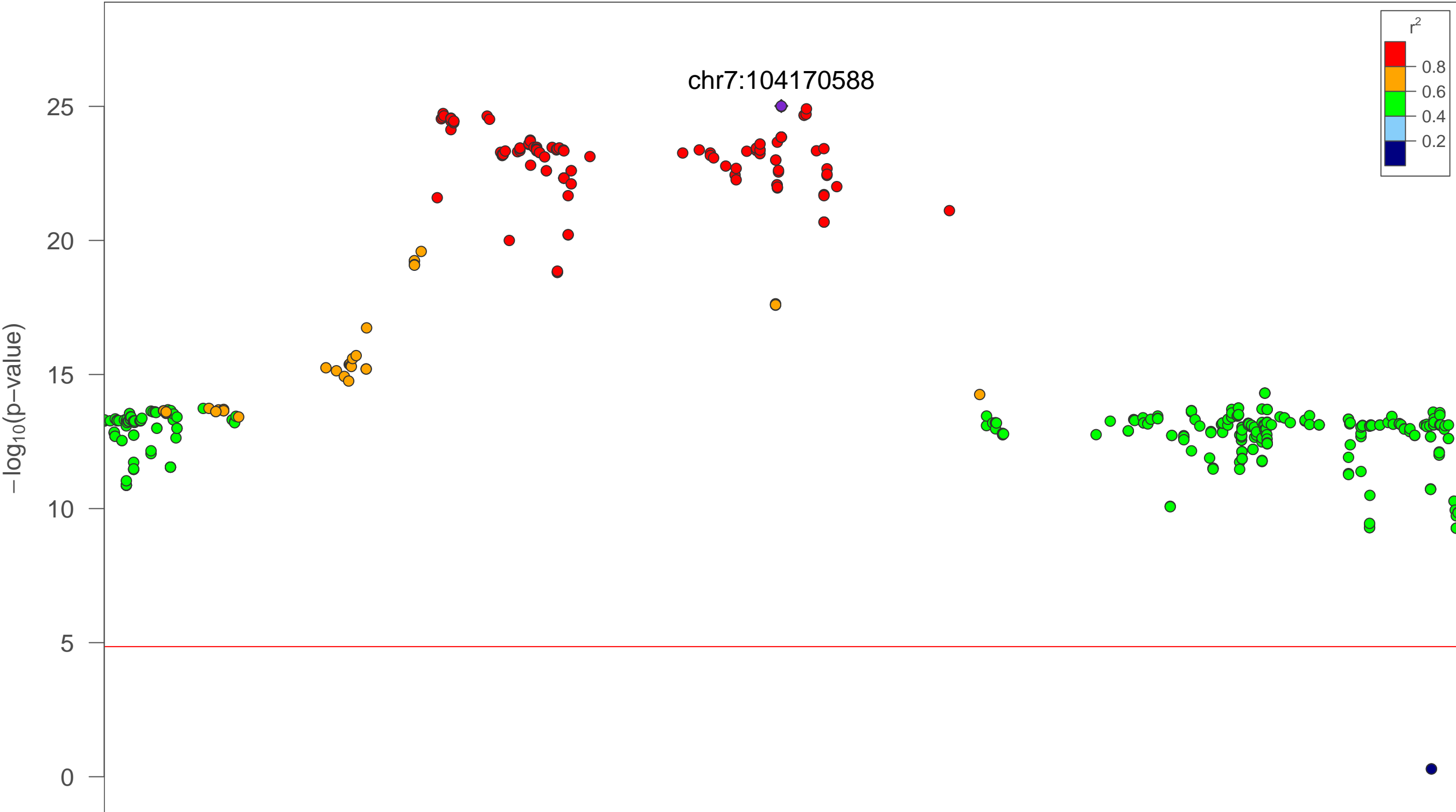
omitted Genes: Gm15545, Rpl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44612740	7	44.61274	0.04036894	Credible Set	purple
chr7:44613080	7	44.61308	0.03742242	Credible Set	purple
chr7:44623189	7	44.62319	0.04048152	Credible Set	purple
chr7:44625757	7	44.62576	0.03838420	Credible Set	purple
chr7:44628444	7	44.62844	0.04138907	Credible Set	purple
chr7:44630865	7	44.63087	0.16463846	Credible Set	purple
chr7:44630890	7	44.63089	0.16806321	Credible Set	purple
chr7:44647914	7	44.64791	0.05468613	Credible Set	purple
chr7:44655619	7	44.65562	0.05331551	Credible Set	purple
chr7:44655640	7	44.65564	0.05403463	Credible Set	purple
chr7:44685749	7	44.68575	0.03949794	Credible Set	purple
chr7:44700610	7	44.70061	0.04246376	Credible Set	purple
chr7:44700692	7	44.70069	0.04002805	Credible Set	purple
chr7:44708823	7	44.70882	0.04002805	Credible Set	purple
chr7:44708981	7	44.70898	0.04215076	Credible Set	purple
chr7:44708990	7	44.70899	0.04006775	Credible Set	purple
chr7:44708997	7	44.70900	0.03148981	Credible Set	purple
chr7:44709016	7	44.70902	0.03148981	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin concentration mean, repeat



276 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:09:16 2018

build: F34GBS

display range: chr7:99170588–109170588 [99170588–109170588]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:104170588

number of SNPs plotted: 464

min P-value: 9.7E–26 [chr7:104170588]

max P-value: 5.14E–1 [chr7:108970724]

omitted Genes: Serpinh1, Gdpd5, Khlh35

omitted Genes: Rps3, Snord15b, Snord15a

omitted Genes: Arrb1, Mir326, Tpbgl

omitted Genes: Slco2b1, Olfr520, Olfr521

omitted Genes: Neu3, Spcs2, Xrra1

omitted Genes: Rnf169, Chrdl2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, Ppme1

omitted Genes: Ucp3, Ucp2, Dnajb13

omitted Genes: Coa4, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Fam168a, Mir3102

omitted Genes: P2ry6, Atg16l2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Art2b, Inpp1, Folr2

omitted Genes: Folr1, Anapc15, Lamtor1

omitted Genes: Lrrc51, Numa1, Il18bp

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr78, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

omitted Genes: Olfr578, Olfr582, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

omitted Genes: Olfr594, Ucp17ld, Olfr597

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.027801217	Credible Set	purple
chr7:101669186	7	101.6692	0.031049930	Credible Set	purple
chr7:101673483	7	101.6735	0.043524010	Credible Set	purple
chr7:101680140	7	101.6801	0.035559081	Credible Set	purple
chr7:101731061	7	101.7311	0.029442197	Credible Set	purple
chr7:101731110	7	101.7311	0.022726636	Credible Set	purple
chr7:101731130	7	101.7311	0.011029991	Credible Set	purple
chr7:101731658	7	101.7317	0.028189047	Credible Set	purple
chr7:101751790	7	101.7518	0.019767205	Credible Set	purple
chr7:101752580	7	101.7526	0.022135716	Credible Set	purple
chr7:101752971	7	101.7530	0.022819663	Credible Set	purple
chr7:101998679	7	101.9987	0.034974170	Credible Set	purple
chr7:102016307	7	102.0163	0.026659422	Credible Set	purple
chr7:102098054	7	102.0981	0.001606431	Credible Set	purple
chr7:102110109	7	102.1101	0.001218167	Credible Set	purple
chr7:102110501	7	102.1105	0.001359069	Credible Set	purple
chr7:102116318	7	102.1163	0.001317094	Credible Set	purple
chr7:102116430	7	102.1164	0.001317094	Credible Set	purple
chr7:102116478	7	102.1165	0.001341070	Credible Set	purple
chr7:102132562	7	102.1326	0.001789863	Credible Set	purple
chr7:102223396	7	102.2234	0.001684376	Credible Set	purple
chr7:102240695	7	102.2407	0.001845753	Credible Set	purple
chr7:102241191	7	102.2412	0.002162235	Credible Set	purple
chr7:102241211	7	102.2412	0.002304696	Credible Set	purple
chr7:102241212	7	102.2412	0.002300427	Credible Set	purple
chr7:102306968	7	102.3070	0.003118473	Credible Set	purple
chr7:102306978	7	102.3070	0.003347757	Credible Set	purple
chr7:102317213	7	102.3172	0.004528046	Credible Set	purple
chr7:102317246	7	102.3172	0.004161109	Credible Set	purple
chr7:102344970	7	102.3450	0.002447528	Credible Set	purple
chr7:102363897	7	102.3639	0.001811027	Credible Set	purple
chr7:102364204	7	102.3642	0.001991464	Credible Set	purple
chr7:102364223	7	102.3642	0.002469608	Credible Set	purple
chr7:102364315	7	102.3643	0.002114340	Credible Set	purple
chr7:102364326	7	102.3643	0.002114340	Credible Set	purple
chr7:102364411	7	102.3644	0.001962401	Credible Set	purple

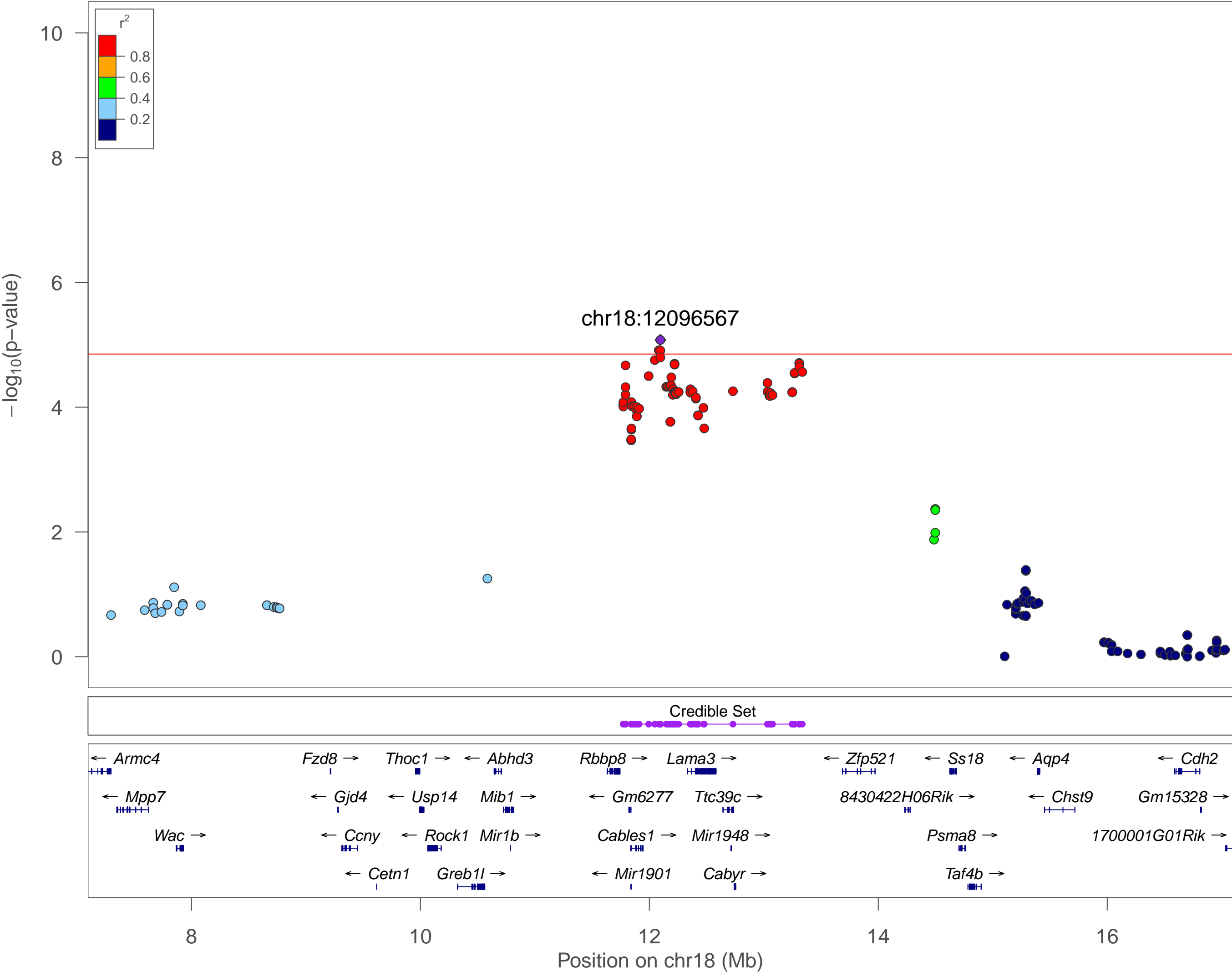
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102385520	7	102.3855	0.001560069	Credible Set	purple
chr7:102385536	7	102.3855	0.001573554	Credible Set	purple
chr7:102423165	7	102.4232	0.001084442	Credible Set	purple
chr7:102478469	7	102.4785	0.002439839	Credible Set	purple
chr7:102510475	7	102.5105	0.002079327	Credible Set	purple
chr7:102510607	7	102.5106	0.001969508	Credible Set	purple
chr7:102516878	7	102.5169	0.002144741	Credible Set	purple
chr7:102531652	7	102.5317	0.002332695	Credible Set	purple
chr7:102561708	7	102.5617	0.001958134	Credible Set	purple
chr7:102565410	7	102.5654	0.001808287	Credible Set	purple
chr7:102757499	7	102.7575	0.001115733	Credible Set	purple
chr7:103442570	7	103.4426	0.001511749	Credible Set	purple
chr7:103564836	7	103.5648	0.001968672	Credible Set	purple
chr7:103646439	7	103.6464	0.001519819	Credible Set	purple
chr7:103646709	7	103.6467	0.001225704	Credible Set	purple
chr7:103915503	7	103.9155	0.001757102	Credible Set	purple
chr7:103986792	7	103.9868	0.001891418	Credible Set	purple
chr7:103986795	7	103.9868	0.001891418	Credible Set	purple
chr7:103986857	7	103.9869	0.002271127	Credible Set	purple
chr7:103986860	7	103.9869	0.002271127	Credible Set	purple
chr7:104012808	7	104.0128	0.001422940	Credible Set	purple
chr7:104013370	7	104.0134	0.001937644	Credible Set	purple
chr7:104013395	7	104.0134	0.001946171	Credible Set	purple
chr7:104013467	7	104.0135	0.003250796	Credible Set	purple
chr7:104141343	7	104.1413	0.003794442	Credible Set	purple
chr7:104170479	7	104.1705	0.005874467	Credible Set	purple
chr7:104170506	7	104.1705	0.005802691	Credible Set	purple
chr7:104170518	7	104.1705	0.005834985	Credible Set	purple
chr7:104170522	7	104.1705	0.005815978	Credible Set	purple
chr7:104170543	7	104.1705	0.005836372	Credible Set	purple
chr7:104170588	7	104.1706	0.082301601	Credible Set	purple
chr7:104170594	7	104.1706	0.081799969	Credible Set	purple
chr7:104170618	7	104.1706	0.079054313	Credible Set	purple
chr7:104170662	7	104.1707	0.079054313	Credible Set	purple
chr7:104338784	7	104.3388	0.037642915	Credible Set	purple
chr7:104338810	7	104.3388	0.037589759	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104353491	7	104.3535	0.040828316	Credible Set	purple
chr7:104356230	7	104.3562	0.064752467	Credible Set	purple
chr7:104430205	7	104.4302	0.001824304	Credible Set	purple
chr7:104485236	7	104.4852	0.002191823	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin concentration mean, repeat



date: Thu Oct 25 17:09:01 2018

build: F34GBS

display range: chr18:7096567–17096567 [7096567–17096567]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:12096567

number of SNPs plotted: 193

min P-value: 8.35E–6 [chr18:12096567]

max P-value: 9.99E–1 [chr18:16699294]

omitted Genes: Colec12, Esco1, Snrpd1

omitted Genes: 4930563E18Rik, Mir133a–1, Mir1a–2

omitted Genes: 1010001N08Rik, Gata6, Tmem241

omitted Genes: Riok3, 3110002H16Rik, Npc1

omitted Genes: Ankrd29, Osbp1a, Impact

omitted Genes: Hrh4, Kctd1, 4933424G05Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:11772906	18	11.77291	0.006021185	Credible Set	purple
chr18:11772936	18	11.77294	0.006021185	Credible Set	purple
chr18:11773024	18	11.77302	0.005824685	Credible Set	purple
chr18:11773062	18	11.77306	0.006746175	Credible Set	purple
chr18:11792180	18	11.79218	0.008775780	Credible Set	purple
chr18:11792281	18	11.79228	0.024634261	Credible Set	purple
chr18:11792295	18	11.79229	0.011480610	Credible Set	purple
chr18:11841074	18	11.84107	0.006244823	Credible Set	purple
chr18:11843471	18	11.84347	0.002693669	Credible Set	purple
chr18:11843539	18	11.84354	0.002718494	Credible Set	purple
chr18:11843691	18	11.84369	0.006799667	Credible Set	purple
chr18:11849087	18	11.84909	0.005863858	Credible Set	purple
chr18:11868302	18	11.86830	0.005950931	Credible Set	purple
chr18:11868573	18	11.86857	0.005835239	Credible Set	purple
chr18:11884565	18	11.88457	0.005253571	Credible Set	purple
chr18:11888824	18	11.88882	0.005746699	Credible Set	purple
chr18:11890738	18	11.89074	0.004179073	Credible Set	purple
chr18:11890742	18	11.89074	0.004133836	Credible Set	purple
chr18:11910882	18	11.91088	0.005415126	Credible Set	purple
chr18:11994328	18	11.99433	0.016922237	Credible Set	purple
chr18:12047734	18	12.04773	0.029654538	Credible Set	purple
chr18:12082652	18	12.08265	0.041930306	Credible Set	purple
chr18:12095502	18	12.09550	0.041391823	Credible Set	purple
chr18:12095506	18	12.09551	0.041537419	Credible Set	purple
chr18:12096567	18	12.09657	0.060323772	Credible Set	purple
chr18:12096649	18	12.09665	0.032626185	Credible Set	purple
chr18:12147962	18	12.14796	0.011623939	Credible Set	purple
chr18:12159851	18	12.15985	0.011641308	Credible Set	purple
chr18:12166070	18	12.16607	0.011794411	Credible Set	purple
chr18:12183803	18	12.18380	0.003432600	Credible Set	purple
chr18:12183818	18	12.18382	0.003432600	Credible Set	purple
chr18:12183819	18	12.18382	0.003432600	Credible Set	purple
chr18:12183957	18	12.18396	0.012010534	Credible Set	purple
chr18:12188720	18	12.18872	0.012321028	Credible Set	purple
chr18:12192191	18	12.19219	0.016185138	Credible Set	purple
chr18:12205743	18	12.20574	0.008773730	Credible Set	purple

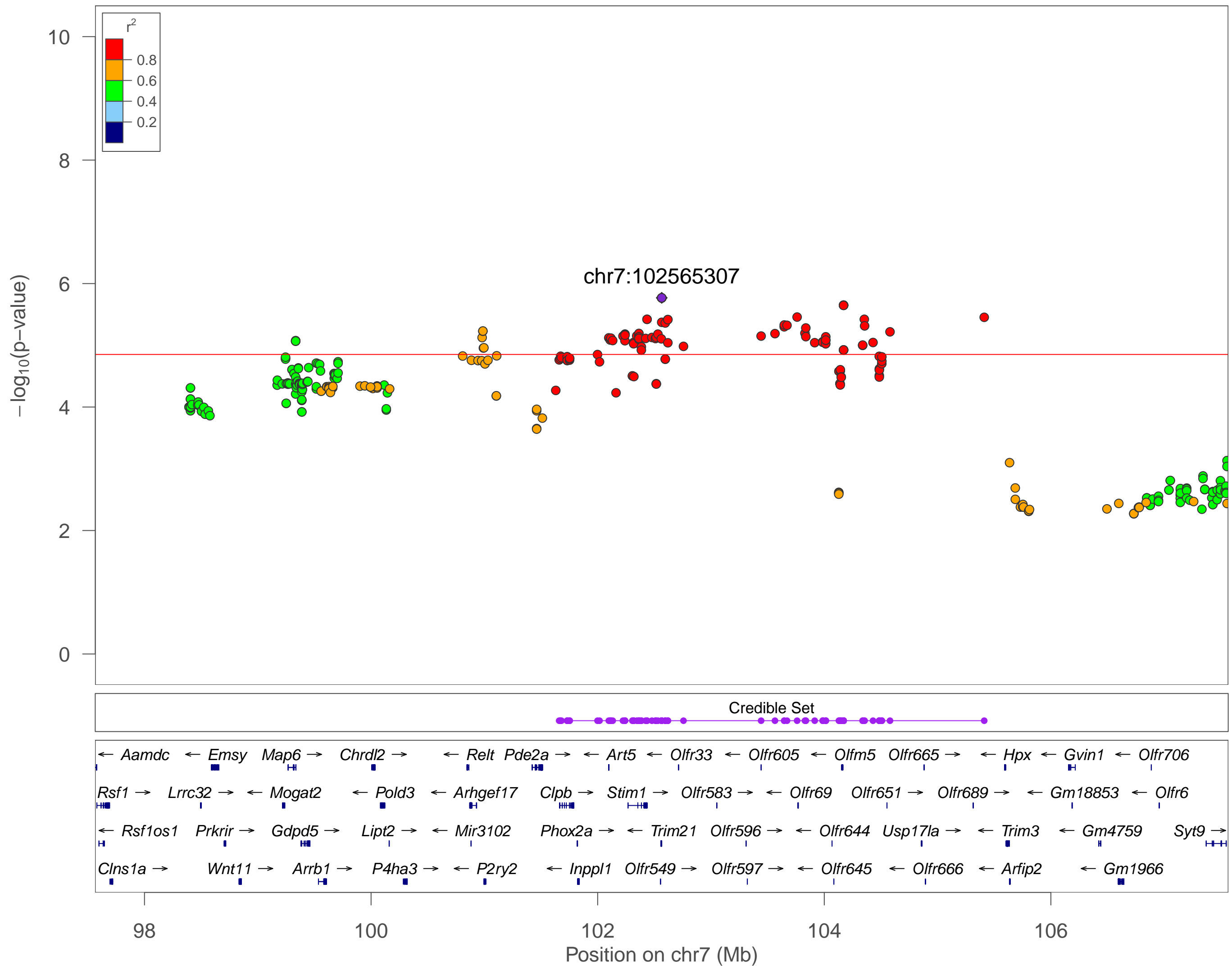
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:12209149	18	12.20915	0.010651880	Credible Set	purple
chr18:12209157	18	12.20916	0.010651880	Credible Set	purple
chr18:12220479	18	12.22048	0.025270426	Credible Set	purple
chr18:12220534	18	12.22053	0.026067156	Credible Set	purple
chr18:12220537	18	12.22054	0.025472409	Credible Set	purple
chr18:12220581	18	12.22058	0.009689983	Credible Set	purple
chr18:12228637	18	12.22864	0.009765648	Credible Set	purple
chr18:12232882	18	12.23288	0.008945730	Credible Set	purple
chr18:12232913	18	12.23291	0.008943798	Credible Set	purple
chr18:12232928	18	12.23293	0.008943798	Credible Set	purple
chr18:12232935	18	12.23293	0.008943798	Credible Set	purple
chr18:12233114	18	12.23311	0.009390026	Credible Set	purple
chr18:12233710	18	12.23371	0.009688850	Credible Set	purple
chr18:12233723	18	12.23372	0.009167282	Credible Set	purple
chr18:12256132	18	12.25613	0.009693287	Credible Set	purple
chr18:12358152	18	12.35815	0.009697208	Credible Set	purple
chr18:12359533	18	12.35953	0.010684856	Credible Set	purple
chr18:12359979	18	12.35998	0.009429262	Credible Set	purple
chr18:12378538	18	12.37854	0.009933191	Credible Set	purple
chr18:12406944	18	12.40694	0.007668154	Credible Set	purple
chr18:12406948	18	12.40695	0.008005364	Credible Set	purple
chr18:12425352	18	12.42535	0.004307831	Credible Set	purple
chr18:12425400	18	12.42540	0.004253809	Credible Set	purple
chr18:12473083	18	12.47308	0.005566343	Credible Set	purple
chr18:12479736	18	12.47974	0.002725865	Credible Set	purple
chr18:12730645	18	12.73065	0.009953065	Credible Set	purple
chr18:13032150	18	13.03215	0.013298070	Credible Set	purple
chr18:13032510	18	13.03251	0.009773893	Credible Set	purple
chr18:13049016	18	13.04902	0.008479338	Credible Set	purple
chr18:13049169	18	13.04917	0.008908733	Credible Set	purple
chr18:13053875	18	13.05387	0.008425772	Credible Set	purple
chr18:13058650	18	13.05865	0.009346800	Credible Set	purple
chr18:13076442	18	13.07644	0.008689557	Credible Set	purple
chr18:13248719	18	13.24872	0.009578204	Credible Set	purple
chr18:13248733	18	13.24873	0.009684267	Credible Set	purple
chr18:13248742	18	13.24874	0.009578879	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:13269113	18	13.26911	0.01849536	Credible Set	purple
chr18:13269114	18	13.26911	0.01892845	Credible Set	purple
chr18:13309638	18	13.30964	0.02681659	Credible Set	purple
chr18:13310189	18	13.31019	0.02614172	Credible Set	purple
chr18:13310299	18	13.31030	0.02332506	Credible Set	purple
chr18:13335693	18	13.33569	0.01955042	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:09:52 2018

build: F34GBS

display range: chr7:97565307–107565307 [97565307–107565307]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:102565307

number of SNPs plotted: 328

min P-value: 1.7E–6 [chr7:102565307]

max P-value: 5.37E–3 [chr7:106732278]

omitted Genes: Aqp11, Pak1, Gdpd4

omitted Genes: Myo7a, Capn5, Omp

omitted Genes: Gm16938, B3gnt6, Acer3

omitted Genes: Tsku, Gucy2d, Uvrag

omitted Genes: Dgat2, Gm26705, Serpinh1

omitted Genes: Kihl35, Rps3, Snord15b

omitted Genes: Snord15a, Mir326, Tpbgl

omitted Genes: Slco2b1, Olfr520, Olfr521

omitted Genes: Neu3, Spcs2, Xrra1

omitted Genes: Rnf169, Kcne3, Pgm2l1

omitted Genes: Gpx2-ps1, Ppme1, C2cd3

omitted Genes: Ucp3, Ucp2, Dnajb13

omitted Genes: Coa4, Mrpl48, Rab6a

omitted Genes: Plekhhb1, Fam168a, P2ry6

omitted Genes: Fchsd2, Atg16l2, Stard10

omitted Genes: Arap1, Mir139, Art2a-ps

omitted Genes: Art2b, Folr2, Folr1

omitted Genes: Anapc15, Tomt, Lamtor1

omitted Genes: Lrrc51, Numa1, Il18bp

omitted Genes: Rnf121, Xndc1, Xntrpc

omitted Genes: Trpc2, Art1, Chrna10

omitted Genes: Nup98, Pgap2, Rhog

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr550

omitted Genes: Olfr551, Olfr552, Olfr553

omitted Genes: Olfr554, Olfr555, Olfr556

omitted Genes: Trim68, Olfr557, Olfr558

omitted Genes: Olfr559, Olfr78, Olfr560

omitted Genes: Olfr561, Olfr564, Olfr566

omitted Genes: Olfr568, Olfr569, Olfr570

omitted Genes: Olfr571, Olfr572, Olfr573, Olfr574

omitted Genes: Olfr575, Olfr576, Olfr577

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101660383	7	101.6604	0.003627064	Credible Set	purple
chr7:101669186	7	101.6692	0.003798908	Credible Set	purple
chr7:101673483	7	101.6735	0.004132179	Credible Set	purple
chr7:101680140	7	101.6801	0.003933425	Credible Set	purple
chr7:101731061	7	101.7311	0.003544125	Credible Set	purple
chr7:101731110	7	101.7311	0.003750966	Credible Set	purple
chr7:101731130	7	101.7311	0.004069510	Credible Set	purple
chr7:101731658	7	101.7317	0.003561151	Credible Set	purple
chr7:101751790	7	101.7518	0.003597891	Credible Set	purple
chr7:101752580	7	101.7526	0.003753693	Credible Set	purple
chr7:101752971	7	101.7530	0.003846105	Credible Set	purple
chr7:101998679	7	101.9987	0.004387980	Credible Set	purple
chr7:102016307	7	102.0163	0.003382431	Credible Set	purple
chr7:102098054	7	102.0981	0.007941011	Credible Set	purple
chr7:102110109	7	102.1101	0.007486550	Credible Set	purple
chr7:102110501	7	102.1105	0.007364089	Credible Set	purple
chr7:102116318	7	102.1163	0.007691085	Credible Set	purple
chr7:102116430	7	102.1164	0.007691085	Credible Set	purple
chr7:102116478	7	102.1165	0.007875812	Credible Set	purple
chr7:102132562	7	102.1326	0.007226850	Credible Set	purple
chr7:102223396	7	102.2234	0.008459887	Credible Set	purple
chr7:102240695	7	102.2407	0.007171970	Credible Set	purple
chr7:102241191	7	102.2412	0.009094255	Credible Set	purple
chr7:102241211	7	102.2412	0.008875089	Credible Set	purple
chr7:102241212	7	102.2412	0.008744206	Credible Set	purple
chr7:102306968	7	102.3070	0.002045277	Credible Set	purple
chr7:102306978	7	102.3070	0.002058335	Credible Set	purple
chr7:102317213	7	102.3172	0.006754915	Credible Set	purple
chr7:102317246	7	102.3172	0.006440559	Credible Set	purple
chr7:102319586	7	102.3196	0.002006137	Credible Set	purple
chr7:102344970	7	102.3450	0.008527618	Credible Set	purple
chr7:102363897	7	102.3639	0.007541180	Credible Set	purple
chr7:102364204	7	102.3642	0.008696024	Credible Set	purple
chr7:102364223	7	102.3642	0.009309070	Credible Set	purple
chr7:102364315	7	102.3643	0.008205520	Credible Set	purple
chr7:102364326	7	102.3643	0.008205520	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102364411	7	102.3644	0.007791140	Credible Set	purple
chr7:102385520	7	102.3855	0.005772189	Credible Set	purple
chr7:102385536	7	102.3855	0.005140265	Credible Set	purple
chr7:102423165	7	102.4232	0.007792384	Credible Set	purple
chr7:102435692	7	102.4357	0.015407884	Credible Set	purple
chr7:102435720	7	102.4357	0.015407884	Credible Set	purple
chr7:102478469	7	102.4785	0.008058391	Credible Set	purple
chr7:102510475	7	102.5105	0.007789352	Credible Set	purple
chr7:102510607	7	102.5106	0.007777162	Credible Set	purple
chr7:102516878	7	102.5169	0.008097979	Credible Set	purple
chr7:102531652	7	102.5317	0.009075918	Credible Set	purple
chr7:102561708	7	102.5617	0.007676879	Credible Set	purple
chr7:102565262	7	102.5653	0.033181471	Credible Set	purple
chr7:102565292	7	102.5653	0.033077596	Credible Set	purple
chr7:102565307	7	102.5653	0.033239383	Credible Set	purple
chr7:102565323	7	102.5653	0.033135343	Credible Set	purple
chr7:102565329	7	102.5653	0.033135343	Credible Set	purple
chr7:102565410	7	102.5654	0.013851517	Credible Set	purple
chr7:102596442	7	102.5964	0.013508339	Credible Set	purple
chr7:102596578	7	102.5966	0.003709545	Credible Set	purple
chr7:102596636	7	102.5966	0.003731657	Credible Set	purple
chr7:102619418	7	102.6194	0.015282756	Credible Set	purple
chr7:102619431	7	102.6194	0.015245355	Credible Set	purple
chr7:102619466	7	102.6195	0.006671488	Credible Set	purple
chr7:102757499	7	102.7575	0.005869542	Credible Set	purple
chr7:103442570	7	103.4426	0.008474361	Credible Set	purple
chr7:103564836	7	103.5648	0.009243209	Credible Set	purple
chr7:103646439	7	103.6464	0.011785582	Credible Set	purple
chr7:103646709	7	103.6467	0.012579214	Credible Set	purple
chr7:103671033	7	103.6710	0.012439283	Credible Set	purple
chr7:103760301	7	103.7603	0.016704753	Credible Set	purple
chr7:103829200	7	103.8292	0.009393752	Credible Set	purple
chr7:103837099	7	103.8371	0.011314582	Credible Set	purple
chr7:103837213	7	103.8372	0.008296113	Credible Set	purple
chr7:103915503	7	103.9155	0.006691495	Credible Set	purple
chr7:103986792	7	103.9868	0.006921892	Credible Set	purple

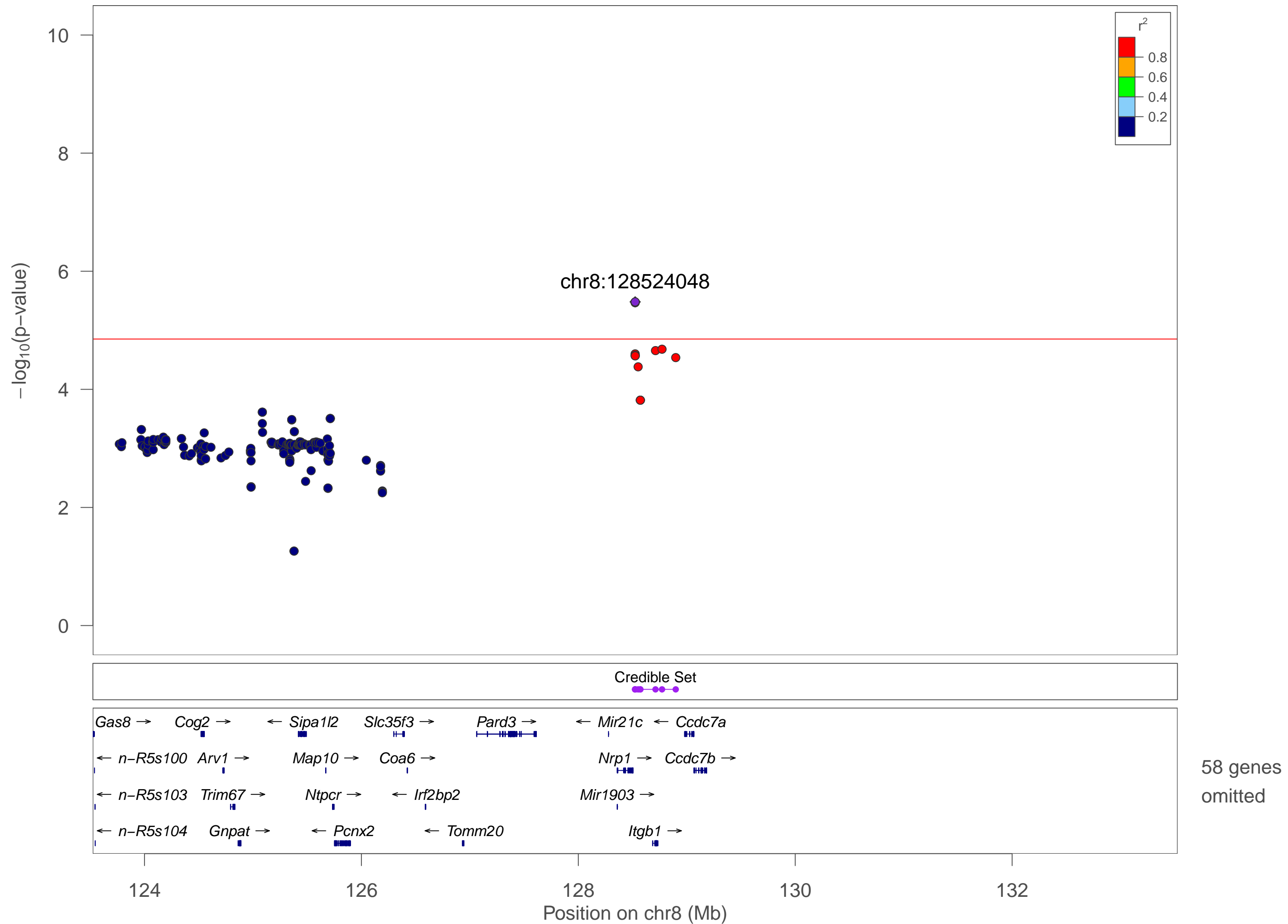
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986795	7	103.9868	0.006921892	Credible Set	purple
chr7:103986857	7	103.9869	0.006799078	Credible Set	purple
chr7:103986860	7	103.9869	0.006799078	Credible Set	purple
chr7:104012808	7	104.0128	0.006426842	Credible Set	purple
chr7:104013370	7	104.0134	0.007306969	Credible Set	purple
chr7:104013395	7	104.0134	0.008257676	Credible Set	purple
chr7:104013467	7	104.0135	0.007341014	Credible Set	purple
chr7:104129734	7	104.1297	0.002420744	Credible Set	purple
chr7:104129736	7	104.1297	0.002420744	Credible Set	purple
chr7:104138934	7	104.1389	0.001563108	Credible Set	purple
chr7:104138936	7	104.1389	0.001569981	Credible Set	purple
chr7:104138968	7	104.1390	0.001569981	Credible Set	purple
chr7:104141705	7	104.1417	0.002456362	Credible Set	purple
chr7:104141768	7	104.1418	0.002557425	Credible Set	purple
chr7:104149893	7	104.1499	0.001981653	Credible Set	purple
chr7:104149911	7	104.1499	0.001956598	Credible Set	purple
chr7:104170479	7	104.1705	0.025445446	Credible Set	purple
chr7:104170506	7	104.1705	0.025541514	Credible Set	purple
chr7:104170518	7	104.1705	0.025630712	Credible Set	purple
chr7:104170522	7	104.1705	0.025495253	Credible Set	purple
chr7:104170543	7	104.1705	0.025338308	Credible Set	purple
chr7:104170588	7	104.1706	0.005141288	Credible Set	purple
chr7:104170594	7	104.1706	0.005149984	Credible Set	purple
chr7:104170618	7	104.1706	0.005173026	Credible Set	purple
chr7:104170662	7	104.1707	0.005173026	Credible Set	purple
chr7:104338784	7	104.3388	0.006073698	Credible Set	purple
chr7:104338810	7	104.3388	0.006144848	Credible Set	purple
chr7:104353491	7	104.3535	0.015423013	Credible Set	purple
chr7:104356230	7	104.3562	0.012184128	Credible Set	purple
chr7:104430205	7	104.4302	0.006738007	Credible Set	purple
chr7:104485236	7	104.4852	0.004117339	Credible Set	purple
chr7:104485721	7	104.4857	0.002084849	Credible Set	purple
chr7:104485727	7	104.4857	0.001972437	Credible Set	purple
chr7:104486022	7	104.4860	0.002643835	Credible Set	purple
chr7:104486041	7	104.4860	0.002527621	Credible Set	purple
chr7:104507724	7	104.5077	0.003161793	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104508127	7	104.5081	0.003467483	Credible Set	purple
chr7:104508173	7	104.5082	0.004039979	Credible Set	purple
chr7:104580091	7	104.5801	0.009856371	Credible Set	purple
chr7:105411752	7	105.4118	0.016563255	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat

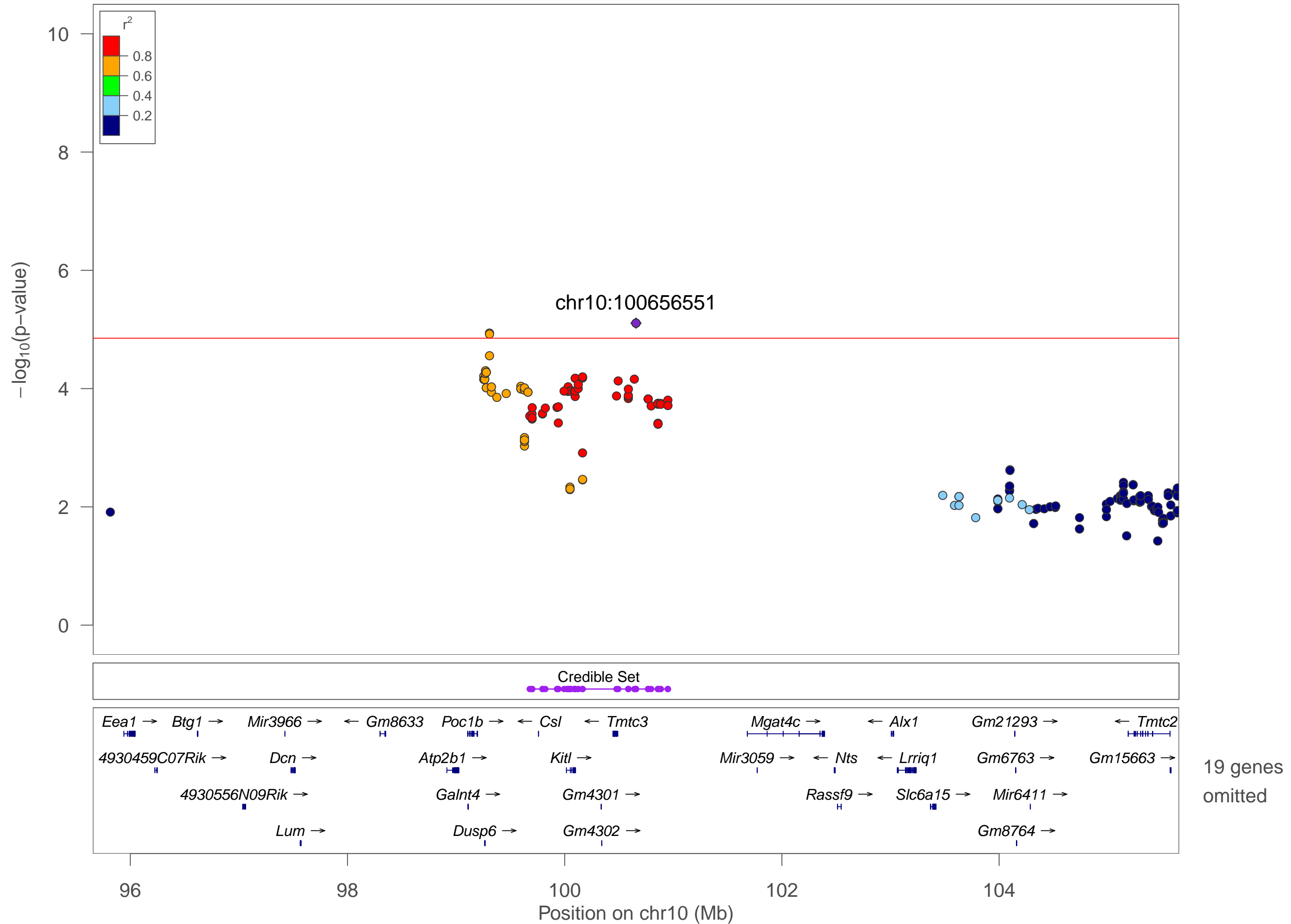


date: Thu Oct 25 17:10:03 2018
build: F34GBS
display range: chr8:123524048–133524048 [123524048–133524048]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128524048
number of SNPs plotted: 191
min P-value: 3.3E–6 [chr8:128524048]
max P-value: 5.49E–2 [chr8:125378859]
omitted Genes: n-R5s105, n-R5s108, n-R5s110
omitted Genes: n-R5s111, n-R5s113, Gm25018
omitted Genes: n-R5s117, n-R5s121, n-R5s122
omitted Genes: n-R5s123, n-R5s124, n-R5s128
omitted Genes: Gm26391, n-R5s133, n-R5s134
omitted Genes: Rn5s, n-R5s136, n-R5s138
omitted Genes: n-R5s139, Gm22109, n-R5s141
omitted Genes: n-R5s142, n-R5s143, n-R5s144
omitted Genes: Gm25212, n-R5s146, Gm22291
omitted Genes: Gm23284, n-R5s149, Rhou
omitted Genes: 6030466F02Rik, Rab4a, Ccsap
omitted Genes: Acta1, Nup133, Abcb10
omitted Genes: Taf5l, Mir1967, Urb2
omitted Genes: Galnt2, Pgbd5, Agt
omitted Genes: Capn9, 2310022B05Rik, Ttc13
omitted Genes: Fam89a, 2810004N23Rik, Exoc8
omitted Genes: Sprtn, Egl1, Tsnax
omitted Genes: Disc1, 4930567H12Rik, BC021891
omitted Genes: Kcnk1, Gm17296, Rbm34
omitted Genes: 2610044O15Rik8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128523972	8	128.5240	0.034880237	Credible Set	purple
chr8:128524047	8	128.5240	0.239175550	Credible Set	purple
chr8:128524048	8	128.5240	0.241911261	Credible Set	purple
chr8:128524081	8	128.5241	0.234379335	Credible Set	purple
chr8:128524424	8	128.5244	0.032999835	Credible Set	purple
chr8:128524425	8	128.5244	0.032459243	Credible Set	purple
chr8:128524441	8	128.5244	0.032395507	Credible Set	purple
chr8:128551483	8	128.5515	0.021594105	Credible Set	purple
chr8:128571869	8	128.5719	0.006315692	Credible Set	purple
chr8:128571887	8	128.5719	0.006317955	Credible Set	purple
chr8:128711717	8	128.7117	0.039387863	Credible Set	purple
chr8:128771719	8	128.7717	0.041469323	Credible Set	purple
chr8:128898075	8	128.8981	0.030398403	Credible Set	purple

F34 GBS, retic parameters concentration of hemoglobin in reticulocytes, repeat



date: Thu Oct 25 17:09:37 2018

build: F34GBS

display range: chr10:95656551–105656551 [95656551–105656551]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:100656551

number of SNPs plotted: 225

min P-value: 7.81E–6 [chr10:100656551]

max P-value: 3.77E–2 [chr10:105460999]

omitted Genes: 4930473O22Rik, Kera, Epyc

omitted Genes: Gm10754, Ccer1, 4930525C09Rik

omitted Genes: Gm20110, Gm18409, Gm4303

omitted Genes: Gm4305, Gm4307, Gm4312

omitted Genes: Cep290, 4930430F08Rik, 1700017N19Rik

omitted Genes: Gm21304, Gm21312, Gm20765

omitted Genes: Gm4340

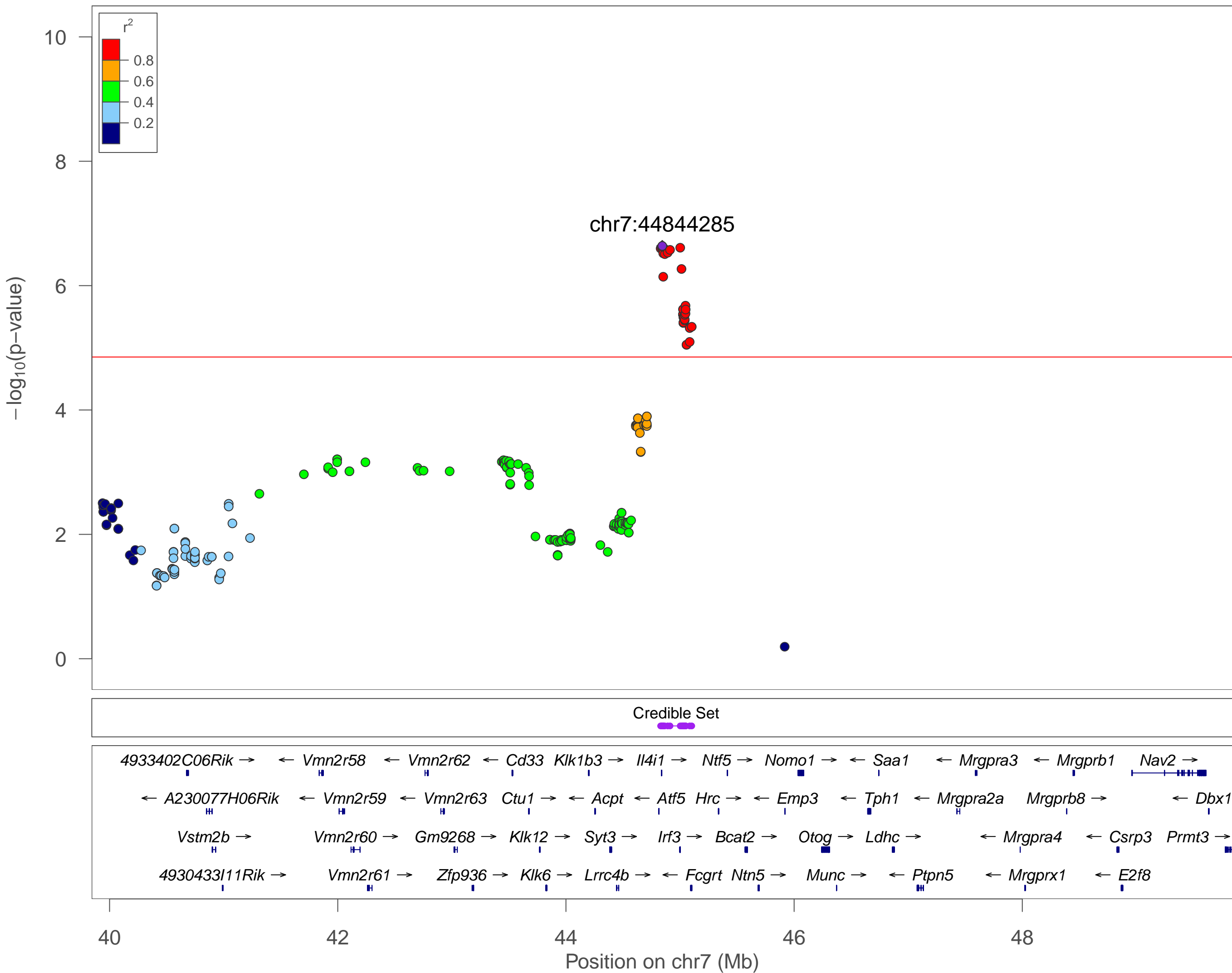
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:99678204	10	99.67820	0.004298973	Credible Set	purple
chr10:99699271	10	99.69927	0.004660097	Credible Set	purple
chr10:99699649	10	99.69965	0.003854211	Credible Set	purple
chr10:99699681	10	99.69968	0.004015350	Credible Set	purple
chr10:99700646	10	99.70065	0.005837839	Credible Set	purple
chr10:99795502	10	99.79550	0.004627611	Credible Set	purple
chr10:99795653	10	99.79565	0.004743422	Credible Set	purple
chr10:99821621	10	99.82162	0.005760589	Credible Set	purple
chr10:99929872	10	99.92987	0.005890544	Credible Set	purple
chr10:99930010	10	99.93001	0.005890544	Credible Set	purple
chr10:99941189	10	99.94119	0.003340836	Credible Set	purple
chr10:99941475	10	99.94147	0.006026726	Credible Set	purple
chr10:99994442	10	99.99444	0.010730144	Credible Set	purple
chr10:100020266	10	100.02027	0.010730144	Credible Set	purple
chr10:100031418	10	100.03142	0.010638926	Credible Set	purple
chr10:100031691	10	100.03169	0.012572651	Credible Set	purple
chr10:100048262	10	100.04826	0.010730144	Credible Set	purple
chr10:100048350	10	100.04835	0.010730144	Credible Set	purple
chr10:100048362	10	100.04836	0.010730144	Credible Set	purple
chr10:100055412	10	100.05541	0.010730144	Credible Set	purple
chr10:100055418	10	100.05542	0.010730144	Credible Set	purple
chr10:100086663	10	100.08666	0.010730144	Credible Set	purple
chr10:100096296	10	100.09630	0.008784845	Credible Set	purple
chr10:100096708	10	100.09671	0.010730144	Credible Set	purple
chr10:100096785	10	100.09678	0.017141778	Credible Set	purple
chr10:100096807	10	100.09681	0.017141778	Credible Set	purple
chr10:100124479	10	100.12448	0.011740000	Credible Set	purple
chr10:100125049	10	100.12505	0.013687694	Credible Set	purple
chr10:100164149	10	100.16415	0.017387467	Credible Set	purple
chr10:100164180	10	100.16418	0.017387467	Credible Set	purple
chr10:100164914	10	100.16491	0.018170173	Credible Set	purple
chr10:100477167	10	100.47717	0.008971417	Credible Set	purple
chr10:100492319	10	100.49232	0.015603728	Credible Set	purple
chr10:100585564	10	100.58556	0.008164326	Credible Set	purple
chr10:100585784	10	100.58578	0.008664857	Credible Set	purple
chr10:100585854	10	100.58585	0.009166375	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:100586507	10	100.5865	0.011522590	Credible Set	purple
chr10:100641295	10	100.6413	0.016671266	Credible Set	purple
chr10:100656540	10	100.6565	0.129487316	Credible Set	purple
chr10:100656551	10	100.6566	0.129487316	Credible Set	purple
chr10:100656588	10	100.6566	0.129487316	Credible Set	purple
chr10:100656608	10	100.6566	0.129487316	Credible Set	purple
chr10:100768688	10	100.7687	0.008010499	Credible Set	purple
chr10:100768699	10	100.7687	0.008010499	Credible Set	purple
chr10:100768710	10	100.7687	0.008010499	Credible Set	purple
chr10:100768727	10	100.7687	0.008010499	Credible Set	purple
chr10:100795827	10	100.7958	0.006228734	Credible Set	purple
chr10:100858643	10	100.8586	0.006609795	Credible Set	purple
chr10:100858698	10	100.8587	0.006855285	Credible Set	purple
chr10:100858701	10	100.8587	0.006783238	Credible Set	purple
chr10:100858992	10	100.8590	0.003308385	Credible Set	purple
chr10:100884062	10	100.8841	0.006819065	Credible Set	purple
chr10:100884636	10	100.8846	0.006609795	Credible Set	purple
chr10:100949966	10	100.9500	0.007673860	Credible Set	purple
chr10:100950077	10	100.9501	0.006319673	Credible Set	purple
chr10:100950118	10	100.9501	0.006319673	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin distribution width, repeat



date: Thu Oct 25 17:10:30 2018

build: F34GBS

display range: chr7:39844285–49844285 [39844285–49844285]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44844285

number of SNPs plotted: 247

min P-value: 2.3E–7 [chr7:44844285]

max P-value: 6.41E–1 [chr7:45917340]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

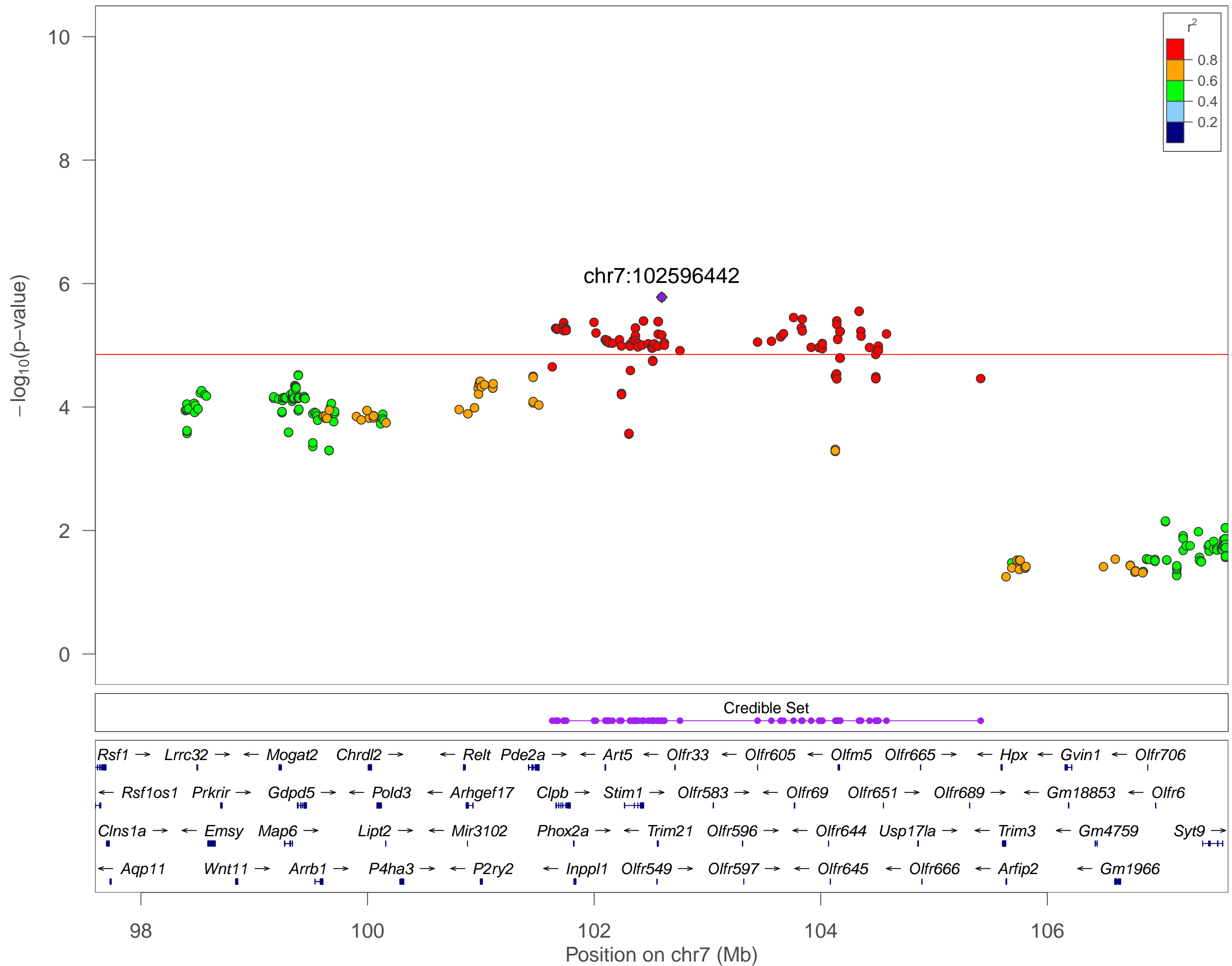
omitted Genes: Gm15545, Rpl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44829933	7	44.82993	0.076255075	Credible Set	purple
chr7:44839966	7	44.83997	0.077914501	Credible Set	purple
chr7:44844016	7	44.84402	0.077689067	Credible Set	purple
chr7:44844285	7	44.84428	0.083580561	Credible Set	purple
chr7:44844322	7	44.84432	0.077689067	Credible Set	purple
chr7:44851630	7	44.85163	0.070642061	Credible Set	purple
chr7:44852639	7	44.85264	0.027791039	Credible Set	purple
chr7:44852965	7	44.85296	0.064054774	Credible Set	purple
chr7:44866590	7	44.86659	0.062306105	Credible Set	purple
chr7:44891663	7	44.89166	0.065608028	Credible Set	purple
chr7:44912209	7	44.91221	0.072611945	Credible Set	purple
chr7:45001761	7	45.00176	0.078409708	Credible Set	purple
chr7:45012901	7	45.01290	0.036685318	Credible Set	purple
chr7:45025410	7	45.02541	0.007242901	Credible Set	purple
chr7:45025443	7	45.02544	0.007244986	Credible Set	purple
chr7:45026544	7	45.02654	0.008733339	Credible Set	purple
chr7:45026548	7	45.02655	0.008700908	Credible Set	purple
chr7:45029371	7	45.02937	0.006564970	Credible Set	purple
chr7:45029402	7	45.02940	0.005385265	Credible Set	purple
chr7:45029407	7	45.02941	0.005390352	Credible Set	purple
chr7:45029413	7	45.02941	0.005391354	Credible Set	purple
chr7:45029777	7	45.02978	0.005455005	Credible Set	purple
chr7:45033529	7	45.03353	0.006564970	Credible Set	purple
chr7:45041503	7	45.04150	0.005897525	Credible Set	purple
chr7:45041522	7	45.04152	0.006080683	Credible Set	purple
chr7:45041933	7	45.04193	0.007166194	Credible Set	purple
chr7:45047834	7	45.04783	0.007495305	Credible Set	purple
chr7:45047913	7	45.04791	0.009921599	Credible Set	purple
chr7:45049496	7	45.04950	0.008655283	Credible Set	purple
chr7:45084764	7	45.08476	0.004482703	Credible Set	purple
chr7:45102598	7	45.10260	0.004690384	Credible Set	purple

F34 GBS, retic parameters cell hemoglobin distribution width, repeat



date: Thu Oct 25 17:10:16 2018

build: F34GBS

display range: chr7:97596442–107596442 [97596442–107596442]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:102596442

number of SNPs plotted: 347

min P-value: 1.66E–6 [chr7:102596442]

max P-value: 5.62E–2 [chr7:105635493]

omitted Genes: Pak1, Gdpd4, Myo7a

omitted Genes: Capn5, Omp, Gm16938

omitted Genes: B3gnt6, Acer3, Tsku

omitted Genes: Gucy2d, Uvrag, Dgat2

omitted Genes: Gm26705, Serpinh1, Kihl35

omitted Genes: Rps3, Snord15b, Snord15a

omitted Genes: Mir326, Tpbgl, Slco2b1

omitted Genes: Olfr520, Olfr521, Neu3

omitted Genes: Spcs2, Xrra1, Rnf169

omitted Genes: Kcne3, Pgm2l1, Gpx2-ps1

omitted Genes: Ppme1, C2cd3, Ucp3

omitted Genes: Ucp2, Dnajb13, Coa4

omitted Genes: Mrpl48, Rab6a, Plekha1

omitted Genes: Fam168a, P2ry6, Fchs2

omitted Genes: Atg16l2, Stard10, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Folr2, Folr1, Anapc15

omitted Genes: Tomt, Lamtor1, Lrrc51

omitted Genes: Numa1, Il18bp, Rnf121

omitted Genes: Xndc1, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Rrm1

omitted Genes: Olfr543, Olfr544, Olfr545

omitted Genes: Olfr547, Olfr550, Olfr551

omitted Genes: Olfr552, Olfr553, Olfr554

omitted Genes: Olfr555, Olfr556, Trim68

omitted Genes: Olfr557, Olfr558, Olfr559

omitted Genes: Olfr78, Olfr560, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

omitted Genes: Olfr569, Olfr570, Olfr571

omitted Genes: Olfr572, Olfr574, Olfr575

omitted Genes: Olfr576, Olfr577, Olfr578

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:101630176	7	101.6302	0.003096999	Credible Set	purple
chr7:101660383	7	101.6604	0.012223216	Credible Set	purple
chr7:101669186	7	101.6692	0.012120864	Credible Set	purple
chr7:101673483	7	101.6735	0.011764260	Credible Set	purple
chr7:101680140	7	101.6801	0.012162155	Credible Set	purple
chr7:101731061	7	101.7311	0.013717504	Credible Set	purple
chr7:101731110	7	101.7311	0.014983276	Credible Set	purple
chr7:101731130	7	101.7311	0.012766398	Credible Set	purple
chr7:101731658	7	101.7317	0.011235698	Credible Set	purple
chr7:101751790	7	101.7518	0.012022773	Credible Set	purple
chr7:101752580	7	101.7526	0.011764703	Credible Set	purple
chr7:101752971	7	101.7530	0.011283295	Credible Set	purple
chr7:101998679	7	101.9987	0.015148262	Credible Set	purple
chr7:102016307	7	102.0163	0.010350693	Credible Set	purple
chr7:102098054	7	102.0981	0.008168876	Credible Set	purple
chr7:102110109	7	102.1101	0.007618489	Credible Set	purple
chr7:102110501	7	102.1105	0.007761370	Credible Set	purple
chr7:102116318	7	102.1163	0.007880212	Credible Set	purple
chr7:102116430	7	102.1164	0.007880212	Credible Set	purple
chr7:102116478	7	102.1165	0.007960892	Credible Set	purple
chr7:102132562	7	102.1326	0.007255263	Credible Set	purple
chr7:102162058	7	102.1621	0.007173808	Credible Set	purple
chr7:102223396	7	102.2234	0.008138683	Credible Set	purple
chr7:102240695	7	102.2407	0.006514444	Credible Set	purple
chr7:102317213	7	102.3172	0.006918461	Credible Set	purple
chr7:102317246	7	102.3172	0.006464993	Credible Set	purple
chr7:102319586	7	102.3196	0.002721322	Credible Set	purple
chr7:102344970	7	102.3450	0.007947491	Credible Set	purple
chr7:102363897	7	102.3639	0.007849316	Credible Set	purple
chr7:102364204	7	102.3642	0.012380383	Credible Set	purple
chr7:102364223	7	102.3642	0.012234694	Credible Set	purple
chr7:102364315	7	102.3643	0.009361449	Credible Set	purple
chr7:102364326	7	102.3643	0.009361449	Credible Set	purple
chr7:102364411	7	102.3644	0.007958604	Credible Set	purple
chr7:102385520	7	102.3855	0.007151558	Credible Set	purple
chr7:102385536	7	102.3855	0.006289323	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102423165	7	102.4232	0.006711697	Credible Set	purple
chr7:102435692	7	102.4357	0.015868556	Credible Set	purple
chr7:102435720	7	102.4357	0.015868556	Credible Set	purple
chr7:102478469	7	102.4785	0.007052608	Credible Set	purple
chr7:102510475	7	102.5105	0.006648575	Credible Set	purple
chr7:102510607	7	102.5106	0.006024644	Credible Set	purple
chr7:102516878	7	102.5169	0.006090483	Credible Set	purple
chr7:102517238	7	102.5172	0.003836833	Credible Set	purple
chr7:102517241	7	102.5172	0.003878129	Credible Set	purple
chr7:102517247	7	102.5172	0.003766622	Credible Set	purple
chr7:102531652	7	102.5317	0.007025427	Credible Set	purple
chr7:102561708	7	102.5617	0.006460720	Credible Set	purple
chr7:102565262	7	102.5653	0.015471762	Credible Set	purple
chr7:102565292	7	102.5653	0.015535507	Credible Set	purple
chr7:102565307	7	102.5653	0.015520392	Credible Set	purple
chr7:102565323	7	102.5653	0.015584350	Credible Set	purple
chr7:102565329	7	102.5653	0.015584350	Credible Set	purple
chr7:102565410	7	102.5654	0.009932812	Credible Set	purple
chr7:102596442	7	102.5964	0.037183569	Credible Set	purple
chr7:102596578	7	102.5966	0.009604558	Credible Set	purple
chr7:102596636	7	102.5966	0.009599972	Credible Set	purple
chr7:102619418	7	102.6194	0.007257376	Credible Set	purple
chr7:102619431	7	102.6194	0.007256067	Credible Set	purple
chr7:102619466	7	102.6195	0.006673185	Credible Set	purple
chr7:102757499	7	102.7575	0.005518051	Credible Set	purple
chr7:103442570	7	103.4426	0.007476220	Credible Set	purple
chr7:103564836	7	103.5648	0.007716649	Credible Set	purple
chr7:103646439	7	103.6464	0.009025333	Credible Set	purple
chr7:103646709	7	103.6467	0.009004268	Credible Set	purple
chr7:103671033	7	103.6710	0.010091982	Credible Set	purple
chr7:103760301	7	103.7603	0.017991325	Credible Set	purple
chr7:103829200	7	103.8292	0.012434995	Credible Set	purple
chr7:103837099	7	103.8371	0.016944840	Credible Set	purple
chr7:103837213	7	103.8372	0.011097493	Credible Set	purple
chr7:103915503	7	103.9155	0.006196880	Credible Set	purple
chr7:103986792	7	103.9868	0.006158547	Credible Set	purple

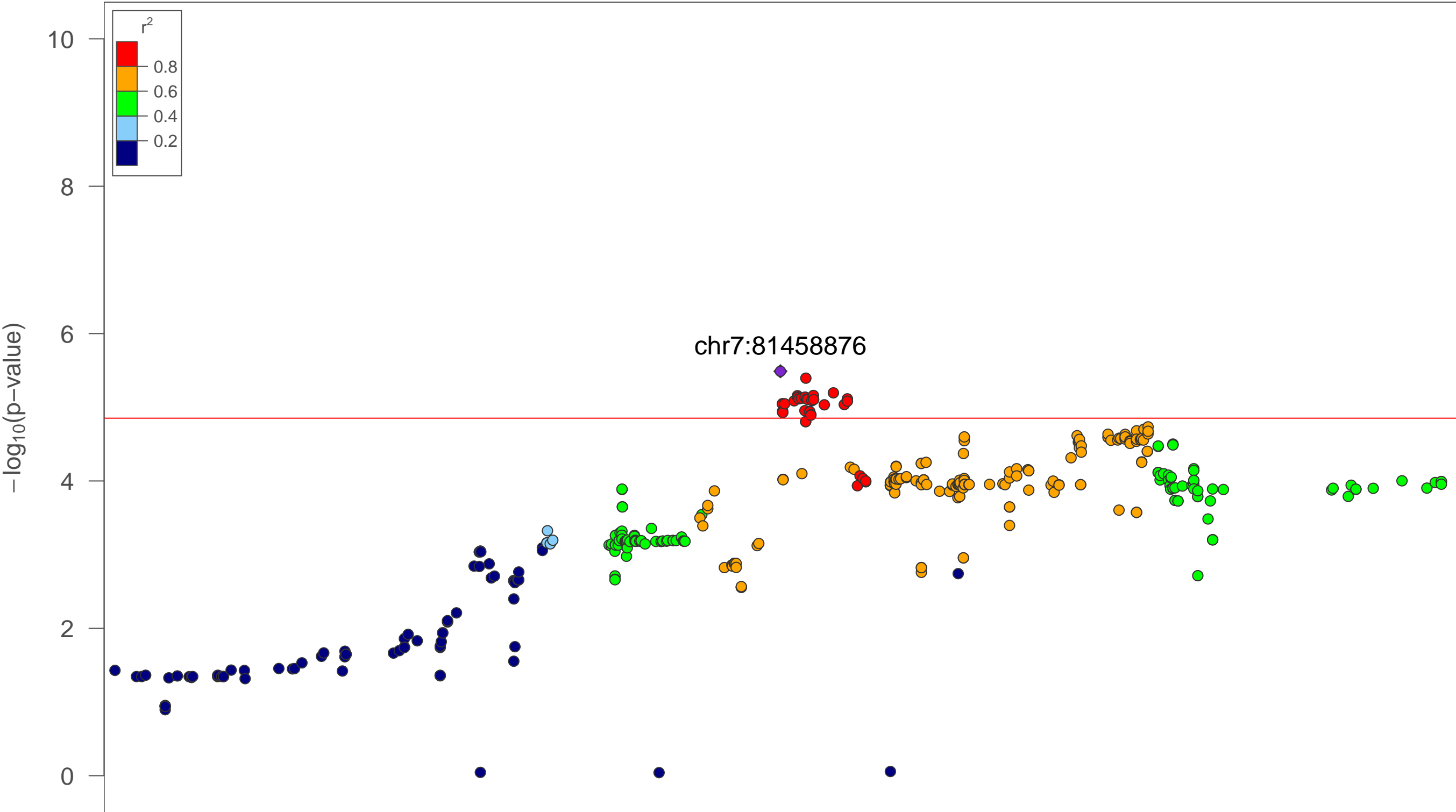
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:103986795	7	103.9868	0.006158547	Credible Set	purple
chr7:103986857	7	103.9869	0.006172090	Credible Set	purple
chr7:103986860	7	103.9869	0.006172090	Credible Set	purple
chr7:104012808	7	104.0128	0.006034451	Credible Set	purple
chr7:104013370	7	104.0134	0.005918186	Credible Set	purple
chr7:104013395	7	104.0134	0.007116710	Credible Set	purple
chr7:104013467	7	104.0135	0.006974150	Credible Set	purple
chr7:104129734	7	104.1297	0.002237892	Credible Set	purple
chr7:104129736	7	104.1297	0.002237892	Credible Set	purple
chr7:104138934	7	104.1389	0.002400300	Credible Set	purple
chr7:104138936	7	104.1389	0.002408368	Credible Set	purple
chr7:104138968	7	104.1390	0.002408368	Credible Set	purple
chr7:104141705	7	104.1417	0.015962451	Credible Set	purple
chr7:104141768	7	104.1418	0.014007024	Credible Set	purple
chr7:104149893	7	104.1499	0.008394697	Credible Set	purple
chr7:104149911	7	104.1499	0.008215429	Credible Set	purple
chr7:104170479	7	104.1705	0.004239615	Credible Set	purple
chr7:104170506	7	104.1705	0.004230559	Credible Set	purple
chr7:104170518	7	104.1705	0.004268338	Credible Set	purple
chr7:104170522	7	104.1705	0.004229257	Credible Set	purple
chr7:104170543	7	104.1705	0.004227186	Credible Set	purple
chr7:104170588	7	104.1706	0.010922302	Credible Set	purple
chr7:104170594	7	104.1706	0.010925834	Credible Set	purple
chr7:104170618	7	104.1706	0.010916495	Credible Set	purple
chr7:104170662	7	104.1707	0.010916495	Credible Set	purple
chr7:104338784	7	104.3388	0.022362521	Credible Set	purple
chr7:104338810	7	104.3388	0.022579047	Credible Set	purple
chr7:104353491	7	104.3535	0.011030919	Credible Set	purple
chr7:104356230	7	104.3562	0.009230694	Credible Set	purple
chr7:104430205	7	104.4302	0.006167265	Credible Set	purple
chr7:104485236	7	104.4852	0.004809966	Credible Set	purple
chr7:104485721	7	104.4857	0.002085735	Credible Set	purple
chr7:104485727	7	104.4857	0.002038165	Credible Set	purple
chr7:104486022	7	104.4860	0.002178204	Credible Set	purple
chr7:104507724	7	104.5077	0.005871653	Credible Set	purple
chr7:104508127	7	104.5081	0.006481453	Credible Set	purple

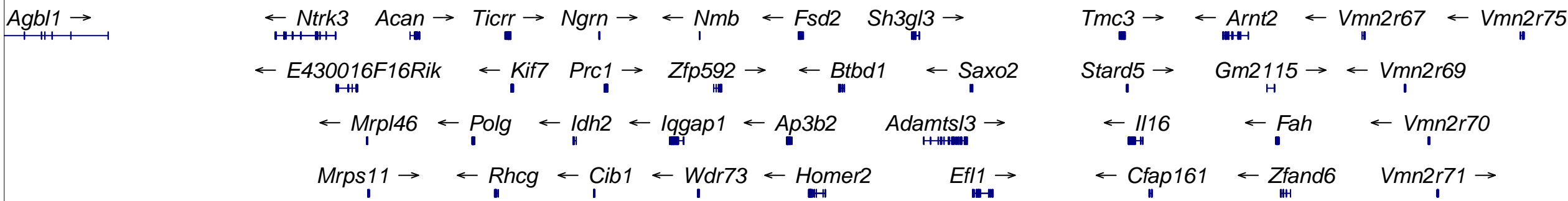
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:104508173	7	104.5082	0.005525199	Credible Set	purple
chr7:104580091	7	104.5801	0.010002260	Credible Set	purple
chr7:105411752	7	105.4118	0.002046595	Credible Set	purple

F34 GBS, retic parameters red cell distribution width, repeat



Credible Set



77 genes
omitted

date: Thu Oct 25 17:10:40 2018
build: F34GBS
display range: chr7:76458876–86458876 [76458876–86458876]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:81458876
number of SNPs plotted: 417
min P-value: 3.25E–6 [chr7:81458876]
max P-value: 9.08E–1 [chr7:80561830]
omitted Genes: Det1, Mir7–2, Aen
omitted Genes: Isg20, Gm26633, Hapln3
omitted Genes: Mfge8, Abhd2, Rlbp1
omitted Genes: Fanci, Mir9–3hg, Mir9–3
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Sema4b, Gdpgp1
omitted Genes: Ttll13, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Fes, Furin, Blm
omitted Genes: Crtc3, Gm15880, Zscan2
omitted Genes: Sec11a, Alpk3, Slc28a1
omitted Genes: Pde8a, Rps17, Cpeb1
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Whamm, Fam103a1, 3110040N11Rik
omitted Genes: Tm6sf1, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr310, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr304
omitted Genes: Olfr303, Olfr301

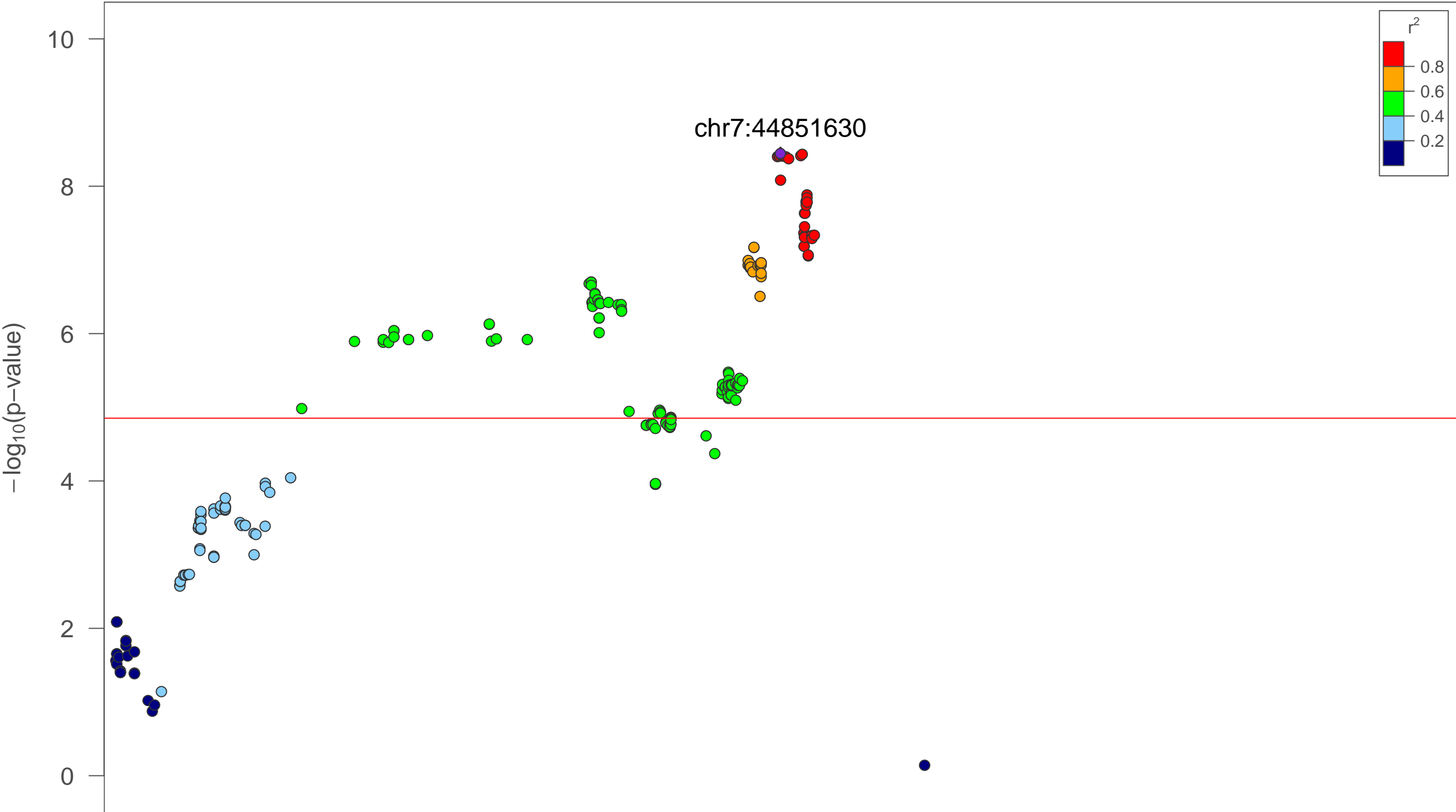
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:81458876	7	81.45888	0.06616771	Credible Set	purple
chr7:81473821	7	81.47382	0.02512823	Credible Set	purple
chr7:81473841	7	81.47384	0.02487803	Credible Set	purple
chr7:81475123	7	81.47512	0.02016831	Credible Set	purple
chr7:81475858	7	81.47586	0.01933686	Credible Set	purple
chr7:81475869	7	81.47587	0.01932098	Credible Set	purple
chr7:81489705	7	81.48971	0.02505795	Credible Set	purple
chr7:81560306	7	81.56031	0.02734510	Credible Set	purple
chr7:81584607	7	81.58461	0.03186561	Credible Set	purple
chr7:81587028	7	81.58703	0.03051343	Credible Set	purple
chr7:81587096	7	81.58710	0.03035124	Credible Set	purple
chr7:81595380	7	81.59538	0.02904931	Credible Set	purple
chr7:81614445	7	81.61445	0.02956262	Credible Set	purple
chr7:81639723	7	81.63972	0.02040579	Credible Set	purple
chr7:81641021	7	81.64102	0.03045086	Credible Set	purple
chr7:81641166	7	81.64117	0.03051590	Credible Set	purple
chr7:81645454	7	81.64545	0.01469745	Credible Set	purple
chr7:81645464	7	81.64546	0.01470128	Credible Set	purple
chr7:81646679	7	81.64668	0.05387744	Credible Set	purple
chr7:81653902	7	81.65390	0.02886043	Credible Set	purple
chr7:81660191	7	81.66019	0.02851127	Credible Set	purple
chr7:81675727	7	81.67573	0.01983776	Credible Set	purple
chr7:81675758	7	81.67576	0.01972593	Credible Set	purple
chr7:81683805	7	81.68381	0.01807525	Credible Set	purple
chr7:81683816	7	81.68382	0.01783724	Credible Set	purple
chr7:81691936	7	81.69194	0.02749141	Credible Set	purple
chr7:81691946	7	81.69195	0.02761668	Credible Set	purple
chr7:81700477	7	81.70048	0.03110540	Credible Set	purple
chr7:81702582	7	81.70258	0.03211692	Credible Set	purple
chr7:81704380	7	81.70438	0.02835662	Credible Set	purple
chr7:81783181	7	81.78318	0.02428726	Credible Set	purple
chr7:81850247	7	81.85025	0.03473184	Credible Set	purple
chr7:81931360	7	81.93136	0.02452354	Credible Set	purple
chr7:81931538	7	81.93154	0.02456007	Credible Set	purple
chr7:81953706	7	81.95371	0.02904836	Credible Set	purple
chr7:81954104	7	81.95410	0.02705868	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:82047190	7	82.04719	0.002948056	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width, repeat



Credible Set

4933402C06Rik → ← Vmn2r58 ← Vmn2r62 ← Cd33 Klk1b3 → Il4i1 → Ntf5 → Nomo1 → ← Saa1 ← Mrgpra3 ← Mrgprb1 Nav2 →
← A230077H06Rik ← Vmn2r59 ← Vmn2r63 Ctu1 → ← Acpt ← Atf5 Hrc → ← Emp3 ← Tph1 ← Mrgpra2a Mrgprb8 → ← Dbx1
Vstm2b → Vmn2r60 → Gm9268 → Klk12 → Syt3 → Irf3 → Bcat2 → Otog → Ldhc → ← Mrgpra4 ← Csrp3 Prmt3 →
4930433I11Rik → Vmn2r61 → Zfp936 → Klk6 → Lrrc4b → ← Fcgrt Ntn5 → Munc → ← Ptpn5 ← Mrgprx1 ← E2f8

198 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:11:16 2018

build: F34GBS

display range: chr7:39851630–49851630 [39851630–49851630]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:44851630

number of SNPs plotted: 247

min P-value: 3.6E–9 [chr7:44851630]

max P-value: 7.22E–1 [chr7:45917340]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

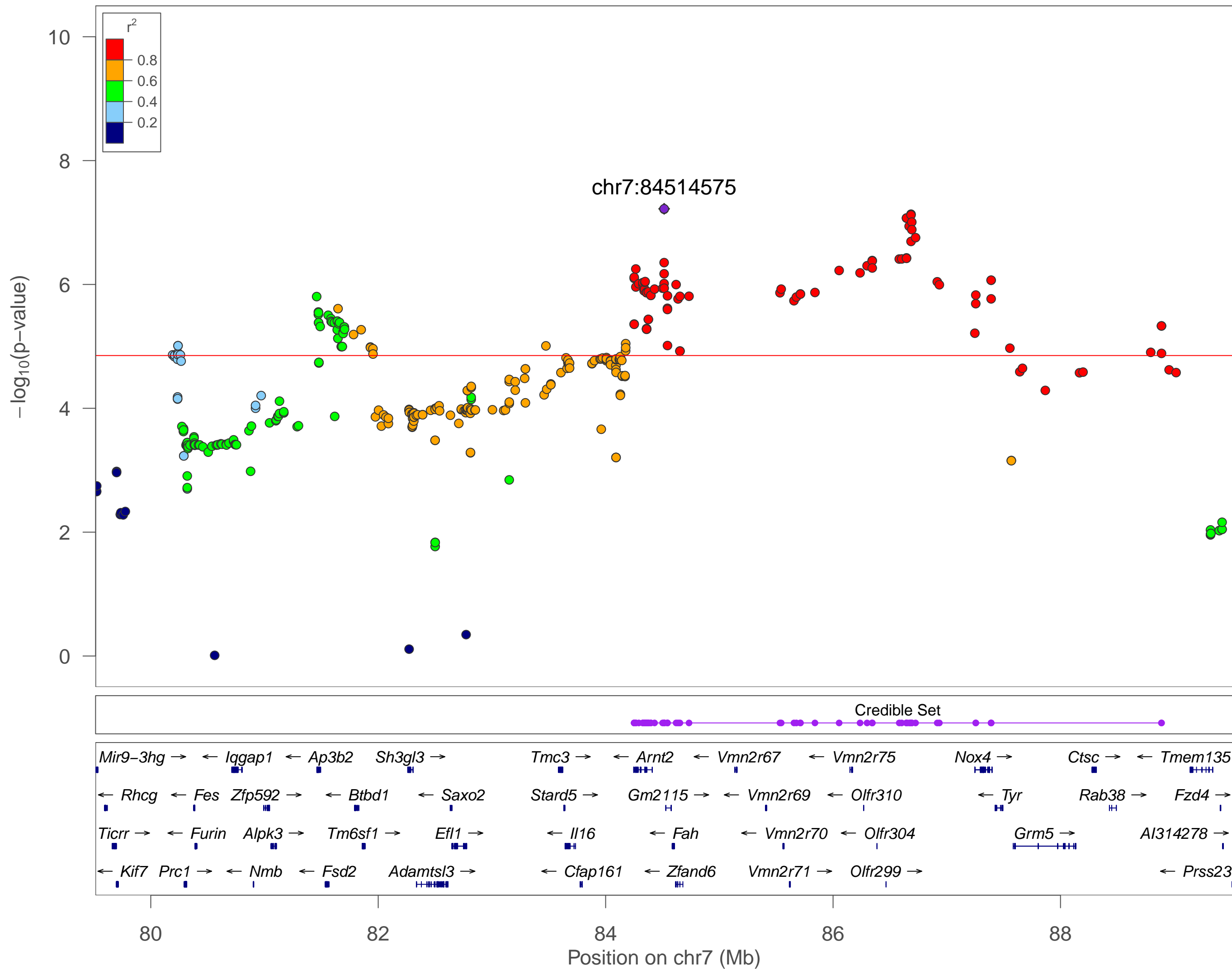
omitted Genes: Gm15545, Bcl2l12, Scf1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44829933	7	44.82993	0.063242520	Credible Set	purple
chr7:44839966	7	44.83997	0.064545439	Credible Set	purple
chr7:44844016	7	44.84402	0.064505343	Credible Set	purple
chr7:44844285	7	44.84428	0.065560645	Credible Set	purple
chr7:44844322	7	44.84432	0.064505343	Credible Set	purple
chr7:44851630	7	44.85163	0.069377128	Credible Set	purple
chr7:44852639	7	44.85264	0.030886329	Credible Set	purple
chr7:44852965	7	44.85296	0.067763560	Credible Set	purple
chr7:44866590	7	44.86659	0.064281654	Credible Set	purple
chr7:44891663	7	44.89166	0.062779023	Credible Set	purple
chr7:44912209	7	44.91221	0.059203091	Credible Set	purple
chr7:45001761	7	45.00176	0.065056667	Credible Set	purple
chr7:45012901	7	45.01290	0.067751234	Credible Set	purple
chr7:45025410	7	45.02541	0.006195526	Credible Set	purple
chr7:45025443	7	45.02544	0.006214143	Credible Set	purple
chr7:45026544	7	45.02654	0.004165466	Credible Set	purple
chr7:45026548	7	45.02655	0.004157523	Credible Set	purple
chr7:45029371	7	45.02937	0.011292601	Credible Set	purple
chr7:45029402	7	45.02940	0.005576216	Credible Set	purple
chr7:45029407	7	45.02941	0.005597764	Credible Set	purple
chr7:45029413	7	45.02941	0.005455879	Credible Set	purple
chr7:45029777	7	45.02978	0.007525295	Credible Set	purple
chr7:45033529	7	45.03353	0.011292601	Credible Set	purple
chr7:45041503	7	45.04150	0.016291766	Credible Set	purple
chr7:45041522	7	45.04152	0.015598120	Credible Set	purple
chr7:45041933	7	45.04193	0.014408712	Credible Set	purple
chr7:45047834	7	45.04783	0.019762211	Credible Set	purple
chr7:45047913	7	45.04791	0.018037235	Credible Set	purple
chr7:45049496	7	45.04950	0.015855521	Credible Set	purple
chr7:45084416	7	45.08442	0.005752337	Credible Set	purple
chr7:45084764	7	45.08476	0.005257411	Credible Set	purple
chr7:45102598	7	45.10260	0.005813696	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width, repeat



date: Thu Oct 25 17:11:26 2018
build: F34GBS
display range: chr7:79514575–89514575 [79514575–89514575]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84514575
number of SNPs plotted: 389
min P-value: 6E–8 [chr7:84514575]
max P-value: 9.75E–1 [chr7:80561830]
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Idh2, Sema4b
omitted Genes: Cib1, Gdpgp1, Tll13
omitted Genes: Ngrn, Vps33b, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Blm, Crtc3, Gm15880
omitted Genes: Zscan2, Wdr73, Sec11a
omitted Genes: Slc28a1, Pde8a, Rps17
omitted Genes: Cpeb1, BC048679, 2900076A07Rik
omitted Genes: Mir1839, Whamm, Homer2
omitted Genes: Fam103a1, 3110040N11Rik, Hdgfrp3
omitted Genes: Bnc1, Gm20744, 4933406J10Rik
omitted Genes: Mex3b, 4933430H16Rik, Mesdc1
omitted Genes: Mesdc2, Cemip, Abhd17c
omitted Genes: 2610206C17Rik, Olfr291, Olfr290
omitted Genes: Vmn2r65, Vmn2r66, Vmn2r68
omitted Genes: Vmn2r72, Vmn2r73, Vmn2r74
omitted Genes: Vmn2r76, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr303
omitted Genes: Olfr301, Olfr298, Olfr297
omitted Genes: Olfr295, Olfr294, Olfr293
omitted Genes: Olfr292, Folh1, Vmn2r77
omitted Genes: Vmn2r78, Vmn2r79

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.001360020	Credible Set	purple
chr7:84251011	7	84.25101	0.001346588	Credible Set	purple
chr7:84251159	7	84.25116	0.006956519	Credible Set	purple
chr7:84251209	7	84.25121	0.007221524	Credible Set	purple
chr7:84265410	7	84.26541	0.009742708	Credible Set	purple
chr7:84265685	7	84.26569	0.005104929	Credible Set	purple
chr7:84291540	7	84.29154	0.005729120	Credible Set	purple
chr7:84327288	7	84.32729	0.005562292	Credible Set	purple
chr7:84327808	7	84.32781	0.005978483	Credible Set	purple
chr7:84327850	7	84.32785	0.005967179	Credible Set	purple
chr7:84338595	7	84.33859	0.004445736	Credible Set	purple
chr7:84343118	7	84.34312	0.004730137	Credible Set	purple
chr7:84344805	7	84.34480	0.006031629	Credible Set	purple
chr7:84347423	7	84.34742	0.006204436	Credible Set	purple
chr7:84360038	7	84.36004	0.004234925	Credible Set	purple
chr7:84360224	7	84.36022	0.001160061	Credible Set	purple
chr7:84360626	7	84.36063	0.004172698	Credible Set	purple
chr7:84360642	7	84.36064	0.004172698	Credible Set	purple
chr7:84360703	7	84.36070	0.004172698	Credible Set	purple
chr7:84360714	7	84.36071	0.004172698	Credible Set	purple
chr7:84360716	7	84.36072	0.004172698	Credible Set	purple
chr7:84375526	7	84.37553	0.004291484	Credible Set	purple
chr7:84375577	7	84.37558	0.001605662	Credible Set	purple
chr7:84375642	7	84.37564	0.001605662	Credible Set	purple
chr7:84397575	7	84.39758	0.003784376	Credible Set	purple
chr7:84397597	7	84.39760	0.003784376	Credible Set	purple
chr7:84430102	7	84.43010	0.004736942	Credible Set	purple
chr7:84501082	7	84.50108	0.004881938	Credible Set	purple
chr7:84514082	7	84.51408	0.005771754	Credible Set	purple
chr7:84514444	7	84.51444	0.012233069	Credible Set	purple
chr7:84514505	7	84.51450	0.008203041	Credible Set	purple
chr7:84514564	7	84.51456	0.083415916	Credible Set	purple
chr7:84514575	7	84.51457	0.084641734	Credible Set	purple
chr7:84514734	7	84.51473	0.004890651	Credible Set	purple
chr7:84543346	7	84.54335	0.002387437	Credible Set	purple
chr7:84543355	7	84.54336	0.002286908	Credible Set	purple

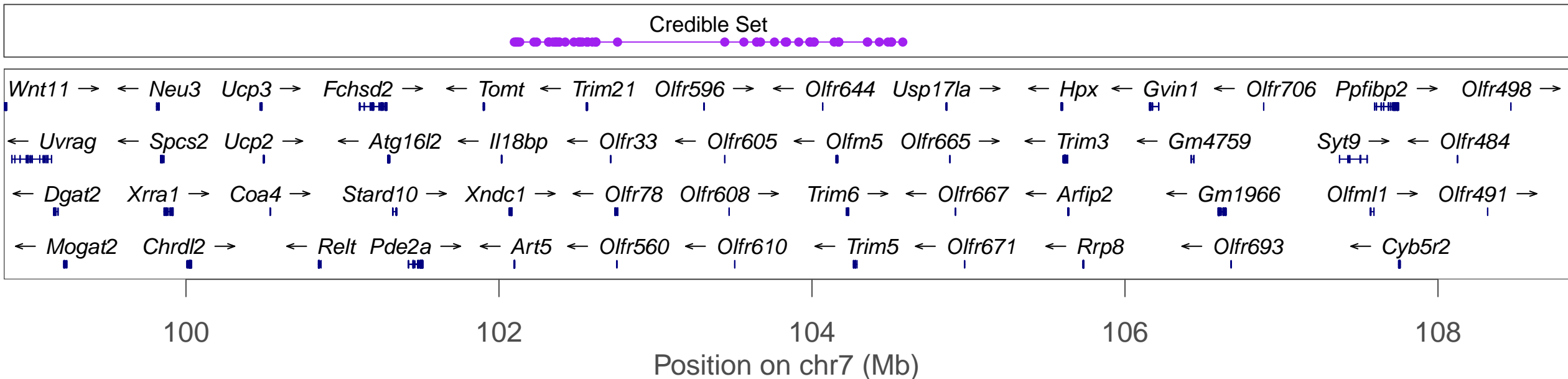
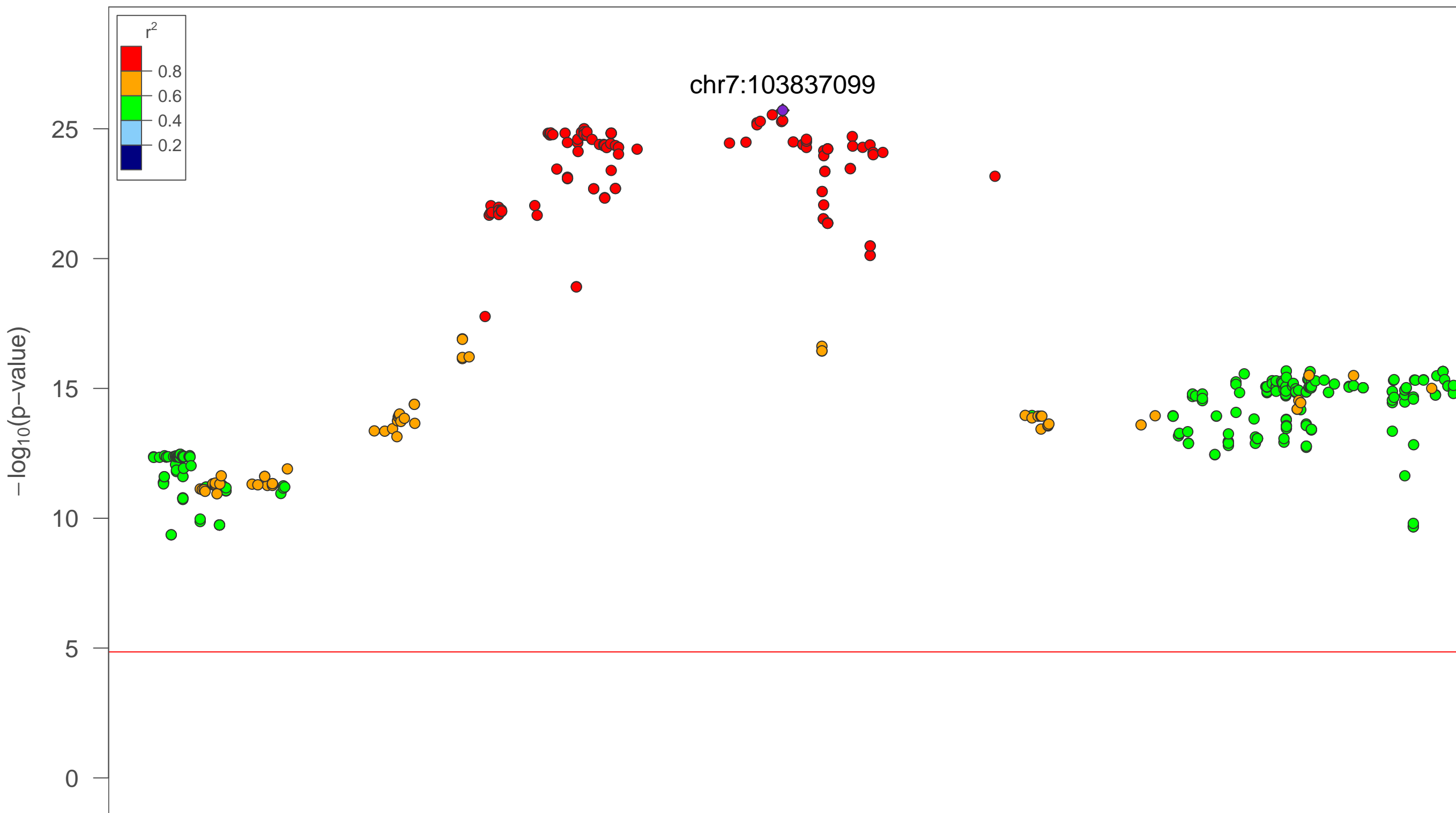
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84543782	7	84.54378	0.003726403	Credible Set	purple
chr7:84619632	7	84.61963	0.005569132	Credible Set	purple
chr7:84636759	7	84.63676	0.003331992	Credible Set	purple
chr7:84653095	7	84.65309	0.003658194	Credible Set	purple
chr7:84733186	7	84.73319	0.003667514	Credible Set	purple
chr7:85533207	7	85.53321	0.004150514	Credible Set	purple
chr7:85543843	7	85.54384	0.004733558	Credible Set	purple
chr7:85656243	7	85.65624	0.003123987	Credible Set	purple
chr7:85677494	7	85.67749	0.003564857	Credible Set	purple
chr7:85712663	7	85.71266	0.003985331	Credible Set	purple
chr7:85712975	7	85.71298	0.003962875	Credible Set	purple
chr7:85840665	7	85.84067	0.004199307	Credible Set	purple
chr7:86053386	7	86.05339	0.009230214	Credible Set	purple
chr7:86237374	7	86.23737	0.008469903	Credible Set	purple
chr7:86298979	7	86.29898	0.010928221	Credible Set	purple
chr7:86344420	7	86.34442	0.013185160	Credible Set	purple
chr7:86344437	7	86.34444	0.012975268	Credible Set	purple
chr7:86344488	7	86.34449	0.010088022	Credible Set	purple
chr7:86582139	7	86.58214	0.013905831	Credible Set	purple
chr7:86603770	7	86.60377	0.013969827	Credible Set	purple
chr7:86645719	7	86.64572	0.014498747	Credible Set	purple
chr7:86645792	7	86.64579	0.014256802	Credible Set	purple
chr7:86645947	7	86.64595	0.060698996	Credible Set	purple
chr7:86645990	7	86.64599	0.060628029	Credible Set	purple
chr7:86668998	7	86.66900	0.045196830	Credible Set	purple
chr7:86685426	7	86.68543	0.069735103	Credible Set	purple
chr7:86685507	7	86.68551	0.067735636	Credible Set	purple
chr7:86685648	7	86.68565	0.026167191	Credible Set	purple
chr7:86692214	7	86.69221	0.052430898	Credible Set	purple
chr7:86692491	7	86.69249	0.040021818	Credible Set	purple
chr7:86725518	7	86.72552	0.030008906	Credible Set	purple
chr7:86916161	7	86.91616	0.006155316	Credible Set	purple
chr7:86934710	7	86.93471	0.005532621	Credible Set	purple
chr7:87254690	7	87.25469	0.002814049	Credible Set	purple
chr7:87255156	7	87.25516	0.003831057	Credible Set	purple
chr7:87389952	7	87.38995	0.003341701	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87389989	7	87.38999	0.006501179	Credible Set	purple
chr7:87390014	7	87.39001	0.006521963	Credible Set	purple
chr7:88888100	7	88.88810	0.001272919	Credible Set	purple
chr7:88888124	7	88.88812	0.001272919	Credible Set	purple

F34 GBS, retic parameters hemoglobin distribution width, repeat



date: Thu Oct 25 17:11:03 2018

build: F34GBS

display range: chr7:98837099–108837099 [98837099–108837099]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:103837099

number of SNPs plotted: 422

min P-value: 1.95E–26 [chr7:103837099]

max P-value: 4.36E–10 [chr7:99302296]

omitted Genes: Gm26705, Map6, Serpinh1

omitted Genes: Gdpd5, Khlh35, Rps3

omitted Genes: Snord15b, Snord15a, Arrb1

omitted Genes: Mir326, Tpbgl, Slco2b1

omitted Genes: Olfr520, Olfr521, Rnf169

omitted Genes: Pold3, Lipt2, Kcne3

omitted Genes: Pgm2l1, Gpx2-ps1, P4ha3

omitted Genes: Ppme1, C2cd3, Dnajb13

omitted Genes: Mrpl48, Rab6a, Plekhhb1

omitted Genes: Fam168a, Arhgef17, Mir3102

omitted Genes: P2ry6, P2ry2, Arap1

omitted Genes: Mir139, Art2a-ps, Art2b

omitted Genes: Clpb, Phox2a, Inpp1

omitted Genes: Folr2, Folr1, Anapc15

omitted Genes: Lamtor1, Lrrc51, Numa1

omitted Genes: Rnf121, Xntrpc, Trpc2

omitted Genes: Art1, Chrna10, Nup98

omitted Genes: Pgap2, Rhog, Stim1

omitted Genes: Rrm1, Olfr543, Olfr544

omitted Genes: Olfr545, Olfr547, Olfr549

omitted Genes: Olfr550, Olfr551, Olfr552

omitted Genes: Olfr553, Olfr554, Olfr555

omitted Genes: Olfr556, Trim68, Olfr557

omitted Genes: Olfr558, Olfr559, Olfr561

omitted Genes: Olfr564, Olfr566, Olfr568

omitted Genes: Olfr569, Olfr570, Olfr571

omitted Genes: Olfr572, Olfr574, Olfr575

omitted Genes: Olfr576, Olfr577, Olfr578

omitted Genes: Olfr582, Olfr583, Olfr584

omitted Genes: Olfr585, Olfr586, Olfr589

omitted Genes: Olfr591, Olfr592, Olfr593

omitted Genes: Olfr594, Ucp17ld, Olfr597

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

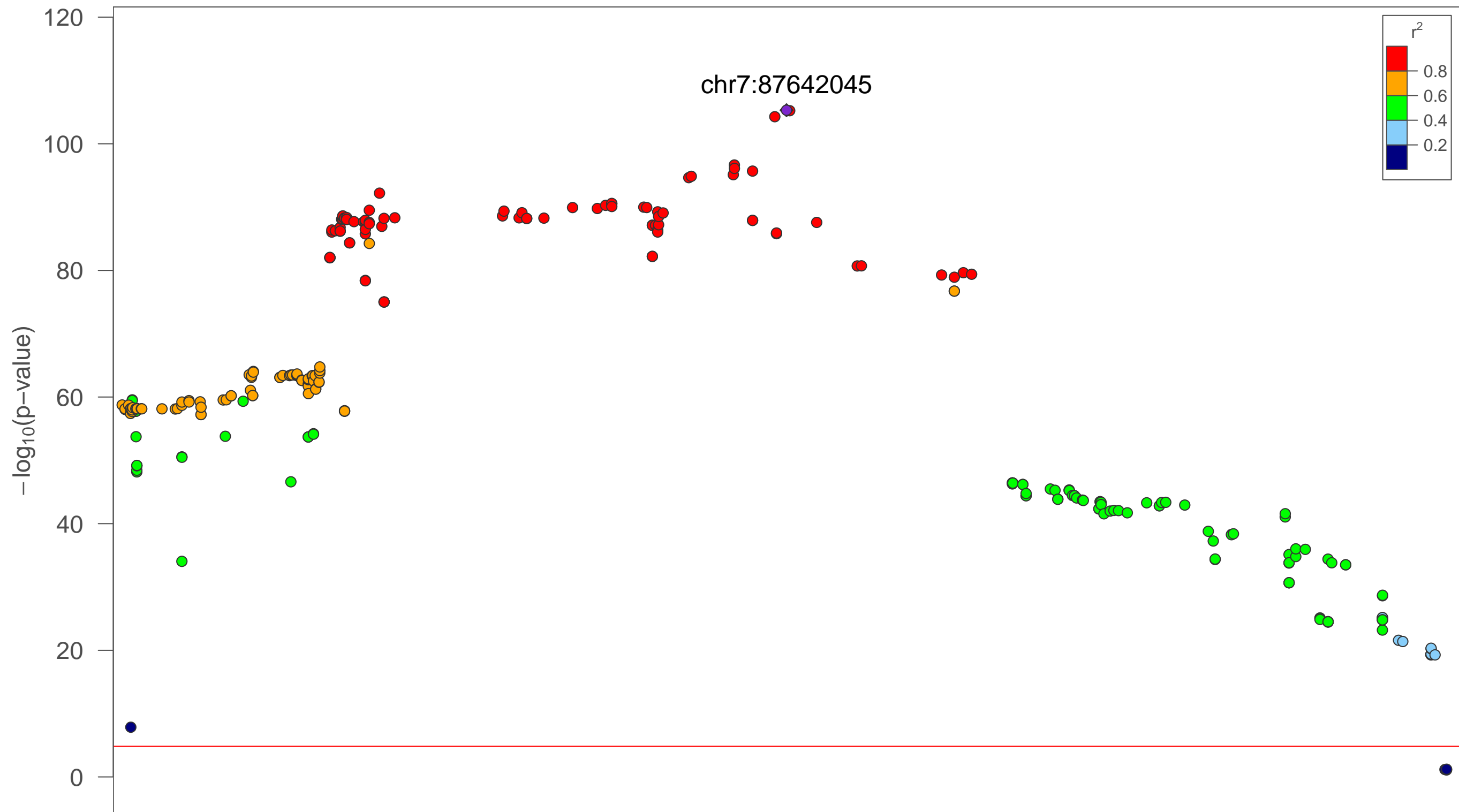
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102098054	7	102.0981	0.015832258	Credible Set	purple
chr7:102110109	7	102.1101	0.015679915	Credible Set	purple
chr7:102110501	7	102.1105	0.013548429	Credible Set	purple
chr7:102116318	7	102.1163	0.015078950	Credible Set	purple
chr7:102116430	7	102.1164	0.015078950	Credible Set	purple
chr7:102116478	7	102.1165	0.016308699	Credible Set	purple
chr7:102132562	7	102.1326	0.014142236	Credible Set	purple
chr7:102223396	7	102.2234	0.016016491	Credible Set	purple
chr7:102240695	7	102.2407	0.007016629	Credible Set	purple
chr7:102317213	7	102.3172	0.006918154	Credible Set	purple
chr7:102317246	7	102.3172	0.009417055	Credible Set	purple
chr7:102319586	7	102.3196	0.003176024	Credible Set	purple
chr7:102344970	7	102.3450	0.017546832	Credible Set	purple
chr7:102363897	7	102.3639	0.013224617	Credible Set	purple
chr7:102364204	7	102.3642	0.023364889	Credible Set	purple
chr7:102364223	7	102.3642	0.023594202	Credible Set	purple
chr7:102364315	7	102.3643	0.017988068	Credible Set	purple
chr7:102364326	7	102.3643	0.017988068	Credible Set	purple
chr7:102364411	7	102.3644	0.014440388	Credible Set	purple
chr7:102385520	7	102.3855	0.013034527	Credible Set	purple
chr7:102385536	7	102.3855	0.017930915	Credible Set	purple
chr7:102423165	7	102.4232	0.009215167	Credible Set	purple
chr7:102478469	7	102.4785	0.005923028	Credible Set	purple
chr7:102510475	7	102.5105	0.005932441	Credible Set	purple
chr7:102510607	7	102.5106	0.005242781	Credible Set	purple
chr7:102516878	7	102.5169	0.005652553	Credible Set	purple
chr7:102531652	7	102.5317	0.004499354	Credible Set	purple
chr7:102561708	7	102.5617	0.006361622	Credible Set	purple
chr7:102565262	7	102.5653	0.015584216	Credible Set	purple
chr7:102565292	7	102.5653	0.015993636	Credible Set	purple
chr7:102565307	7	102.5653	0.015632984	Credible Set	purple
chr7:102565323	7	102.5653	0.016043661	Credible Set	purple
chr7:102565329	7	102.5653	0.016043661	Credible Set	purple
chr7:102596442	7	102.5964	0.005353120	Credible Set	purple
chr7:102619418	7	102.6194	0.004574513	Credible Set	purple
chr7:102619431	7	102.6194	0.004584162	Credible Set	purple

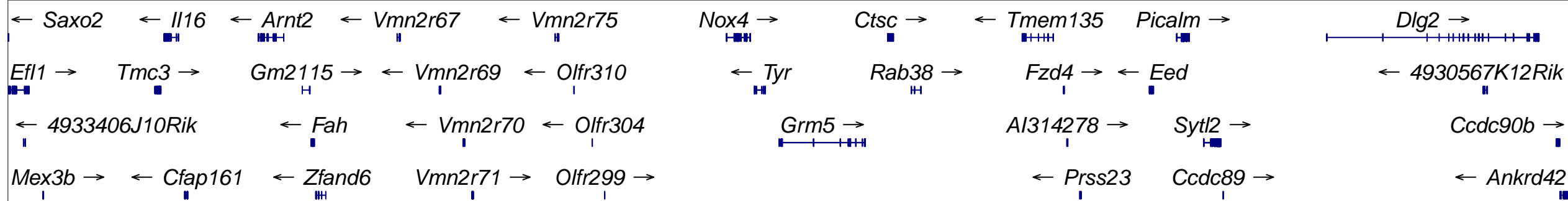
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:102619466	7	102.6195	0.002539171	Credible Set	purple
chr7:102757499	7	102.7575	0.003908190	Credible Set	purple
chr7:103442570	7	103.4426	0.006669963	Credible Set	purple
chr7:103564836	7	103.5648	0.007212812	Credible Set	purple
chr7:103646439	7	103.6464	0.039655634	Credible Set	purple
chr7:103646709	7	103.6467	0.033269131	Credible Set	purple
chr7:103671033	7	103.6710	0.045122825	Credible Set	purple
chr7:103760301	7	103.7603	0.080303862	Credible Set	purple
chr7:103829200	7	103.8292	0.044125024	Credible Set	purple
chr7:103837099	7	103.8371	0.118562548	Credible Set	purple
chr7:103837213	7	103.8372	0.048463508	Credible Set	purple
chr7:103915503	7	103.9155	0.007395257	Credible Set	purple
chr7:103986792	7	103.9868	0.005860667	Credible Set	purple
chr7:103986795	7	103.9868	0.005860667	Credible Set	purple
chr7:103986857	7	103.9869	0.005916115	Credible Set	purple
chr7:103986860	7	103.9869	0.005916115	Credible Set	purple
chr7:104012808	7	104.0128	0.007223316	Credible Set	purple
chr7:104013370	7	104.0134	0.004539445	Credible Set	purple
chr7:104013395	7	104.0134	0.007895879	Credible Set	purple
chr7:104013467	7	104.0135	0.009328578	Credible Set	purple
chr7:104141705	7	104.1417	0.003438599	Credible Set	purple
chr7:104170588	7	104.1706	0.004024190	Credible Set	purple
chr7:104170594	7	104.1706	0.003994168	Credible Set	purple
chr7:104170618	7	104.1706	0.004003845	Credible Set	purple
chr7:104170662	7	104.1707	0.004003845	Credible Set	purple
chr7:104353491	7	104.3535	0.011885581	Credible Set	purple
chr7:104356230	7	104.3562	0.005107791	Credible Set	purple
chr7:104430205	7	104.4302	0.004595604	Credible Set	purple
chr7:104485236	7	104.4852	0.005695110	Credible Set	purple
chr7:104507724	7	104.5077	0.002769857	Credible Set	purple
chr7:104508127	7	104.5081	0.002948166	Credible Set	purple
chr7:104508173	7	104.5082	0.002399265	Credible Set	purple
chr7:104580091	7	104.5801	0.002936084	Credible Set	purple

F34 GBS, coat color, albino



Credible Set



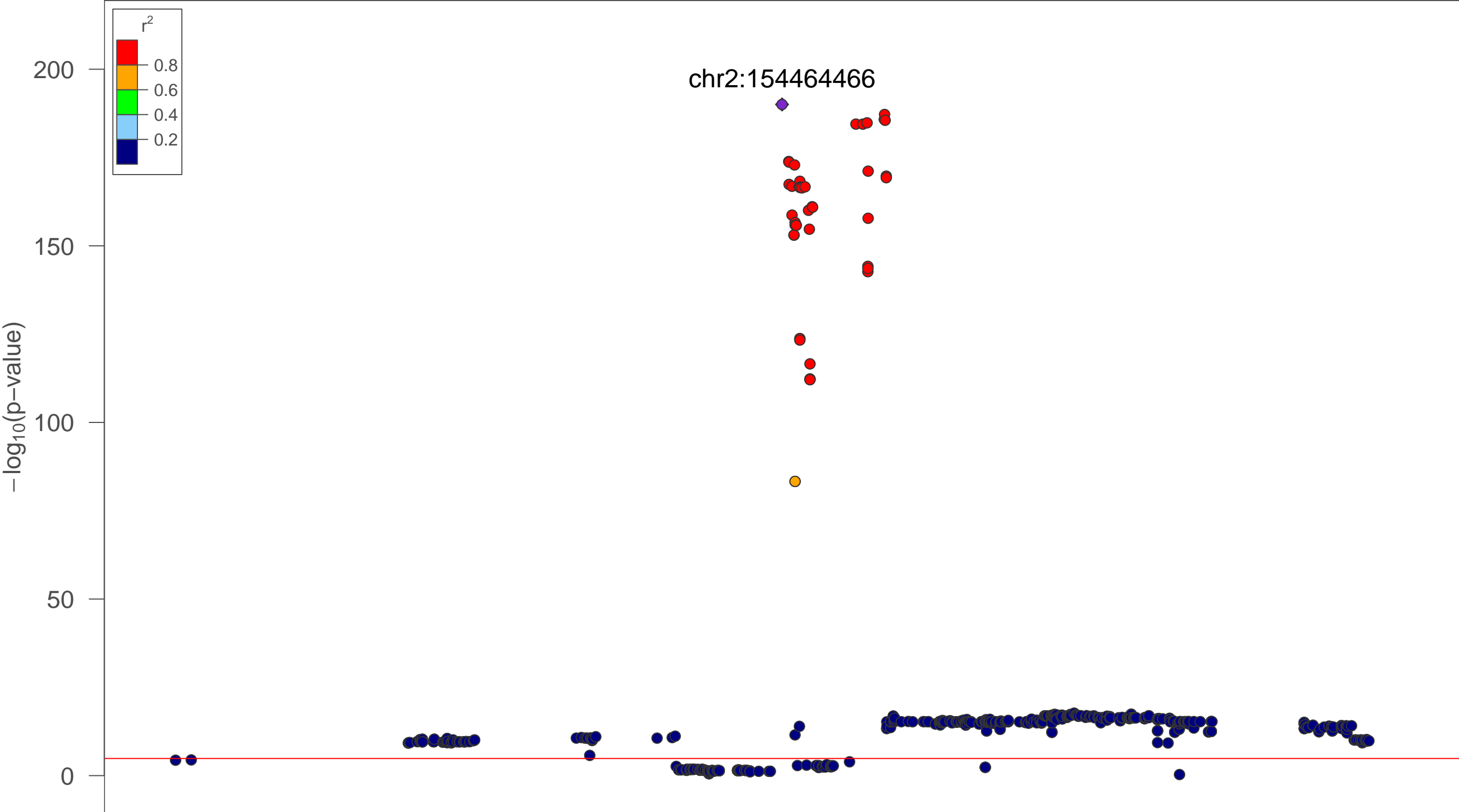
41 genes
omitted

date: Thu Oct 25 17:13:07 2018
build: F34GBS
display range: chr7:82642045–92642045 [82642045–92642045]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87642045
number of SNPs plotted: 282
min P-value: 5E–106 [chr7:87642045]
max P-value: 7.84E–2 [chr7:92543164]
omitted Genes: 4933430H16Rik, Stard5, Mesdc1
omitted Genes: Mesdc2, Cemip, Abhd17c
omitted Genes: 2610206C17Rik, Olfr291, Olfr290
omitted Genes: Vmn2r65, Vmn2r66, Vmn2r68
omitted Genes: Vmn2r72, Vmn2r73, Vmn2r74
omitted Genes: Vmn2r76, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr303
omitted Genes: Olfr301, Olfr298, Olfr297
omitted Genes: Olfr295, Olfr294, Olfr293
omitted Genes: Olfr292, Folh1, Vmn2r77
omitted Genes: Vmn2r78, Vmn2r79, Me3
omitted Genes: Ccdc81, l7Rn6, E230029C05Rik
omitted Genes: 2310010J17Rik, Ccdc83, Crebzf
omitted Genes: Tmem126a, Tmem126b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87554961	7	87.55496	0.04890514	Credible Set	purple
chr7:87642045	7	87.64204	0.51626891	Credible Set	purple
chr7:87665727	7	87.66573	0.43482595	Credible Set	purple

F34 GBS, coat color, agouti



Credible Set

Syndig1 → ← *Vsx1* *Nsfl1c* → *Tbc1d20* → *Xkr7* → *Mapre1* → ← *Necab3* ← *Pigu* ← *Gdf5* *Aar2* → ← *Rbl1* *Vstm2l* → *Actr5* →
← *Zfp120* *Pygb* → *Fkbp1a* → ← *Rbck1* *Ttll9* → *Dnmt3b* → ← *Snta1* *a* → ← *Ggt7* ← *Nfs1* *Myl9* → *Src* → ← *Tti1* *Ppp1r16b* →
Gm14139 → ← *Ninl* ← *Snph* ← *Trib3* ← *Pdrg1* *Efcab8* → *Actl10* → *Itch* → *Procr* → *Epb41l1* → ← *Mroh8* *Rprd1b* → *Dhx35* →
Zfp937 → *Gins1* → ← *Rad21l* ← *Nrsn2* *Ccm2l* → ← *Sun5* ← *E2f1* *Dynlrb1* → *Ergic3* → *Tgif2* → ← *Blcap* *Bpi* →

145 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 17:13:18 2018

build: F34GBS

display range: chr2:149464466–159464466 [149464466–159464466]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:154464466

number of SNPs plotted: 748

min P-value: 9.43E–191 [chr2:154464466]

max P-value: 4.9E–1 [chr2:157396497]

omitted Genes: Gm14124, 3300002I08Rik, Zfp442

omitted Genes: Zfp345, Cst7, Apmap

omitted Genes: Acss1, E130215H24Rik, Entpd6

omitted Genes: Abhd12, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, 4921509C19Rik

omitted Genes: Sdcbp2, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb26, Defb28

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Hck

omitted Genes: Tm9sf4, Tspyl3, Plagl2

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: Ahcy, 2310005A03Rik, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

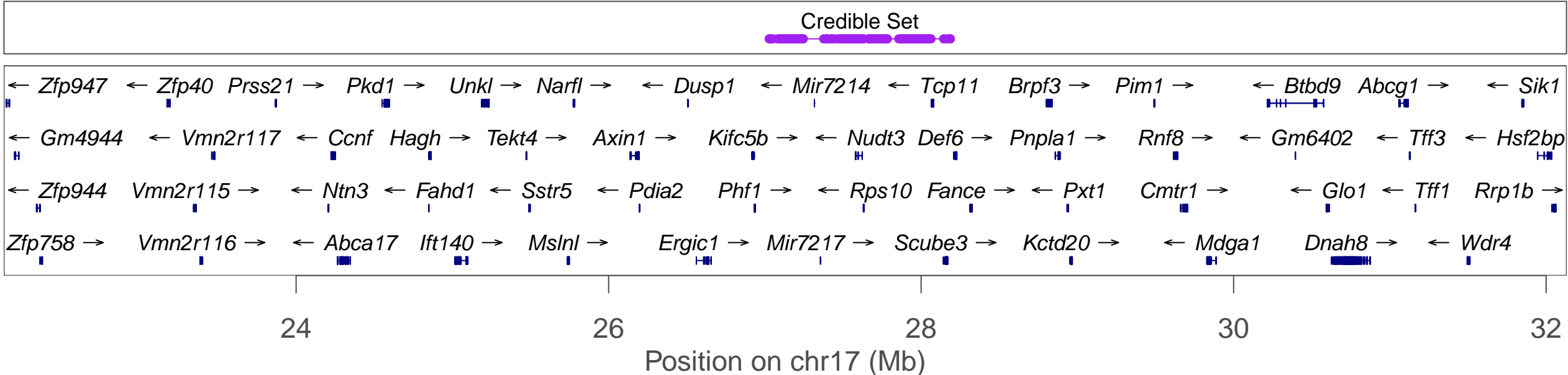
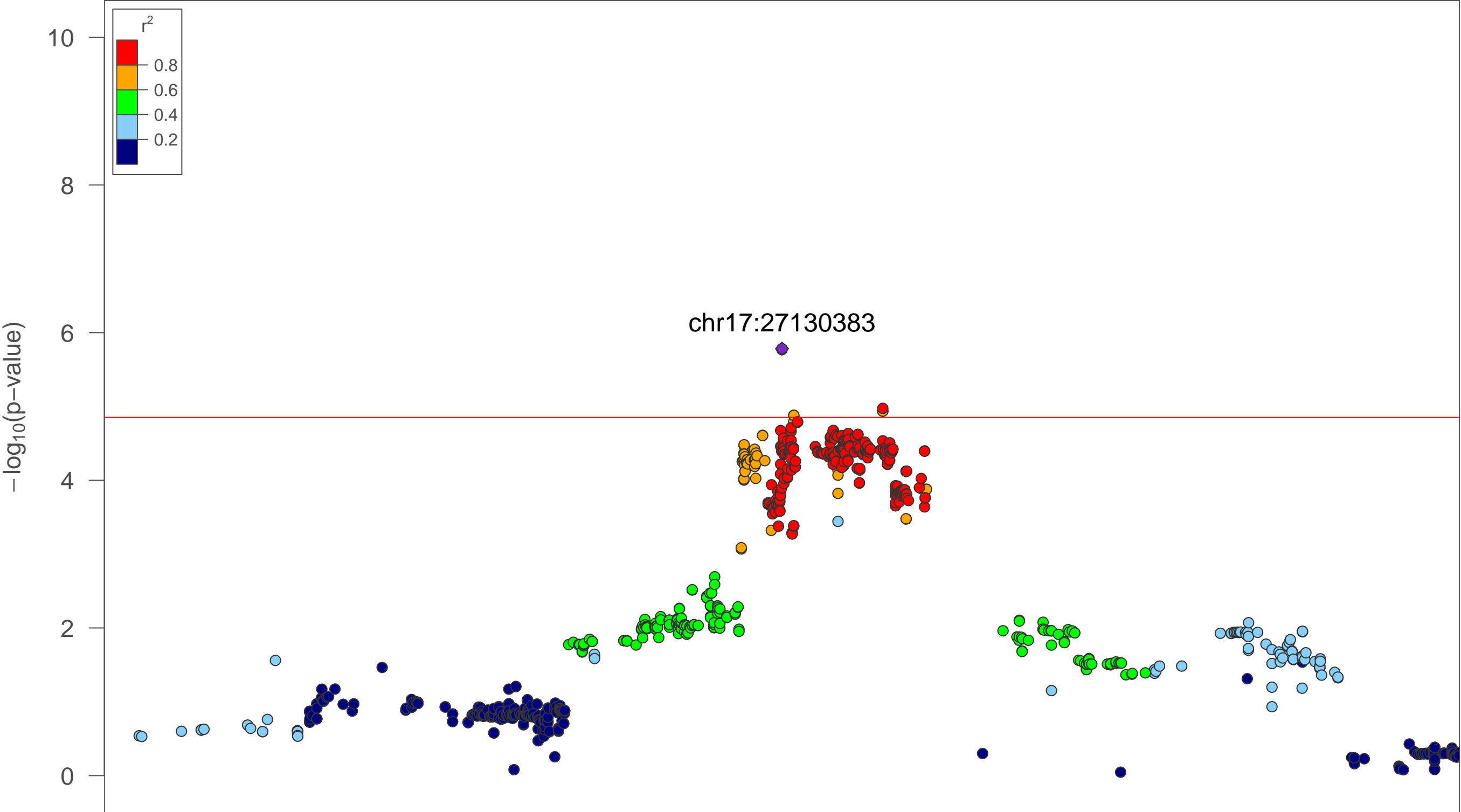
omitted Genes: Myh7b, Mir499, Trnc4ap

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:154464466	2	154.4645	0.9982817	Credible Set	purple

F34 GBS, open field, distance travelled in periphery (cm)



Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27028210	17	27.02821	0.0006905196	Credible Set	purple
chr17:27028984	17	27.02898	0.0006622292	Credible Set	purple
chr17:27035894	17	27.03589	0.0006679480	Credible Set	purple
chr17:27038183	17	27.03818	0.0006708332	Credible Set	purple
chr17:27053285	17	27.05328	0.0011704250	Credible Set	purple
chr17:27083567	17	27.08357	0.0007396722	Credible Set	purple
chr17:27090253	17	27.09025	0.0006679941	Credible Set	purple
chr17:27090308	17	27.09031	0.0006625982	Credible Set	purple
chr17:27092250	17	27.09225	0.0006679236	Credible Set	purple
chr17:27099867	17	27.09987	0.0009607726	Credible Set	purple
chr17:27100129	17	27.10013	0.0007180446	Credible Set	purple
chr17:27104557	17	27.10456	0.0006643762	Credible Set	purple
chr17:27114211	17	27.11421	0.0007016296	Credible Set	purple
chr17:27114427	17	27.11443	0.0007430355	Credible Set	purple
chr17:27119229	17	27.11923	0.0009431507	Credible Set	purple
chr17:27119262	17	27.11926	0.0009350070	Credible Set	purple
chr17:27119650	17	27.11965	0.0016022245	Credible Set	purple
chr17:27119751	17	27.11975	0.0008576135	Credible Set	purple
chr17:27119767	17	27.11977	0.0008532212	Credible Set	purple
chr17:27119789	17	27.11979	0.0008576565	Credible Set	purple
chr17:27120639	17	27.12064	0.0021446983	Credible Set	purple
chr17:27120789	17	27.12079	0.0058109205	Credible Set	purple
chr17:27120982	17	27.12098	0.0036397830	Credible Set	purple
chr17:27124710	17	27.12471	0.0036067340	Credible Set	purple
chr17:27127355	17	27.12736	0.0010606908	Credible Set	purple
chr17:27129483	17	27.12948	0.0031674687	Credible Set	purple
chr17:27129530	17	27.12953	0.0031098902	Credible Set	purple
chr17:27130351	17	27.13035	0.0655034163	Credible Set	purple
chr17:27130379	17	27.13038	0.0650354071	Credible Set	purple
chr17:27130383	17	27.13038	0.0668860613	Credible Set	purple
chr17:27130402	17	27.13040	0.0663849614	Credible Set	purple
chr17:27139266	17	27.13927	0.0035516860	Credible Set	purple
chr17:27140390	17	27.14039	0.0046340897	Credible Set	purple
chr17:27143270	17	27.14327	0.0035863041	Credible Set	purple
chr17:27143279	17	27.14328	0.0035118431	Credible Set	purple
chr17:27143309	17	27.14331	0.0035118431	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27143399	17	27.14340	0.003172901	Credible Set	purple
chr17:27144798	17	27.14480	0.001214051	Credible Set	purple
chr17:27146163	17	27.14616	0.002860352	Credible Set	purple
chr17:27146360	17	27.14636	0.001412914	Credible Set	purple
chr17:27146370	17	27.14637	0.001412914	Credible Set	purple
chr17:27156143	17	27.15614	0.002889728	Credible Set	purple
chr17:27171213	17	27.17121	0.004283235	Credible Set	purple
chr17:27171685	17	27.17169	0.001593529	Credible Set	purple
chr17:27171811	17	27.17181	0.001441306	Credible Set	purple
chr17:27171813	17	27.17181	0.001480138	Credible Set	purple
chr17:27172497	17	27.17250	0.001865232	Credible Set	purple
chr17:27174542	17	27.17454	0.002877318	Credible Set	purple
chr17:27184013	17	27.18401	0.003011507	Credible Set	purple
chr17:27188020	17	27.18802	0.003018626	Credible Set	purple
chr17:27188575	17	27.18858	0.002968736	Credible Set	purple
chr17:27191517	17	27.19152	0.003559769	Credible Set	purple
chr17:27191542	17	27.19154	0.003689981	Credible Set	purple
chr17:27191945	17	27.19195	0.003307282	Credible Set	purple
chr17:27193635	17	27.19364	0.003334340	Credible Set	purple
chr17:27194000	17	27.19400	0.003052373	Credible Set	purple
chr17:27195141	17	27.19514	0.003586952	Credible Set	purple
chr17:27195293	17	27.19529	0.002622497	Credible Set	purple
chr17:27195309	17	27.19531	0.002565096	Credible Set	purple
chr17:27195731	17	27.19573	0.003445560	Credible Set	purple
chr17:27195769	17	27.19577	0.003557021	Credible Set	purple
chr17:27196042	17	27.19604	0.003417150	Credible Set	purple
chr17:27197618	17	27.19762	0.003400012	Credible Set	purple
chr17:27197752	17	27.19775	0.005670945	Credible Set	purple
chr17:27197791	17	27.19779	0.006310012	Credible Set	purple
chr17:27197888	17	27.19789	0.004344106	Credible Set	purple
chr17:27200193	17	27.20019	0.001802654	Credible Set	purple
chr17:27200651	17	27.20065	0.003594198	Credible Set	purple
chr17:27215443	17	27.21544	0.003497046	Credible Set	purple
chr17:27215484	17	27.21548	0.003359707	Credible Set	purple
chr17:27223950	17	27.22395	0.001996354	Credible Set	purple
chr17:27224285	17	27.22428	0.001976200	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27227746	17	27.22775	0.001980280	Credible Set	purple
chr17:27228977	17	27.22898	0.001973063	Credible Set	purple
chr17:27230139	17	27.23014	0.002345358	Credible Set	purple
chr17:27245666	17	27.24567	0.007424828	Credible Set	purple
chr17:27245737	17	27.24574	0.007536836	Credible Set	purple
chr17:27376234	17	27.37623	0.003618079	Credible Set	purple
chr17:27393680	17	27.39368	0.003122487	Credible Set	purple
chr17:27397461	17	27.39746	0.003069704	Credible Set	purple
chr17:27397469	17	27.39747	0.003016427	Credible Set	purple
chr17:27419536	17	27.41954	0.002970358	Credible Set	purple
chr17:27428199	17	27.42820	0.002948887	Credible Set	purple
chr17:27428246	17	27.42825	0.002947730	Credible Set	purple
chr17:27437777	17	27.43778	0.002896468	Credible Set	purple
chr17:27459951	17	27.45995	0.003030526	Credible Set	purple
chr17:27475870	17	27.47587	0.002657809	Credible Set	purple
chr17:27486422	17	27.48642	0.002808491	Credible Set	purple
chr17:27486466	17	27.48647	0.002782808	Credible Set	purple
chr17:27486535	17	27.48653	0.002937368	Credible Set	purple
chr17:27486605	17	27.48661	0.002937368	Credible Set	purple
chr17:27486642	17	27.48664	0.002937368	Credible Set	purple
chr17:27486705	17	27.48671	0.002848904	Credible Set	purple
chr17:27486720	17	27.48672	0.002939042	Credible Set	purple
chr17:27486902	17	27.48690	0.003999480	Credible Set	purple
chr17:27486957	17	27.48696	0.004749891	Credible Set	purple
chr17:27492720	17	27.49272	0.004829780	Credible Set	purple
chr17:27492775	17	27.49278	0.004951286	Credible Set	purple
chr17:27507520	17	27.50752	0.002705067	Credible Set	purple
chr17:27507982	17	27.50798	0.002902714	Credible Set	purple
chr17:27508332	17	27.50833	0.002136315	Credible Set	purple
chr17:27509007	17	27.50901	0.005797119	Credible Set	purple
chr17:27509013	17	27.50901	0.005791401	Credible Set	purple
chr17:27509015	17	27.50902	0.005835558	Credible Set	purple
chr17:27509253	17	27.50925	0.003007173	Credible Set	purple
chr17:27517180	17	27.51718	0.002751952	Credible Set	purple
chr17:27517282	17	27.51728	0.004603356	Credible Set	purple
chr17:27517332	17	27.51733	0.004587039	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27520735	17	27.52073	0.002748236	Credible Set	purple
chr17:27528952	17	27.52895	0.005080409	Credible Set	purple
chr17:27529039	17	27.52904	0.002319879	Credible Set	purple
chr17:27543951	17	27.54395	0.004917564	Credible Set	purple
chr17:27543956	17	27.54396	0.004930713	Credible Set	purple
chr17:27543999	17	27.54400	0.004880749	Credible Set	purple
chr17:27544604	17	27.54460	0.003168622	Credible Set	purple
chr17:27564093	17	27.56409	0.003352451	Credible Set	purple
chr17:27564105	17	27.56411	0.003352451	Credible Set	purple
chr17:27571562	17	27.57156	0.003344775	Credible Set	purple
chr17:27571636	17	27.57164	0.001950998	Credible Set	purple
chr17:27571643	17	27.57164	0.001950998	Credible Set	purple
chr17:27571700	17	27.57170	0.005012142	Credible Set	purple
chr17:27572004	17	27.57200	0.003371118	Credible Set	purple
chr17:27580805	17	27.58081	0.003349890	Credible Set	purple
chr17:27581132	17	27.58113	0.003368510	Credible Set	purple
chr17:27587053	17	27.58705	0.004286323	Credible Set	purple
chr17:27587087	17	27.58709	0.004261357	Credible Set	purple
chr17:27587178	17	27.58718	0.003875413	Credible Set	purple
chr17:27587179	17	27.58718	0.003875413	Credible Set	purple
chr17:27587180	17	27.58718	0.003875413	Credible Set	purple
chr17:27587187	17	27.58719	0.003875413	Credible Set	purple
chr17:27587188	17	27.58719	0.003875413	Credible Set	purple
chr17:27587192	17	27.58719	0.003875413	Credible Set	purple
chr17:27587496	17	27.58750	0.004352865	Credible Set	purple
chr17:27587576	17	27.58758	0.002329053	Credible Set	purple
chr17:27590733	17	27.59073	0.003468632	Credible Set	purple
chr17:27590765	17	27.59077	0.003241280	Credible Set	purple
chr17:27590778	17	27.59078	0.003351669	Credible Set	purple
chr17:27590796	17	27.59080	0.003354960	Credible Set	purple
chr17:27596229	17	27.59623	0.002935597	Credible Set	purple
chr17:27596270	17	27.59627	0.002935317	Credible Set	purple
chr17:27596658	17	27.59666	0.004164313	Credible Set	purple
chr17:27596666	17	27.59667	0.004279920	Credible Set	purple
chr17:27596669	17	27.59667	0.004412048	Credible Set	purple
chr17:27597174	17	27.59717	0.004340178	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27612703	17	27.61270	0.004305540	Credible Set	purple
chr17:27613227	17	27.61323	0.004387607	Credible Set	purple
chr17:27613228	17	27.61323	0.004394670	Credible Set	purple
chr17:27616766	17	27.61677	0.002437642	Credible Set	purple
chr17:27616769	17	27.61677	0.002408529	Credible Set	purple
chr17:27617069	17	27.61707	0.002351613	Credible Set	purple
chr17:27619823	17	27.61982	0.005331907	Credible Set	purple
chr17:27621865	17	27.62186	0.004478968	Credible Set	purple
chr17:27630316	17	27.63032	0.003688785	Credible Set	purple
chr17:27630364	17	27.63036	0.003610154	Credible Set	purple
chr17:27630797	17	27.63080	0.003566265	Credible Set	purple
chr17:27665592	17	27.66559	0.003077830	Credible Set	purple
chr17:27665593	17	27.66559	0.003083298	Credible Set	purple
chr17:27665645	17	27.66565	0.003083298	Credible Set	purple
chr17:27671877	17	27.67188	0.004880048	Credible Set	purple
chr17:27671883	17	27.67188	0.004759104	Credible Set	purple
chr17:27686117	17	27.68612	0.003396868	Credible Set	purple
chr17:27686262	17	27.68626	0.001893958	Credible Set	purple
chr17:27686263	17	27.68626	0.001893958	Credible Set	purple
chr17:27690758	17	27.69076	0.003696990	Credible Set	purple
chr17:27690904	17	27.69090	0.005126885	Credible Set	purple
chr17:27690906	17	27.69091	0.005200503	Credible Set	purple
chr17:27701425	17	27.70143	0.001227921	Credible Set	purple
chr17:27701456	17	27.70146	0.001243876	Credible Set	purple
chr17:27701864	17	27.70186	0.003349890	Credible Set	purple
chr17:27702067	17	27.70207	0.003336597	Credible Set	purple
chr17:27704331	17	27.70433	0.003499133	Credible Set	purple
chr17:27704567	17	27.70457	0.001803896	Credible Set	purple
chr17:27704630	17	27.70463	0.001888245	Credible Set	purple
chr17:27728842	17	27.72884	0.002851367	Credible Set	purple
chr17:27728885	17	27.72888	0.002934453	Credible Set	purple
chr17:27728889	17	27.72889	0.002952041	Credible Set	purple
chr17:27728897	17	27.72890	0.002934453	Credible Set	purple
chr17:27743592	17	27.74359	0.003192428	Credible Set	purple
chr17:27743637	17	27.74364	0.004117684	Credible Set	purple
chr17:27748732	17	27.74873	0.003225522	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27748758	17	27.74876	0.003377620	Credible Set	purple
chr17:27761092	17	27.76109	0.003389158	Credible Set	purple
chr17:27761141	17	27.76114	0.003367948	Credible Set	purple
chr17:27761632	17	27.76163	0.003350055	Credible Set	purple
chr17:27762683	17	27.76268	0.003481436	Credible Set	purple
chr17:27762853	17	27.76285	0.003122038	Credible Set	purple
chr17:27763066	17	27.76307	0.003682703	Credible Set	purple
chr17:27763276	17	27.76328	0.002590740	Credible Set	purple
chr17:27771695	17	27.77170	0.003067641	Credible Set	purple
chr17:27778534	17	27.77853	0.003265639	Credible Set	purple
chr17:27782597	17	27.78260	0.003343349	Credible Set	purple
chr17:27782890	17	27.78289	0.003344144	Credible Set	purple
chr17:27782953	17	27.78295	0.003344144	Credible Set	purple
chr17:27856821	17	27.85682	0.003255148	Credible Set	purple
chr17:27874099	17	27.87410	0.004287132	Credible Set	purple
chr17:27874161	17	27.87416	0.011245136	Credible Set	purple
chr17:27878639	17	27.87864	0.003368408	Credible Set	purple
chr17:27889423	17	27.88942	0.002781855	Credible Set	purple
chr17:27889454	17	27.88945	0.002783606	Credible Set	purple
chr17:27894408	17	27.89441	0.002759443	Credible Set	purple
chr17:27894461	17	27.89446	0.002743438	Credible Set	purple
chr17:27894647	17	27.89465	0.003489548	Credible Set	purple
chr17:27894825	17	27.89483	0.003009436	Credible Set	purple
chr17:27895648	17	27.89565	0.003226592	Credible Set	purple
chr17:27908870	17	27.90887	0.003346538	Credible Set	purple
chr17:27909014	17	27.90901	0.002139331	Credible Set	purple
chr17:27909047	17	27.90905	0.002137497	Credible Set	purple
chr17:27909083	17	27.90908	0.002154310	Credible Set	purple
chr17:27924683	17	27.92468	0.002380880	Credible Set	purple
chr17:27924726	17	27.92473	0.002423893	Credible Set	purple
chr17:27925657	17	27.92566	0.004041239	Credible Set	purple
chr17:27925757	17	27.92576	0.003349890	Credible Set	purple
chr17:27925847	17	27.92585	0.003349890	Credible Set	purple
chr17:27929518	17	27.92952	0.003212652	Credible Set	purple
chr17:27938148	17	27.93815	0.003001811	Credible Set	purple
chr17:27945251	17	27.94525	0.003188269	Credible Set	purple

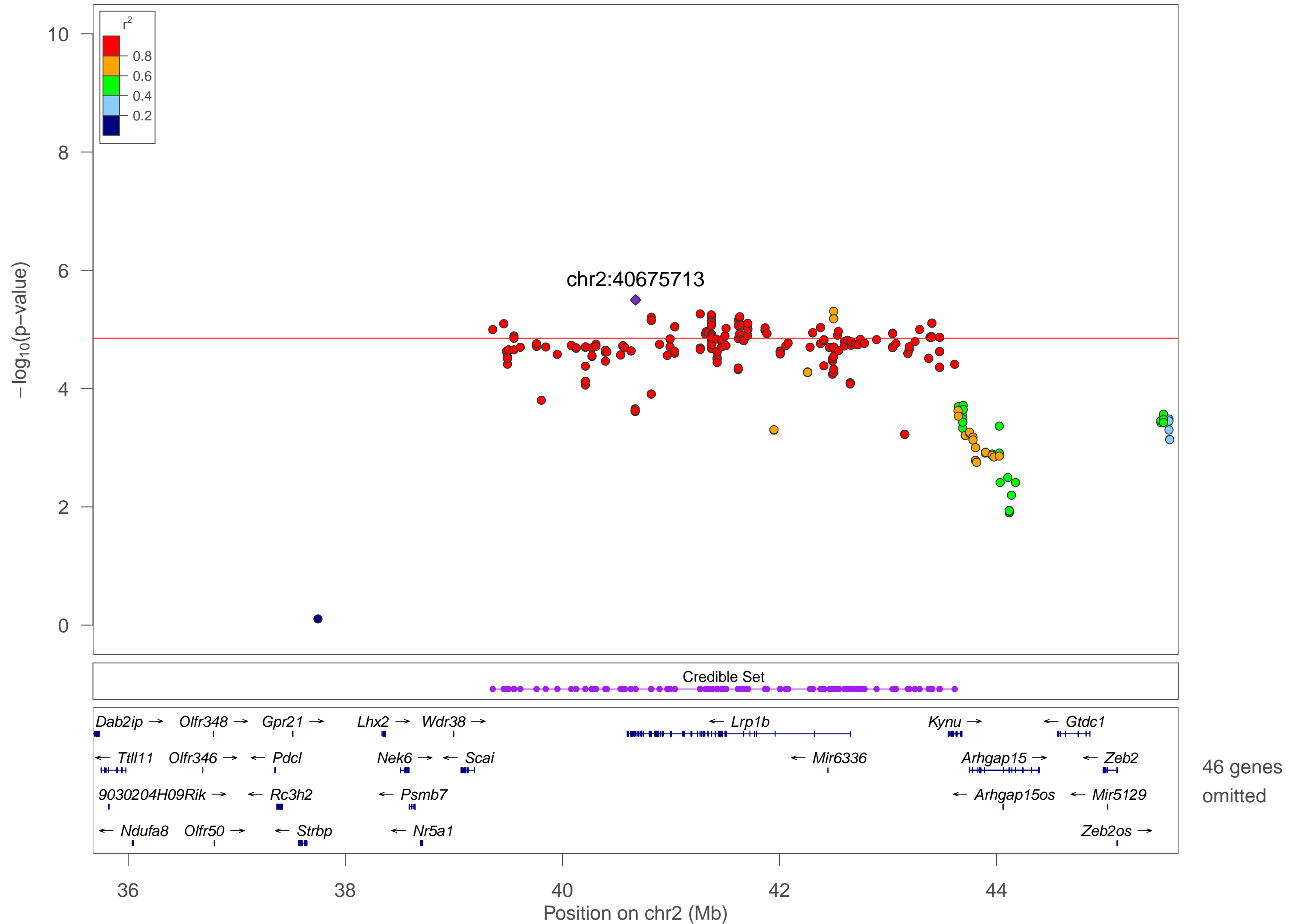
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:27945722	17	27.94572	0.0033441442	Credible Set	purple
chr17:27945734	17	27.94573	0.0033441442	Credible Set	purple
chr17:27945792	17	27.94579	0.0033498899	Credible Set	purple
chr17:27949604	17	27.94960	0.0033498899	Credible Set	purple
chr17:27967905	17	27.96790	0.0008648146	Credible Set	purple
chr17:27968095	17	27.96810	0.0011365013	Credible Set	purple
chr17:27968486	17	27.96849	0.0006912941	Credible Set	purple
chr17:27969063	17	27.96906	0.0009828777	Credible Set	purple
chr17:27978189	17	27.97819	0.0009987248	Credible Set	purple
chr17:27978217	17	27.97822	0.0009987248	Credible Set	purple
chr17:27978305	17	27.97830	0.0008644625	Credible Set	purple
chr17:27982311	17	27.98231	0.0011086752	Credible Set	purple
chr17:27982320	17	27.98232	0.0011252062	Credible Set	purple
chr17:27986901	17	27.98690	0.0009202298	Credible Set	purple
chr17:27996164	17	27.99616	0.0009316572	Credible Set	purple
chr17:27996409	17	27.99641	0.0007122434	Credible Set	purple
chr17:27996433	17	27.99643	0.0007061831	Credible Set	purple
chr17:27998199	17	27.99820	0.0009372187	Credible Set	purple
chr17:28005852	17	28.00585	0.0008597242	Credible Set	purple
chr17:28006277	17	28.00628	0.0009220173	Credible Set	purple
chr17:28009409	17	28.00941	0.0009203198	Credible Set	purple
chr17:28013892	17	28.01389	0.0008496057	Credible Set	purple
chr17:28016695	17	28.01669	0.0009987248	Credible Set	purple
chr17:28016697	17	28.01670	0.0009987248	Credible Set	purple
chr17:28016702	17	28.01670	0.0009987248	Credible Set	purple
chr17:28016770	17	28.01677	0.0009653182	Credible Set	purple
chr17:28023882	17	28.02388	0.0008816039	Credible Set	purple
chr17:28024097	17	28.02410	0.0010087990	Credible Set	purple
chr17:28026770	17	28.02677	0.0009805809	Credible Set	purple
chr17:28036756	17	28.03676	0.0010088315	Credible Set	purple
chr17:28037425	17	28.03742	0.0008502947	Credible Set	purple
chr17:28046103	17	28.04610	0.0017489299	Credible Set	purple
chr17:28046109	17	28.04611	0.0017300678	Credible Set	purple
chr17:28046746	17	28.04675	0.0008583626	Credible Set	purple
chr17:28046753	17	28.04675	0.0008987162	Credible Set	purple
chr17:28050079	17	28.05008	0.0008890477	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr17:28050266	17	28.05027	0.0007842086	Credible Set	purple
chr17:28050607	17	28.05061	0.0017435338	Credible Set	purple
chr17:28063789	17	28.06379	0.0007356959	Credible Set	purple
chr17:28144309	17	28.14431	0.0010739984	Credible Set	purple
chr17:28157995	17	28.15799	0.0014091523	Credible Set	purple
chr17:28182743	17	28.18274	0.0031813313	Credible Set	purple
chr17:28182775	17	28.18277	0.0031455848	Credible Set	purple
chr17:28186934	17	28.18693	0.0007944738	Credible Set	purple
chr17:28186976	17	28.18698	0.0007971036	Credible Set	purple

F34 GBS, fear conditioning, freezing to context day 2



date: Thu Oct 25 17:14:07 2018
build: F34GBS
display range: chr2:35675713–45675713 [35675713–45675713]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr2:40675713
number of SNPs plotted: 274
min P-value: 3.16E–6 [chr2:40675713]
max P-value: 7.84E–1 [chr2:37748995]
omitted Genes: Morn5, Lhx6, Rbm18
omitted Genes: Mrrf, Ptgs1, Olfr338
omitted Genes: Olfr339, Olfr340, Olfr341
omitted Genes: Olfr342, Olfr344, Olfr345
omitted Genes: Olfr347, Olfr3, Olfr350
omitted Genes: Olfr351, Olfr352, Olfr353
omitted Genes: Olfr354, Olfr355, Olfr356
omitted Genes: Olfr357, Olfr358, Olfr360
omitted Genes: Olfr361, Olfr362, Olfr365
omitted Genes: Olfr366, Olfr367–ps, Olfr368
omitted Genes: Snord90, Zbtb6, Zbtb26
omitted Genes: Rabgap1, Mir5128, Crb2
omitted Genes: Dennd1a, Nr6a1, Mir181a–2
omitted Genes: Mir181b–2, Olfml2a, Rpl35
omitted Genes: Arpc5l, Golga1, Gm16523
omitted Genes: Ppp6c

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:39359208	2	39.35921	0.007548244	Credible Set	purple
chr2:39460505	2	39.46050	0.009372509	Credible Set	purple
chr2:39460561	2	39.46056	0.009375488	Credible Set	purple
chr2:39484371	2	39.48437	0.003359347	Credible Set	purple
chr2:39493906	2	39.49391	0.002756126	Credible Set	purple
chr2:39494797	2	39.49480	0.002087167	Credible Set	purple
chr2:39494848	2	39.49485	0.002597478	Credible Set	purple
chr2:39494860	2	39.49486	0.002591278	Credible Set	purple
chr2:39494876	2	39.49488	0.002597478	Credible Set	purple
chr2:39505733	2	39.50573	0.003555626	Credible Set	purple
chr2:39505816	2	39.50582	0.003554107	Credible Set	purple
chr2:39554087	2	39.55409	0.003557820	Credible Set	purple
chr2:39554255	2	39.55425	0.005954087	Credible Set	purple
chr2:39554302	2	39.55430	0.005469651	Credible Set	purple
chr2:39554330	2	39.55433	0.005477828	Credible Set	purple
chr2:39612884	2	39.61288	0.003911576	Credible Set	purple
chr2:39762768	2	39.76277	0.004035344	Credible Set	purple
chr2:39762904	2	39.76290	0.004457605	Credible Set	purple
chr2:39847233	2	39.84723	0.003951008	Credible Set	purple
chr2:39954028	2	39.95403	0.003014100	Credible Set	purple
chr2:40082594	2	40.08259	0.004188936	Credible Set	purple
chr2:40127679	2	40.12768	0.003760456	Credible Set	purple
chr2:40127769	2	40.12777	0.003834860	Credible Set	purple
chr2:40127812	2	40.12781	0.003834860	Credible Set	purple
chr2:40212829	2	40.21283	0.001945604	Credible Set	purple
chr2:40213202	2	40.21320	0.003902104	Credible Set	purple
chr2:40213736	2	40.21374	0.003976946	Credible Set	purple
chr2:40273583	2	40.27358	0.003834860	Credible Set	purple
chr2:40273640	2	40.27364	0.003834860	Credible Set	purple
chr2:40273652	2	40.27365	0.003834860	Credible Set	purple
chr2:40273690	2	40.27369	0.002784294	Credible Set	purple
chr2:40273730	2	40.27373	0.002846471	Credible Set	purple
chr2:40309721	2	40.30972	0.004378585	Credible Set	purple
chr2:40309754	2	40.30975	0.004040999	Credible Set	purple
chr2:40397532	2	40.39753	0.002335952	Credible Set	purple
chr2:40397564	2	40.39756	0.003250080	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:40397616	2	40.39762	0.003511113	Credible Set	purple
chr2:40410289	2	40.41029	0.003298775	Credible Set	purple
chr2:40536999	2	40.53700	0.002959671	Credible Set	purple
chr2:40537001	2	40.53700	0.002927420	Credible Set	purple
chr2:40558241	2	40.55824	0.004128112	Credible Set	purple
chr2:40558249	2	40.55825	0.004128112	Credible Set	purple
chr2:40558252	2	40.55825	0.004126635	Credible Set	purple
chr2:40576355	2	40.57635	0.003828971	Credible Set	purple
chr2:40633282	2	40.63328	0.003418566	Credible Set	purple
chr2:40633327	2	40.63333	0.003427448	Credible Set	purple
chr2:40675713	2	40.67571	0.022796704	Credible Set	purple
chr2:40819654	2	40.81965	0.011948699	Credible Set	purple
chr2:40819655	2	40.81965	0.010590288	Credible Set	purple
chr2:40819681	2	40.81968	0.010670779	Credible Set	purple
chr2:40895540	2	40.89554	0.004354632	Credible Set	purple
chr2:40966785	2	40.96679	0.002890867	Credible Set	purple
chr2:40993125	2	40.99312	0.003964297	Credible Set	purple
chr2:40993261	2	40.99326	0.005339714	Credible Set	purple
chr2:40993264	2	40.99326	0.005300705	Credible Set	purple
chr2:41034946	2	41.03495	0.003133902	Credible Set	purple
chr2:41034956	2	41.03496	0.003370645	Credible Set	purple
chr2:41035611	2	41.03561	0.008381406	Credible Set	purple
chr2:41035612	2	41.03561	0.008381406	Credible Set	purple
chr2:41035617	2	41.03562	0.008381406	Credible Set	purple
chr2:41270329	2	41.27033	0.003800026	Credible Set	purple
chr2:41270331	2	41.27033	0.003799849	Credible Set	purple
chr2:41270370	2	41.27037	0.003596583	Credible Set	purple
chr2:41270733	2	41.27073	0.013531669	Credible Set	purple
chr2:41318161	2	41.31816	0.006420104	Credible Set	purple
chr2:41325733	2	41.32573	0.006979490	Credible Set	purple
chr2:41344260	2	41.34426	0.006809245	Credible Set	purple
chr2:41373379	2	41.37338	0.012061739	Credible Set	purple
chr2:41373395	2	41.37340	0.013062810	Credible Set	purple
chr2:41373397	2	41.37340	0.010593303	Credible Set	purple
chr2:41373418	2	41.37342	0.009852093	Credible Set	purple
chr2:41373858	2	41.37386	0.008776557	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:41374907	2	41.37491	0.006334603	Credible Set	purple
chr2:41374921	2	41.37492	0.006011556	Credible Set	purple
chr2:41375382	2	41.37538	0.005007241	Credible Set	purple
chr2:41375442	2	41.37544	0.005575538	Credible Set	purple
chr2:41375546	2	41.37555	0.003718006	Credible Set	purple
chr2:41375551	2	41.37555	0.004310690	Credible Set	purple
chr2:41420007	2	41.42001	0.005285896	Credible Set	purple
chr2:41426404	2	41.42640	0.002615679	Credible Set	purple
chr2:41426414	2	41.42641	0.002614234	Credible Set	purple
chr2:41426429	2	41.42643	0.003302609	Credible Set	purple
chr2:41426432	2	41.42643	0.002520385	Credible Set	purple
chr2:41426436	2	41.42644	0.002221909	Credible Set	purple
chr2:41467642	2	41.46764	0.003955334	Credible Set	purple
chr2:41468064	2	41.46806	0.004911632	Credible Set	purple
chr2:41471314	2	41.47131	0.005155447	Credible Set	purple
chr2:41498784	2	41.49878	0.005987205	Credible Set	purple
chr2:41507457	2	41.50746	0.004159746	Credible Set	purple
chr2:41508402	2	41.50840	0.007893868	Credible Set	purple
chr2:41619931	2	41.61993	0.001714713	Credible Set	purple
chr2:41619935	2	41.61993	0.001814831	Credible Set	purple
chr2:41620001	2	41.62000	0.001783550	Credible Set	purple
chr2:41622012	2	41.62201	0.005378711	Credible Set	purple
chr2:41622721	2	41.62272	0.008975935	Credible Set	purple
chr2:41622751	2	41.62275	0.010758238	Credible Set	purple
chr2:41622763	2	41.62276	0.008683312	Credible Set	purple
chr2:41633469	2	41.63347	0.006472353	Credible Set	purple
chr2:41633904	2	41.63390	0.012039397	Credible Set	purple
chr2:41633967	2	41.63397	0.011723121	Credible Set	purple
chr2:41633971	2	41.63397	0.012185559	Credible Set	purple
chr2:41652829	2	41.65283	0.006009589	Credible Set	purple
chr2:41653372	2	41.65337	0.008902364	Credible Set	purple
chr2:41661623	2	41.66162	0.005124683	Credible Set	purple
chr2:41666380	2	41.66638	0.005305685	Credible Set	purple
chr2:41672293	2	41.67229	0.005022459	Credible Set	purple
chr2:41672310	2	41.67231	0.005022459	Credible Set	purple
chr2:41672317	2	41.67232	0.005022459	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:41706826	2	41.70683	0.006108973	Credible Set	purple
chr2:41706866	2	41.70687	0.006094456	Credible Set	purple
chr2:41707052	2	41.70705	0.007974998	Credible Set	purple
chr2:41708898	2	41.70890	0.007697465	Credible Set	purple
chr2:41708916	2	41.70892	0.007697465	Credible Set	purple
chr2:41709000	2	41.70900	0.009530093	Credible Set	purple
chr2:41868150	2	41.86815	0.007425278	Credible Set	purple
chr2:41868765	2	41.86877	0.008051082	Credible Set	purple
chr2:41884228	2	41.88423	0.006524157	Credible Set	purple
chr2:41884645	2	41.88464	0.006507704	Credible Set	purple
chr2:42008023	2	42.00802	0.003406870	Credible Set	purple
chr2:42008027	2	42.00803	0.003288098	Credible Set	purple
chr2:42008064	2	42.00806	0.003342753	Credible Set	purple
chr2:42008225	2	42.00823	0.003054640	Credible Set	purple
chr2:42008231	2	42.00823	0.003083756	Credible Set	purple
chr2:42059626	2	42.05963	0.004146350	Credible Set	purple
chr2:42080261	2	42.08026	0.004579822	Credible Set	purple
chr2:42282211	2	42.28221	0.003923834	Credible Set	purple
chr2:42307494	2	42.30749	0.006697496	Credible Set	purple
chr2:42307501	2	42.30750	0.006733021	Credible Set	purple
chr2:42379072	2	42.37907	0.008141966	Credible Set	purple
chr2:42379092	2	42.37909	0.004466849	Credible Set	purple
chr2:42409383	2	42.40938	0.001969462	Credible Set	purple
chr2:42409544	2	42.40954	0.004994454	Credible Set	purple
chr2:42409580	2	42.40958	0.005162732	Credible Set	purple
chr2:42409609	2	42.40961	0.005165707	Credible Set	purple
chr2:42461317	2	42.46132	0.003880943	Credible Set	purple
chr2:42489186	2	42.48919	0.001444107	Credible Set	purple
chr2:42489404	2	42.48940	0.002345778	Credible Set	purple
chr2:42489412	2	42.48941	0.002554452	Credible Set	purple
chr2:42500142	2	42.50014	0.003736525	Credible Set	purple
chr2:42500166	2	42.50017	0.003950726	Credible Set	purple
chr2:42500195	2	42.50019	0.003939746	Credible Set	purple
chr2:42500470	2	42.50047	0.002793201	Credible Set	purple
chr2:42500907	2	42.50091	0.001526252	Credible Set	purple
chr2:42500955	2	42.50095	0.001733242	Credible Set	purple

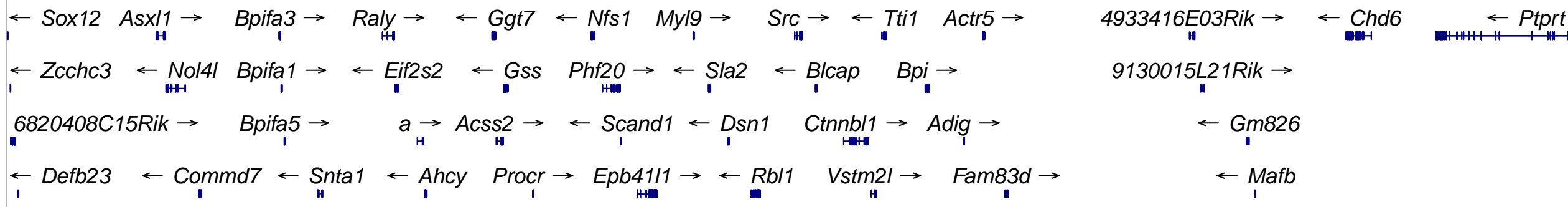
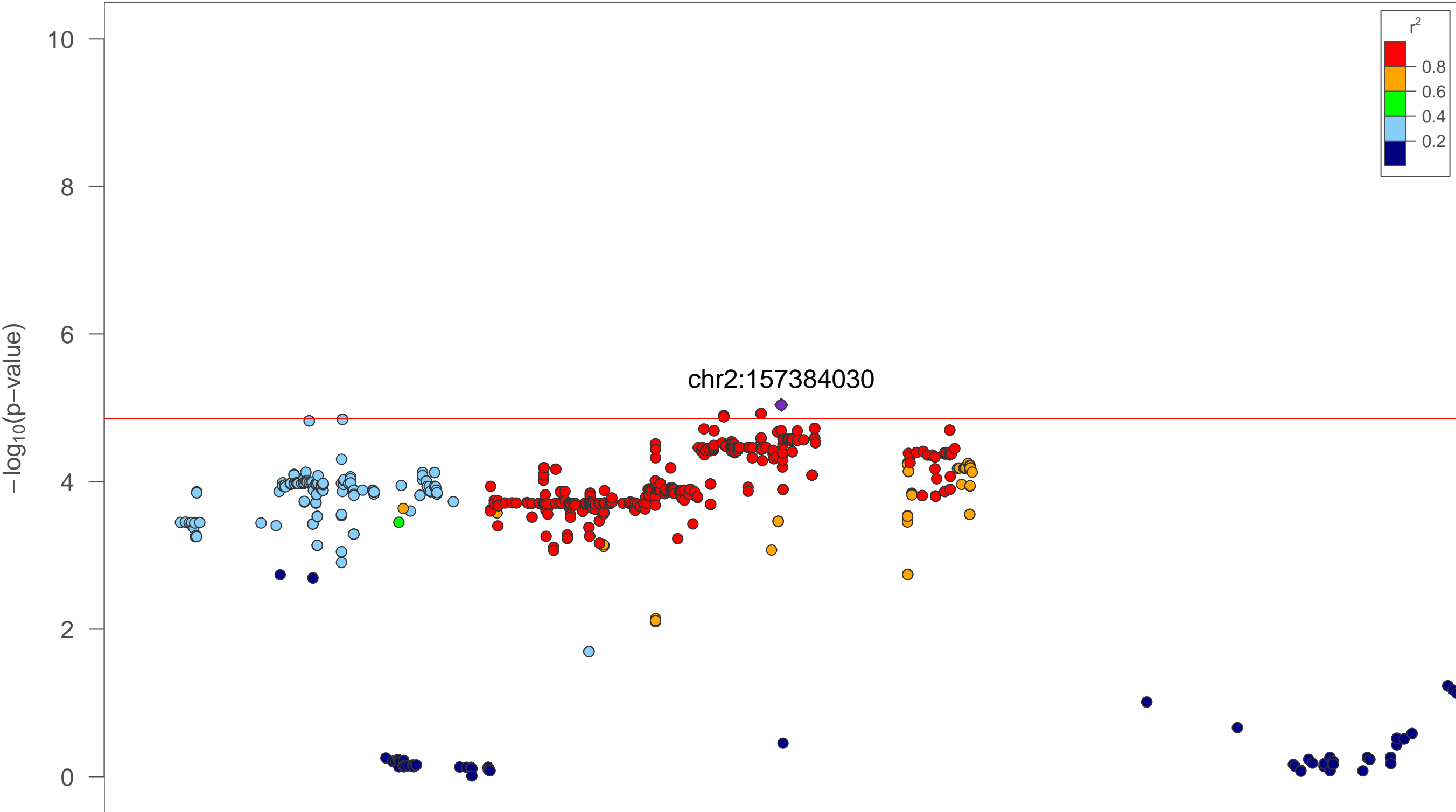
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:42535122	2	42.53512	0.006117644	Credible Set	purple
chr2:42543271	2	42.54327	0.007025324	Credible Set	purple
chr2:42547701	2	42.54770	0.003463079	Credible Set	purple
chr2:42599483	2	42.59948	0.004837144	Credible Set	purple
chr2:42599828	2	42.59983	0.004104847	Credible Set	purple
chr2:42627072	2	42.62707	0.005084259	Credible Set	purple
chr2:42652766	2	42.65277	0.004721332	Credible Set	purple
chr2:42661197	2	42.66120	0.004217076	Credible Set	purple
chr2:42661577	2	42.66158	0.004799634	Credible Set	purple
chr2:42698140	2	42.69814	0.004414216	Credible Set	purple
chr2:42724203	2	42.72420	0.004300084	Credible Set	purple
chr2:42745376	2	42.74538	0.005243831	Credible Set	purple
chr2:42781323	2	42.78132	0.004516269	Credible Set	purple
chr2:42783202	2	42.78320	0.004580945	Credible Set	purple
chr2:42783471	2	42.78347	0.004501612	Credible Set	purple
chr2:42895360	2	42.89536	0.005193245	Credible Set	purple
chr2:43043152	2	43.04315	0.003998648	Credible Set	purple
chr2:43043214	2	43.04321	0.003852870	Credible Set	purple
chr2:43043633	2	43.04363	0.006509506	Credible Set	purple
chr2:43043675	2	43.04368	0.006607507	Credible Set	purple
chr2:43043682	2	43.04368	0.006499695	Credible Set	purple
chr2:43073408	2	43.07341	0.004494607	Credible Set	purple
chr2:43183452	2	43.18345	0.003104119	Credible Set	purple
chr2:43183517	2	43.18352	0.003102081	Credible Set	purple
chr2:43196679	2	43.19668	0.003643281	Credible Set	purple
chr2:43196709	2	43.19671	0.003624458	Credible Set	purple
chr2:43196873	2	43.19687	0.003986405	Credible Set	purple
chr2:43249424	2	43.24942	0.004822599	Credible Set	purple
chr2:43292233	2	43.29223	0.007569541	Credible Set	purple
chr2:43375733	2	43.37573	0.002581464	Credible Set	purple
chr2:43375782	2	43.37578	0.002605897	Credible Set	purple
chr2:43386699	2	43.38670	0.005667022	Credible Set	purple
chr2:43399155	2	43.39916	0.005849502	Credible Set	purple
chr2:43405381	2	43.40538	0.005670873	Credible Set	purple
chr2:43405453	2	43.40545	0.009534120	Credible Set	purple
chr2:43405489	2	43.40549	0.009630139	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:43476031	2	43.47603	0.003346023	Credible Set	purple
chr2:43476032	2	43.47603	0.003329906	Credible Set	purple
chr2:43476033	2	43.47603	0.003329906	Credible Set	purple
chr2:43476096	2	43.47610	0.005667022	Credible Set	purple
chr2:43476171	2	43.47617	0.001867513	Credible Set	purple
chr2:43476172	2	43.47617	0.001867513	Credible Set	purple
chr2:43476173	2	43.47617	0.001867513	Credible Set	purple
chr2:43476189	2	43.47619	0.001867513	Credible Set	purple
chr2:43476235	2	43.47624	0.005667022	Credible Set	purple
chr2:43476254	2	43.47625	0.005667022	Credible Set	purple
chr2:43476258	2	43.47626	0.005667022	Credible Set	purple
chr2:43614807	2	43.61481	0.002081936	Credible Set	purple

F34 GBS, heart weight (mg)



122 genes
omitted

date: Thu Oct 25 17:14:22 2018

build: F34GBS

display range: chr2:152384030–162384030 [152384030–162384030]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:157384030

number of SNPs plotted: 729

min P-value: 9.12E–6 [chr2:157384030]

max P-value: 9.73E–1 [chr2:155099522]

omitted Genes: Defb20, Defb22, Defb26

omitted Genes: Defb28, Defb29, Defb21

omitted Genes: Defb19, Defb45, Defb36

omitted Genes: Defb25, Rem1, H13

omitted Genes: Mcts2, Id1, Cox4i2

omitted Genes: Bcl2l1, Tpx2, Mir5622

omitted Genes: Mylk2, Foxs1, Dusp15

omitted Genes: Tll9, Pdrg1, Xkr7

omitted Genes: Ccm2l, Hck, Tm9sf4

omitted Genes: Tspyl3, Plagl2, Pofut1

omitted Genes: Kif3b, 2500004C02Rik, Dnmt3b

omitted Genes: Mapre1, Efcab8, Sun5

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: Necab3, 1700003F12Rik, Actl10

omitted Genes: E2f1, Pxmp4, Zfp341

omitted Genes: Chmp4b, 2310005A03Rik, Itch

omitted Genes: Dynlrb1, Map1lc3a, Pigu

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2os, Myh7b, Mir499

omitted Genes: Trpc4ap, Edem2, Mmp24

omitted Genes: BC029722, Eif6, Fam83c

omitted Genes: Uqcc1, Gdf5, Cep250

omitted Genes: 6430550D23Rik, Ergic3, Fer1l4

omitted Genes: Spag4, Cpne1, Rbm12

omitted Genes: Romo1, Rbm39, Cnbd2

omitted Genes: 2900097C17Rik, Aar2, Gm14169

omitted Genes: Dlgap4, 4930405A21Rik, Tgif2

omitted Genes: 5430405H02Rik, 1110008F13Rik, Ndrp3

omitted Genes: Soga1, Tldc2, Samhd1

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155236637	2	155.2366	0.0007199393	Credible Set	purple
chr2:155236657	2	155.2367	0.0007136158	Credible Set	purple
chr2:155236987	2	155.2370	0.0006939292	Credible Set	purple
chr2:155237968	2	155.2380	0.0014328956	Credible Set	purple
chr2:155264835	2	155.2648	0.0009474776	Credible Set	purple
chr2:155265639	2	155.2656	0.0008729028	Credible Set	purple
chr2:155266429	2	155.2664	0.0008427265	Credible Set	purple
chr2:155266459	2	155.2665	0.0008720977	Credible Set	purple
chr2:155291486	2	155.2915	0.0008908124	Credible Set	purple
chr2:155294582	2	155.2946	0.0009336505	Credible Set	purple
chr2:155294781	2	155.2948	0.0008242966	Credible Set	purple
chr2:155294817	2	155.2948	0.0008071419	Credible Set	purple
chr2:155344176	2	155.3442	0.0008784186	Credible Set	purple
chr2:155396284	2	155.3963	0.0008830479	Credible Set	purple
chr2:155427716	2	155.4277	0.0008786755	Credible Set	purple
chr2:155506374	2	155.5064	0.0008902493	Credible Set	purple
chr2:155514315	2	155.5143	0.0008729584	Credible Set	purple
chr2:155542937	2	155.5429	0.0008682669	Credible Set	purple
chr2:155596243	2	155.5962	0.0008729375	Credible Set	purple
chr2:155596245	2	155.5962	0.0008729375	Credible Set	purple
chr2:155596254	2	155.5963	0.0008729375	Credible Set	purple
chr2:155626668	2	155.6267	0.0008729584	Credible Set	purple
chr2:155626706	2	155.6267	0.0008729584	Credible Set	purple
chr2:155626733	2	155.6267	0.0008284808	Credible Set	purple
chr2:155626741	2	155.6267	0.0008240148	Credible Set	purple
chr2:155627928	2	155.6279	0.0017096500	Credible Set	purple
chr2:155629232	2	155.6292	0.0020257733	Credible Set	purple
chr2:155629273	2	155.6293	0.0020068561	Credible Set	purple
chr2:155629287	2	155.6293	0.0020151674	Credible Set	purple
chr2:155629299	2	155.6293	0.0020162105	Credible Set	purple
chr2:155630405	2	155.6304	0.0008729584	Credible Set	purple
chr2:155630630	2	155.6306	0.0008729584	Credible Set	purple
chr2:155630746	2	155.6307	0.0008729584	Credible Set	purple
chr2:155631110	2	155.6311	0.0008612540	Credible Set	purple
chr2:155631278	2	155.6313	0.0024809687	Credible Set	purple
chr2:155631284	2	155.6313	0.0024809687	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155631311	2	155.6313	0.0024809687	Credible Set	purple
chr2:155632202	2	155.6322	0.0008729584	Credible Set	purple
chr2:155632358	2	155.6324	0.0008969433	Credible Set	purple
chr2:155632880	2	155.6329	0.0008530782	Credible Set	purple
chr2:155633328	2	155.6333	0.0008750734	Credible Set	purple
chr2:155640583	2	155.6406	0.0008721286	Credible Set	purple
chr2:155640694	2	155.6407	0.0008825599	Credible Set	purple
chr2:155640700	2	155.6407	0.0008825599	Credible Set	purple
chr2:155641730	2	155.6417	0.0011207552	Credible Set	purple
chr2:155647032	2	155.6470	0.0006982295	Credible Set	purple
chr2:155647066	2	155.6471	0.0008546250	Credible Set	purple
chr2:155659679	2	155.6597	0.0007542431	Credible Set	purple
chr2:155664276	2	155.6643	0.0008553533	Credible Set	purple
chr2:155718717	2	155.7187	0.0008729584	Credible Set	purple
chr2:155718886	2	155.7189	0.0023705272	Credible Set	purple
chr2:155718943	2	155.7189	0.0023801897	Credible Set	purple
chr2:155748773	2	155.7488	0.0008729584	Credible Set	purple
chr2:155754530	2	155.7545	0.0012327921	Credible Set	purple
chr2:155754728	2	155.7547	0.0012082383	Credible Set	purple
chr2:155765708	2	155.7657	0.0008729584	Credible Set	purple
chr2:155787135	2	155.7871	0.0012369428	Credible Set	purple
chr2:155787323	2	155.7873	0.0009387213	Credible Set	purple
chr2:155813877	2	155.8139	0.0008614602	Credible Set	purple
chr2:155816627	2	155.8166	0.0008729584	Credible Set	purple
chr2:155818442	2	155.8184	0.0008729584	Credible Set	purple
chr2:155819513	2	155.8195	0.0008729584	Credible Set	purple
chr2:155819633	2	155.8196	0.0007644669	Credible Set	purple
chr2:155819676	2	155.8197	0.0007721204	Credible Set	purple
chr2:155828085	2	155.8281	0.0008668923	Credible Set	purple
chr2:155828345	2	155.8283	0.0008751667	Credible Set	purple
chr2:155828819	2	155.8288	0.0008233466	Credible Set	purple
chr2:155830487	2	155.8305	0.0008729584	Credible Set	purple
chr2:155830972	2	155.8310	0.0008404790	Credible Set	purple
chr2:155843797	2	155.8438	0.0008729584	Credible Set	purple
chr2:155843802	2	155.8438	0.0008729584	Credible Set	purple
chr2:155845413	2	155.8454	0.0008658399	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155859749	2	155.8597	0.0008729584	Credible Set	purple
chr2:155860022	2	155.8600	0.0008248830	Credible Set	purple
chr2:155917786	2	155.9178	0.0006886365	Credible Set	purple
chr2:155917800	2	155.9178	0.0006855513	Credible Set	purple
chr2:155934881	2	155.9349	0.0008749813	Credible Set	purple
chr2:155935242	2	155.9352	0.0008471720	Credible Set	purple
chr2:155941490	2	155.9415	0.0008729584	Credible Set	purple
chr2:155941536	2	155.9415	0.0008729584	Credible Set	purple
chr2:155962070	2	155.9621	0.0008729584	Credible Set	purple
chr2:155968871	2	155.9689	0.0008455660	Credible Set	purple
chr2:155968907	2	155.9689	0.0008455660	Credible Set	purple
chr2:155969145	2	155.9691	0.0009201868	Credible Set	purple
chr2:155969338	2	155.9693	0.0008729584	Credible Set	purple
chr2:155973018	2	155.9730	0.0011764984	Credible Set	purple
chr2:155973035	2	155.9730	0.0011544100	Credible Set	purple
chr2:155973441	2	155.9734	0.0010746205	Credible Set	purple
chr2:155973467	2	155.9735	0.0010746205	Credible Set	purple
chr2:155973697	2	155.9737	0.0008706290	Credible Set	purple
chr2:155974320	2	155.9743	0.0009072750	Credible Set	purple
chr2:155974339	2	155.9743	0.0008180992	Credible Set	purple
chr2:155974623	2	155.9746	0.0008729584	Credible Set	purple
chr2:155985744	2	155.9857	0.0008525414	Credible Set	purple
chr2:155986052	2	155.9861	0.0008729584	Credible Set	purple
chr2:155988485	2	155.9885	0.0008757936	Credible Set	purple
chr2:155989053	2	155.9891	0.0007539538	Credible Set	purple
chr2:155991302	2	155.9913	0.0008729584	Credible Set	purple
chr2:155991810	2	155.9918	0.0008729584	Credible Set	purple
chr2:155992021	2	155.9920	0.0008729584	Credible Set	purple
chr2:155997923	2	155.9979	0.0008554985	Credible Set	purple
chr2:155998479	2	155.9985	0.0008859869	Credible Set	purple
chr2:156011028	2	156.0110	0.0007276252	Credible Set	purple
chr2:156011085	2	156.0111	0.0007311140	Credible Set	purple
chr2:156011672	2	156.0117	0.0008479509	Credible Set	purple
chr2:156039455	2	156.0395	0.0008729584	Credible Set	purple
chr2:156041520	2	156.0415	0.0008752613	Credible Set	purple
chr2:156043677	2	156.0437	0.0008729584	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156071586	2	156.0716	0.0008715943	Credible Set	purple
chr2:156071629	2	156.0716	0.0006392670	Credible Set	purple
chr2:156071635	2	156.0716	0.0006391099	Credible Set	purple
chr2:156071639	2	156.0716	0.0006392670	Credible Set	purple
chr2:156071668	2	156.0717	0.0006361231	Credible Set	purple
chr2:156073463	2	156.0735	0.0006715235	Credible Set	purple
chr2:156077894	2	156.0779	0.0008686683	Credible Set	purple
chr2:156078317	2	156.0783	0.0008841489	Credible Set	purple
chr2:156078406	2	156.0784	0.0008729375	Credible Set	purple
chr2:156078707	2	156.0787	0.0008729375	Credible Set	purple
chr2:156078913	2	156.0789	0.0012663797	Credible Set	purple
chr2:156082428	2	156.0824	0.0008729375	Credible Set	purple
chr2:156082588	2	156.0826	0.0008729375	Credible Set	purple
chr2:156082682	2	156.0827	0.0008729375	Credible Set	purple
chr2:156111908	2	156.1119	0.0008606281	Credible Set	purple
chr2:156111910	2	156.1119	0.0008547668	Credible Set	purple
chr2:156124158	2	156.1242	0.0008773532	Credible Set	purple
chr2:156124843	2	156.1248	0.0008729584	Credible Set	purple
chr2:156133370	2	156.1334	0.0008986091	Credible Set	purple
chr2:156133395	2	156.1334	0.0009067489	Credible Set	purple
chr2:156133510	2	156.1335	0.0010201303	Credible Set	purple
chr2:156215789	2	156.2158	0.0008729584	Credible Set	purple
chr2:156259843	2	156.2598	0.0008729584	Credible Set	purple
chr2:156267477	2	156.2675	0.0008613064	Credible Set	purple
chr2:156269831	2	156.2698	0.0009066928	Credible Set	purple
chr2:156282307	2	156.2823	0.0008729584	Credible Set	purple
chr2:156302628	2	156.3026	0.0008729584	Credible Set	purple
chr2:156302714	2	156.3027	0.0007702117	Credible Set	purple
chr2:156302728	2	156.3027	0.0007702117	Credible Set	purple
chr2:156302741	2	156.3027	0.0008729584	Credible Set	purple
chr2:156303023	2	156.3030	0.0008794303	Credible Set	purple
chr2:156305013	2	156.3050	0.0007059660	Credible Set	purple
chr2:156323079	2	156.3231	0.0008523750	Credible Set	purple
chr2:156343221	2	156.3432	0.0007941062	Credible Set	purple
chr2:156343324	2	156.3433	0.0007956754	Credible Set	purple
chr2:156368682	2	156.3687	0.0008417875	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156368698	2	156.3687	0.0008552391	Credible Set	purple
chr2:156378531	2	156.3785	0.0007349361	Credible Set	purple
chr2:156383403	2	156.3834	0.0010412354	Credible Set	purple
chr2:156383404	2	156.3834	0.0010412354	Credible Set	purple
chr2:156383417	2	156.3834	0.0010412354	Credible Set	purple
chr2:156387857	2	156.3879	0.0008729584	Credible Set	purple
chr2:156401411	2	156.4014	0.0013159819	Credible Set	purple
chr2:156407061	2	156.4071	0.0010562196	Credible Set	purple
chr2:156407080	2	156.4071	0.0011150560	Credible Set	purple
chr2:156407368	2	156.4074	0.0013323397	Credible Set	purple
chr2:156417925	2	156.4179	0.0012908080	Credible Set	purple
chr2:156419006	2	156.4190	0.0012792463	Credible Set	purple
chr2:156423785	2	156.4238	0.0012331930	Credible Set	purple
chr2:156449123	2	156.4491	0.0013182908	Credible Set	purple
chr2:156449144	2	156.4491	0.0013182908	Credible Set	purple
chr2:156453473	2	156.4535	0.0010382545	Credible Set	purple
chr2:156453552	2	156.4536	0.0008230674	Credible Set	purple
chr2:156453983	2	156.4540	0.0016877984	Credible Set	purple
chr2:156455282	2	156.4553	0.0049765780	Credible Set	purple
chr2:156455298	2	156.4553	0.0050296727	Credible Set	purple
chr2:156455671	2	156.4557	0.0033185505	Credible Set	purple
chr2:156455717	2	156.4557	0.0042939876	Credible Set	purple
chr2:156465034	2	156.4650	0.0013182908	Credible Set	purple
chr2:156465082	2	156.4651	0.0013182908	Credible Set	purple
chr2:156465086	2	156.4651	0.0013182908	Credible Set	purple
chr2:156465109	2	156.4651	0.0013182908	Credible Set	purple
chr2:156465137	2	156.4651	0.0013182908	Credible Set	purple
chr2:156465975	2	156.4660	0.0013182908	Credible Set	purple
chr2:156468230	2	156.4682	0.0014013567	Credible Set	purple
chr2:156474927	2	156.4749	0.0013183978	Credible Set	purple
chr2:156483143	2	156.4831	0.0013082891	Credible Set	purple
chr2:156488289	2	156.4883	0.0012884571	Credible Set	purple
chr2:156491527	2	156.4915	0.0012903486	Credible Set	purple
chr2:156491541	2	156.4915	0.0015609781	Credible Set	purple
chr2:156491557	2	156.4916	0.0015453479	Credible Set	purple
chr2:156521595	2	156.5216	0.0011542601	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156521639	2	156.5216	0.0011669190	Credible Set	purple
chr2:156530706	2	156.5307	0.0012401035	Credible Set	purple
chr2:156532009	2	156.5320	0.0012860338	Credible Set	purple
chr2:156532011	2	156.5320	0.0012772788	Credible Set	purple
chr2:156532178	2	156.5322	0.0013163567	Credible Set	purple
chr2:156567043	2	156.5670	0.0013236906	Credible Set	purple
chr2:156567147	2	156.5671	0.0024815428	Credible Set	purple
chr2:156567188	2	156.5672	0.0024638254	Credible Set	purple
chr2:156567685	2	156.5677	0.0013753975	Credible Set	purple
chr2:156576405	2	156.5764	0.0013780037	Credible Set	purple
chr2:156576851	2	156.5769	0.0012061116	Credible Set	purple
chr2:156577083	2	156.5771	0.0013186227	Credible Set	purple
chr2:156585381	2	156.5854	0.0013195477	Credible Set	purple
chr2:156587373	2	156.5874	0.0012676667	Credible Set	purple
chr2:156587398	2	156.5874	0.0012214752	Credible Set	purple
chr2:156592202	2	156.5922	0.0013162598	Credible Set	purple
chr2:156595258	2	156.5953	0.0011612599	Credible Set	purple
chr2:156632710	2	156.6327	0.0012542357	Credible Set	purple
chr2:156632738	2	156.6327	0.0012339589	Credible Set	purple
chr2:156632859	2	156.6329	0.0012190144	Credible Set	purple
chr2:156641079	2	156.6411	0.0012057540	Credible Set	purple
chr2:156641293	2	156.6413	0.0012257382	Credible Set	purple
chr2:156649922	2	156.6499	0.0010137839	Credible Set	purple
chr2:156649929	2	156.6499	0.0010224134	Credible Set	purple
chr2:156650908	2	156.6509	0.0012558604	Credible Set	purple
chr2:156668062	2	156.6681	0.0009524346	Credible Set	purple
chr2:156668618	2	156.6686	0.0012820443	Credible Set	purple
chr2:156704128	2	156.7041	0.0011191801	Credible Set	purple
chr2:156704178	2	156.7042	0.0011197156	Credible Set	purple
chr2:156711128	2	156.7111	0.0013186286	Credible Set	purple
chr2:156743106	2	156.7431	0.0011996008	Credible Set	purple
chr2:156743119	2	156.7431	0.0012283247	Credible Set	purple
chr2:156764741	2	156.7647	0.0010280520	Credible Set	purple
chr2:156764772	2	156.7648	0.0010593779	Credible Set	purple
chr2:156770397	2	156.7704	0.0045005840	Credible Set	purple
chr2:156795214	2	156.7952	0.0041958350	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156795236	2	156.7952	0.0040398591	Credible Set	purple
chr2:156803978	2	156.8040	0.0045005840	Credible Set	purple
chr2:156812752	2	156.8128	0.0078204314	Credible Set	purple
chr2:156815749	2	156.8157	0.0037639566	Credible Set	purple
chr2:156815751	2	156.8158	0.0036573116	Credible Set	purple
chr2:156815769	2	156.8158	0.0036428636	Credible Set	purple
chr2:156825758	2	156.8258	0.0042301617	Credible Set	purple
chr2:156825771	2	156.8258	0.0042233612	Credible Set	purple
chr2:156825785	2	156.8258	0.0042233612	Credible Set	purple
chr2:156825839	2	156.8258	0.0041361878	Credible Set	purple
chr2:156825844	2	156.8258	0.0041361878	Credible Set	purple
chr2:156825876	2	156.8259	0.0041361878	Credible Set	purple
chr2:156845905	2	156.8459	0.0043854695	Credible Set	purple
chr2:156861736	2	156.8617	0.0015350425	Credible Set	purple
chr2:156861749	2	156.8617	0.0015350425	Credible Set	purple
chr2:156861787	2	156.8618	0.0015350425	Credible Set	purple
chr2:156861800	2	156.8618	0.0015350425	Credible Set	purple
chr2:156861931	2	156.8619	0.0043039530	Credible Set	purple
chr2:156862039	2	156.8620	0.0008416619	Credible Set	purple
chr2:156862050	2	156.8621	0.0008416619	Credible Set	purple
chr2:156862066	2	156.8621	0.0008477391	Credible Set	purple
chr2:156862185	2	156.8622	0.0041150550	Credible Set	purple
chr2:156862198	2	156.8622	0.0041150550	Credible Set	purple
chr2:156882805	2	156.8828	0.0044848486	Credible Set	purple
chr2:156882992	2	156.8830	0.0041668362	Credible Set	purple
chr2:156883081	2	156.8831	0.0043785543	Credible Set	purple
chr2:156883502	2	156.8835	0.0045005840	Credible Set	purple
chr2:156886515	2	156.8865	0.0047444442	Credible Set	purple
chr2:156886654	2	156.8867	0.0048164039	Credible Set	purple
chr2:156887147	2	156.8871	0.0073998449	Credible Set	purple
chr2:156887169	2	156.8872	0.0074553226	Credible Set	purple
chr2:156948001	2	156.9480	0.0051733739	Credible Set	purple
chr2:156959200	2	156.9592	0.0114860151	Credible Set	purple
chr2:156959224	2	156.9592	0.0116728039	Credible Set	purple
chr2:156959230	2	156.9592	0.0115102273	Credible Set	purple
chr2:156959240	2	156.9592	0.0111861194	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:156973206	2	156.9732	0.004671987	Credible Set	purple
chr2:156973473	2	156.9735	0.004701081	Credible Set	purple
chr2:157010815	2	157.0108	0.004521964	Credible Set	purple
chr2:157016739	2	157.0167	0.004048277	Credible Set	purple
chr2:157017028	2	157.0170	0.004618923	Credible Set	purple
chr2:157017101	2	157.0171	0.005369631	Credible Set	purple
chr2:157017479	2	157.0175	0.005066103	Credible Set	purple
chr2:157017498	2	157.0175	0.004966103	Credible Set	purple
chr2:157027114	2	157.0271	0.004757518	Credible Set	purple
chr2:157027115	2	157.0271	0.004757518	Credible Set	purple
chr2:157027346	2	157.0273	0.004534067	Credible Set	purple
chr2:157027552	2	157.0276	0.004500584	Credible Set	purple
chr2:157027594	2	157.0276	0.004500584	Credible Set	purple
chr2:157033406	2	157.0334	0.004500584	Credible Set	purple
chr2:157033457	2	157.0335	0.004500584	Credible Set	purple
chr2:157033569	2	157.0336	0.004500584	Credible Set	purple
chr2:157033589	2	157.0336	0.004500584	Credible Set	purple
chr2:157037970	2	157.0380	0.004941586	Credible Set	purple
chr2:157040364	2	157.0404	0.003861107	Credible Set	purple
chr2:157040379	2	157.0404	0.003985516	Credible Set	purple
chr2:157040564	2	157.0406	0.004500584	Credible Set	purple
chr2:157059250	2	157.0592	0.004500584	Credible Set	purple
chr2:157059408	2	157.0594	0.004498129	Credible Set	purple
chr2:157059810	2	157.0598	0.004499053	Credible Set	purple
chr2:157059893	2	157.0599	0.004089039	Credible Set	purple
chr2:157063511	2	157.0635	0.004500584	Credible Set	purple
chr2:157065641	2	157.0656	0.004378791	Credible Set	purple
chr2:157075626	2	157.0756	0.004500584	Credible Set	purple
chr2:157075934	2	157.0759	0.004538454	Credible Set	purple
chr2:157138758	2	157.1388	0.001397930	Credible Set	purple
chr2:157138759	2	157.1388	0.001238887	Credible Set	purple
chr2:157138913	2	157.1389	0.004518281	Credible Set	purple
chr2:157144291	2	157.1443	0.004500584	Credible Set	purple
chr2:157145837	2	157.1458	0.004500834	Credible Set	purple
chr2:157149696	2	157.1497	0.004536776	Credible Set	purple
chr2:157170168	2	157.1702	0.004499389	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:157170289	2	157.1703	0.003327649	Credible Set	purple
chr2:157170311	2	157.1703	0.003320108	Credible Set	purple
chr2:157234145	2	157.2341	0.004378489	Credible Set	purple
chr2:157234194	2	157.2342	0.004244260	Credible Set	purple
chr2:157234584	2	157.2346	0.005846621	Credible Set	purple
chr2:157234605	2	157.2346	0.006023225	Credible Set	purple
chr2:157234716	2	157.2347	0.012394370	Credible Set	purple
chr2:157234718	2	157.2347	0.012313502	Credible Set	purple
chr2:157234722	2	157.2347	0.012368836	Credible Set	purple
chr2:157244801	2	157.2448	0.003053452	Credible Set	purple
chr2:157245205	2	157.2452	0.004377639	Credible Set	purple
chr2:157245270	2	157.2453	0.004323443	Credible Set	purple
chr2:157271470	2	157.2715	0.004546292	Credible Set	purple
chr2:157323455	2	157.3235	0.003731176	Credible Set	purple
chr2:157323490	2	157.3235	0.004142781	Credible Set	purple
chr2:157323542	2	157.3235	0.004164396	Credible Set	purple
chr2:157328889	2	157.3289	0.003226906	Credible Set	purple
chr2:157350851	2	157.3509	0.003485881	Credible Set	purple
chr2:157356604	2	157.3566	0.007146490	Credible Set	purple
chr2:157383750	2	157.3837	0.007447453	Credible Set	purple
chr2:157384030	2	157.3840	0.016024599	Credible Set	purple
chr2:157384046	2	157.3840	0.016005888	Credible Set	purple
chr2:157393248	2	157.3932	0.002529089	Credible Set	purple
chr2:157393326	2	157.3933	0.003629860	Credible Set	purple
chr2:157393328	2	157.3933	0.003109633	Credible Set	purple
chr2:157393885	2	157.3939	0.003844495	Credible Set	purple
chr2:157393913	2	157.3939	0.003905813	Credible Set	purple
chr2:157393914	2	157.3939	0.003855055	Credible Set	purple
chr2:157393915	2	157.3939	0.003859032	Credible Set	purple
chr2:157396118	2	157.3961	0.004921267	Credible Set	purple
chr2:157396325	2	157.3963	0.001303472	Credible Set	purple
chr2:157396340	2	157.3963	0.001310087	Credible Set	purple
chr2:157396357	2	157.3964	0.001310087	Credible Set	purple
chr2:157396513	2	157.3965	0.005767159	Credible Set	purple
chr2:157401494	2	157.4015	0.005643284	Credible Set	purple
chr2:157425583	2	157.4256	0.005767159	Credible Set	purple

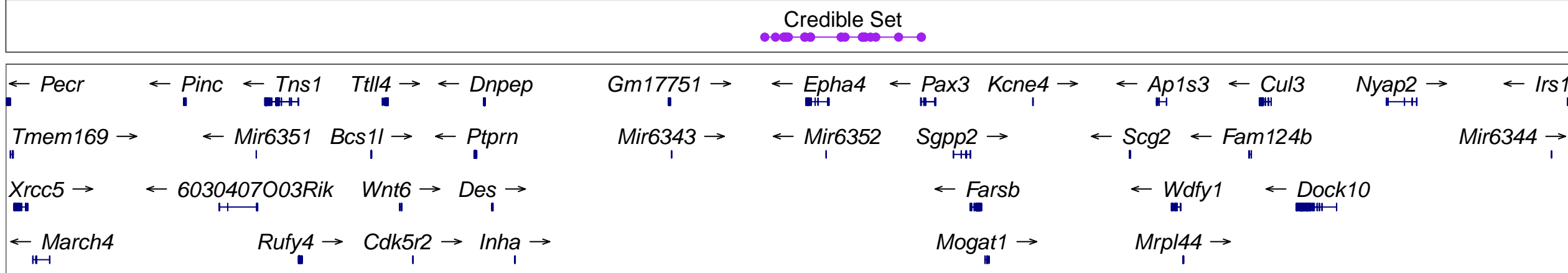
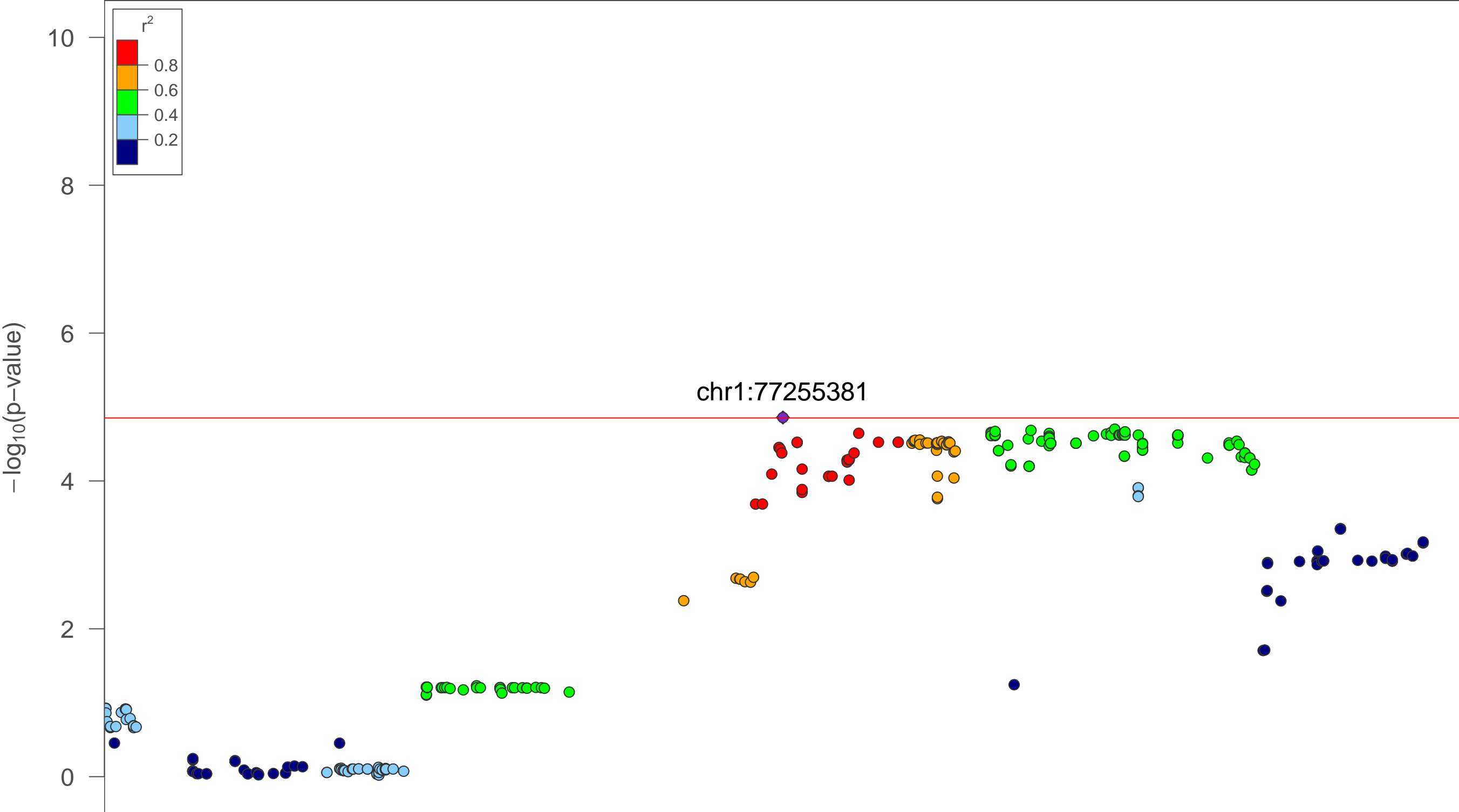
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:157434588	2	157.4346	0.005767159	Credible Set	purple
chr2:157439371	2	157.4394	0.005767159	Credible Set	purple
chr2:157455578	2	157.4556	0.005520168	Credible Set	purple
chr2:157458440	2	157.4584	0.005767159	Credible Set	purple
chr2:157464790	2	157.4648	0.003979447	Credible Set	purple
chr2:157464811	2	157.4648	0.003979447	Credible Set	purple
chr2:157464835	2	157.4648	0.003979447	Credible Set	purple
chr2:157464946	2	157.4649	0.005768230	Credible Set	purple
chr2:157465338	2	157.4653	0.005786666	Credible Set	purple
chr2:157502041	2	157.5020	0.007384423	Credible Set	purple
chr2:157502044	2	157.5020	0.005572784	Credible Set	purple
chr2:157549374	2	157.5494	0.005672009	Credible Set	purple
chr2:157611240	2	157.6112	0.001999621	Credible Set	purple
chr2:157611267	2	157.6113	0.001994993	Credible Set	purple
chr2:157611281	2	157.6113	0.001994993	Credible Set	purple
chr2:157611292	2	157.6113	0.001994993	Credible Set	purple
chr2:157611294	2	157.6113	0.001994993	Credible Set	purple
chr2:157630394	2	157.6304	0.005983166	Credible Set	purple
chr2:157630611	2	157.6306	0.005899822	Credible Set	purple
chr2:157630938	2	157.6309	0.007912554	Credible Set	purple
chr2:157630968	2	157.6310	0.007977824	Credible Set	purple
chr2:157630998	2	157.6310	0.007909786	Credible Set	purple
chr2:157635749	2	157.6357	0.005178926	Credible Set	purple
chr2:158322238	2	158.3222	0.003802500	Credible Set	purple
chr2:158334991	2	158.3350	0.003391315	Credible Set	purple
chr2:158335036	2	158.3350	0.002878618	Credible Set	purple
chr2:158380870	2	158.3809	0.003885663	Credible Set	purple
chr2:158380953	2	158.3810	0.003892789	Credible Set	purple
chr2:158424885	2	158.4249	0.001092579	Credible Set	purple
chr2:158424892	2	158.4249	0.001092579	Credible Set	purple
chr2:158432408	2	158.4324	0.004030962	Credible Set	purple
chr2:158463993	2	158.4640	0.003605254	Credible Set	purple
chr2:158499568	2	158.4996	0.003532919	Credible Set	purple
chr2:158499611	2	158.4996	0.003603675	Credible Set	purple
chr2:158518637	2	158.5186	0.002402589	Credible Set	purple
chr2:158518964	2	158.5190	0.003409110	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:158519003	2	158.5190	0.003409110	Credible Set	purple
chr2:158523085	2	158.5231	0.001070763	Credible Set	purple
chr2:158523125	2	158.5231	0.001083386	Credible Set	purple
chr2:158523133	2	158.5231	0.001075110	Credible Set	purple
chr2:158523135	2	158.5231	0.001069148	Credible Set	purple
chr2:158531021	2	158.5310	0.001788435	Credible Set	purple
chr2:158591403	2	158.5914	0.003891379	Credible Set	purple
chr2:158591550	2	158.5916	0.001241109	Credible Set	purple
chr2:158591613	2	158.5916	0.001225800	Credible Set	purple
chr2:158601272	2	158.6013	0.003826526	Credible Set	purple
chr2:158625324	2	158.6253	0.003893113	Credible Set	purple
chr2:158625366	2	158.6254	0.003893113	Credible Set	purple
chr2:158627877	2	158.6279	0.007562548	Credible Set	purple
chr2:158627920	2	158.6279	0.007562548	Credible Set	purple
chr2:158628144	2	158.6281	0.003620250	Credible Set	purple
chr2:158628165	2	158.6282	0.003632114	Credible Set	purple
chr2:158631398	2	158.6314	0.001314150	Credible Set	purple
chr2:158631624	2	158.6316	0.001912639	Credible Set	purple
chr2:158640014	2	158.6400	0.003732603	Credible Set	purple
chr2:158665126	2	158.6651	0.004378129	Credible Set	purple

F34 GBS, tibia length (cm)



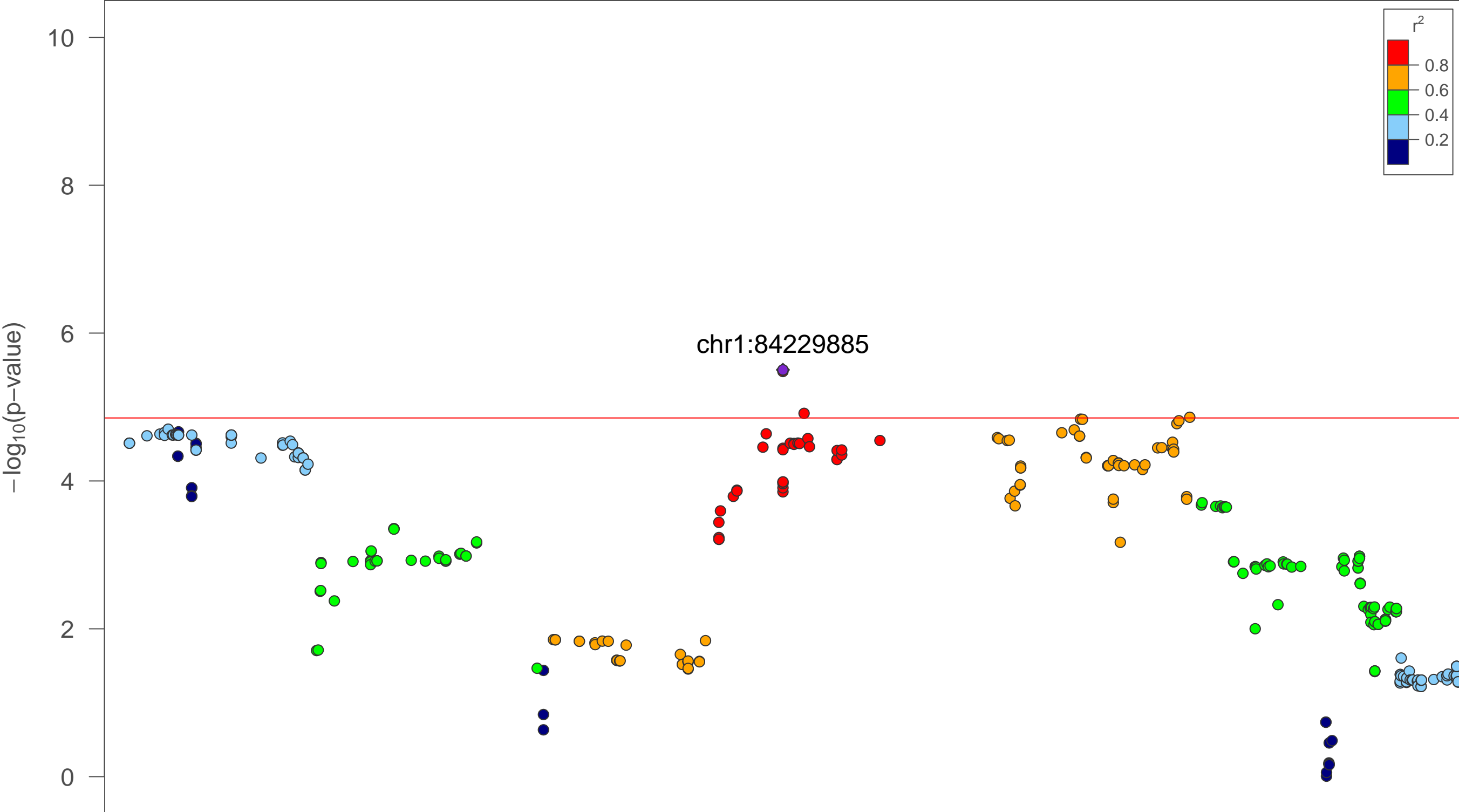
62 genes omitted

date: Thu Oct 25 17:14:39 2018
build: F34GBS
display range: chr1:72255381–82255381 [72255381–82255381]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:77255381
number of SNPs plotted: 308
min P-value: 1.39E–5 [chr1:77255381]
max P-value: 9.52E–1 [chr1:74278512]
omitted Genes: Smarcal1, Ankar, Rpl37a
omitted Genes: Igfbp2, Igfbp5, Tnp1
omitted Genes: 1700027A15Rik, D530049I02Rik, Cxcr2
omitted Genes: Cxcr1, Mir1928, Arpc2
omitted Genes: Gpbar1, Aamp, Pnkd
omitted Genes: Tmbim1, Catip, Slc11a1
omitted Genes: Ctdsp1, Mir26b, Vil1
omitted Genes: Usp37, Cnot9, Plcd4
omitted Genes: Zfp142, Rnf25, Stk36
omitted Genes: Cyp27a1, Prkag3, Wnt10a
omitted Genes: Fev, Cryba2, Mir375
omitted Genes: Ccdc108, Ihh, Nhej1
omitted Genes: Slc23a3, Cnppd1, Fam134a
omitted Genes: Zfand2b, Abcb6, Atg9a
omitted Genes: Ankzf1, Glb1l, Stk16
omitted Genes: Tuba4a, A630095N17Rik, Dnajb2
omitted Genes: Resp18, Gm15179, Speg
omitted Genes: Gmppa, Asic4, Chpf
omitted Genes: Tmem198, Obsl1, Stk11ip
omitted Genes: Slc4a3, Utp14b, Acsl3
omitted Genes: Serpine2, 1700016L21Rik

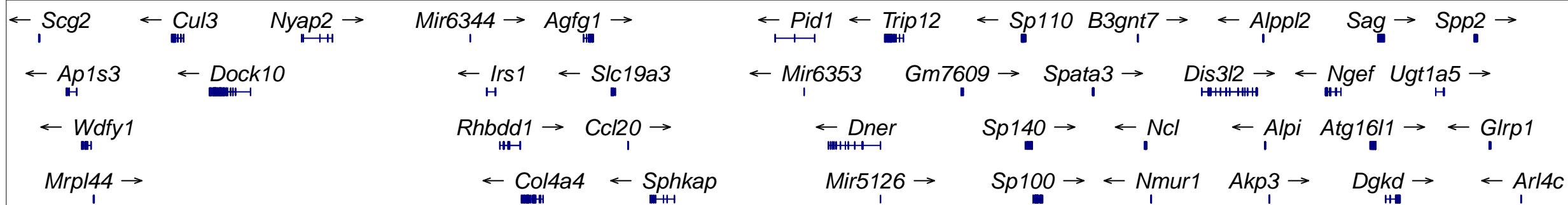
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:77104885	1	77.10488	0.008126436	Credible Set	purple
chr1:77172984	1	77.17298	0.019564894	Credible Set	purple
chr1:77226748	1	77.22675	0.042605449	Credible Set	purple
chr1:77226771	1	77.22677	0.043033112	Credible Set	purple
chr1:77236123	1	77.23612	0.040789617	Credible Set	purple
chr1:77247183	1	77.24718	0.036464543	Credible Set	purple
chr1:77255381	1	77.25538	0.104374844	Credible Set	purple
chr1:77360230	1	77.36023	0.049821912	Credible Set	purple
chr1:77360231	1	77.36023	0.049911801	Credible Set	purple
chr1:77360235	1	77.36024	0.050042131	Credible Set	purple
chr1:77396673	1	77.39667	0.011417742	Credible Set	purple
chr1:77396674	1	77.39667	0.012455288	Credible Set	purple
chr1:77396959	1	77.39696	0.022673149	Credible Set	purple
chr1:77592858	1	77.59286	0.018331029	Credible Set	purple
chr1:77592859	1	77.59286	0.018331029	Credible Set	purple
chr1:77617819	1	77.61782	0.018389979	Credible Set	purple
chr1:77728800	1	77.72880	0.029422136	Credible Set	purple
chr1:77728804	1	77.72880	0.029670651	Credible Set	purple
chr1:77728811	1	77.72881	0.027913013	Credible Set	purple
chr1:77743267	1	77.74327	0.029821353	Credible Set	purple
chr1:77743271	1	77.74327	0.029699371	Credible Set	purple
chr1:77743297	1	77.74330	0.030277323	Credible Set	purple
chr1:77743443	1	77.74344	0.016399557	Credible Set	purple
chr1:77779980	1	77.77998	0.036476533	Credible Set	purple
chr1:77814150	1	77.81415	0.065375684	Credible Set	purple
chr1:77959635	1	77.95964	0.050164984	Credible Set	purple
chr1:78104946	1	78.10495	0.050164984	Credible Set	purple
chr1:78105022	1	78.10502	0.050164984	Credible Set	purple

F34 GBS, tibia length (cm)



Credible Set



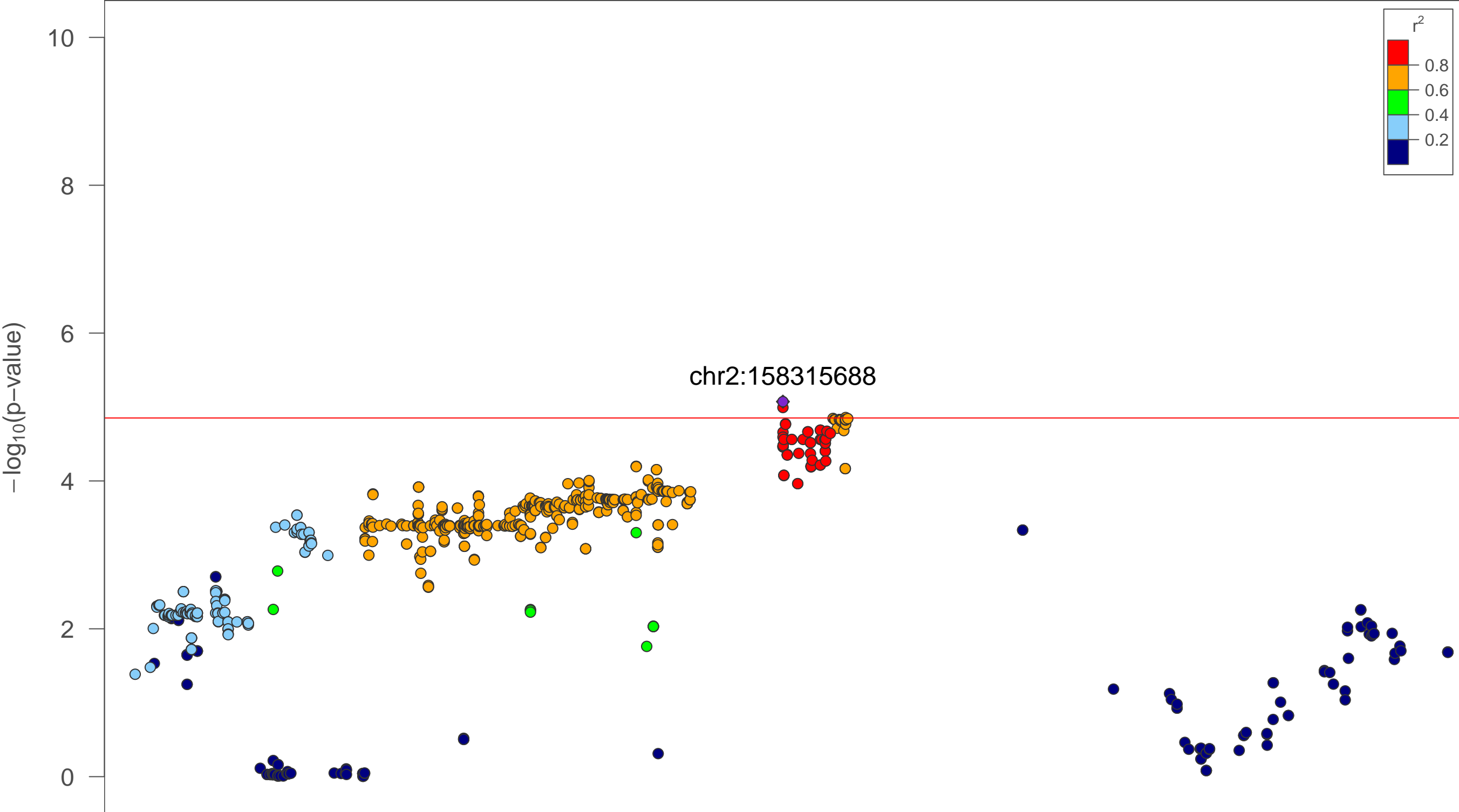
61 genes
omitted

date: Thu Oct 25 17:14:48 2018
build: F34GBS
display range: chr1:79229885–89229885 [79229885–89229885]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:84229885
number of SNPs plotted: 324
min P-value: 3.14E–6 [chr1:84229885]
max P-value: 9.85E–1 [chr1:88235333]
omitted Genes: Serpine2, Fam124b, 1700016L21Rik
omitted Genes: Col4a3, Mff, Tm4sf20
omitted Genes: Krtap28–13, Daw1, Fbxo36
omitted Genes: Slc16a14, A530032D15Rik, C130026I21Rik
omitted Genes: A630001G21Rik, Mir8096, 9930111H07Rik
omitted Genes: Cab39, Itm2c, 4933407L21Rik
omitted Genes: Gpr55, 2810459M11Rik, Psmd1
omitted Genes: Htr2b, Armc9, Snora75
omitted Genes: Gm24148, Snord82, C130036L24Rik
omitted Genes: 1700019O17Rik, Ptma, Pde6d
omitted Genes: Cops7b, Nppc, Ecel1
omitted Genes: Prss56, Chrnd, Chrng
omitted Genes: Eif4e2, Efhd1, Gigyf2
omitted Genes: Kcnj13, 3110079O15Rik, Neu2
omitted Genes: Inpp5d, Scarna6, Gm19582
omitted Genes: Usp40, Ugt1a10, Ugt1a9
omitted Genes: Ugt1a7c, Ugt1a6b, Ugt1a6a
omitted Genes: Ugt1a2, Dnajb3, Ugt1a1
omitted Genes: Mroh2a, Hjurp, Trpm8
omitted Genes: Gm19589, Platr5, 1700067G17Rik
omitted Genes: Sh3bp4

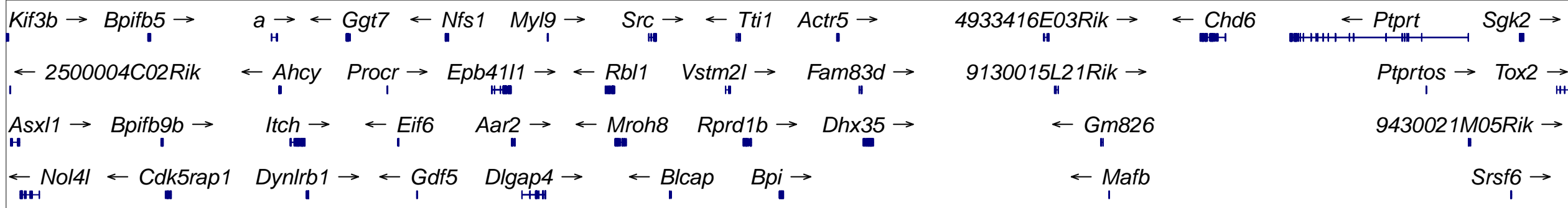
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:83769887	1	83.76989	0.003606986	Credible Set	purple
chr1:83864780	1	83.86478	0.005513547	Credible Set	purple
chr1:83891050	1	83.89105	0.006615451	Credible Set	purple
chr1:83891408	1	83.89141	0.006462805	Credible Set	purple
chr1:84082487	1	84.08249	0.023491739	Credible Set	purple
chr1:84106829	1	84.10683	0.034932382	Credible Set	purple
chr1:84229883	1	84.22988	0.223038567	Credible Set	purple
chr1:84229885	1	84.22988	0.234056135	Credible Set	purple
chr1:84230139	1	84.23014	0.022752797	Credible Set	purple
chr1:84230140	1	84.23014	0.021803722	Credible Set	purple
chr1:84230230	1	84.23023	0.006299284	Credible Set	purple
chr1:84230232	1	84.23023	0.007095944	Credible Set	purple
chr1:84230233	1	84.23023	0.008010994	Credible Set	purple
chr1:84230245	1	84.23024	0.008408622	Credible Set	purple
chr1:84230255	1	84.23025	0.008446651	Credible Set	purple
chr1:84283668	1	84.28367	0.026427192	Credible Set	purple
chr1:84311316	1	84.31132	0.026206138	Credible Set	purple
chr1:84311384	1	84.31138	0.025543727	Credible Set	purple
chr1:84340686	1	84.34069	0.026531472	Credible Set	purple
chr1:84352584	1	84.35258	0.026185263	Credible Set	purple
chr1:84385821	1	84.38582	0.064085697	Credible Set	purple
chr1:84413844	1	84.41384	0.030348182	Credible Set	purple
chr1:84425660	1	84.42566	0.023820802	Credible Set	purple
chr1:84628469	1	84.62847	0.016422607	Credible Set	purple
chr1:84628475	1	84.62847	0.016298809	Credible Set	purple
chr1:84629053	1	84.62905	0.021283367	Credible Set	purple
chr1:84663039	1	84.66304	0.018681984	Credible Set	purple
chr1:84663099	1	84.66310	0.021628409	Credible Set	purple
chr1:84944754	1	84.94475	0.028599845	Credible Set	purple

F34 GBS, heart_tibia.gs_wt



Credible Set



98 genes
omitted

date: Thu Oct 25 17:14:57 2018

build: F34GBS

display range: chr2:153315688–163315688 [153315688–163315688]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:158315688

number of SNPs plotted: 737

min P-value: 8.45E–6 [chr2:158315688]

max P-value: 9.91E–1 [chr2:155220725]

omitted Genes: Commd7, Dnmt3b, Mapre1

omitted Genes: Efcab8, Sun5, Bpifb2

omitted Genes: Bpifb6, Bpifb3, Bpifb4

omitted Genes: Bpifa6, Bpifa2, Bpifa3

omitted Genes: Bpifa1, Bpifa5, Bpifb1

omitted Genes: Bpifb9a, Snta1, Cbfa2t2

omitted Genes: Necab3, 1700003F12Rik, Actl10

omitted Genes: E2f1, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: 2310005A03Rik, Map1lc3a, Pigu

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

omitted Genes: Myh7b, Mir499, Trpc4ap

omitted Genes: Edem2, Mmp24, BC029722

omitted Genes: Fam83c, Uqcc1, Cep250

omitted Genes: 6430550D23Rik, Ergic3, Fer114

omitted Genes: Spag4, Cpne1, Rbm12

omitted Genes: Romo1, Rbm39, Phf20

omitted Genes: Scand1, Cnbd2, 2900097C17Rik

omitted Genes: Gm14169, 4930405A21Rik, Tgif2

omitted Genes: 5430405H02Rik, 1110008F13Rik, Sla2

omitted Genes: Ndr3, Dsn1, Soga1

omitted Genes: Tldc2, Samhd1, Rpn2

omitted Genes: Ghrh, Manbal, Nnat

omitted Genes: Ctnnb1, 2010009K17Rik, Tgm2

omitted Genes: D630003M21Rik, 1700060C20Rik, Mir7685

omitted Genes: Lbp, Snhg17, Snhg11

omitted Genes: Ralgapb, Adig, Arhgap40

omitted Genes: Gm14204, Slc32a1, Mir3474

omitted Genes: Ppp1r16b, Top1, Plcg1

omitted Genes: Zhx3, Lpin3, Emilin3

omitted Genes: L3mbtl1, Ifi52, Mybl2

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

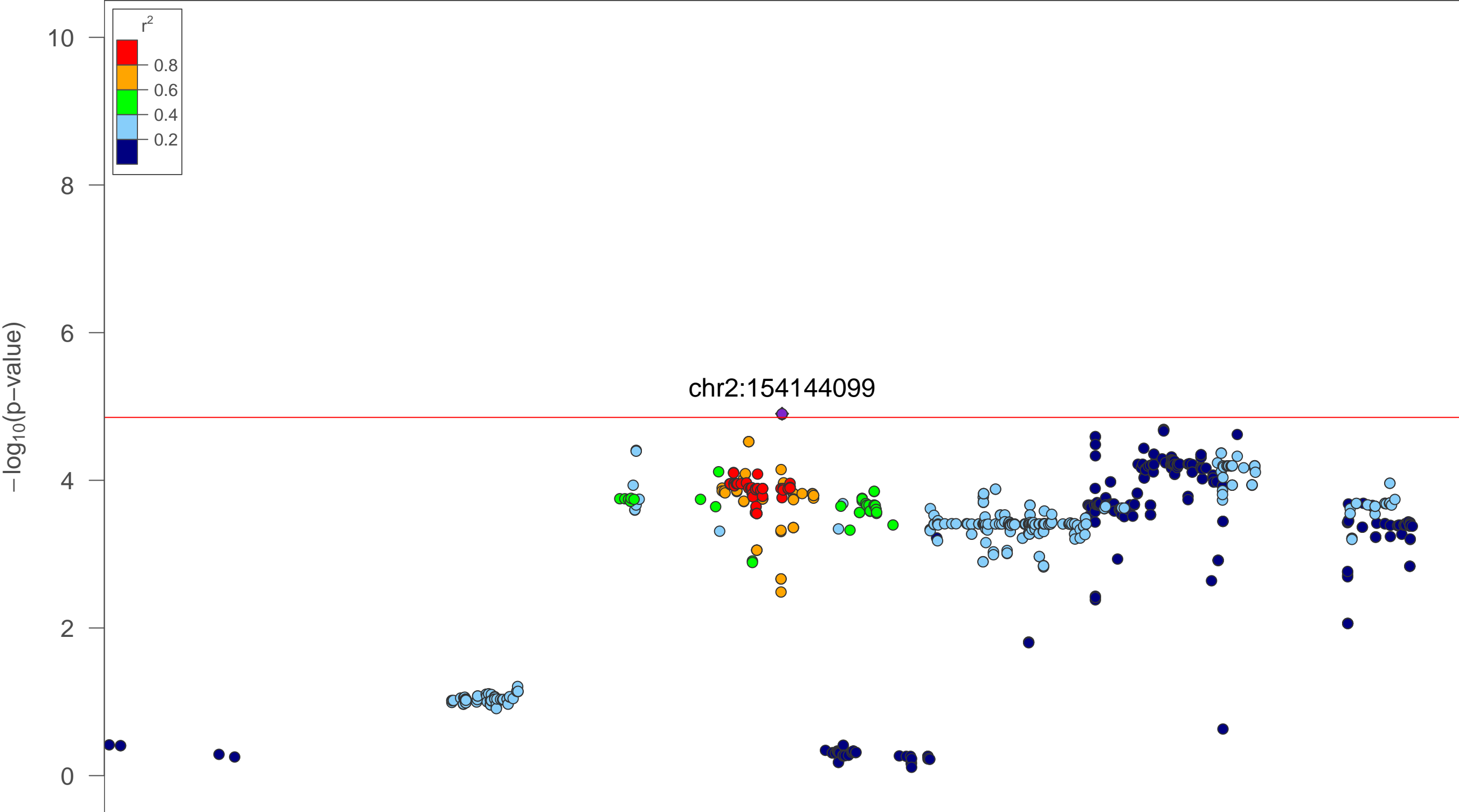
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:158315688	2	158.3157	0.067553513	Credible Set	purple
chr2:158315756	2	158.3158	0.056710404	Credible Set	purple
chr2:158316223	2	158.3162	0.027192220	Credible Set	purple
chr2:158316249	2	158.3162	0.023575944	Credible Set	purple
chr2:158316290	2	158.3163	0.017644086	Credible Set	purple
chr2:158316307	2	158.3163	0.017640453	Credible Set	purple
chr2:158317181	2	158.3172	0.018433721	Credible Set	purple
chr2:158317182	2	158.3172	0.018162421	Credible Set	purple
chr2:158317215	2	158.3172	0.018356902	Credible Set	purple
chr2:158322238	2	158.3222	0.022009191	Credible Set	purple
chr2:158322761	2	158.3228	0.007553278	Credible Set	purple
chr2:158322795	2	158.3228	0.007645301	Credible Set	purple
chr2:158322809	2	158.3228	0.007625461	Credible Set	purple
chr2:158334991	2	158.3350	0.034966947	Credible Set	purple
chr2:158335036	2	158.3350	0.034419970	Credible Set	purple
chr2:158348022	2	158.3480	0.014038046	Credible Set	purple
chr2:158348028	2	158.3480	0.013985272	Credible Set	purple
chr2:158348031	2	158.3480	0.013855400	Credible Set	purple
chr2:158380870	2	158.3809	0.022022804	Credible Set	purple
chr2:158380953	2	158.3810	0.021986754	Credible Set	purple
chr2:158424885	2	158.4249	0.005965392	Credible Set	purple
chr2:158432408	2	158.4324	0.014573331	Credible Set	purple
chr2:158463993	2	158.4640	0.021983874	Credible Set	purple
chr2:158499568	2	158.4996	0.027661448	Credible Set	purple
chr2:158499611	2	158.4996	0.027510236	Credible Set	purple
chr2:158518637	2	158.5186	0.014467513	Credible Set	purple
chr2:158518964	2	158.5190	0.019963248	Credible Set	purple
chr2:158519003	2	158.5190	0.019963248	Credible Set	purple
chr2:158523085	2	158.5231	0.010001658	Credible Set	purple
chr2:158523125	2	158.5231	0.009970331	Credible Set	purple
chr2:158523133	2	158.5231	0.009764408	Credible Set	purple
chr2:158523135	2	158.5231	0.009871917	Credible Set	purple
chr2:158531021	2	158.5310	0.011888153	Credible Set	purple
chr2:158591403	2	158.5914	0.021944319	Credible Set	purple
chr2:158591550	2	158.5916	0.010313254	Credible Set	purple
chr2:158591613	2	158.5916	0.010307309	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:158591734	2	158.5917	0.02899447	Credible Set	purple
chr2:158591782	2	158.5918	0.02896804	Credible Set	purple
chr2:158601272	2	158.6013	0.02186655	Credible Set	purple
chr2:158625324	2	158.6253	0.02200009	Credible Set	purple
chr2:158625366	2	158.6254	0.02200009	Credible Set	purple
chr2:158627877	2	158.6279	0.01556789	Credible Set	purple
chr2:158627920	2	158.6279	0.01556789	Credible Set	purple
chr2:158628144	2	158.6281	0.01959211	Credible Set	purple
chr2:158628165	2	158.6282	0.01967698	Credible Set	purple
chr2:158631398	2	158.6314	0.01160882	Credible Set	purple
chr2:158631624	2	158.6316	0.02223644	Credible Set	purple
chr2:158640014	2	158.6400	0.02809391	Credible Set	purple
chr2:158665126	2	158.6651	0.02633361	Credible Set	purple

F34 GBS, heart weight to tibia length ratio



Credible Set



Cst10 → *Zfp937* → *Gins1* → ← *Snph* ← *Rbck1* *Ttll9* → *Dnmt3b* → ← *Snta1* *a* → ← *Ggt7* ← *Nfs1* *Myl9* → *Src* → ← *Tti1* *Actr5* →
Syndig1 → ← *Vsx1* *Nsfl1c* → *Tbc1d20* → *Xkr7* → *Mapre1* → ← *Necab3* ← *Pigu* ← *Gdf5* *Aar2* → ← *Rbl1* *Vstm2l* → *Fam83d* →
← *Zfp120* *Pygb* → *Fkbp1a* → ← *Trib3* ← *Pdrg1* *Efcab8* → *Actl10* → *Itch* → *Procr* → *Epb41l1* → ← *Mroh8* *Rprd1b* → *Dhx35* →
Gm14139 → ← *Ninl* ← *Rad21l* ← *Nrsn2* *Ccm2l* → ← *Sun5* ← *E2f1* *Dynlrb1* → *Ergic3* → *Tgif2* → ← *Blcap* *Bpi* →

145 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 17:15:09 2018

build: F34GBS

display range: chr2:149144099–159144099 [149144099–159144099]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:154144099

number of SNPs plotted: 751

min P-value: 1.25E–5 [chr2:154144099]

max P-value: 7.71E–1 [chr2:155099522]

omitted Genes: Gm14124, 3300002I08Rik, Zfp442

omitted Genes: Zfp345, Cst7, Apmap

omitted Genes: Acss1, E130215H24Rik, Entpd6

omitted Genes: Abhd12, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, 4921509C19Rik

omitted Genes: Sdcbp2, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb26, Defb28

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Hck

omitted Genes: Tm9sf4, Tspyl3, Plagl2

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: Ahcy, 2310005A03Rik, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

omitted Genes: Myh7b, Mir499, Trnc4ap

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

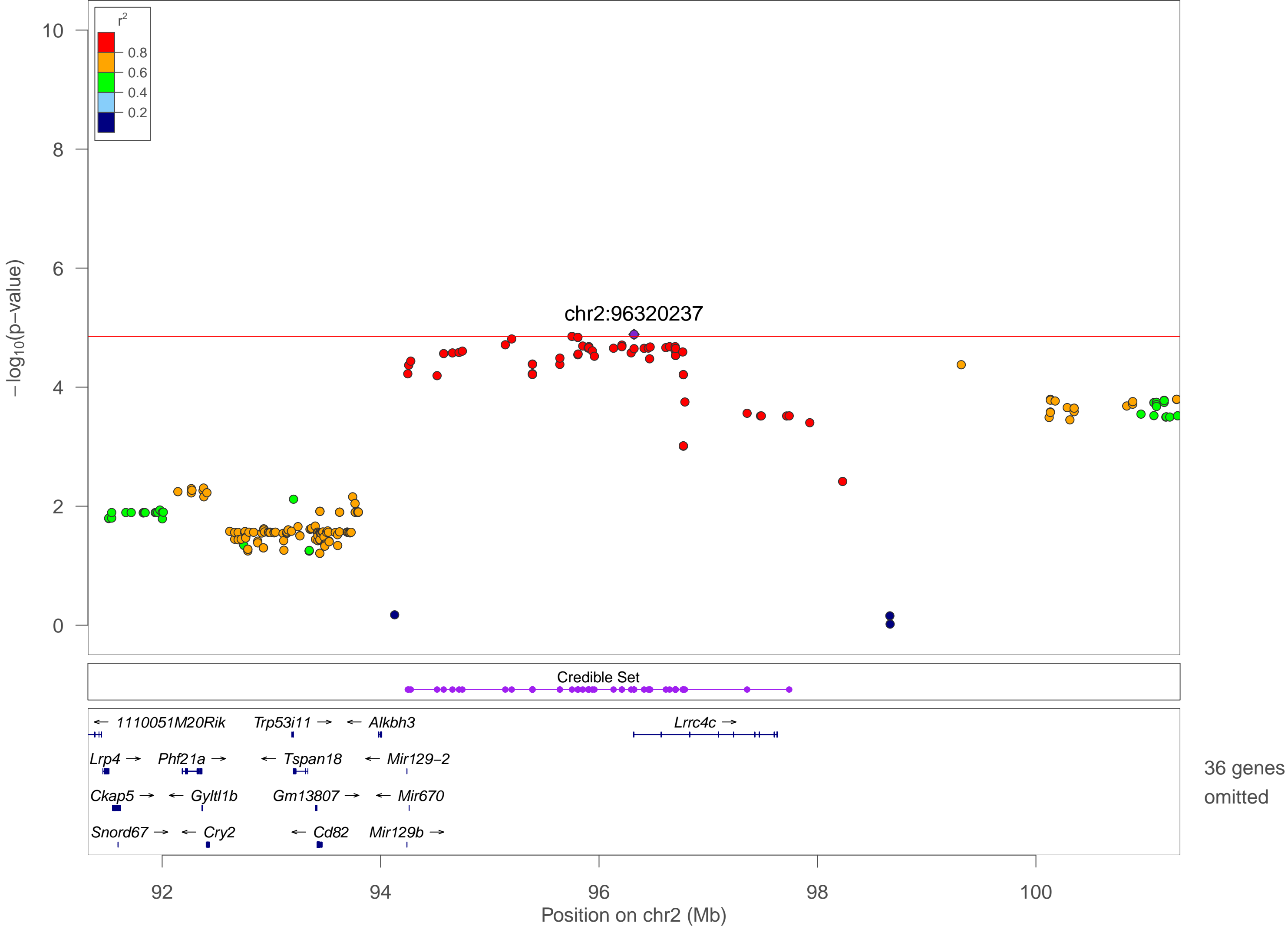
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:153762531	2	153.7625	0.014340562	Credible Set	purple
chr2:153762617	2	153.7626	0.014736630	Credible Set	purple
chr2:153786486	2	153.7865	0.020275435	Credible Set	purple
chr2:153786488	2	153.7865	0.020518988	Credible Set	purple
chr2:153786535	2	153.7865	0.020202108	Credible Set	purple
chr2:153787701	2	153.7877	0.014736630	Credible Set	purple
chr2:153792798	2	153.7928	0.014736630	Credible Set	purple
chr2:153792843	2	153.7928	0.013812327	Credible Set	purple
chr2:153807997	2	153.8080	0.014736630	Credible Set	purple
chr2:153808035	2	153.8080	0.014736630	Credible Set	purple
chr2:153810771	2	153.8108	0.014719244	Credible Set	purple
chr2:153816574	2	153.8166	0.014736630	Credible Set	purple
chr2:153843032	2	153.8430	0.014736630	Credible Set	purple
chr2:153881660	2	153.8817	0.015113659	Credible Set	purple
chr2:153898207	2	153.8982	0.012900073	Credible Set	purple
chr2:153913470	2	153.9135	0.012865507	Credible Set	purple
chr2:153913717	2	153.9137	0.012852460	Credible Set	purple
chr2:153921306	2	153.9213	0.013110608	Credible Set	purple
chr2:153928744	2	153.9287	0.011050302	Credible Set	purple
chr2:153929140	2	153.9291	0.010017034	Credible Set	purple
chr2:153947803	2	153.9478	0.012681654	Credible Set	purple
chr2:153947918	2	153.9479	0.006271755	Credible Set	purple
chr2:153947973	2	153.9480	0.006400102	Credible Set	purple
chr2:153950405	2	153.9504	0.012336003	Credible Set	purple
chr2:153950802	2	153.9508	0.012424706	Credible Set	purple
chr2:153952188	2	153.9522	0.007447154	Credible Set	purple
chr2:153952255	2	153.9523	0.007561241	Credible Set	purple
chr2:153957833	2	153.9578	0.006147223	Credible Set	purple
chr2:153957885	2	153.9579	0.006147223	Credible Set	purple
chr2:153957890	2	153.9579	0.006147223	Credible Set	purple
chr2:153963486	2	153.9635	0.012786933	Credible Set	purple
chr2:153963504	2	153.9635	0.012786933	Credible Set	purple
chr2:153963562	2	153.9636	0.019575345	Credible Set	purple
chr2:153987087	2	153.9871	0.011947686	Credible Set	purple
chr2:153987540	2	153.9875	0.012207191	Credible Set	purple
chr2:154000310	2	154.0003	0.010154622	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:154000346	2	154.0003	0.010182767	Credible Set	purple
chr2:154000704	2	154.0007	0.012786933	Credible Set	purple
chr2:154000755	2	154.0008	0.012786933	Credible Set	purple
chr2:154000791	2	154.0008	0.012786933	Credible Set	purple
chr2:154135816	2	154.1358	0.012786933	Credible Set	purple
chr2:154143827	2	154.1438	0.009769867	Credible Set	purple
chr2:154144099	2	154.1441	0.116950121	Credible Set	purple
chr2:154144100	2	154.1441	0.115191612	Credible Set	purple
chr2:154144142	2	154.1441	0.114572675	Credible Set	purple
chr2:154152208	2	154.1522	0.012786933	Credible Set	purple
chr2:154152238	2	154.1522	0.012786933	Credible Set	purple
chr2:154152320	2	154.1523	0.012249480	Credible Set	purple
chr2:154189385	2	154.1894	0.012628698	Credible Set	purple
chr2:154189574	2	154.1896	0.012778016	Credible Set	purple
chr2:154203292	2	154.2033	0.013706541	Credible Set	purple
chr2:154203302	2	154.2033	0.014920169	Credible Set	purple
chr2:154203329	2	154.2033	0.013262199	Credible Set	purple
chr2:154203418	2	154.2034	0.012961320	Credible Set	purple

F34 GBS, iron content in liver



date: Thu Oct 25 17:15:50 2018

build: F34GBS

display range: chr2:91320237–101320237 [91320237–101320237]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:96320237

number of SNPs plotted: 236

min P-value: 1.29E–5 [chr2:96320237]

max P-value: 9.58E–1 [chr2:98665093]

omitted Genes: F2, Zfp408, Arhgap1

omitted Genes: Atg13, Harbi1, Ambra1

omitted Genes: Chrm4, Mdk, Dgkz

omitted Genes: Mir6999, Creb3l1, Mir1955

omitted Genes: Pex16, 1700029I15Rik, Mapk8ip1

omitted Genes: Mir7000, D930015M05Rik, Slc35c1

omitted Genes: Mir7221, Mir7222, Chst1

omitted Genes: Syt13, Prdm11, 4631405J19Rik

omitted Genes: Mir7001, Gm10804, Alx4

omitted Genes: Ext2, Accs, Accsl

omitted Genes: Gm13889, Alkbh3os1, Hsd17b12

omitted Genes: Ttc17, 2810002D19Rik, Api5

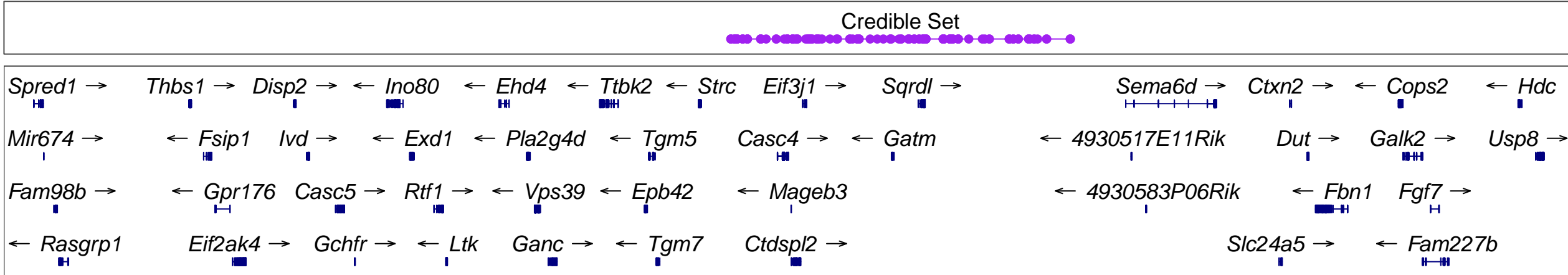
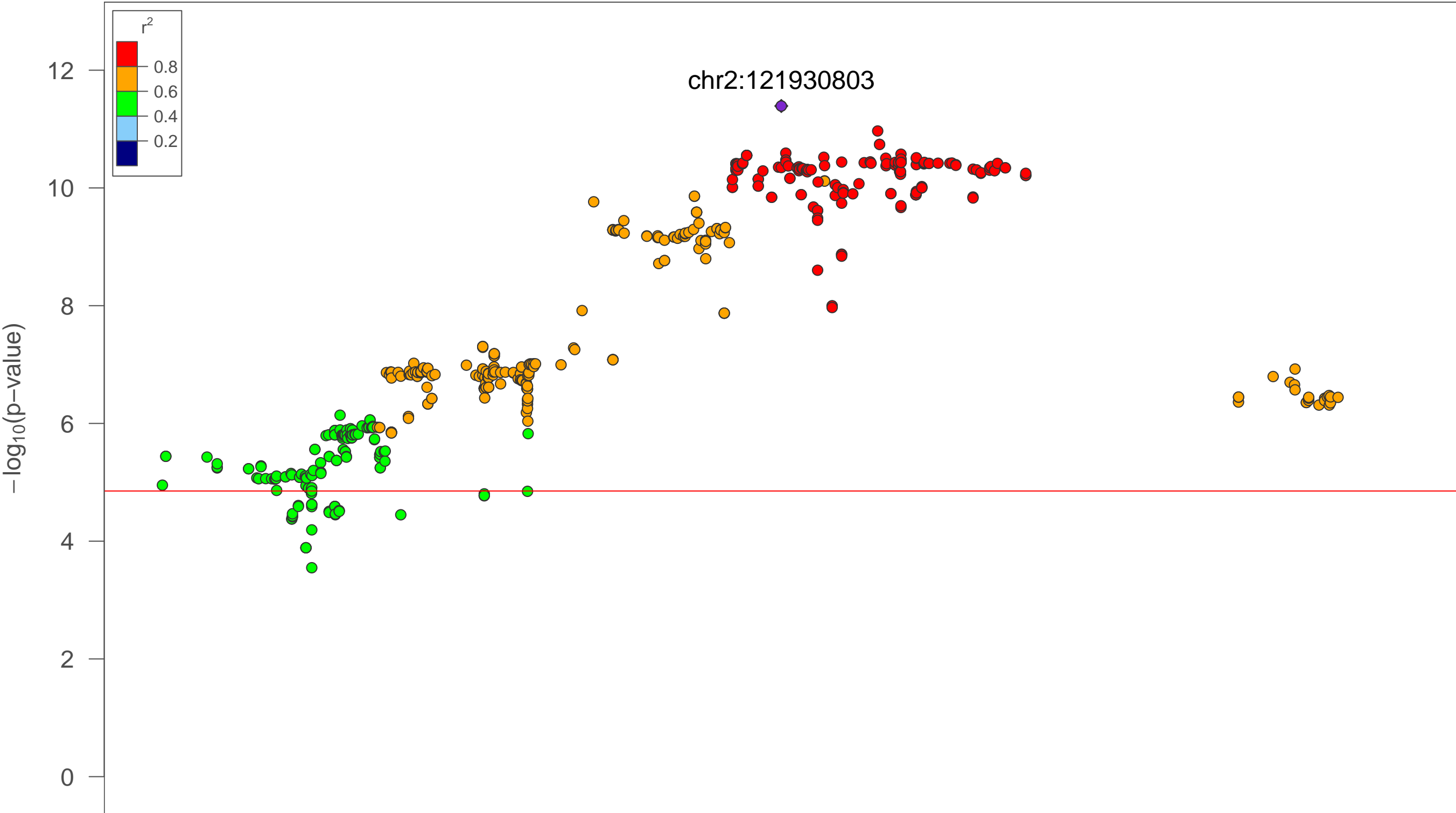
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:94249122	2	94.24912	0.008286008	Credible Set	purple
chr2:94257379	2	94.25738	0.011351696	Credible Set	purple
chr2:94276010	2	94.27601	0.013199881	Credible Set	purple
chr2:94516977	2	94.51698	0.007744163	Credible Set	purple
chr2:94577500	2	94.57750	0.017396457	Credible Set	purple
chr2:94657941	2	94.65794	0.017833975	Credible Set	purple
chr2:94718556	2	94.71856	0.018139036	Credible Set	purple
chr2:94748712	2	94.74871	0.019053454	Credible Set	purple
chr2:95141904	2	95.14190	0.024067265	Credible Set	purple
chr2:95200398	2	95.20040	0.029835579	Credible Set	purple
chr2:95390243	2	95.39024	0.008220943	Credible Set	purple
chr2:95390247	2	95.39025	0.008090195	Credible Set	purple
chr2:95390277	2	95.39028	0.008301131	Credible Set	purple
chr2:95390284	2	95.39028	0.008117626	Credible Set	purple
chr2:95390546	2	95.39055	0.011839594	Credible Set	purple
chr2:95390592	2	95.39059	0.011751530	Credible Set	purple
chr2:95641124	2	95.64112	0.011697477	Credible Set	purple
chr2:95641477	2	95.64148	0.014740073	Credible Set	purple
chr2:95752277	2	95.75228	0.032769533	Credible Set	purple
chr2:95805867	2	95.80587	0.016687093	Credible Set	purple
chr2:95806028	2	95.80603	0.031502905	Credible Set	purple
chr2:95806038	2	95.80604	0.031743782	Credible Set	purple
chr2:95808603	2	95.80860	0.017109349	Credible Set	purple
chr2:95850674	2	95.85067	0.022997969	Credible Set	purple
chr2:95900229	2	95.90023	0.021299943	Credible Set	purple
chr2:95906738	2	95.90674	0.022491984	Credible Set	purple
chr2:95906783	2	95.90678	0.021603954	Credible Set	purple
chr2:95938782	2	95.93878	0.019239869	Credible Set	purple
chr2:95957448	2	95.95745	0.015789929	Credible Set	purple
chr2:96132587	2	96.13259	0.021193097	Credible Set	purple
chr2:96209134	2	96.20913	0.023810661	Credible Set	purple
chr2:96209157	2	96.20916	0.022461346	Credible Set	purple
chr2:96293855	2	96.29385	0.017860711	Credible Set	purple
chr2:96320222	2	96.32022	0.035016259	Credible Set	purple
chr2:96320237	2	96.32024	0.035385938	Credible Set	purple
chr2:96320641	2	96.32064	0.020864650	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:96412425	2	96.41242	0.021107363	Credible Set	purple
chr2:96451438	2	96.45144	0.021299943	Credible Set	purple
chr2:96462914	2	96.46291	0.014371330	Credible Set	purple
chr2:96468064	2	96.46806	0.022194194	Credible Set	purple
chr2:96611762	2	96.61176	0.021647155	Credible Set	purple
chr2:96645727	2	96.64573	0.022445691	Credible Set	purple
chr2:96697256	2	96.69726	0.022439873	Credible Set	purple
chr2:96697871	2	96.69787	0.019417377	Credible Set	purple
chr2:96697872	2	96.69787	0.019470185	Credible Set	purple
chr2:96701045	2	96.70104	0.016285920	Credible Set	purple
chr2:96701070	2	96.70107	0.016285920	Credible Set	purple
chr2:96701077	2	96.70108	0.016285920	Credible Set	purple
chr2:96701079	2	96.70108	0.016285920	Credible Set	purple
chr2:96701166	2	96.70117	0.020975667	Credible Set	purple
chr2:96766199	2	96.76620	0.018478019	Credible Set	purple
chr2:96771761	2	96.77176	0.008045576	Credible Set	purple
chr2:96771791	2	96.77179	0.008026753	Credible Set	purple
chr2:96786046	2	96.78605	0.002958953	Credible Set	purple
chr2:97355566	2	97.35557	0.001965050	Credible Set	purple
chr2:97741014	2	97.74101	0.001788228	Credible Set	purple

F34 GBS, iron content in liver



109 genes
omitted

date: Thu Oct 25 17:15:40 2018

build: F34GBS

display range: chr2:116930803–126930803 [116930803–126930803]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:121930803

number of SNPs plotted: 530

min P-value: 4.06E–12 [chr2:121930803]

max P-value: 2.83E–4 [chr2:118463923]

omitted Genes: Gm13985, 4930412B13Rik, Gm13986

omitted Genes: 1700054M17Rik, Srp14, Bmf

omitted Genes: Bub1b, Pak6, Ankrd63

omitted Genes: Plcb2, Inafm2, A430105I19Rik

omitted Genes: Phgr1, Knstrn, Bahd1

omitted Genes: Chst14, Ccdc32, Rpusd2

omitted Genes: Rad51, Rmdn3, Dnajc17

omitted Genes: Gm14137, Zfyve19, Ppp1r14d

omitted Genes: Spint1, Rhov, Vps18

omitted Genes: Gm14207, Dll4, Chac1

omitted Genes: Chp1, 1700020I14Rik, Oip5

omitted Genes: Nusap1, Ndufaf1, Itpka

omitted Genes: Rpap1, Tyro3, Mga

omitted Genes: Mapkbp1, Mir7665, Jmjd7

omitted Genes: Gm28042, Pla2g4b, Pla2g4e

omitted Genes: Pla2g4f, Tmem87a, 4931402G19Rik

omitted Genes: Capn3, Zfp106, Snap23

omitted Genes: Lrrc57, Haus2, Cdan1

omitted Genes: AV039307, Ubr1, Tmem62

omitted Genes: Ccndbp1, Lcmt2, Adal

omitted Genes: Zscan29, Tubgcp4, Trp53bp1

omitted Genes: Map1a, Ppip5k1, Ckmt1

omitted Genes: Catsper2, Pdia3, Eil3

omitted Genes: Serf2, Serinc4, Hypk

omitted Genes: Mfap1b, Mfap1a, Wdr76

omitted Genes: Frmd5, Spg11, Patl2

omitted Genes: B2m, Trim69, Terb2

omitted Genes: Sord, Duox2, Duoxa2

omitted Genes: Duoxa1, Duox1, Shf

omitted Genes: Slc28a2, Bambi-ps1, Gm14085

omitted Genes: Spata5l1, AA467197, Mir147

omitted Genes: Slc30a4, Blec1c6, Myof2

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121569629	2	121.5696	0.003133483	Credible Set	purple
chr2:121569951	2	121.5700	0.003145795	Credible Set	purple
chr2:121570025	2	121.5700	0.004232924	Credible Set	purple
chr2:121595218	2	121.5952	0.007755888	Credible Set	purple
chr2:121595356	2	121.5954	0.007755888	Credible Set	purple
chr2:121595424	2	121.5954	0.006025871	Credible Set	purple
chr2:121595633	2	121.5956	0.006561241	Credible Set	purple
chr2:121605090	2	121.6051	0.007755888	Credible Set	purple
chr2:121605163	2	121.6052	0.007248706	Credible Set	purple
chr2:121609496	2	121.6095	0.007629410	Credible Set	purple
chr2:121609992	2	121.6100	0.006080155	Credible Set	purple
chr2:121610054	2	121.6101	0.007039792	Credible Set	purple
chr2:121644474	2	121.6445	0.007755888	Credible Set	purple
chr2:121644502	2	121.6445	0.007755888	Credible Set	purple
chr2:121647254	2	121.6473	0.007985426	Credible Set	purple
chr2:121675210	2	121.6752	0.010662479	Credible Set	purple
chr2:121675212	2	121.6752	0.010662479	Credible Set	purple
chr2:121675249	2	121.6752	0.010662479	Credible Set	purple
chr2:121675251	2	121.6753	0.010662479	Credible Set	purple
chr2:121760589	2	121.7606	0.004296592	Credible Set	purple
chr2:121760592	2	121.7606	0.004296592	Credible Set	purple
chr2:121760608	2	121.7606	0.004296592	Credible Set	purple
chr2:121760655	2	121.7607	0.003294660	Credible Set	purple
chr2:121760675	2	121.7607	0.003294660	Credible Set	purple
chr2:121795014	2	121.7950	0.005887328	Credible Set	purple
chr2:121859536	2	121.8595	0.002151535	Credible Set	purple
chr2:121859542	2	121.8595	0.002143376	Credible Set	purple
chr2:121910457	2	121.9105	0.006793285	Credible Set	purple
chr2:121930722	2	121.9307	0.006694281	Credible Set	purple
chr2:121930803	2	121.9308	0.070714562	Credible Set	purple
chr2:121930806	2	121.9308	0.070714562	Credible Set	purple
chr2:121963958	2	121.9640	0.011635947	Credible Set	purple
chr2:121964022	2	121.9640	0.008924639	Credible Set	purple
chr2:121964577	2	121.9646	0.008234906	Credible Set	purple
chr2:121982399	2	121.9824	0.007118213	Credible Set	purple
chr2:121994315	2	121.9943	0.004434478	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121994324	2	121.9943	0.004434478	Credible Set	purple
chr2:122047663	2	122.0477	0.006586628	Credible Set	purple
chr2:122060688	2	122.0607	0.006885602	Credible Set	purple
chr2:122061099	2	122.0611	0.005927683	Credible Set	purple
chr2:122065787	2	122.0658	0.006477903	Credible Set	purple
chr2:122065870	2	122.0659	0.006301764	Credible Set	purple
chr2:122077766	2	122.0778	0.002370989	Credible Set	purple
chr2:122077798	2	122.0778	0.002370989	Credible Set	purple
chr2:122083136	2	122.0831	0.006504421	Credible Set	purple
chr2:122090229	2	122.0902	0.006422790	Credible Set	purple
chr2:122115252	2	122.1153	0.005878040	Credible Set	purple
chr2:122122941	2	122.1229	0.005690708	Credible Set	purple
chr2:122123313	2	122.1233	0.006247165	Credible Set	purple
chr2:122132763	2	122.1328	0.006087368	Credible Set	purple
chr2:122151119	2	122.1511	0.006149327	Credible Set	purple
chr2:122202473	2	122.2025	0.003852653	Credible Set	purple
chr2:122244672	2	122.2447	0.009937406	Credible Set	purple
chr2:122250299	2	122.2503	0.007191398	Credible Set	purple
chr2:122328643	2	122.3286	0.002299839	Credible Set	purple
chr2:122328650	2	122.3286	0.003475004	Credible Set	purple
chr2:122346906	2	122.3469	0.003101151	Credible Set	purple
chr2:122376352	2	122.3764	0.001713187	Credible Set	purple
chr2:122376463	2	122.3765	0.008258864	Credible Set	purple
chr2:122387979	2	122.3880	0.002883818	Credible Set	purple
chr2:122388097	2	122.3881	0.002561703	Credible Set	purple
chr2:122388208	2	122.3882	0.002514832	Credible Set	purple
chr2:122458764	2	122.4588	0.002451155	Credible Set	purple
chr2:122504055	2	122.5041	0.003608100	Credible Set	purple
chr2:122542898	2	122.5429	0.008070659	Credible Set	purple
chr2:122587284	2	122.5873	0.008272898	Credible Set	purple
chr2:122587743	2	122.5877	0.008298741	Credible Set	purple
chr2:122593432	2	122.5934	0.007882663	Credible Set	purple
chr2:122642503	2	122.6425	0.027157517	Credible Set	purple
chr2:122656435	2	122.6564	0.016242538	Credible Set	purple
chr2:122656458	2	122.6565	0.016242538	Credible Set	purple
chr2:122702118	2	122.7021	0.009577217	Credible Set	purple

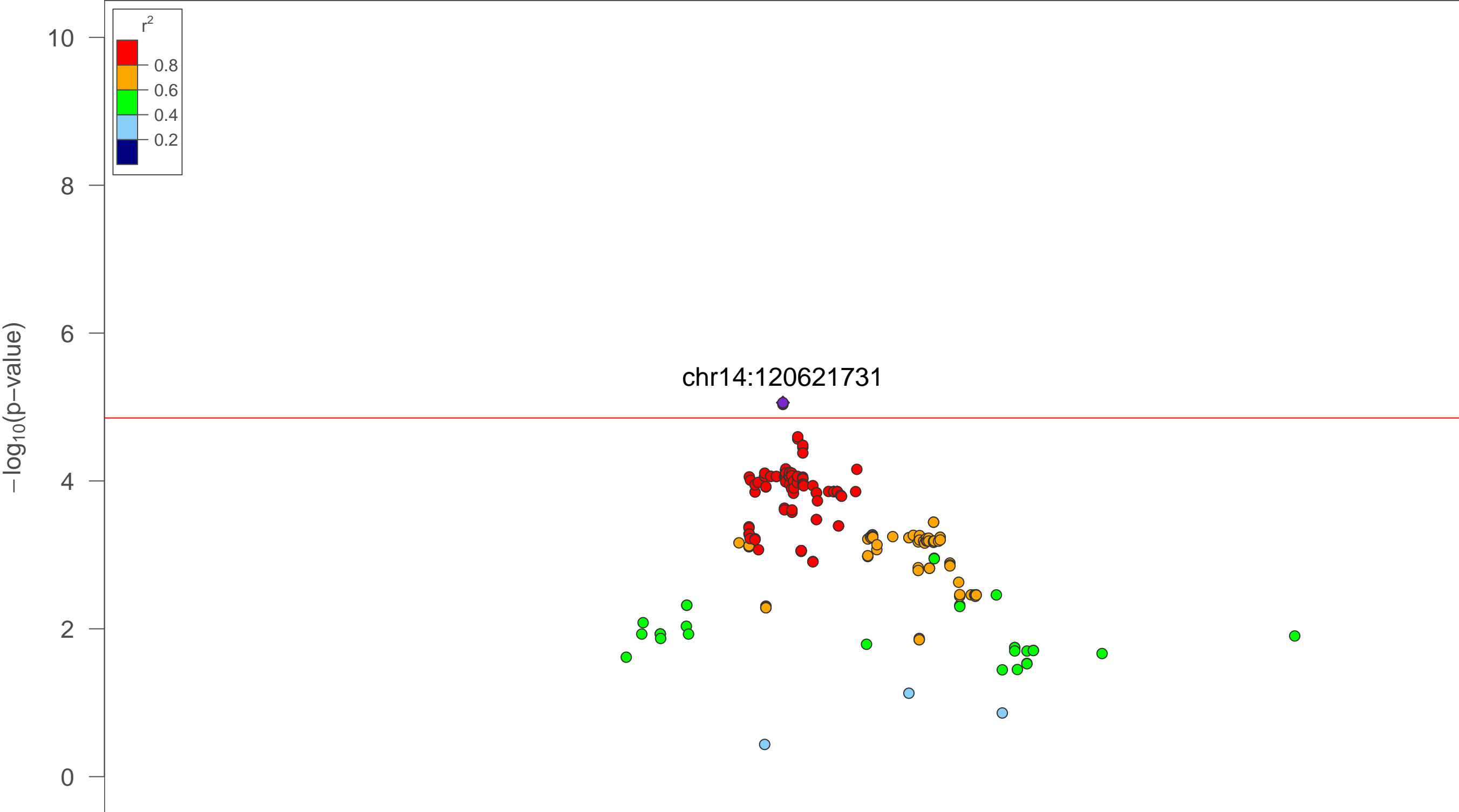
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:122704152	2	122.7042	0.007164023	Credible Set	purple
chr2:122708239	2	122.7082	0.007755888	Credible Set	purple
chr2:122739988	2	122.7400	0.002470998	Credible Set	purple
chr2:122740035	2	122.7400	0.002469759	Credible Set	purple
chr2:122771056	2	122.7711	0.007366102	Credible Set	purple
chr2:122771465	2	122.7715	0.008149988	Credible Set	purple
chr2:122797192	2	122.7972	0.007263408	Credible Set	purple
chr2:122797216	2	122.7972	0.007219008	Credible Set	purple
chr2:122797265	2	122.7973	0.008181448	Credible Set	purple
chr2:122797266	2	122.7973	0.008197958	Credible Set	purple
chr2:122804433	2	122.8044	0.005736508	Credible Set	purple
chr2:122811212	2	122.8112	0.005168723	Credible Set	purple
chr2:122811304	2	122.8113	0.005727219	Credible Set	purple
chr2:122814314	2	122.8143	0.011175145	Credible Set	purple
chr2:122814326	2	122.8143	0.008402303	Credible Set	purple
chr2:122814381	2	122.8144	0.008531467	Credible Set	purple
chr2:122814728	2	122.8147	0.009274010	Credible Set	purple
chr2:122814902	2	122.8149	0.008132534	Credible Set	purple
chr2:122814909	2	122.8149	0.008149358	Credible Set	purple
chr2:122924669	2	122.9247	0.002361641	Credible Set	purple
chr2:122924685	2	122.9247	0.002371527	Credible Set	purple
chr2:122924695	2	122.9247	0.002361641	Credible Set	purple
chr2:122924696	2	122.9247	0.002361641	Credible Set	purple
chr2:122927536	2	122.9275	0.007485543	Credible Set	purple
chr2:122927903	2	122.9279	0.009534543	Credible Set	purple
chr2:122927980	2	122.9280	0.009752696	Credible Set	purple
chr2:122927997	2	122.9280	0.002683199	Credible Set	purple
chr2:122928025	2	122.9280	0.002539716	Credible Set	purple
chr2:122968234	2	122.9682	0.003161310	Credible Set	purple
chr2:122968260	2	122.9683	0.003230687	Credible Set	purple
chr2:122968275	2	122.9683	0.003075386	Credible Set	purple
chr2:122968296	2	122.9683	0.003088519	Credible Set	purple
chr2:122983867	2	122.9839	0.007704921	Credible Set	purple
chr2:122986477	2	122.9865	0.007941141	Credible Set	purple
chr2:122986971	2	122.9870	0.008167152	Credible Set	purple
chr2:123021071	2	123.0211	0.007846689	Credible Set	purple

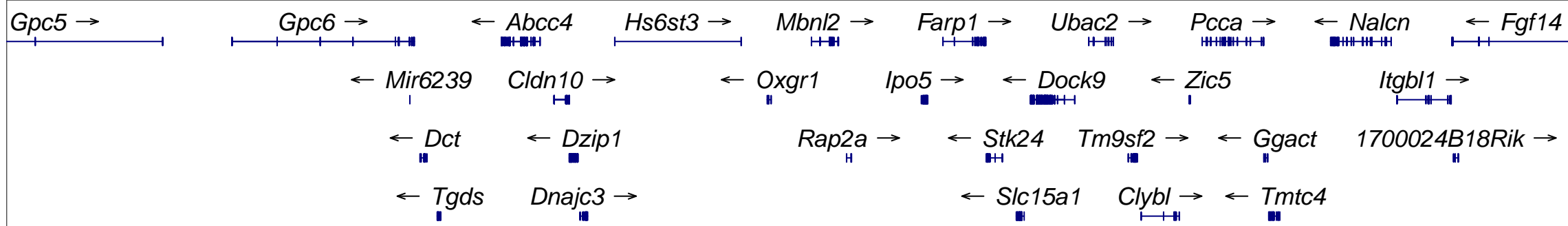
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:123021090	2	123.0211	0.007872734	Credible Set	purple
chr2:123021532	2	123.0215	0.007823060	Credible Set	purple
chr2:123088225	2	123.0882	0.007912931	Credible Set	purple
chr2:123175096	2	123.1751	0.007879959	Credible Set	purple
chr2:123190496	2	123.1905	0.007960532	Credible Set	purple
chr2:123219436	2	123.2194	0.007469322	Credible Set	purple
chr2:123219468	2	123.2195	0.007281566	Credible Set	purple
chr2:123346239	2	123.3462	0.002171426	Credible Set	purple
chr2:123346253	2	123.3463	0.002090464	Credible Set	purple
chr2:123346704	2	123.3467	0.006300361	Credible Set	purple
chr2:123371857	2	123.3719	0.006120310	Credible Set	purple
chr2:123371991	2	123.3720	0.006120310	Credible Set	purple
chr2:123404160	2	123.4042	0.005368147	Credible Set	purple
chr2:123404632	2	123.4046	0.005499987	Credible Set	purple
chr2:123470044	2	123.4700	0.006042828	Credible Set	purple
chr2:123470368	2	123.4704	0.006689148	Credible Set	purple
chr2:123470382	2	123.4704	0.006688751	Credible Set	purple
chr2:123478720	2	123.4787	0.006981594	Credible Set	purple
chr2:123505482	2	123.5055	0.005959121	Credible Set	purple
chr2:123505557	2	123.5056	0.005930026	Credible Set	purple
chr2:123527223	2	123.5272	0.007863122	Credible Set	purple
chr2:123584403	2	123.5844	0.006645888	Credible Set	purple
chr2:123585516	2	123.5855	0.006613768	Credible Set	purple
chr2:123735848	2	123.7358	0.004937967	Credible Set	purple
chr2:123735871	2	123.7359	0.004946098	Credible Set	purple
chr2:123735958	2	123.7360	0.005374211	Credible Set	purple

F34 GBS, iron content in liver



Credible Set



19 genes
omitted

date: Thu Oct 25 17:15:18 2018

build: F34GBS

display range: chr14:115621731–125621731 [115621731–125621731]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:120621731

number of SNPs plotted: 206

min P-value: 8.72E–6 [chr14:120621731]

max P-value: 3.66E–1 [chr14:120487423]

omitted Genes: Gpr180, Sox21, LOC105245869

omitted Genes: Mir6241, Gm9376, 1700044C05Rik

omitted Genes: Mir6391, Ugg2, 1700006F04Rik

omitted Genes: 1810041H14Rik, Gpr18, Gpr183

omitted Genes: Timm8a2, A330035P11Rik, 1700108J01Rik

omitted Genes: Gm5089, 2610035F20Rik, Zic2

omitted Genes: AA536875

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120371692	14	120.3717	0.002269808	Credible Set	purple
chr14:120371706	14	120.3717	0.002191663	Credible Set	purple
chr14:120371729	14	120.3717	0.001849816	Credible Set	purple
chr14:120373900	14	120.3739	0.009793911	Credible Set	purple
chr14:120374171	14	120.3742	0.001784498	Credible Set	purple
chr14:120374181	14	120.3742	0.001837517	Credible Set	purple
chr14:120379882	14	120.3799	0.001610230	Credible Set	purple
chr14:120382338	14	120.3823	0.008887336	Credible Set	purple
chr14:120416102	14	120.4161	0.001607522	Credible Set	purple
chr14:120416136	14	120.4161	0.001558402	Credible Set	purple
chr14:120416333	14	120.4163	0.006266201	Credible Set	purple
chr14:120416347	14	120.4163	0.007748995	Credible Set	purple
chr14:120439342	14	120.4393	0.008325976	Credible Set	purple
chr14:120487392	14	120.4874	0.009982187	Credible Set	purple
chr14:120487416	14	120.4874	0.009973058	Credible Set	purple
chr14:120487566	14	120.4876	0.009973058	Credible Set	purple
chr14:120487639	14	120.4876	0.010923959	Credible Set	purple
chr14:120495956	14	120.4960	0.007265250	Credible Set	purple
chr14:120495976	14	120.4960	0.007352010	Credible Set	purple
chr14:120532718	14	120.5327	0.009935141	Credible Set	purple
chr14:120532740	14	120.5327	0.009935141	Credible Set	purple
chr14:120573821	14	120.5738	0.009873525	Credible Set	purple
chr14:120573951	14	120.5740	0.009935141	Credible Set	purple
chr14:120621718	14	120.6217	0.083468244	Credible Set	purple
chr14:120621731	14	120.6217	0.088133759	Credible Set	purple
chr14:120621749	14	120.6217	0.086407684	Credible Set	purple
chr14:120632852	14	120.6329	0.003910726	Credible Set	purple
chr14:120632882	14	120.6329	0.003722401	Credible Set	purple
chr14:120633549	14	120.6335	0.009935141	Credible Set	purple
chr14:120641466	14	120.6415	0.011887200	Credible Set	purple
chr14:120641472	14	120.6415	0.011887200	Credible Set	purple
chr14:120641546	14	120.6415	0.009935141	Credible Set	purple
chr14:120642644	14	120.6426	0.012387622	Credible Set	purple
chr14:120642688	14	120.6427	0.010961154	Credible Set	purple
chr14:120642702	14	120.6427	0.008469508	Credible Set	purple
chr14:120642723	14	120.6427	0.008469508	Credible Set	purple

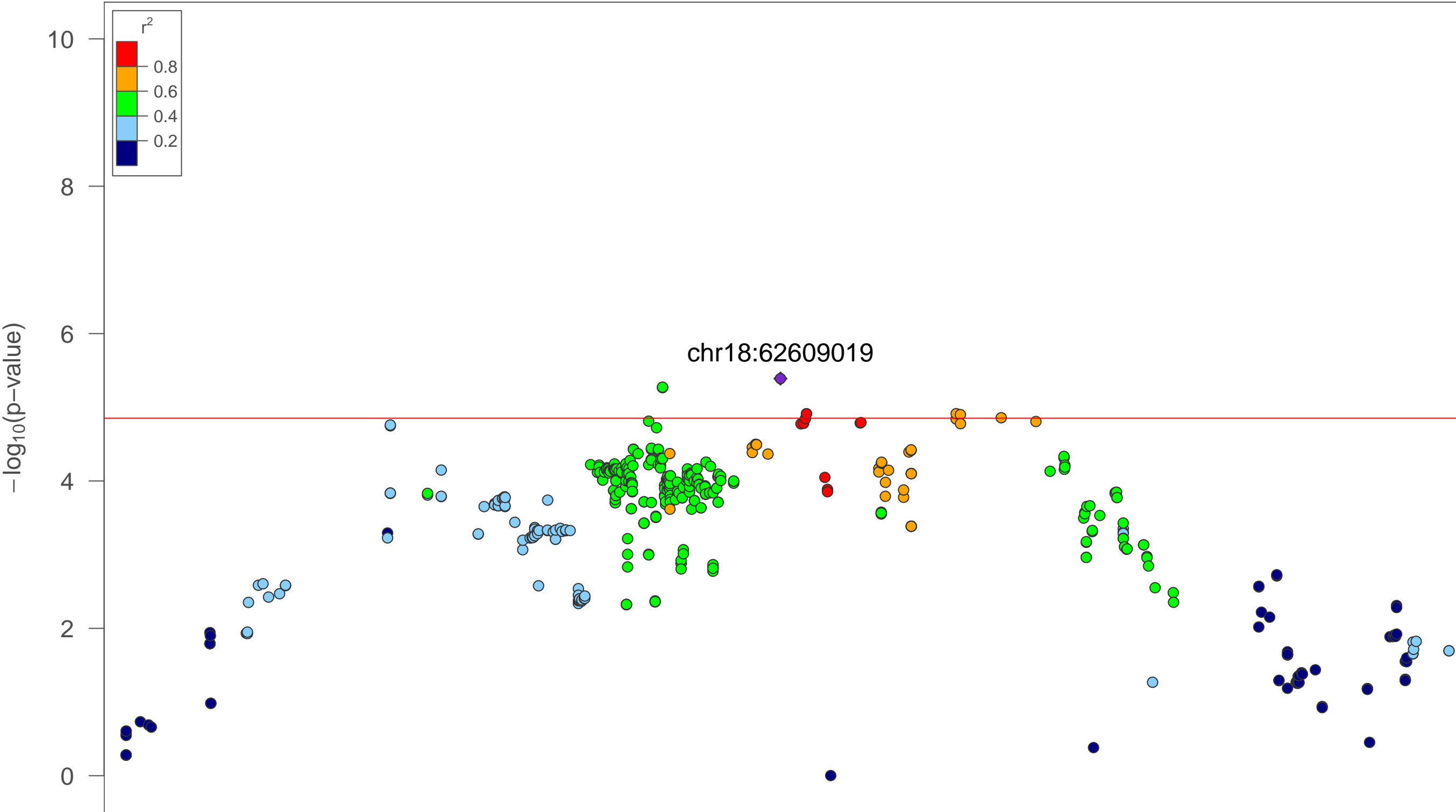
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120665611	14	120.6656	0.009935141	Credible Set	purple
chr14:120670727	14	120.6707	0.007891510	Credible Set	purple
chr14:120671083	14	120.6711	0.009935141	Credible Set	purple
chr14:120671092	14	120.6711	0.009935141	Credible Set	purple
chr14:120671147	14	120.6711	0.009935141	Credible Set	purple
chr14:120671180	14	120.6712	0.011159893	Credible Set	purple
chr14:120671181	14	120.6712	0.011187145	Credible Set	purple
chr14:120686008	14	120.6860	0.006905295	Credible Set	purple
chr14:120686112	14	120.6861	0.010960143	Credible Set	purple
chr14:120686362	14	120.6864	0.010143590	Credible Set	purple
chr14:120686413	14	120.6864	0.010105737	Credible Set	purple
chr14:120688462	14	120.6885	0.003459534	Credible Set	purple
chr14:120688492	14	120.6885	0.003712945	Credible Set	purple
chr14:120699639	14	120.6996	0.006046421	Credible Set	purple
chr14:120699675	14	120.6997	0.008623701	Credible Set	purple
chr14:120702426	14	120.7024	0.007042586	Credible Set	purple
chr14:120728333	14	120.7283	0.009800183	Credible Set	purple
chr14:120728361	14	120.7284	0.008240755	Credible Set	purple
chr14:120730072	14	120.7301	0.009935141	Credible Set	purple
chr14:120731135	14	120.7311	0.029942186	Credible Set	purple
chr14:120731136	14	120.7311	0.031995432	Credible Set	purple
chr14:120767991	14	120.7680	0.009722721	Credible Set	purple
chr14:120768037	14	120.7680	0.009353242	Credible Set	purple
chr14:120768301	14	120.7683	0.023343015	Credible Set	purple
chr14:120768336	14	120.7683	0.024874429	Credible Set	purple
chr14:120768349	14	120.7683	0.019802031	Credible Set	purple
chr14:120768705	14	120.7687	0.009242886	Credible Set	purple
chr14:120768743	14	120.7687	0.007934912	Credible Set	purple
chr14:120768819	14	120.7688	0.007832997	Credible Set	purple
chr14:120774259	14	120.7743	0.007683939	Credible Set	purple
chr14:120774290	14	120.7743	0.007892917	Credible Set	purple
chr14:120774318	14	120.7743	0.007530706	Credible Set	purple
chr14:120842399	14	120.8424	0.007567607	Credible Set	purple
chr14:120868390	14	120.8684	0.006115525	Credible Set	purple
chr14:120868527	14	120.8685	0.006141997	Credible Set	purple
chr14:120868538	14	120.8685	0.006141997	Credible Set	purple

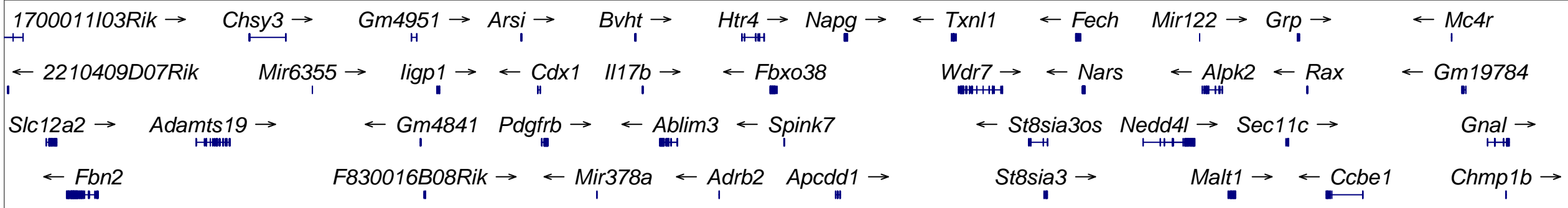
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120868670	14	120.8687	0.002806309	Credible Set	purple
chr14:120868693	14	120.8687	0.002806309	Credible Set	purple
chr14:120875959	14	120.8760	0.004840687	Credible Set	purple
chr14:120958410	14	120.9584	0.006378942	Credible Set	purple
chr14:120996497	14	120.9965	0.006353278	Credible Set	purple
chr14:120996551	14	120.9966	0.006353278	Credible Set	purple
chr14:120996555	14	120.9966	0.006353278	Credible Set	purple
chr14:120996573	14	120.9966	0.006353278	Credible Set	purple
chr14:121021982	14	121.0220	0.006353278	Credible Set	purple
chr14:121022009	14	121.0220	0.006353278	Credible Set	purple
chr14:121022048	14	121.0220	0.006353278	Credible Set	purple
chr14:121022050	14	121.0220	0.006353278	Credible Set	purple
chr14:121031640	14	121.0316	0.002329522	Credible Set	purple
chr14:121031672	14	121.0317	0.002329522	Credible Set	purple
chr14:121047713	14	121.0477	0.005711483	Credible Set	purple
chr14:121054065	14	121.0541	0.005540939	Credible Set	purple
chr14:121157624	14	121.1576	0.006353278	Credible Set	purple
chr14:121166355	14	121.1664	0.012231142	Credible Set	purple

F34 GBS, iron content in liver



Credible Set



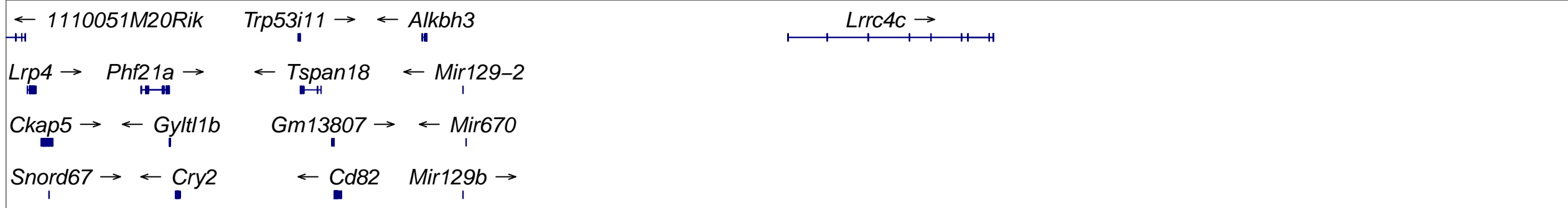
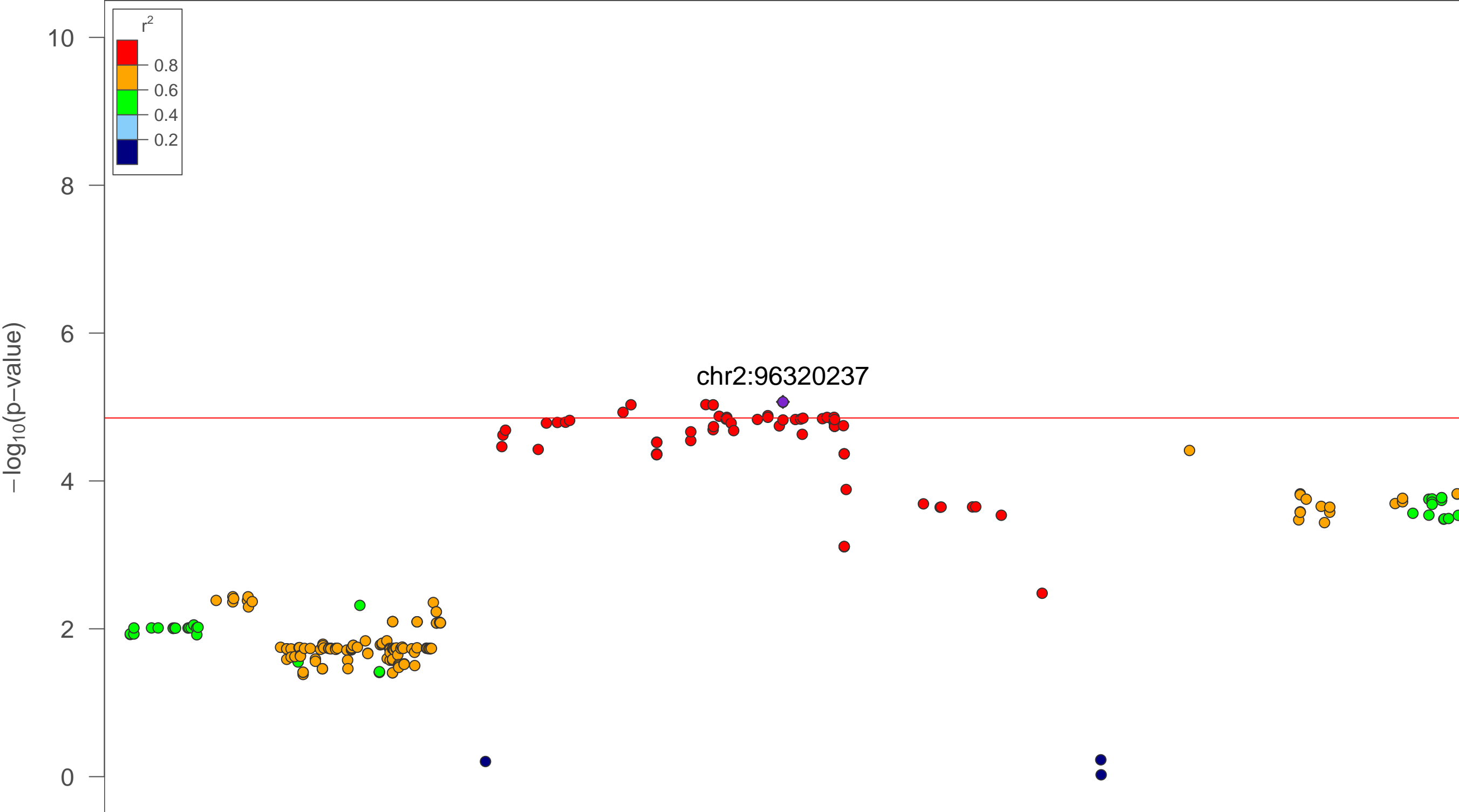
56 genes
omitted

date: Thu Oct 25 17:15:30 2018
build: F34GBS
display range: chr18:57609019–67609019 [57609019–67609019]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr18:62609019
number of SNPs plotted: 481
min P-value: 4.08E–6 [chr18:62609019]
max P-value: 9.95E–1 [chr18:62980832]
omitted Genes: Slc27a6, Isoc1, A730017C20Rik
omitted Genes: Smim3, Dctn4, Rbm22
omitted Genes: Myoz3, Synpo, G630071F17Rik
omitted Genes: Ndst1, Rps14, Cd74
omitted Genes: Mir5107, Tcof1, Camk2a
omitted Genes: Mir7220, Mir6982, Slc6a7
omitted Genes: Csf1r, Mir6983, Hmgxb3
omitted Genes: Slc26a2, Pde6a, Ppargc1b
omitted Genes: A530050N04Rik, Arhgef37, Csnk1a1
omitted Genes: Carmn, Mir145a, Mir143
omitted Genes: Pcyox1l, Grpel2, 1500015A07Rik
omitted Genes: Afap1l1, Sh3tc2, Spink10
omitted Genes: Spink13, 2700046A07Rik, Piezo2
omitted Genes: Onecut2, Atp8b1, Zfp532
omitted Genes: Oacyl, Cplx4, Lman1
omitted Genes: Mir694, Pmaip1, Gm9926
omitted Genes: Mppe1, Impa2, B430212C06Rik
omitted Genes: Cidea, Tubb6, Afg3l2
omitted Genes: Slmo1, Spire1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:62609019	18	62.60902	0.31416088	Credible Set	purple
chr18:62760743	18	62.76074	0.08133874	Credible Set	purple
chr18:62780679	18	62.78068	0.08262774	Credible Set	purple
chr18:62793979	18	62.79398	0.09517501	Credible Set	purple
chr18:62801634	18	62.80163	0.10986009	Credible Set	purple
chr18:62801661	18	62.80166	0.10986009	Credible Set	purple
chr18:62937328	18	62.93733	0.01660355	Credible Set	purple
chr18:62956832	18	62.95683	0.01167004	Credible Set	purple
chr18:62956840	18	62.95684	0.01086881	Credible Set	purple
chr18:63198665	18	63.19866	0.08343290	Credible Set	purple
chr18:63204145	18	63.20414	0.08440215	Credible Set	purple

F34 GBS, iron content in liver z score



36 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 17:16:28 2018

build: F34GBS

display range: chr2:91320237–101320237 [91320237–101320237]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:96320237

number of SNPs plotted: 236

min P-value: 8.52E–6 [chr2:96320237]

max P-value: 9.43E–1 [chr2:98665093]

omitted Genes: F2, Zfp408, Arhgap1

omitted Genes: Atg13, Harbi1, Ambra1

omitted Genes: Chrm4, Mdk, Dgkz

omitted Genes: Mir6999, Creb3l1, Mir1955

omitted Genes: Pex16, 1700029I15Rik, Mapk8ip1

omitted Genes: Mir7000, D930015M05Rik, Slc35c1

omitted Genes: Mir7221, Mir7222, Chst1

omitted Genes: Syt13, Prdm11, 4631405J19Rik

omitted Genes: Mir7001, Gm10804, Alx4

omitted Genes: Ext2, Accs, Accsl

omitted Genes: Gm13889, Alkbh3os1, Hsd17b12

omitted Genes: Ttc17, 2810002D19Rik, Api5

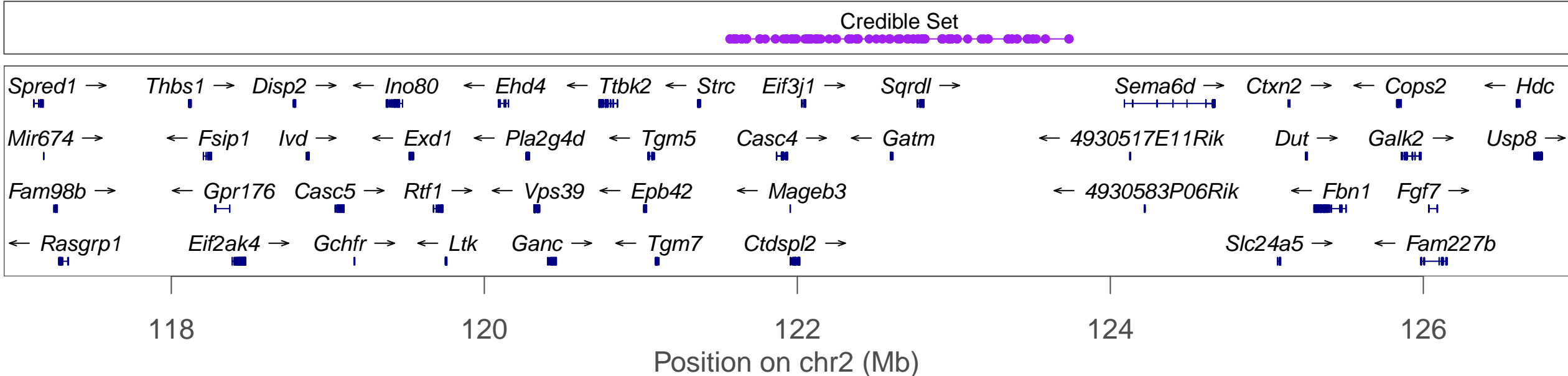
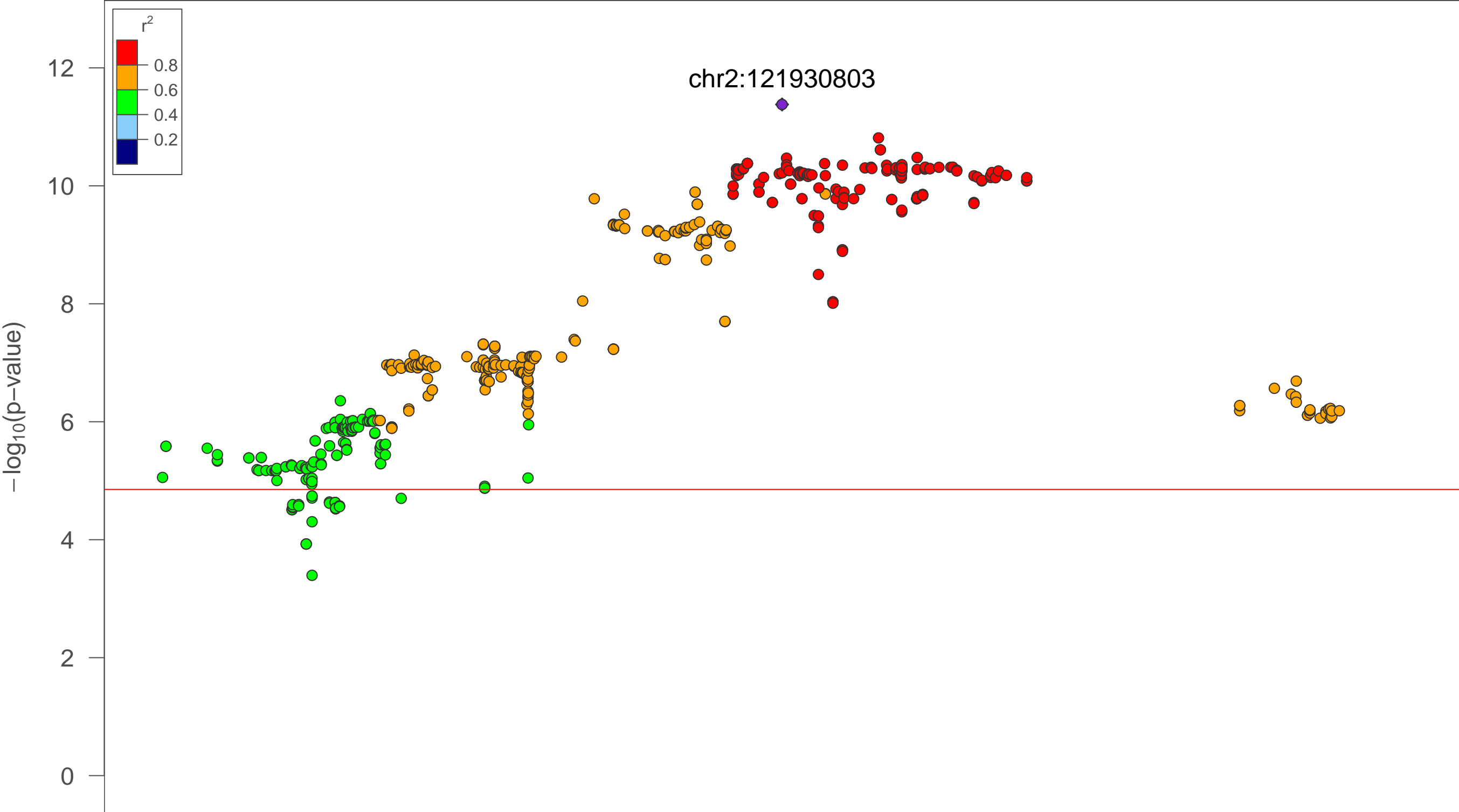
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:94249122	2	94.24912	0.009345889	Credible Set	purple
chr2:94257379	2	94.25738	0.013149298	Credible Set	purple
chr2:94276010	2	94.27601	0.015190090	Credible Set	purple
chr2:94516977	2	94.51698	0.008596523	Credible Set	purple
chr2:94577500	2	94.57750	0.018768120	Credible Set	purple
chr2:94657941	2	94.65794	0.019106526	Credible Set	purple
chr2:94718556	2	94.71856	0.019232070	Credible Set	purple
chr2:94748712	2	94.74871	0.020318937	Credible Set	purple
chr2:95141904	2	95.14190	0.025871490	Credible Set	purple
chr2:95200398	2	95.20040	0.032322327	Credible Set	purple
chr2:95390243	2	95.39024	0.007488085	Credible Set	purple
chr2:95390247	2	95.39025	0.007341922	Credible Set	purple
chr2:95390277	2	95.39028	0.007556063	Credible Set	purple
chr2:95390284	2	95.39028	0.007394122	Credible Set	purple
chr2:95390546	2	95.39055	0.010663314	Credible Set	purple
chr2:95390592	2	95.39059	0.010574691	Credible Set	purple
chr2:95641124	2	95.64112	0.011159002	Credible Set	purple
chr2:95641477	2	95.64148	0.014491530	Credible Set	purple
chr2:95752277	2	95.75228	0.032479006	Credible Set	purple
chr2:95805867	2	95.80587	0.015405704	Credible Set	purple
chr2:95806028	2	95.80603	0.031965628	Credible Set	purple
chr2:95806038	2	95.80604	0.032299024	Credible Set	purple
chr2:95808603	2	95.80860	0.016903695	Credible Set	purple
chr2:95850674	2	95.85067	0.022992151	Credible Set	purple
chr2:95900229	2	95.90023	0.021113571	Credible Set	purple
chr2:95906738	2	95.90674	0.022263063	Credible Set	purple
chr2:95906783	2	95.90678	0.021372052	Credible Set	purple
chr2:95938782	2	95.93878	0.018709679	Credible Set	purple
chr2:95957448	2	95.95745	0.014994804	Credible Set	purple
chr2:96132587	2	96.13259	0.020911104	Credible Set	purple
chr2:96209134	2	96.20913	0.023419246	Credible Set	purple
chr2:96209157	2	96.20916	0.022268999	Credible Set	purple
chr2:96293855	2	96.29385	0.017241174	Credible Set	purple
chr2:96320222	2	96.32022	0.034860342	Credible Set	purple
chr2:96320237	2	96.32024	0.035235075	Credible Set	purple
chr2:96320641	2	96.32064	0.020592921	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:96412425	2	96.41242	0.020875290	Credible Set	purple
chr2:96451438	2	96.45144	0.021113571	Credible Set	purple
chr2:96462914	2	96.46291	0.013447390	Credible Set	purple
chr2:96468064	2	96.46806	0.021712016	Credible Set	purple
chr2:96611762	2	96.61176	0.021390367	Credible Set	purple
chr2:96645727	2	96.64573	0.022222538	Credible Set	purple
chr2:96697256	2	96.69726	0.022262601	Credible Set	purple
chr2:96697871	2	96.69787	0.018980753	Credible Set	purple
chr2:96697872	2	96.69787	0.019258598	Credible Set	purple
chr2:96701045	2	96.70104	0.017070663	Credible Set	purple
chr2:96701070	2	96.70107	0.017070663	Credible Set	purple
chr2:96701077	2	96.70108	0.017070663	Credible Set	purple
chr2:96701079	2	96.70108	0.017070663	Credible Set	purple
chr2:96701166	2	96.70117	0.020818440	Credible Set	purple
chr2:96766199	2	96.76620	0.017362363	Credible Set	purple
chr2:96771761	2	96.77176	0.007564679	Credible Set	purple
chr2:96771791	2	96.77179	0.007543133	Credible Set	purple
chr2:96786046	2	96.78605	0.002639576	Credible Set	purple
chr2:97355566	2	97.35557	0.001733072	Credible Set	purple

F34 GBS, iron content in liver z score



date: Thu Oct 25 17:16:19 2018

build: F34GBS

display range: chr2:116930803–126930803 [116930803–126930803]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:121930803

number of SNPs plotted: 530

min P-value: 4.17E–12 [chr2:121930803]

max P-value: 4.02E–4 [chr2:118463923]

omitted Genes: Gm13985, 4930412B13Rik, Gm13986

omitted Genes: 1700054M17Rik, Srp14, Bmf

omitted Genes: Bub1b, Pak6, Ankrd63

omitted Genes: Plcb2, Inafm2, A430105I19Rik

omitted Genes: Phgr1, Knstrn, Bahd1

omitted Genes: Chst14, Ccdc32, Rpusd2

omitted Genes: Rad51, Rmdn3, Dnajc17

omitted Genes: Gm14137, Zfyve19, Ppp1r14d

omitted Genes: Spint1, Rhov, Vps18

omitted Genes: Gm14207, Dll4, Chac1

omitted Genes: Chp1, 1700020I14Rik, Oip5

omitted Genes: Nusap1, Ndufaf1, Itpka

omitted Genes: Rpap1, Tyro3, Mga

omitted Genes: Mapkbp1, Mir7665, Jmjd7

omitted Genes: Gm28042, Pla2g4b, Pla2g4e

omitted Genes: Pla2g4f, Tmem87a, 4931402G19Rik

omitted Genes: Capn3, Zfp106, Snap23

omitted Genes: Lrrc57, Haus2, Cdan1

omitted Genes: AV039307, Ubr1, Tmem62

omitted Genes: Ccndbp1, Lcmt2, Adal

omitted Genes: Zscan29, Tubgcp4, Trp53bp1

omitted Genes: Map1a, Ppip5k1, Ckmt1

omitted Genes: Catsper2, Pdia3, Eil3

omitted Genes: Serf2, Serinc4, Hypk

omitted Genes: Mfap1b, Mfap1a, Wdr76

omitted Genes: Frmd5, Spg11, Patl2

omitted Genes: B2m, Trim69, Terb2

omitted Genes: Sord, Duox2, Duoxa2

omitted Genes: Duoxa1, Duox1, Shf

omitted Genes: Slc28a2, Bambi-ps1, Gm14085

omitted Genes: Spata5l1, AA467197, Mir147

omitted Genes: Slc30a4, Blec1c6, Myof2

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121569629	2	121.5696	0.002857489	Credible Set	purple
chr2:121569951	2	121.5700	0.002888488	Credible Set	purple
chr2:121570025	2	121.5700	0.003934945	Credible Set	purple
chr2:121595218	2	121.5952	0.007532776	Credible Set	purple
chr2:121595356	2	121.5954	0.007532776	Credible Set	purple
chr2:121595424	2	121.5954	0.005848599	Credible Set	purple
chr2:121595633	2	121.5956	0.006371258	Credible Set	purple
chr2:121605090	2	121.6051	0.007532776	Credible Set	purple
chr2:121605163	2	121.6052	0.007356642	Credible Set	purple
chr2:121609496	2	121.6095	0.007385239	Credible Set	purple
chr2:121609992	2	121.6100	0.006101736	Credible Set	purple
chr2:121610054	2	121.6101	0.007184117	Credible Set	purple
chr2:121644474	2	121.6445	0.007532776	Credible Set	purple
chr2:121644502	2	121.6445	0.007532776	Credible Set	purple
chr2:121647254	2	121.6473	0.007687139	Credible Set	purple
chr2:121675210	2	121.6752	0.009304945	Credible Set	purple
chr2:121675212	2	121.6752	0.009304945	Credible Set	purple
chr2:121675249	2	121.6752	0.009304945	Credible Set	purple
chr2:121675251	2	121.6753	0.009304945	Credible Set	purple
chr2:121760589	2	121.7606	0.004252916	Credible Set	purple
chr2:121760592	2	121.7606	0.004252916	Credible Set	purple
chr2:121760608	2	121.7606	0.004252916	Credible Set	purple
chr2:121760655	2	121.7607	0.003110863	Credible Set	purple
chr2:121760675	2	121.7607	0.003110863	Credible Set	purple
chr2:121795014	2	121.7950	0.005449237	Credible Set	purple
chr2:121859536	2	121.8595	0.002099820	Credible Set	purple
chr2:121859542	2	121.8595	0.002090902	Credible Set	purple
chr2:121910457	2	121.9105	0.006283734	Credible Set	purple
chr2:121930722	2	121.9307	0.006480551	Credible Set	purple
chr2:121930803	2	121.9308	0.088633203	Credible Set	purple
chr2:121930806	2	121.9308	0.088633203	Credible Set	purple
chr2:121963958	2	121.9640	0.011392752	Credible Set	purple
chr2:121964022	2	121.9640	0.008828939	Credible Set	purple
chr2:121964577	2	121.9646	0.008056022	Credible Set	purple
chr2:121982399	2	121.9824	0.007056880	Credible Set	purple
chr2:121994315	2	121.9943	0.004227053	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:121994324	2	121.9943	0.004227053	Credible Set	purple
chr2:122047663	2	122.0477	0.006414192	Credible Set	purple
chr2:122060688	2	122.0607	0.006732340	Credible Set	purple
chr2:122061099	2	122.0611	0.005826115	Credible Set	purple
chr2:122065787	2	122.0658	0.006442917	Credible Set	purple
chr2:122065870	2	122.0659	0.006208577	Credible Set	purple
chr2:122077766	2	122.0778	0.002419555	Credible Set	purple
chr2:122077798	2	122.0778	0.002419555	Credible Set	purple
chr2:122083136	2	122.0831	0.006330985	Credible Set	purple
chr2:122090229	2	122.0902	0.006403112	Credible Set	purple
chr2:122115252	2	122.1153	0.005833033	Credible Set	purple
chr2:122122941	2	122.1229	0.005667775	Credible Set	purple
chr2:122123313	2	122.1233	0.006215054	Credible Set	purple
chr2:122132763	2	122.1328	0.006096369	Credible Set	purple
chr2:122151119	2	122.1511	0.006015879	Credible Set	purple
chr2:122202473	2	122.2025	0.003651499	Credible Set	purple
chr2:122244672	2	122.2447	0.009251758	Credible Set	purple
chr2:122250299	2	122.2503	0.005837905	Credible Set	purple
chr2:122328643	2	122.3286	0.002437696	Credible Set	purple
chr2:122328650	2	122.3286	0.003494080	Credible Set	purple
chr2:122346906	2	122.3469	0.003192585	Credible Set	purple
chr2:122376352	2	122.3764	0.001934156	Credible Set	purple
chr2:122376463	2	122.3765	0.008709426	Credible Set	purple
chr2:122387979	2	122.3880	0.003101788	Credible Set	purple
chr2:122388097	2	122.3881	0.002523569	Credible Set	purple
chr2:122388208	2	122.3882	0.002469119	Credible Set	purple
chr2:122458764	2	122.4588	0.002420198	Credible Set	purple
chr2:122504055	2	122.5041	0.003442057	Credible Set	purple
chr2:122542898	2	122.5429	0.007834508	Credible Set	purple
chr2:122587284	2	122.5873	0.008038345	Credible Set	purple
chr2:122587743	2	122.5877	0.008006825	Credible Set	purple
chr2:122593432	2	122.5934	0.007658566	Credible Set	purple
chr2:122642503	2	122.6425	0.024688407	Credible Set	purple
chr2:122656435	2	122.6564	0.015653215	Credible Set	purple
chr2:122656458	2	122.6565	0.015653215	Credible Set	purple
chr2:122702118	2	122.7021	0.008676101	Credible Set	purple

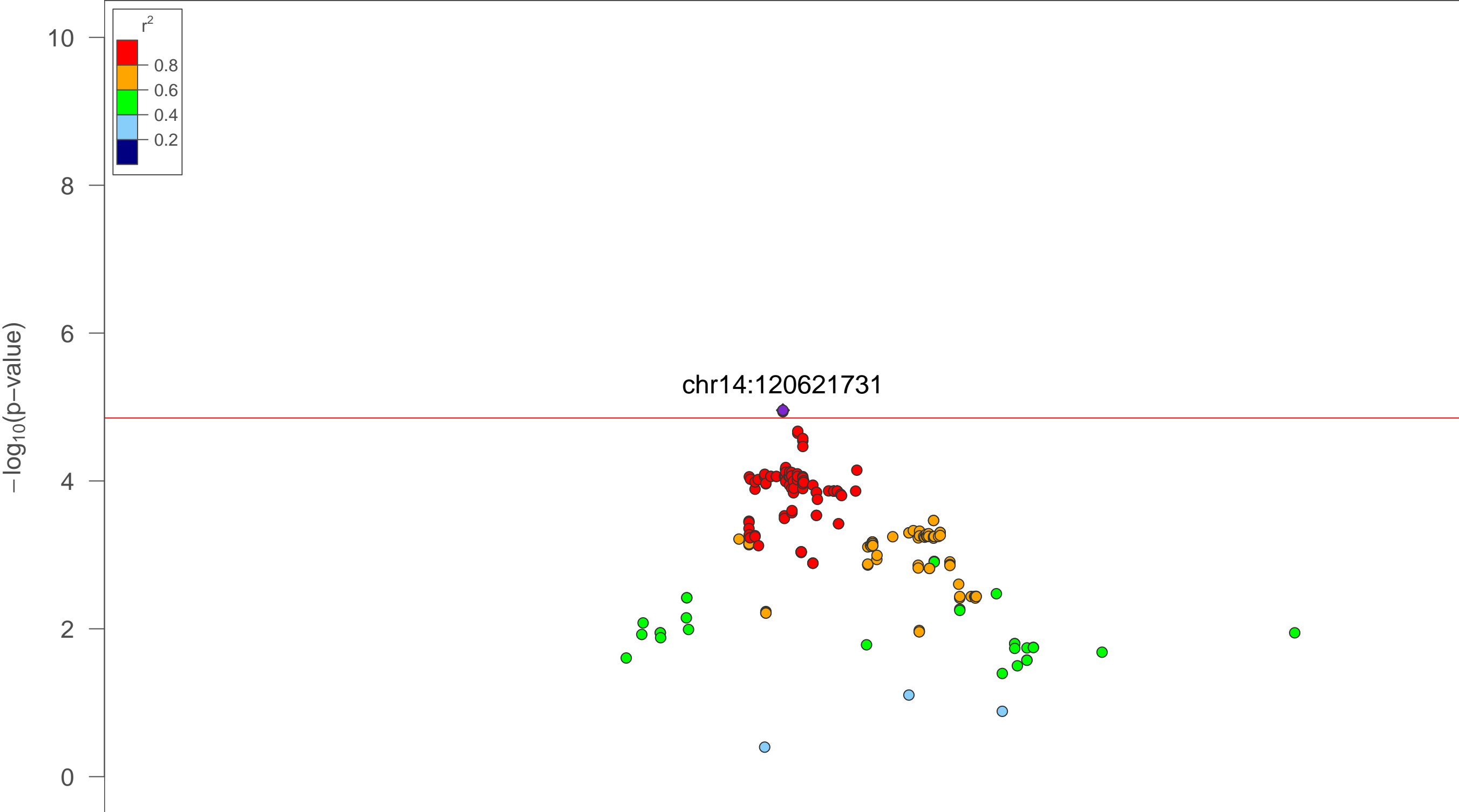
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:122704152	2	122.7042	0.006983921	Credible Set	purple
chr2:122708239	2	122.7082	0.007532776	Credible Set	purple
chr2:122739988	2	122.7400	0.002346524	Credible Set	purple
chr2:122740035	2	122.7400	0.002349438	Credible Set	purple
chr2:122771056	2	122.7711	0.007171837	Credible Set	purple
chr2:122771465	2	122.7715	0.007902549	Credible Set	purple
chr2:122797192	2	122.7972	0.006787411	Credible Set	purple
chr2:122797216	2	122.7972	0.006731594	Credible Set	purple
chr2:122797265	2	122.7973	0.007873788	Credible Set	purple
chr2:122797266	2	122.7973	0.007886566	Credible Set	purple
chr2:122804433	2	122.8044	0.005962276	Credible Set	purple
chr2:122811212	2	122.8112	0.005339439	Credible Set	purple
chr2:122811304	2	122.8113	0.005928817	Credible Set	purple
chr2:122814314	2	122.8143	0.008469307	Credible Set	purple
chr2:122814326	2	122.8143	0.006895917	Credible Set	purple
chr2:122814381	2	122.8144	0.007027315	Credible Set	purple
chr2:122814728	2	122.8147	0.008880280	Credible Set	purple
chr2:122814902	2	122.8149	0.007838651	Credible Set	purple
chr2:122814909	2	122.8149	0.007851767	Credible Set	purple
chr2:122924669	2	122.9247	0.002412749	Credible Set	purple
chr2:122924685	2	122.9247	0.002421077	Credible Set	purple
chr2:122924695	2	122.9247	0.002412749	Credible Set	purple
chr2:122924696	2	122.9247	0.002412749	Credible Set	purple
chr2:122927536	2	122.9275	0.007386738	Credible Set	purple
chr2:122927903	2	122.9279	0.011619776	Credible Set	purple
chr2:122927980	2	122.9280	0.011677971	Credible Set	purple
chr2:122927997	2	122.9280	0.002624947	Credible Set	purple
chr2:122928025	2	122.9280	0.002461347	Credible Set	purple
chr2:122968234	2	122.9682	0.002820595	Credible Set	purple
chr2:122968260	2	122.9683	0.002855143	Credible Set	purple
chr2:122968275	2	122.9683	0.002718756	Credible Set	purple
chr2:122968296	2	122.9683	0.002763713	Credible Set	purple
chr2:122983867	2	122.9839	0.007483440	Credible Set	purple
chr2:122986477	2	122.9865	0.007648956	Credible Set	purple
chr2:122986971	2	122.9870	0.008076340	Credible Set	purple
chr2:123021071	2	123.0211	0.007626697	Credible Set	purple

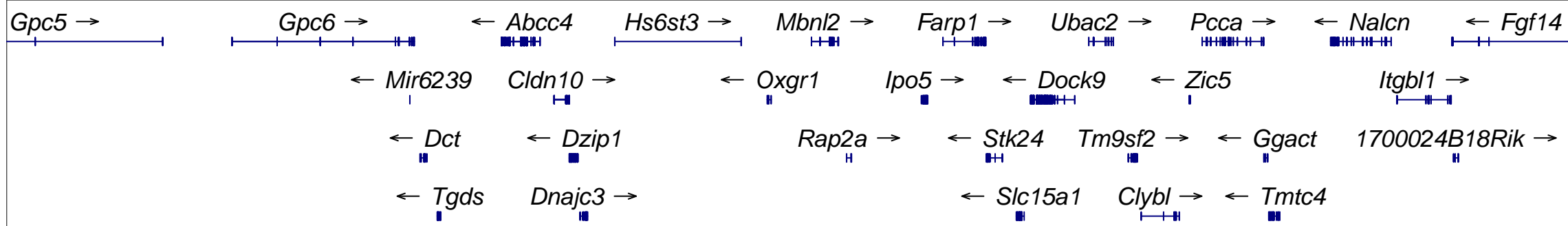
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:123021090	2	123.0211	0.007647626	Credible Set	purple
chr2:123021532	2	123.0215	0.007610671	Credible Set	purple
chr2:123088225	2	123.0882	0.008023564	Credible Set	purple
chr2:123175096	2	123.1751	0.008038758	Credible Set	purple
chr2:123190496	2	123.1905	0.008073418	Credible Set	purple
chr2:123219436	2	123.2194	0.007202137	Credible Set	purple
chr2:123219468	2	123.2195	0.006968850	Credible Set	purple
chr2:123346239	2	123.3462	0.002094342	Credible Set	purple
chr2:123346253	2	123.3463	0.002015733	Credible Set	purple
chr2:123346704	2	123.3467	0.005800515	Credible Set	purple
chr2:123371857	2	123.3719	0.005505525	Credible Set	purple
chr2:123371991	2	123.3720	0.005505525	Credible Set	purple
chr2:123404160	2	123.4042	0.004761916	Credible Set	purple
chr2:123404632	2	123.4046	0.004880475	Credible Set	purple
chr2:123470044	2	123.4700	0.005432790	Credible Set	purple
chr2:123470368	2	123.4704	0.005852956	Credible Set	purple
chr2:123470382	2	123.4704	0.005867645	Credible Set	purple
chr2:123478720	2	123.4787	0.006578271	Credible Set	purple
chr2:123505482	2	123.5055	0.005411790	Credible Set	purple
chr2:123505557	2	123.5056	0.005391510	Credible Set	purple
chr2:123527223	2	123.5272	0.006990985	Credible Set	purple
chr2:123584403	2	123.5844	0.005907269	Credible Set	purple
chr2:123585516	2	123.5855	0.005911792	Credible Set	purple
chr2:123735848	2	123.7358	0.004751842	Credible Set	purple
chr2:123735871	2	123.7359	0.004766643	Credible Set	purple
chr2:123735958	2	123.7360	0.005416055	Credible Set	purple

F34 GBS, iron content in liver z score



Credible Set



19 genes
omitted

116

118

120

122

124

Position on chr14 (Mb)

date: Thu Oct 25 17:15:59 2018

build: F34GBS

display range: chr14:115621731–125621731 [115621731–125621731]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:120621731

number of SNPs plotted: 206

min P-value: 1.11E–5 [chr14:120621731]

max P-value: 3.98E–1 [chr14:120487423]

omitted Genes: Gpr180, Sox21, LOC105245869

omitted Genes: Mir6241, Gm9376, 1700044C05Rik

omitted Genes: Mir6391, Ugg2, 1700006F04Rik

omitted Genes: 1810041H14Rik, Gpr18, Gpr183

omitted Genes: Timm8a2, A330035P11Rik, 1700108J01Rik

omitted Genes: Gm5089, 2610035F20Rik, Zic2

omitted Genes: AA536875

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120371692	14	120.3717	0.002717539	Credible Set	purple
chr14:120371706	14	120.3717	0.002619874	Credible Set	purple
chr14:120371729	14	120.3717	0.002193366	Credible Set	purple
chr14:120373900	14	120.3739	0.009981640	Credible Set	purple
chr14:120374171	14	120.3742	0.001788578	Credible Set	purple
chr14:120374181	14	120.3742	0.001833904	Credible Set	purple
chr14:120379882	14	120.3799	0.001675364	Credible Set	purple
chr14:120382338	14	120.3823	0.009276992	Credible Set	purple
chr14:120416102	14	120.4161	0.001784302	Credible Set	purple
chr14:120416136	14	120.4161	0.001732416	Credible Set	purple
chr14:120416333	14	120.4163	0.006921214	Credible Set	purple
chr14:120416347	14	120.4163	0.008575546	Credible Set	purple
chr14:120439342	14	120.4393	0.009203875	Credible Set	purple
chr14:120487392	14	120.4874	0.010131800	Credible Set	purple
chr14:120487416	14	120.4874	0.010123622	Credible Set	purple
chr14:120487566	14	120.4876	0.010123622	Credible Set	purple
chr14:120487639	14	120.4876	0.010750502	Credible Set	purple
chr14:120495956	14	120.4960	0.008102774	Credible Set	purple
chr14:120495976	14	120.4960	0.008247406	Credible Set	purple
chr14:120532718	14	120.5327	0.010089466	Credible Set	purple
chr14:120532740	14	120.5327	0.010089466	Credible Set	purple
chr14:120573821	14	120.5738	0.010060872	Credible Set	purple
chr14:120573951	14	120.5740	0.010089466	Credible Set	purple
chr14:120621718	14	120.6217	0.068360725	Credible Set	purple
chr14:120621731	14	120.6217	0.071436539	Credible Set	purple
chr14:120621749	14	120.6217	0.070173723	Credible Set	purple
chr14:120632852	14	120.6329	0.003183660	Credible Set	purple
chr14:120632882	14	120.6329	0.002939877	Credible Set	purple
chr14:120633549	14	120.6335	0.010089466	Credible Set	purple
chr14:120641466	14	120.6415	0.012419721	Credible Set	purple
chr14:120641472	14	120.6415	0.012419721	Credible Set	purple
chr14:120641546	14	120.6415	0.010089466	Credible Set	purple
chr14:120642644	14	120.6426	0.013126447	Credible Set	purple
chr14:120642688	14	120.6427	0.011413870	Credible Set	purple
chr14:120642702	14	120.6427	0.008687413	Credible Set	purple
chr14:120642723	14	120.6427	0.008687413	Credible Set	purple

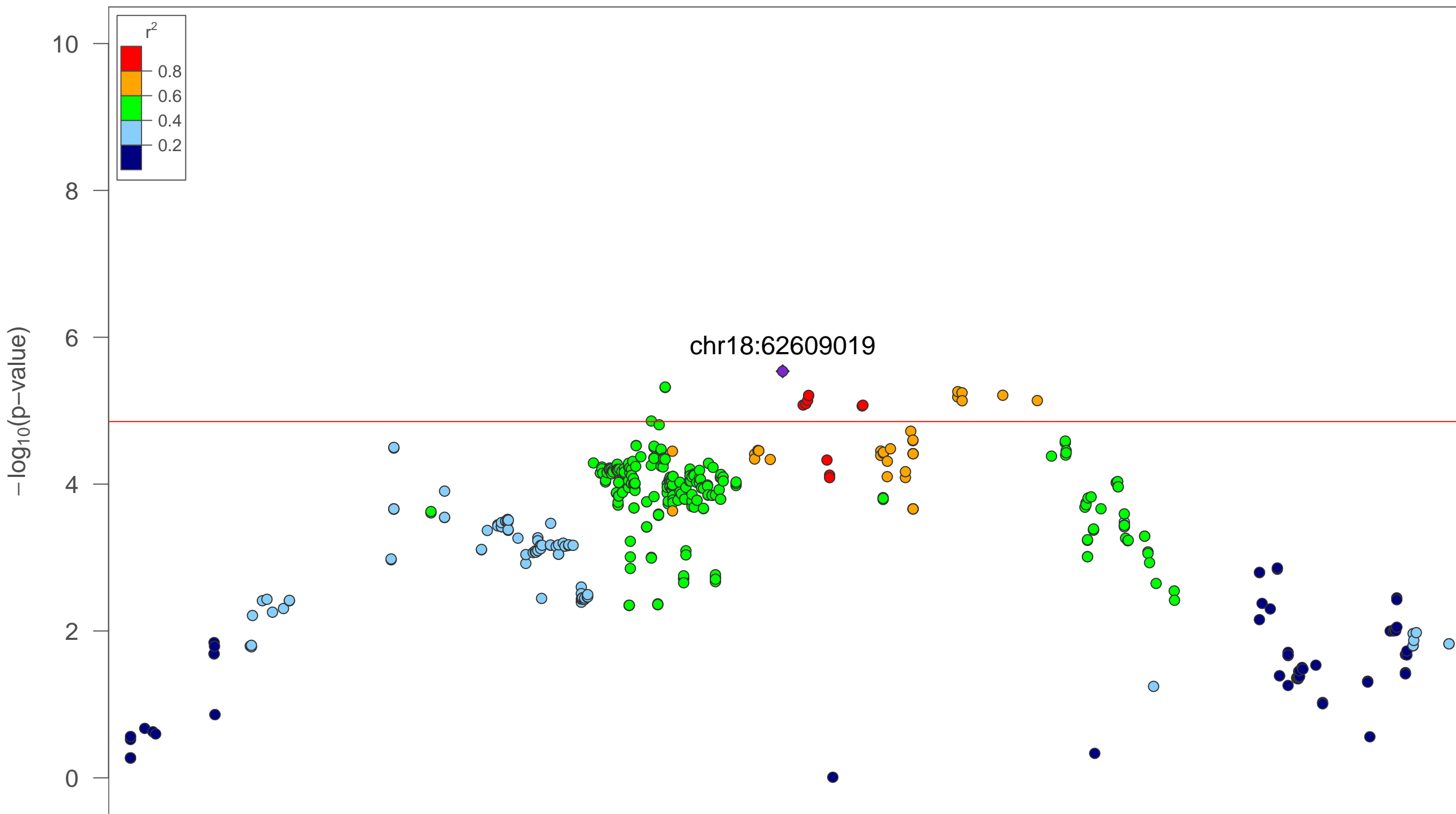
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120665611	14	120.6656	0.010089466	Credible Set	purple
chr14:120670727	14	120.6707	0.007788504	Credible Set	purple
chr14:120671083	14	120.6711	0.010089466	Credible Set	purple
chr14:120671092	14	120.6711	0.010089466	Credible Set	purple
chr14:120671147	14	120.6711	0.010089466	Credible Set	purple
chr14:120671180	14	120.6712	0.011455704	Credible Set	purple
chr14:120671181	14	120.6712	0.011486631	Credible Set	purple
chr14:120686008	14	120.6860	0.007088228	Credible Set	purple
chr14:120686112	14	120.6861	0.011316934	Credible Set	purple
chr14:120686362	14	120.6864	0.010234701	Credible Set	purple
chr14:120686413	14	120.6864	0.010201053	Credible Set	purple
chr14:120688462	14	120.6885	0.003473863	Credible Set	purple
chr14:120688492	14	120.6885	0.003703304	Credible Set	purple
chr14:120699639	14	120.6996	0.006226111	Credible Set	purple
chr14:120699675	14	120.6997	0.008755304	Credible Set	purple
chr14:120702426	14	120.7024	0.007134272	Credible Set	purple
chr14:120728333	14	120.7283	0.010881628	Credible Set	purple
chr14:120728361	14	120.7284	0.009139025	Credible Set	purple
chr14:120730072	14	120.7301	0.010089466	Credible Set	purple
chr14:120731135	14	120.7311	0.035957368	Credible Set	purple
chr14:120731136	14	120.7311	0.038301247	Credible Set	purple
chr14:120767991	14	120.7680	0.010028215	Credible Set	purple
chr14:120768037	14	120.7680	0.007032670	Credible Set	purple
chr14:120768301	14	120.7683	0.028774894	Credible Set	purple
chr14:120768336	14	120.7683	0.030890411	Credible Set	purple
chr14:120768349	14	120.7683	0.024382310	Credible Set	purple
chr14:120768705	14	120.7687	0.009643288	Credible Set	purple
chr14:120768743	14	120.7687	0.008240744	Credible Set	purple
chr14:120768819	14	120.7688	0.008134422	Credible Set	purple
chr14:120774259	14	120.7743	0.008671610	Credible Set	purple
chr14:120774290	14	120.7743	0.008888689	Credible Set	purple
chr14:120774318	14	120.7743	0.008465055	Credible Set	purple
chr14:120842399	14	120.8424	0.007803704	Credible Set	purple
chr14:120868390	14	120.8684	0.006284490	Credible Set	purple
chr14:120868527	14	120.8685	0.006321294	Credible Set	purple
chr14:120868538	14	120.8685	0.006321294	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:120868670	14	120.8687	0.003218845	Credible Set	purple
chr14:120868693	14	120.8687	0.003218845	Credible Set	purple
chr14:120875959	14	120.8760	0.005142616	Credible Set	purple
chr14:120958410	14	120.9584	0.006586249	Credible Set	purple
chr14:120996497	14	120.9965	0.006559802	Credible Set	purple
chr14:120996551	14	120.9966	0.006559802	Credible Set	purple
chr14:120996555	14	120.9966	0.006559802	Credible Set	purple
chr14:120996573	14	120.9966	0.006559802	Credible Set	purple
chr14:121021982	14	121.0220	0.006559802	Credible Set	purple
chr14:121022009	14	121.0220	0.006559802	Credible Set	purple
chr14:121022048	14	121.0220	0.006559802	Credible Set	purple
chr14:121022050	14	121.0220	0.006559802	Credible Set	purple
chr14:121031640	14	121.0316	0.002521834	Credible Set	purple
chr14:121031672	14	121.0317	0.002521834	Credible Set	purple
chr14:121047713	14	121.0477	0.005965178	Credible Set	purple
chr14:121054065	14	121.0541	0.005742071	Credible Set	purple
chr14:121157624	14	121.1576	0.006559802	Credible Set	purple
chr14:121166355	14	121.1664	0.012117052	Credible Set	purple

F34 GBS, iron content in liver z score



Credible Set

1700011I03Rik → Chsy3 → Gm4951 → Arsi → Bvht → Htr4 → Napg → ← Txnl1 ← Fech Mir122 → Grp → ← Mc4r
← 2210409D07Rik Mir6355 → ligp1 → ← Cdx1 Il17b → ← Fbxo38 Wdr7 → ← Nars ← Alpk2 ← Rax ← Gm19784
Slc12a2 → Adamts19 → ← Gm4841 Pdgfrb → ← Ablim3 ← Spink7 ← St8sia3os Nedd4l → Sec11c → Gnal →
← Fbn2 F830016B08Rik → ← Mir378a ← Adrb2 Apcdd1 → St8sia3 → Malt1 → ← Ccbe1 Chmp1b →

56 genes
omitted

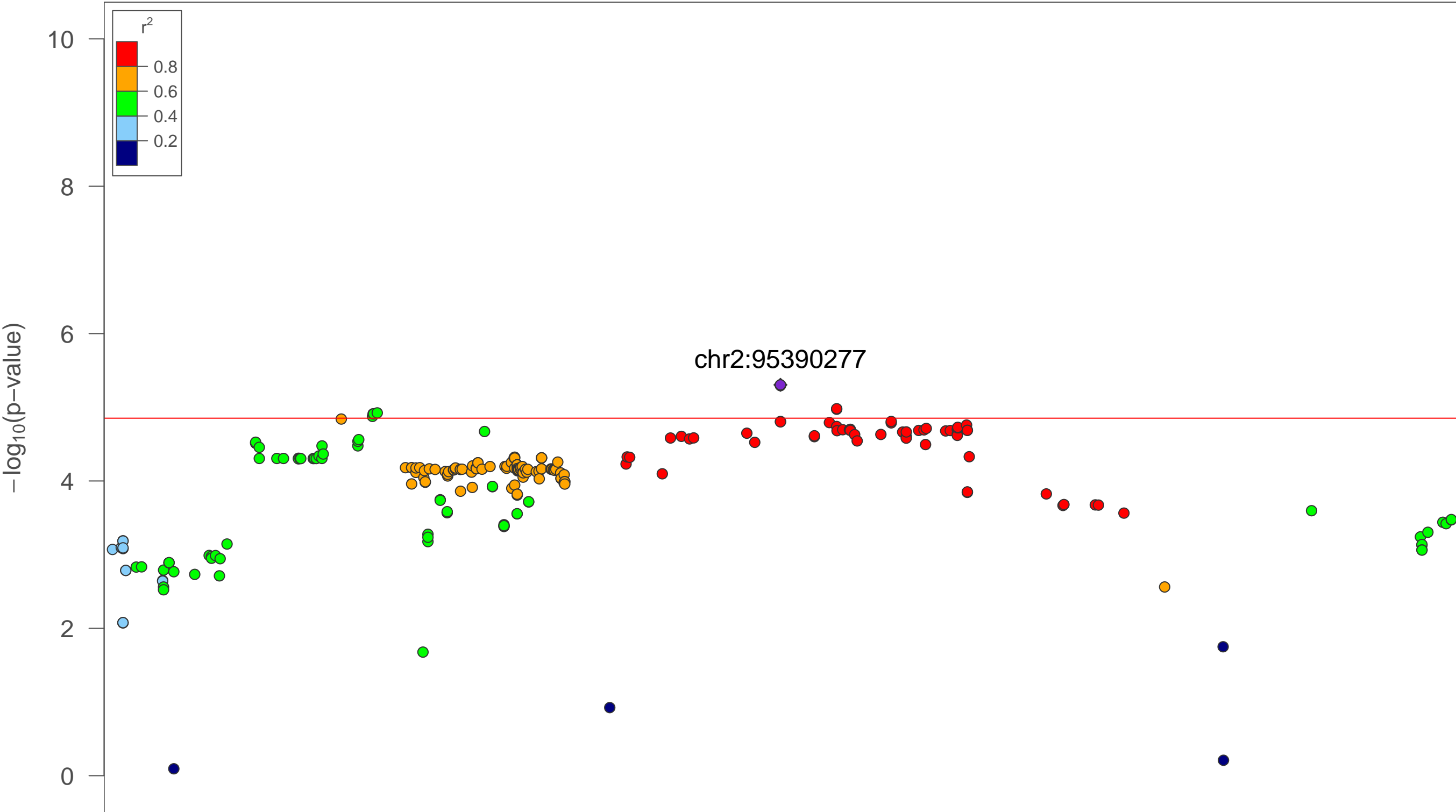
Position on chr18 (Mb)

date: Thu Oct 25 17:16:09 2018
build: F34GBS
display range: chr18:57609019–67609019 [57609019–67609019]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr18:62609019
number of SNPs plotted: 481
min P-value: 2.9E–6 [chr18:62609019]
max P-value: 9.81E–1 [chr18:62980832]
omitted Genes: Slc27a6, Isoc1, A730017C20Rik
omitted Genes: Smim3, Dctn4, Rbm22
omitted Genes: Myoz3, Synpo, G630071F17Rik
omitted Genes: Ndst1, Rps14, Cd74
omitted Genes: Mir5107, Tcof1, Camk2a
omitted Genes: Mir7220, Mir6982, Slc6a7
omitted Genes: Csf1r, Mir6983, Hmgxb3
omitted Genes: Slc26a2, Pde6a, Ppargc1b
omitted Genes: A530050N04Rik, Arhgef37, Csnk1a1
omitted Genes: Carmn, Mir145a, Mir143
omitted Genes: Pcyox1l, Grpel2, 1500015A07Rik
omitted Genes: Afap1l1, Sh3tc2, Spink10
omitted Genes: Spink13, 2700046A07Rik, Piezo2
omitted Genes: Onecut2, Atp8b1, Zfp532
omitted Genes: Oacyl, Cplx4, Lman1
omitted Genes: Mir694, Pmaip1, Gm9926
omitted Genes: Mppe1, Impa2, B430212C06Rik
omitted Genes: Cidea, Tubb6, Afg3l2
omitted Genes: Slmo1, Spire1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr18:62609019	18	62.60902	0.25031263	Credible Set	purple
chr18:62760743	18	62.76074	0.09083502	Credible Set	purple
chr18:62780679	18	62.78068	0.09443162	Credible Set	purple
chr18:62793979	18	62.79398	0.10439724	Credible Set	purple
chr18:62801634	18	62.80163	0.12100760	Credible Set	purple
chr18:62801661	18	62.80166	0.12100760	Credible Set	purple
chr18:62937328	18	62.93733	0.01757442	Credible Set	purple
chr18:62956832	18	62.95683	0.01123247	Credible Set	purple
chr18:62956840	18	62.95684	0.01041890	Credible Set	purple
chr18:63198665	18	63.19866	0.08841425	Credible Set	purple
chr18:63204145	18	63.20414	0.09036824	Credible Set	purple

F34 GBS, iron content in spleen



54 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 17:16:48 2018
build: F34GBS
display range: chr2:90390277–100390277 [90390277–100390277]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr2:95390277
number of SNPs plotted: 248
min P-value: 4.96E–6 [chr2:95390277]
max P-value: 8.05E–1 [chr2:90906135]
omitted Genes: Agbl2, Mtch2, C1qtnf4
omitted Genes: Ndufs3, Kbtbd4, Ptpmt1
omitted Genes: Celf1, Rapsn, Psmc3
omitted Genes: Slc39a13, Spi1, Mybpc3
omitted Genes: Madd, Nr1h3, Acp2
omitted Genes: Ddb2, A330069E16Rik, Pacsin3
omitted Genes: Arfgap2, 1110051M20Rik, F2
omitted Genes: Zfp408, Arhgap1, Atg13
omitted Genes: Harbi1, Ambra1, Mdk
omitted Genes: Dgkz, Mir6999, Creb3l1
omitted Genes: Mir1955, 1700029I15Rik, Mapk8ip1
omitted Genes: Mir7000, Cry2, D930015M05Rik
omitted Genes: Slc35c1, Mir7221, Mir7222
omitted Genes: Syt13, Prdm11, 4631405J19Rik
omitted Genes: Mir7001, Gm10804, Alx4
omitted Genes: Ext2, Accs, Accsl
omitted Genes: Gm13889, Alkbh3os1, Hsd17b12
omitted Genes: Ttc17, 2810002D19Rik, Api5

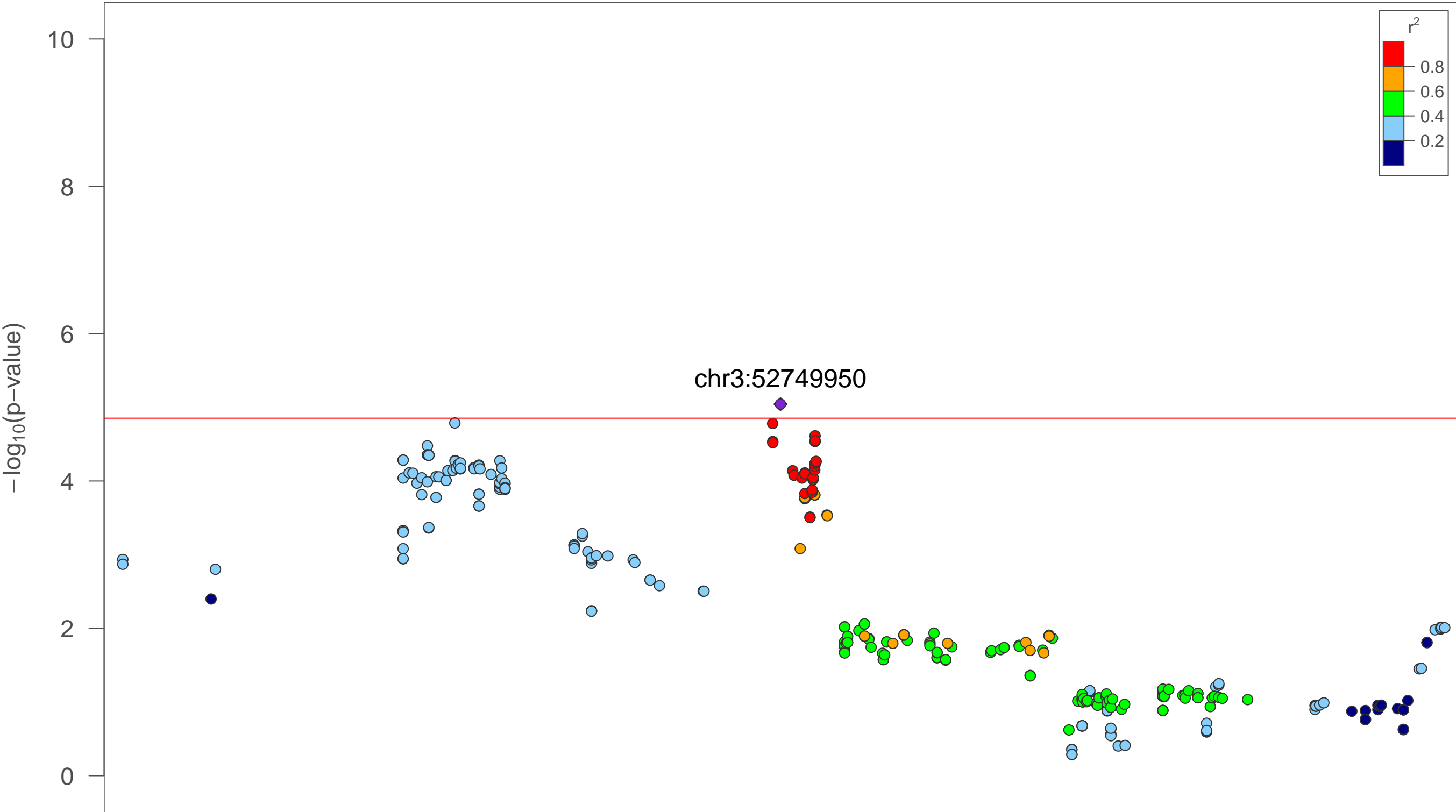
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:94249122	2	94.24912	0.005706935	Credible Set	purple
chr2:94257379	2	94.25738	0.007037982	Credible Set	purple
chr2:94276010	2	94.27601	0.006959189	Credible Set	purple
chr2:94516977	2	94.51698	0.004273585	Credible Set	purple
chr2:94577500	2	94.57750	0.012341045	Credible Set	purple
chr2:94657941	2	94.65794	0.012961878	Credible Set	purple
chr2:94718556	2	94.71856	0.012015751	Credible Set	purple
chr2:94748712	2	94.74871	0.012380196	Credible Set	purple
chr2:95141904	2	95.14190	0.014227263	Credible Set	purple
chr2:95200398	2	95.20040	0.010844635	Credible Set	purple
chr2:95390243	2	95.39024	0.059728141	Credible Set	purple
chr2:95390247	2	95.39025	0.059770866	Credible Set	purple
chr2:95390277	2	95.39028	0.060230096	Credible Set	purple
chr2:95390284	2	95.39028	0.058906829	Credible Set	purple
chr2:95390546	2	95.39055	0.020184125	Credible Set	purple
chr2:95390592	2	95.39059	0.019936029	Credible Set	purple
chr2:95641124	2	95.64112	0.012846967	Credible Set	purple
chr2:95641477	2	95.64148	0.013193742	Credible Set	purple
chr2:95752277	2	95.75228	0.019523766	Credible Set	purple
chr2:95805867	2	95.80587	0.017373588	Credible Set	purple
chr2:95806028	2	95.80603	0.029073764	Credible Set	purple
chr2:95806038	2	95.80604	0.029529119	Credible Set	purple
chr2:95808603	2	95.80860	0.015342283	Credible Set	purple
chr2:95850674	2	95.85067	0.015788549	Credible Set	purple
chr2:95900229	2	95.90023	0.015717564	Credible Set	purple
chr2:95906738	2	95.90674	0.015978506	Credible Set	purple
chr2:95906783	2	95.90678	0.015482285	Credible Set	purple
chr2:95938782	2	95.93878	0.013640948	Credible Set	purple
chr2:95957448	2	95.95745	0.011315624	Credible Set	purple
chr2:96132587	2	96.13259	0.013714611	Credible Set	purple
chr2:96209134	2	96.20913	0.019358695	Credible Set	purple
chr2:96209157	2	96.20916	0.020182630	Credible Set	purple
chr2:96293855	2	96.29385	0.014727956	Credible Set	purple
chr2:96320222	2	96.32022	0.012895956	Credible Set	purple
chr2:96320237	2	96.32024	0.012286318	Credible Set	purple
chr2:96320641	2	96.32064	0.014788430	Credible Set	purple

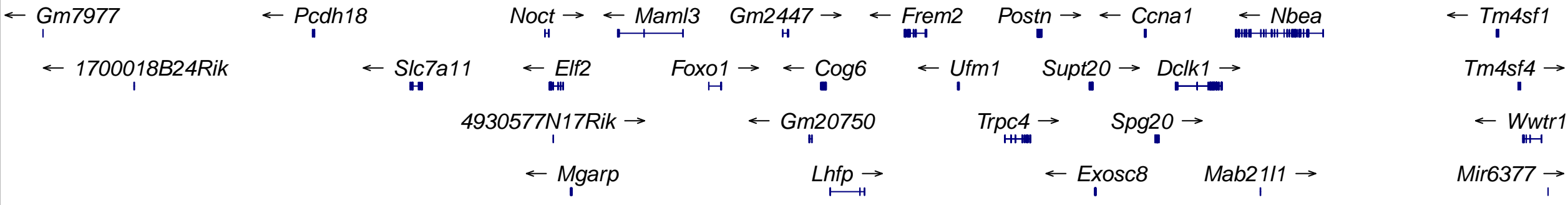
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:96412425	2	96.41242	0.015456362	Credible Set	purple
chr2:96451438	2	96.45144	0.015717564	Credible Set	purple
chr2:96462914	2	96.46291	0.010161779	Credible Set	purple
chr2:96468064	2	96.46806	0.016410181	Credible Set	purple
chr2:96611762	2	96.61176	0.015225620	Credible Set	purple
chr2:96645727	2	96.64573	0.015411943	Credible Set	purple
chr2:96697256	2	96.69726	0.015923691	Credible Set	purple
chr2:96697871	2	96.69787	0.013982276	Credible Set	purple
chr2:96697872	2	96.69787	0.013340510	Credible Set	purple
chr2:96701045	2	96.70104	0.016735851	Credible Set	purple
chr2:96701070	2	96.70107	0.016735851	Credible Set	purple
chr2:96701077	2	96.70108	0.016735851	Credible Set	purple
chr2:96701079	2	96.70108	0.016735851	Credible Set	purple
chr2:96701166	2	96.70117	0.016956979	Credible Set	purple
chr2:96766199	2	96.76620	0.018132457	Credible Set	purple
chr2:96771761	2	96.77176	0.015495858	Credible Set	purple
chr2:96771791	2	96.77179	0.015502934	Credible Set	purple
chr2:96771900	2	96.77190	0.002487796	Credible Set	purple
chr2:96771931	2	96.77193	0.002470562	Credible Set	purple
chr2:96771968	2	96.77197	0.002505934	Credible Set	purple
chr2:96786046	2	96.78605	0.007082194	Credible Set	purple
chr2:97355566	2	97.35557	0.002361193	Credible Set	purple

F34 GBS, iron content in spleen



Credible Set



20 genes
omitted

date: Thu Oct 25 17:16:57 2018

build: F34GBS

display range: chr3:47749950–57749950 [47749950–57749950]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:52749950

number of SNPs plotted: 317

min P-value: 9.06E–6 [chr3:52749950]

max P-value: 5.15E–1 [chr3:54904358]

omitted Genes: Ndufc1, Naa15, Rab33b

omitted Genes: Setd7, 5031434O11Rik, Mgst2

omitted Genes: Nhlrc3, Proser1, Stoml3

omitted Genes: Alg5, Smad9, Rfxap

omitted Genes: Sertm1, 4931419H13Rik, Ccdc169

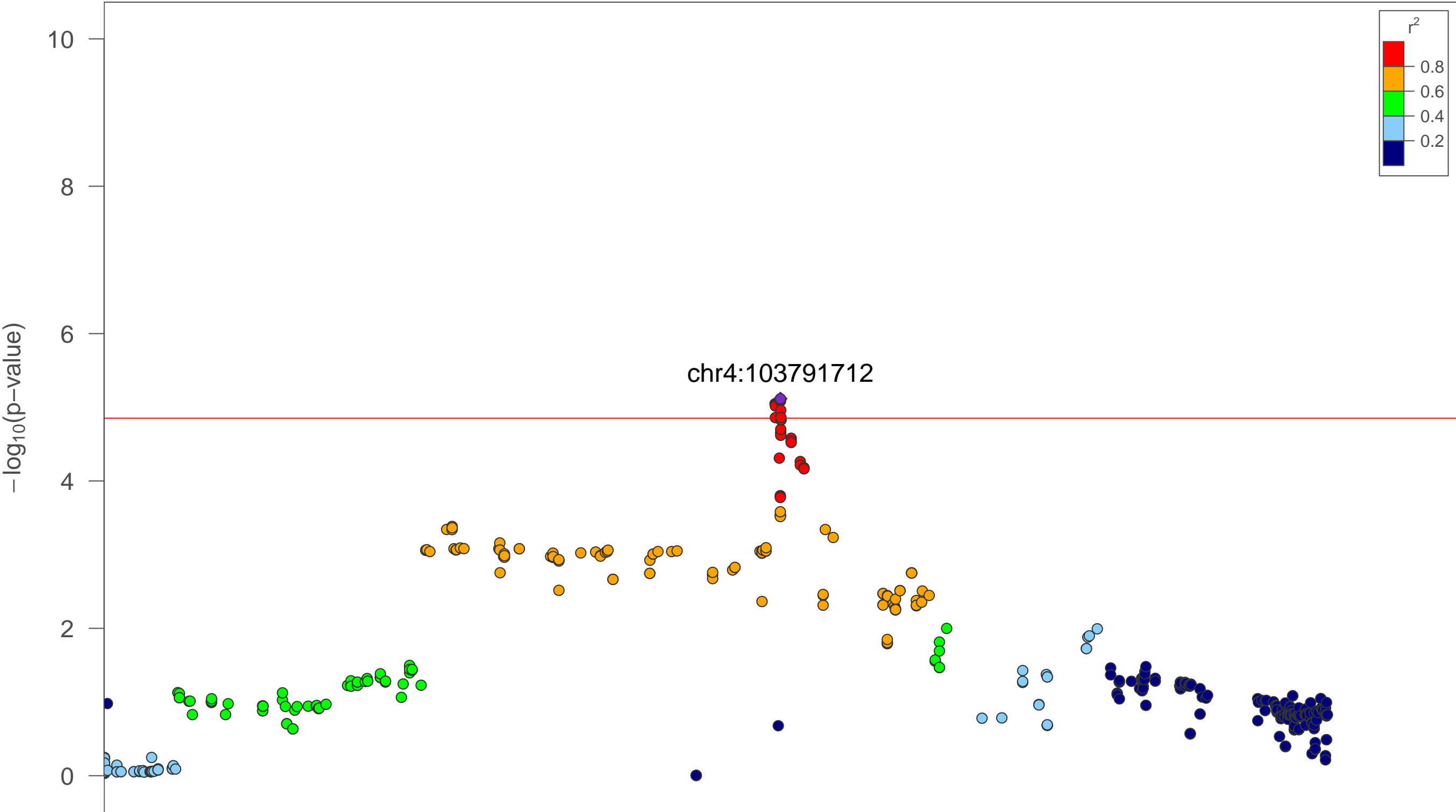
omitted Genes: Sohlh2, 4933417G07Rik, Commd2

omitted Genes: Ankub1, Rnf13

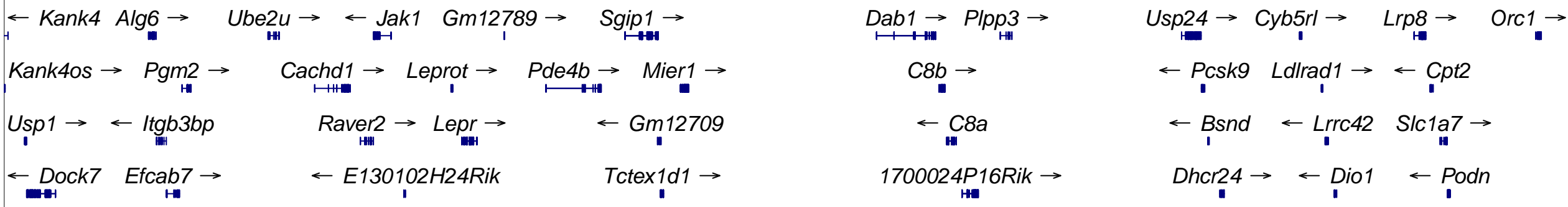
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:52692409	3	52.69241	0.091070052	Credible Set	purple
chr3:52693102	3	52.69310	0.053261125	Credible Set	purple
chr3:52693118	3	52.69312	0.051424485	Credible Set	purple
chr3:52749950	3	52.74995	0.162176484	Credible Set	purple
chr3:52840387	3	52.84039	0.022454062	Credible Set	purple
chr3:52850138	3	52.85014	0.019591585	Credible Set	purple
chr3:52909024	3	52.90902	0.018062705	Credible Set	purple
chr3:52930454	3	52.93045	0.011449708	Credible Set	purple
chr3:52930496	3	52.93050	0.021017474	Credible Set	purple
chr3:52930984	3	52.93098	0.020415498	Credible Set	purple
chr3:52968213	3	52.96821	0.005732275	Credible Set	purple
chr3:52984307	3	52.98431	0.012393474	Credible Set	purple
chr3:52984901	3	52.98490	0.011875211	Credible Set	purple
chr3:52984912	3	52.98491	0.012712593	Credible Set	purple
chr3:52990872	3	52.99087	0.017261375	Credible Set	purple
chr3:52991306	3	52.99131	0.018288001	Credible Set	purple
chr3:53003556	3	53.00356	0.022880283	Credible Set	purple
chr3:53003614	3	53.00361	0.025714821	Credible Set	purple
chr3:53005849	3	53.00585	0.053327565	Credible Set	purple
chr3:53005874	3	53.00587	0.053759283	Credible Set	purple
chr3:53005885	3	53.00588	0.063184534	Credible Set	purple
chr3:53005909	3	53.00591	0.054663344	Credible Set	purple
chr3:53007126	3	53.00713	0.028248747	Credible Set	purple
chr3:53007129	3	53.00713	0.028100592	Credible Set	purple
chr3:53007177	3	53.00718	0.028100592	Credible Set	purple
chr3:53007214	3	53.00721	0.028152758	Credible Set	purple
chr3:53013134	3	53.01313	0.029551286	Credible Set	purple
chr3:53013153	3	53.01315	0.029486145	Credible Set	purple

F34 GBS, iron content in spleen



Credible Set



51 genes
omitted

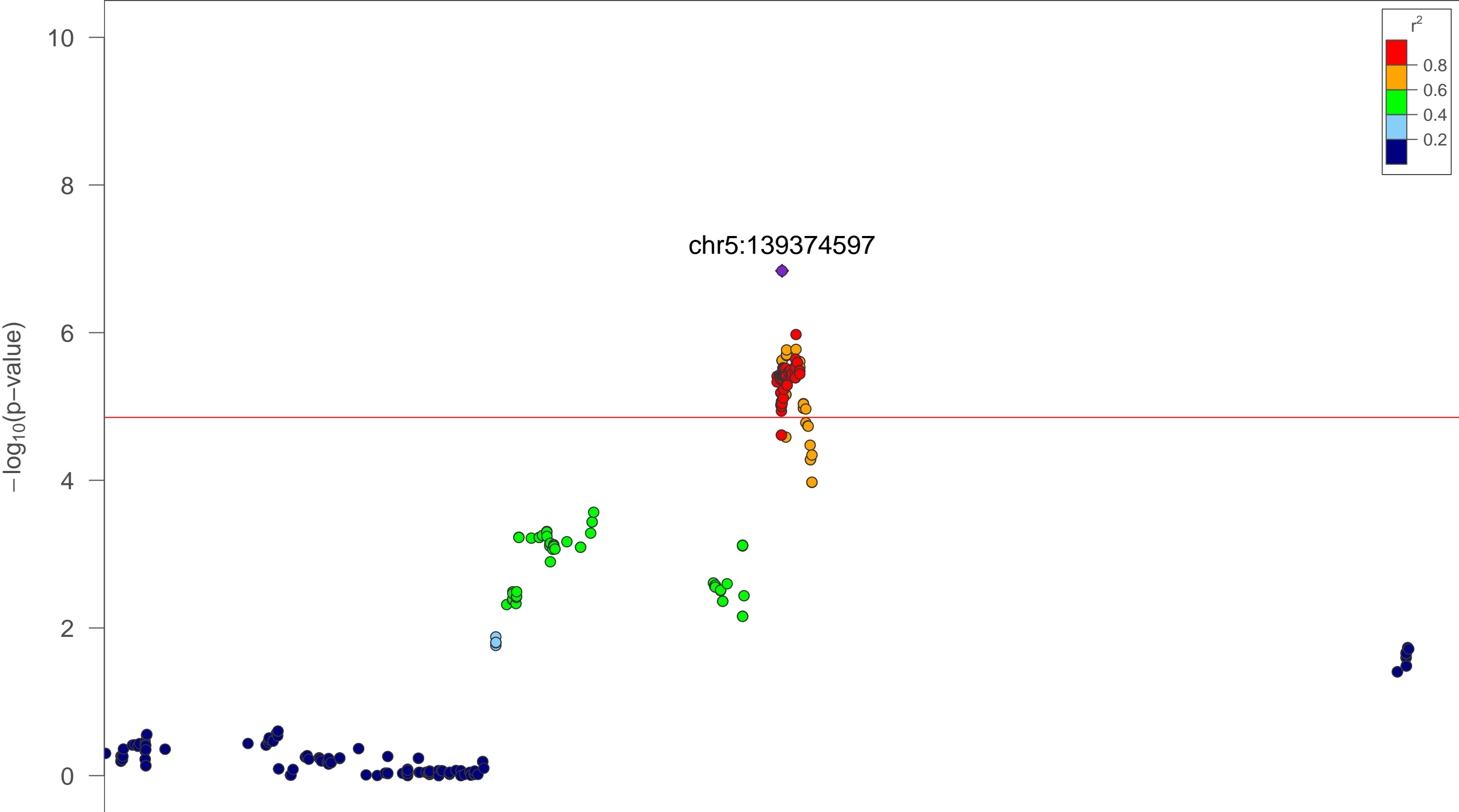
Position on chr4 (Mb)

date: Thu Oct 25 17:17:06 2018
build: F34GBS
display range: chr4:98791712–108791712 [98791712–108791712]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:103791712
number of SNPs plotted: 490
min P-value: 7.66E–6 [chr4:103791712]
max P-value: 9.9E–1 [chr4:103168898]
omitted Genes: Angptl3, Atg4c, Foxd3
omitted Genes: Ror1, Mir101a, 0610043K17Rik
omitted Genes: Ak4, Dnajc6, B020004J07Rik
omitted Genes: Gm12794, BB031773, Insl5
omitted Genes: Wdr78, Slc35d1, 4921539E11Rik
omitted Genes: 4930456L15Rik, Oma1, Gm12718
omitted Genes: Prkaa2, Lexm, Ttc22
omitted Genes: Pars2, Ttc4, Mroh7
omitted Genes: Fam151a, Acot11, Ssbp3
omitted Genes: Mrpl37, Cdcp2, Tceanc2
omitted Genes: Tmem59, Hspb11, Yipf1
omitted Genes: Ndc1, Glis1, Dmrtb1
omitted Genes: Magoh, 0610037L13Rik, 4930407G08Rik
omitted Genes: Scp2, Mir6397, Echdc2
omitted Genes: Zyg11a, Zyg11b, Coa7
omitted Genes: Fam159a, Gpx7, Zcchc11
omitted Genes: Prpf38a, Cc2d1b, Zfyve9

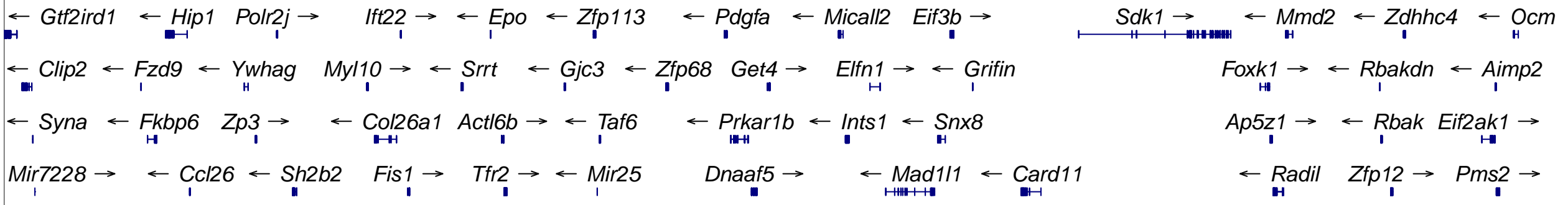
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:103751840	4	103.7518	0.060248995	Credible Set	purple
chr4:103753885	4	103.7539	0.059873440	Credible Set	purple
chr4:103754141	4	103.7541	0.058482338	Credible Set	purple
chr4:103754184	4	103.7542	0.056405548	Credible Set	purple
chr4:103754202	4	103.7542	0.039877523	Credible Set	purple
chr4:103783541	4	103.7835	0.011960620	Credible Set	purple
chr4:103790658	4	103.7907	0.003950926	Credible Set	purple
chr4:103791594	4	103.7916	0.039534427	Credible Set	purple
chr4:103791682	4	103.7917	0.065301368	Credible Set	purple
chr4:103791711	4	103.7917	0.067833988	Credible Set	purple
chr4:103791712	4	103.7917	0.069999100	Credible Set	purple
chr4:103791722	4	103.7917	0.068503483	Credible Set	purple
chr4:103793565	4	103.7936	0.025606589	Credible Set	purple
chr4:103793571	4	103.7936	0.025606589	Credible Set	purple
chr4:103793605	4	103.7936	0.024249422	Credible Set	purple
chr4:103793645	4	103.7936	0.023516073	Credible Set	purple
chr4:103793861	4	103.7939	0.028138877	Credible Set	purple
chr4:103793969	4	103.7940	0.049739800	Credible Set	purple
chr4:103795720	4	103.7957	0.037046784	Credible Set	purple
chr4:103795724	4	103.7957	0.037566074	Credible Set	purple
chr4:103795744	4	103.7957	0.039998714	Credible Set	purple
chr4:103871016	4	103.8710	0.021578348	Credible Set	purple
chr4:103871045	4	103.8710	0.020066791	Credible Set	purple
chr4:103871082	4	103.8711	0.019014715	Credible Set	purple
chr4:103938428	4	103.9384	0.010822195	Credible Set	purple
chr4:103938894	4	103.9389	0.009735167	Credible Set	purple
chr4:103966010	4	103.9660	0.009009925	Credible Set	purple
chr4:103966020	4	103.9660	0.008705388	Credible Set	purple

F34 GBS, iron content in spleen



Credible Set



167 genes
omitted

Position on chr5 (Mb)

date: Thu Oct 25 17:17:18 2018

build: F34GBS

display range: chr5:134374597–144374597 [134374597–144374597]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:139374597

number of SNPs plotted: 310

min P-value: 1.45E–7 [chr5:139374597]

max P-value: 10E–1 [chr5:136841971]

omitted Genes: Rfc2, Lat2, Eif4h

omitted Genes: Limk1, Eln, Wbscr28

omitted Genes: Cldn13, Wbscr27, Cldn4

omitted Genes: Cldn3, Wbscr25, Abhd11

omitted Genes: Abhd11os, Stx1a, Wbscr22

omitted Genes: Dnajc30, Vps37d, Mlxipl

omitted Genes: Tbl2, Bcl7b, Baz1b

omitted Genes: Trim50, Nsun5, Pom121

omitted Genes: Mir7033, Ccl24, Rhbdd2

omitted Genes: Por, Tmem120a, Mir7034

omitted Genes: Styxl1, Mdh2, Srrm3

omitted Genes: Hspb1, Ssc4d, Dtx2

omitted Genes: Upk3b, Upk3bl, Rasa4

omitted Genes: Mir7035, Lrwd1, Alkbh4

omitted Genes: Orai2, Prkrip1, Cux1

omitted Genes: Mir721, 4933404O12Rik, Cldn15

omitted Genes: Znhit1, Plod3, Mir702

omitted Genes: Vgf, Ap1s1, Serpine1

omitted Genes: Trim56, Ache, Mir8116

omitted Genes: Ufsp1, Mir7036, Trip6

omitted Genes: Slc12a9, Ephb4, Zan

omitted Genes: Pop7, Gigyf1, Gnb2

omitted Genes: Mir6418, Mospd3, Pcolce

omitted Genes: Fbxo24, Lrch4, Gm20605

omitted Genes: Sap25, Irs3, Agfg2

omitted Genes: Nyap1, Tsc22d4, Ppp1r35

omitted Genes: Mepce, Zcwpw1, Pilra

omitted Genes: Pilrb1, Pilrb2, Cyp3a13

omitted Genes: Azgp1, Smok3a, Smok3b

omitted Genes: Smok3c, Zkscan1, Zscan21

omitted Genes: Cops6, Mcm7, Mir93
Make more plots at <http://csg.sph.umich.edu/locuszoom/>

omitted Genes: Mir106b, Ap4m1, Cnpy4

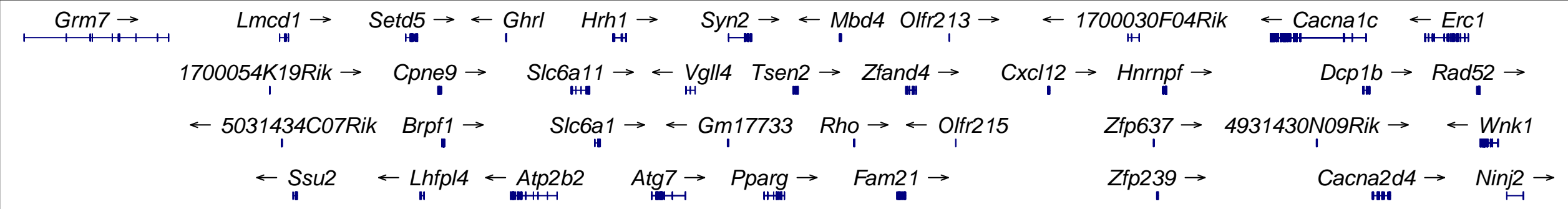
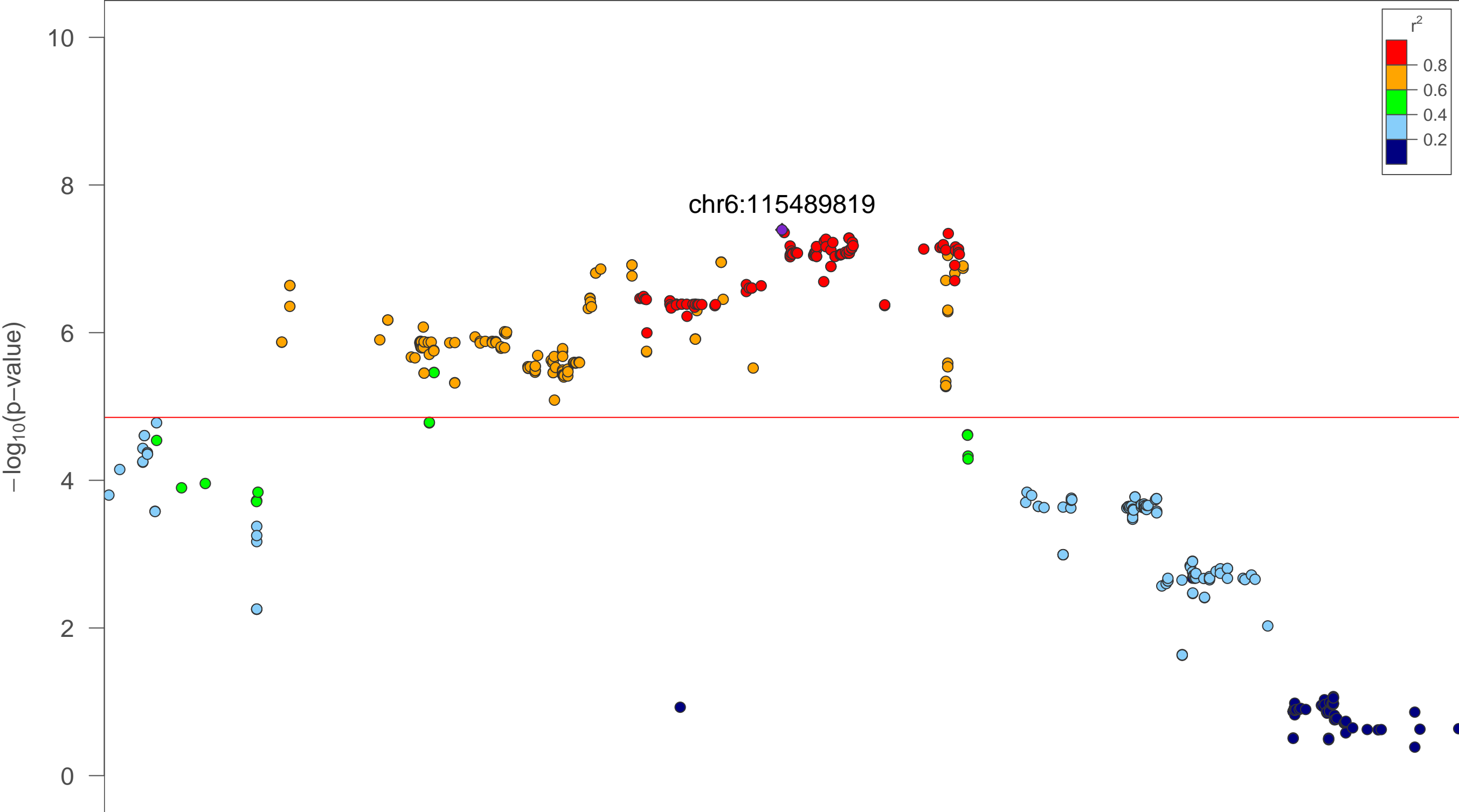
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139337717	5	139.3377	0.010560657	Credible Set	purple
chr5:139338124	5	139.3381	0.008919521	Credible Set	purple
chr5:139356059	5	139.3561	0.010727733	Credible Set	purple
chr5:139357023	5	139.3570	0.010724215	Credible Set	purple
chr5:139357028	5	139.3570	0.010724215	Credible Set	purple
chr5:139359983	5	139.3600	0.010197570	Credible Set	purple
chr5:139360537	5	139.3605	0.010396517	Credible Set	purple
chr5:139365262	5	139.3653	0.009568568	Credible Set	purple
chr5:139365292	5	139.3653	0.011368721	Credible Set	purple
chr5:139365343	5	139.3653	0.009718053	Credible Set	purple
chr5:139365434	5	139.3654	0.006460345	Credible Set	purple
chr5:139365448	5	139.3654	0.006468110	Credible Set	purple
chr5:139365601	5	139.3656	0.009732867	Credible Set	purple
chr5:139365659	5	139.3657	0.010562277	Credible Set	purple
chr5:139365700	5	139.3657	0.004471959	Credible Set	purple
chr5:139370400	5	139.3704	0.004984709	Credible Set	purple
chr5:139370538	5	139.3705	0.004315281	Credible Set	purple
chr5:139370586	5	139.3706	0.004772895	Credible Set	purple
chr5:139370648	5	139.3706	0.004692687	Credible Set	purple
chr5:139374544	5	139.3745	0.004711422	Credible Set	purple
chr5:139374549	5	139.3745	0.004679596	Credible Set	purple
chr5:139374597	5	139.3746	0.250932238	Credible Set	purple
chr5:139374918	5	139.3749	0.010693262	Credible Set	purple
chr5:139382014	5	139.3820	0.009692099	Credible Set	purple
chr5:139382197	5	139.3822	0.013432980	Credible Set	purple
chr5:139382215	5	139.3822	0.013432980	Credible Set	purple
chr5:139382343	5	139.3823	0.013583832	Credible Set	purple
chr5:139382347	5	139.3823	0.013583832	Credible Set	purple
chr5:139382775	5	139.3828	0.010735423	Credible Set	purple
chr5:139382789	5	139.3828	0.010735423	Credible Set	purple
chr5:139384477	5	139.3845	0.005512212	Credible Set	purple
chr5:139387948	5	139.3879	0.007107830	Credible Set	purple
chr5:139388094	5	139.3881	0.011374631	Credible Set	purple
chr5:139388781	5	139.3888	0.010788820	Credible Set	purple
chr5:139389536	5	139.3895	0.013290725	Credible Set	purple
chr5:139389540	5	139.3895	0.013290725	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139389572	5	139.3896	0.013290725	Credible Set	purple
chr5:139389578	5	139.3896	0.013290725	Credible Set	purple
chr5:139391234	5	139.3912	0.010693262	Credible Set	purple
chr5:139391358	5	139.3914	0.010693262	Credible Set	purple
chr5:139395030	5	139.3950	0.010717465	Credible Set	purple
chr5:139402752	5	139.4028	0.013387738	Credible Set	purple
chr5:139403170	5	139.4032	0.010694234	Credible Set	purple
chr5:139404712	5	139.4047	0.010693262	Credible Set	purple
chr5:139404757	5	139.4048	0.010693262	Credible Set	purple
chr5:139404767	5	139.4048	0.010693262	Credible Set	purple
chr5:139411750	5	139.4118	0.009044341	Credible Set	purple
chr5:139411803	5	139.4118	0.008416576	Credible Set	purple
chr5:139411845	5	139.4118	0.008416576	Credible Set	purple
chr5:139411920	5	139.4119	0.008458430	Credible Set	purple
chr5:139412108	5	139.4121	0.008087735	Credible Set	purple
chr5:139412109	5	139.4121	0.008087735	Credible Set	purple
chr5:139422570	5	139.4226	0.012139100	Credible Set	purple
chr5:139426676	5	139.4267	0.011789144	Credible Set	purple
chr5:139437340	5	139.4373	0.012597787	Credible Set	purple
chr5:139445073	5	139.4451	0.011395209	Credible Set	purple
chr5:139445415	5	139.4454	0.010683502	Credible Set	purple
chr5:139449959	5	139.4500	0.011440936	Credible Set	purple
chr5:139472776	5	139.4728	0.011360873	Credible Set	purple
chr5:139472992	5	139.4730	0.010093789	Credible Set	purple
chr5:139472993	5	139.4730	0.010117467	Credible Set	purple
chr5:139474788	5	139.4748	0.014378625	Credible Set	purple
chr5:139474790	5	139.4748	0.013770989	Credible Set	purple
chr5:139474824	5	139.4748	0.013724204	Credible Set	purple
chr5:139474889	5	139.4749	0.017667987	Credible Set	purple
chr5:139477643	5	139.4776	0.036929212	Credible Set	purple
chr5:139488214	5	139.4882	0.015959674	Credible Set	purple
chr5:139504674	5	139.5047	0.012514153	Credible Set	purple
chr5:139505164	5	139.5052	0.012395512	Credible Set	purple
chr5:139505384	5	139.5054	0.011326291	Credible Set	purple

F34 GBS, iron content in spleen



76 genes
omitted

date: Thu Oct 25 17:17:29 2018
build: F34GBS
display range: chr6:110489819–120489819 [110489819–120489819]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:115489819
number of SNPs plotted: 413
min P-value: 4.05E–8 [chr6:115489819]
max P-value: 4.11E–1 [chr6:120157431]
omitted Genes: Cav3, Oxtr, Rad18
omitted Genes: Srgap3, Thumpd3, Gt(ROSA)26Sor
omitted Genes: Mtmr14, Ogg1, Camk1
omitted Genes: Tada3, Arpc4, Tll3
omitted Genes: Rpusd3, Cidec, Jagn1
omitted Genes: Il17re, Il17rc, Creld1
omitted Genes: Prrt3, Emc3, Fancd2
omitted Genes: Fancd2os, Brk1, Vhl
omitted Genes: Irak2, Tatdn2, Mir7042
omitted Genes: Sec13, Tamm41, Timp4
omitted Genes: Mkrn2os, Mkrn2, Raf1
omitted Genes: Tmem40, Cand2, Mir7660
omitted Genes: Rpl32, Snora7a, Efcab12
omitted Genes: Ift122, H1foo, Plxnd1
omitted Genes: Tmcc1, 9530062K07Rik, March8
omitted Genes: Alox5, Olfr211, Olfr212
omitted Genes: Olfr214, Zfp422, Rassf4
omitted Genes: Mir7043, 8430408G22Rik, Tmem72
omitted Genes: Fxyd4, Rasgef1a, Mir7044
omitted Genes: Csgalnact2, Ret, 1700069P05Rik
omitted Genes: Gm30498, Bms1, Zfp248
omitted Genes: Zfp9, Ankrd26, Lrtm2
omitted Genes: Adipor2, Wnt5b, Fbxl14
omitted Genes: 3110021A11Rik, Mir706, B4galnt3
omitted Genes: Ccdc77, Kdm5a, Il17ra
omitted Genes: Cecr6

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:114441337	6	114.4413	0.003131998	Credible Set	purple
chr6:114455822	6	114.4558	0.003142268	Credible Set	purple
chr6:114468631	6	114.4686	0.003325717	Credible Set	purple
chr6:114478350	6	114.4784	0.003062969	Credible Set	purple
chr6:114488365	6	114.4884	0.003031376	Credible Set	purple
chr6:114662685	6	114.6627	0.002909267	Credible Set	purple
chr6:114662687	6	114.6627	0.002678002	Credible Set	purple
chr6:114662831	6	114.6628	0.002911317	Credible Set	purple
chr6:114663572	6	114.6636	0.002590470	Credible Set	purple
chr6:114672224	6	114.6722	0.002466579	Credible Set	purple
chr6:114710879	6	114.7109	0.002571449	Credible Set	purple
chr6:114748520	6	114.7485	0.002634972	Credible Set	purple
chr6:114750218	6	114.7502	0.002634972	Credible Set	purple
chr6:114786887	6	114.7869	0.002628276	Credible Set	purple
chr6:114832604	6	114.8326	0.002620164	Credible Set	purple
chr6:114850118	6	114.8501	0.002634972	Credible Set	purple
chr6:114865580	6	114.8656	0.002607757	Credible Set	purple
chr6:114875411	6	114.8754	0.002607757	Credible Set	purple
chr6:114897837	6	114.8978	0.002607757	Credible Set	purple
chr6:114994269	6	114.9943	0.002517055	Credible Set	purple
chr6:114998565	6	114.9986	0.002604341	Credible Set	purple
chr6:115226366	6	115.2264	0.003853860	Credible Set	purple
chr6:115226669	6	115.2267	0.004757316	Credible Set	purple
chr6:115247801	6	115.2478	0.004285612	Credible Set	purple
chr6:115266235	6	115.2662	0.004280605	Credible Set	purple
chr6:115266236	6	115.2662	0.004280605	Credible Set	purple
chr6:115335743	6	115.3357	0.004584876	Credible Set	purple
chr6:115489819	6	115.4898	0.024827641	Credible Set	purple
chr6:115505788	6	115.5058	0.022858162	Credible Set	purple
chr6:115549490	6	115.5495	0.015233174	Credible Set	purple
chr6:115549730	6	115.5497	0.010993232	Credible Set	purple
chr6:115549829	6	115.5498	0.011657837	Credible Set	purple
chr6:115555634	6	115.5556	0.012298781	Credible Set	purple
chr6:115559836	6	115.5598	0.013108472	Credible Set	purple
chr6:115567453	6	115.5675	0.012346112	Credible Set	purple
chr6:115569261	6	115.5693	0.011983096	Credible Set	purple

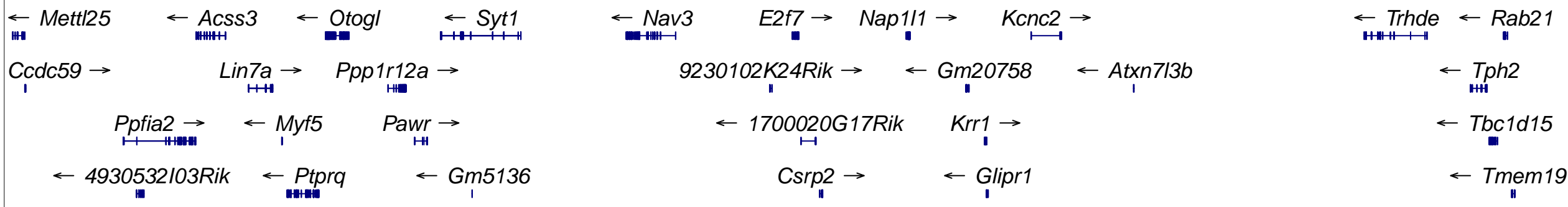
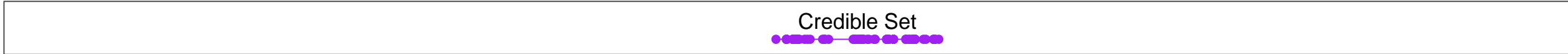
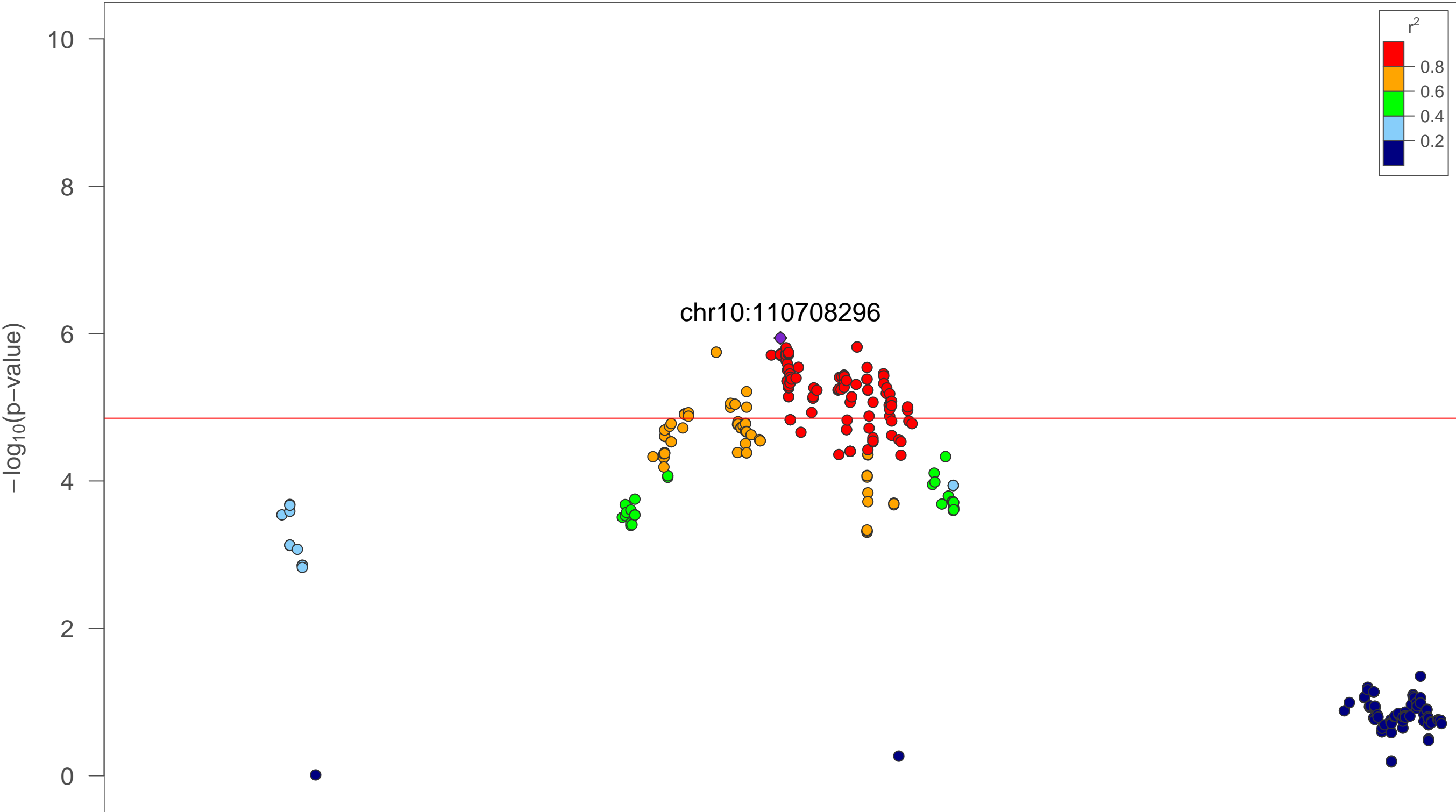
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115593481	6	115.5935	0.012497097	Credible Set	purple
chr6:115603445	6	115.6034	0.012270603	Credible Set	purple
chr6:115723557	6	115.7236	0.011626473	Credible Set	purple
chr6:115723602	6	115.7236	0.011370495	Credible Set	purple
chr6:115729470	6	115.7295	0.011895550	Credible Set	purple
chr6:115729519	6	115.7295	0.012059737	Credible Set	purple
chr6:115730587	6	115.7306	0.012469945	Credible Set	purple
chr6:115736586	6	115.7366	0.012746512	Credible Set	purple
chr6:115743744	6	115.7437	0.013425921	Credible Set	purple
chr6:115744308	6	115.7443	0.011092578	Credible Set	purple
chr6:115744336	6	115.7443	0.011125369	Credible Set	purple
chr6:115744487	6	115.7445	0.014961390	Credible Set	purple
chr6:115744493	6	115.7445	0.014961390	Credible Set	purple
chr6:115797352	6	115.7974	0.005191679	Credible Set	purple
chr6:115801564	6	115.8016	0.017575283	Credible Set	purple
chr6:115813387	6	115.8134	0.018687205	Credible Set	purple
chr6:115813904	6	115.8139	0.014919512	Credible Set	purple
chr6:115850524	6	115.8505	0.008200616	Credible Set	purple
chr6:115850541	6	115.8505	0.008200616	Credible Set	purple
chr6:115850586	6	115.8506	0.013474106	Credible Set	purple
chr6:115864297	6	115.8643	0.016939179	Credible Set	purple
chr6:115880648	6	115.8806	0.011075584	Credible Set	purple
chr6:115919848	6	115.9198	0.011599903	Credible Set	purple
chr6:115920287	6	115.9203	0.011878528	Credible Set	purple
chr6:115928586	6	115.9286	0.011849687	Credible Set	purple
chr6:115929540	6	115.9295	0.011907240	Credible Set	purple
chr6:115957904	6	115.9579	0.012676989	Credible Set	purple
chr6:115967362	6	115.9674	0.012196402	Credible Set	purple
chr6:115967880	6	115.9679	0.012247326	Credible Set	purple
chr6:115983898	6	115.9839	0.019331309	Credible Set	purple
chr6:115983910	6	115.9839	0.019279810	Credible Set	purple
chr6:115983923	6	115.9839	0.019326769	Credible Set	purple
chr6:115983929	6	115.9839	0.019268930	Credible Set	purple
chr6:115985523	6	115.9855	0.012243389	Credible Set	purple
chr6:115985527	6	115.9855	0.012243389	Credible Set	purple
chr6:115985543	6	115.9855	0.012243389	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115985717	6	115.9857	0.013400852	Credible Set	purple
chr6:116003809	6	116.0038	0.014130965	Credible Set	purple
chr6:116004432	6	116.0044	0.014339466	Credible Set	purple
chr6:116009041	6	116.0090	0.017016046	Credible Set	purple
chr6:116009081	6	116.0091	0.016958752	Credible Set	purple
chr6:116014484	6	116.0145	0.015354426	Credible Set	purple
chr6:116246960	6	116.2470	0.002524237	Credible Set	purple
chr6:116246991	6	116.2470	0.002584386	Credible Set	purple
chr6:116535049	6	116.5350	0.013881652	Credible Set	purple
chr6:116655672	6	116.6557	0.014593999	Credible Set	purple
chr6:116655715	6	116.6557	0.014593999	Credible Set	purple
chr6:116675286	6	116.6753	0.014579158	Credible Set	purple
chr6:116679618	6	116.6796	0.015884492	Credible Set	purple
chr6:116698225	6	116.6982	0.013505759	Credible Set	purple
chr6:116716073	6	116.7161	0.022190232	Credible Set	purple
chr6:116763618	6	116.7636	0.008509094	Credible Set	purple
chr6:116763629	6	116.7636	0.005349393	Credible Set	purple
chr6:116769198	6	116.7692	0.014822402	Credible Set	purple
chr6:116769221	6	116.7692	0.013191775	Credible Set	purple
chr6:116791717	6	116.7917	0.013875766	Credible Set	purple
chr6:116791844	6	116.7918	0.012414677	Credible Set	purple
chr6:116791847	6	116.7918	0.012414677	Credible Set	purple
chr6:116797564	6	116.7976	0.011861166	Credible Set	purple

F34 GBS, iron content in spleen



16 genes
omitted

date: Thu Oct 25 17:16:38 2018

build: F34GBS

display range: chr10:105708296–115708296 [105708296–115708296]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:110708296

number of SNPs plotted: 326

min P-value: 1.15E–6 [chr10:110708296]

max P-value: 9.74E–1 [chr10:107272725]

omitted Genes: Myf6, Gm29685, Zdhhc17

omitted Genes: Osbpl8, Bbs10, Gm5176

omitted Genes: Phlda1, 4933440J02Rik, Glipr1l1

omitted Genes: Glipr1l2, Caps2, 1700010J16Rik

omitted Genes: Thap2, Zfc3h1, Lgr5

omitted Genes: A930009A15Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110641142	10	110.6411	0.021106003	Credible Set	purple
chr10:110708014	10	110.7080	0.021106003	Credible Set	purple
chr10:110708268	10	110.7083	0.021106003	Credible Set	purple
chr10:110708269	10	110.7083	0.021106003	Credible Set	purple
chr10:110708296	10	110.7083	0.041103762	Credible Set	purple
chr10:110708628	10	110.7086	0.021106003	Credible Set	purple
chr10:110749349	10	110.7493	0.021106003	Credible Set	purple
chr10:110749883	10	110.7499	0.021106003	Credible Set	purple
chr10:110749995	10	110.7500	0.021106003	Credible Set	purple
chr10:110750029	10	110.7500	0.021106003	Credible Set	purple
chr10:110750810	10	110.7508	0.021106003	Credible Set	purple
chr10:110756900	10	110.7569	0.010853198	Credible Set	purple
chr10:110757011	10	110.7570	0.010853198	Credible Set	purple
chr10:110759826	10	110.7598	0.014300794	Credible Set	purple
chr10:110760381	10	110.7604	0.014300794	Credible Set	purple
chr10:110768547	10	110.7685	0.014300794	Credible Set	purple
chr10:110768747	10	110.7687	0.006351267	Credible Set	purple
chr10:110768762	10	110.7688	0.006351267	Credible Set	purple
chr10:110768830	10	110.7688	0.021106003	Credible Set	purple
chr10:110768858	10	110.7689	0.021106003	Credible Set	purple
chr10:110768862	10	110.7689	0.021106003	Credible Set	purple
chr10:110768863	10	110.7689	0.021106003	Credible Set	purple
chr10:110768865	10	110.7689	0.021106003	Credible Set	purple
chr10:110769342	10	110.7693	0.008764239	Credible Set	purple
chr10:110769400	10	110.7694	0.008764239	Credible Set	purple
chr10:110769437	10	110.7694	0.008764239	Credible Set	purple
chr10:110769467	10	110.7695	0.008764239	Credible Set	purple
chr10:110769523	10	110.7695	0.008764239	Credible Set	purple
chr10:110769585	10	110.7696	0.008764239	Credible Set	purple
chr10:110778078	10	110.7781	0.010853198	Credible Set	purple
chr10:110778106	10	110.7781	0.010853198	Credible Set	purple
chr10:110778366	10	110.7784	0.008764239	Credible Set	purple
chr10:110780233	10	110.7802	0.008764239	Credible Set	purple
chr10:110781079	10	110.7811	0.003067331	Credible Set	purple
chr10:110781085	10	110.7811	0.003067331	Credible Set	purple
chr10:110781088	10	110.7811	0.003067331	Credible Set	purple

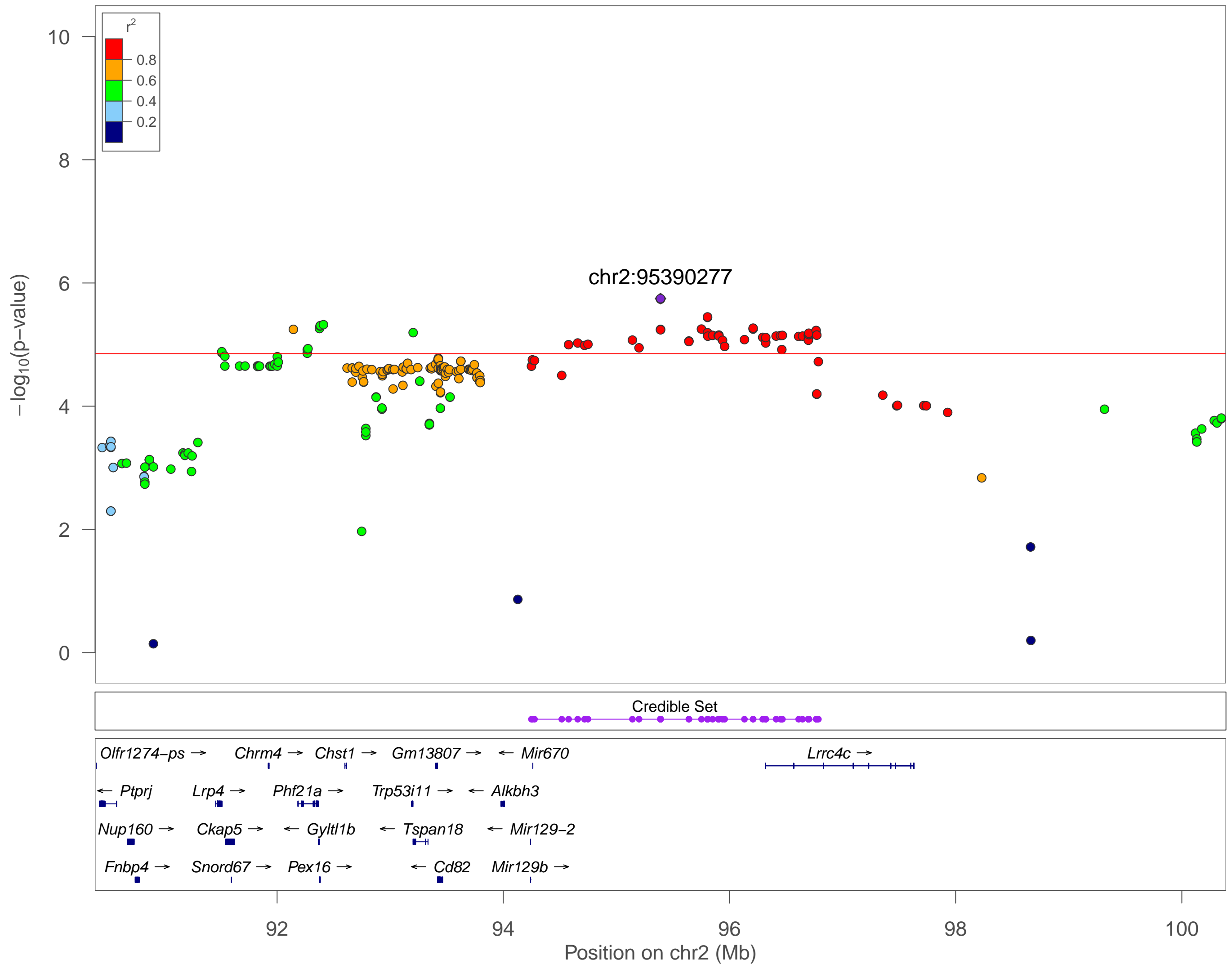
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110782063	10	110.7821	0.010853198	Credible Set	purple
chr10:110790601	10	110.7906	0.010853198	Credible Set	purple
chr10:110824052	10	110.8241	0.010853198	Credible Set	purple
chr10:110841372	10	110.8414	0.014300794	Credible Set	purple
chr10:110859622	10	110.8596	0.002129620	Credible Set	purple
chr10:110939251	10	110.9393	0.003794960	Credible Set	purple
chr10:110949219	10	110.9492	0.005589947	Credible Set	purple
chr10:110949220	10	110.9492	0.005589947	Credible Set	purple
chr10:110949581	10	110.9496	0.006351267	Credible Set	purple
chr10:110955372	10	110.9554	0.008764239	Credible Set	purple
chr10:110977680	10	110.9777	0.007360562	Credible Set	purple
chr10:111134114	10	111.1341	0.007360562	Credible Set	purple
chr10:111139942	10	111.1399	0.007360562	Credible Set	purple
chr10:111139969	10	111.1400	0.007360562	Credible Set	purple
chr10:111145119	10	111.1451	0.010853198	Credible Set	purple
chr10:111156216	10	111.1562	0.007360562	Credible Set	purple
chr10:111162654	10	111.1627	0.010853198	Credible Set	purple
chr10:111178371	10	111.1784	0.010853198	Credible Set	purple
chr10:111178404	10	111.1784	0.010853198	Credible Set	purple
chr10:111179231	10	111.1792	0.010853198	Credible Set	purple
chr10:111179272	10	111.1793	0.008764239	Credible Set	purple
chr10:111180485	10	111.1805	0.010853198	Credible Set	purple
chr10:111180489	10	111.1805	0.010853198	Credible Set	purple
chr10:111196665	10	111.1967	0.010853198	Credible Set	purple
chr10:111196850	10	111.1968	0.002331899	Credible Set	purple
chr10:111196872	10	111.1969	0.002331899	Credible Set	purple
chr10:111201273	10	111.2013	0.003067331	Credible Set	purple
chr10:111223748	10	111.2237	0.004994810	Credible Set	purple
chr10:111234804	10	111.2348	0.006351267	Credible Set	purple
chr10:111267516	10	111.2675	0.008764239	Credible Set	purple
chr10:111274460	10	111.2745	0.021106003	Credible Set	purple
chr10:111274480	10	111.2745	0.021106003	Credible Set	purple
chr10:111347458	10	111.3475	0.010853198	Credible Set	purple
chr10:111348661	10	111.3487	0.010853198	Credible Set	purple
chr10:111348802	10	111.3488	0.014300794	Credible Set	purple
chr10:111354708	10	111.3547	0.007360562	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:111363662	10	111.3637	0.003515896	Credible Set	purple
chr10:111363665	10	111.3637	0.002448640	Credible Set	purple
chr10:111391890	10	111.3919	0.001752614	Credible Set	purple
chr10:111391901	10	111.3919	0.001637499	Credible Set	purple
chr10:111391954	10	111.3920	0.001816659	Credible Set	purple
chr10:111391955	10	111.3920	0.001637499	Credible Set	purple
chr10:111392557	10	111.3926	0.004994810	Credible Set	purple
chr10:111470144	10	111.4701	0.010853198	Credible Set	purple
chr10:111471816	10	111.4718	0.010853198	Credible Set	purple
chr10:111471933	10	111.4719	0.008764239	Credible Set	purple
chr10:111490761	10	111.4908	0.007360562	Credible Set	purple
chr10:111494112	10	111.4941	0.008764239	Credible Set	purple
chr10:111512151	10	111.5122	0.004994810	Credible Set	purple
chr10:111515685	10	111.5157	0.003515896	Credible Set	purple
chr10:111516056	10	111.5161	0.004123623	Credible Set	purple
chr10:111516061	10	111.5161	0.006351267	Credible Set	purple
chr10:111522846	10	111.5228	0.005589947	Credible Set	purple
chr10:111529740	10	111.5297	0.005589947	Credible Set	purple
chr10:111529759	10	111.5298	0.004994810	Credible Set	purple
chr10:111530393	10	111.5304	0.003067331	Credible Set	purple
chr10:111530397	10	111.5304	0.001960384	Credible Set	purple
chr10:111583278	10	111.5833	0.001752614	Credible Set	purple
chr10:111598785	10	111.5988	0.001637499	Credible Set	purple
chr10:111648540	10	111.6485	0.004123623	Credible Set	purple
chr10:111648550	10	111.6486	0.004123623	Credible Set	purple
chr10:111648631	10	111.6486	0.004516542	Credible Set	purple
chr10:111658438	10	111.6584	0.003067331	Credible Set	purple
chr10:111658509	10	111.6585	0.003067331	Credible Set	purple
chr10:111681517	10	111.6815	0.002722361	Credible Set	purple

F34 GBS, iron content in spleen z score



date: Thu Oct 25 17:17:49 2018
build: F34GBS
display range: chr2:90390277–100390277 [90390277–100390277]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr2:95390277
number of SNPs plotted: 248
min P-value: 1.79E–6 [chr2:95390277]
max P-value: 7.17E–1 [chr2:90906135]
omitted Genes: Agbl2, Mtch2, C1qtnf4
omitted Genes: Ndufs3, Kbtbd4, Ptpmt1
omitted Genes: Celf1, Rapsn, Psmc3
omitted Genes: Slc39a13, Spi1, Mybpc3
omitted Genes: Madd, Nr1h3, Acp2
omitted Genes: Ddb2, A330069E16Rik, Pacsin3
omitted Genes: Arfgap2, 1110051M20Rik, F2
omitted Genes: Zfp408, Arhgap1, Atg13
omitted Genes: Harbi1, Ambra1, Mdk
omitted Genes: Dgkz, Mir6999, Creb3l1
omitted Genes: Mir1955, 1700029I15Rik, Mapk8ip1
omitted Genes: Mir7000, Cry2, D930015M05Rik
omitted Genes: Slc35c1, Mir7221, Mir7222
omitted Genes: Syt13, Prdm11, 4631405J19Rik
omitted Genes: Mir7001, Gm10804, Alx4
omitted Genes: Ext2, Accs, Accsl
omitted Genes: Gm13889, Alkbh3os1, Hsd17b12
omitted Genes: Ttc17, 2810002D19Rik, Api5

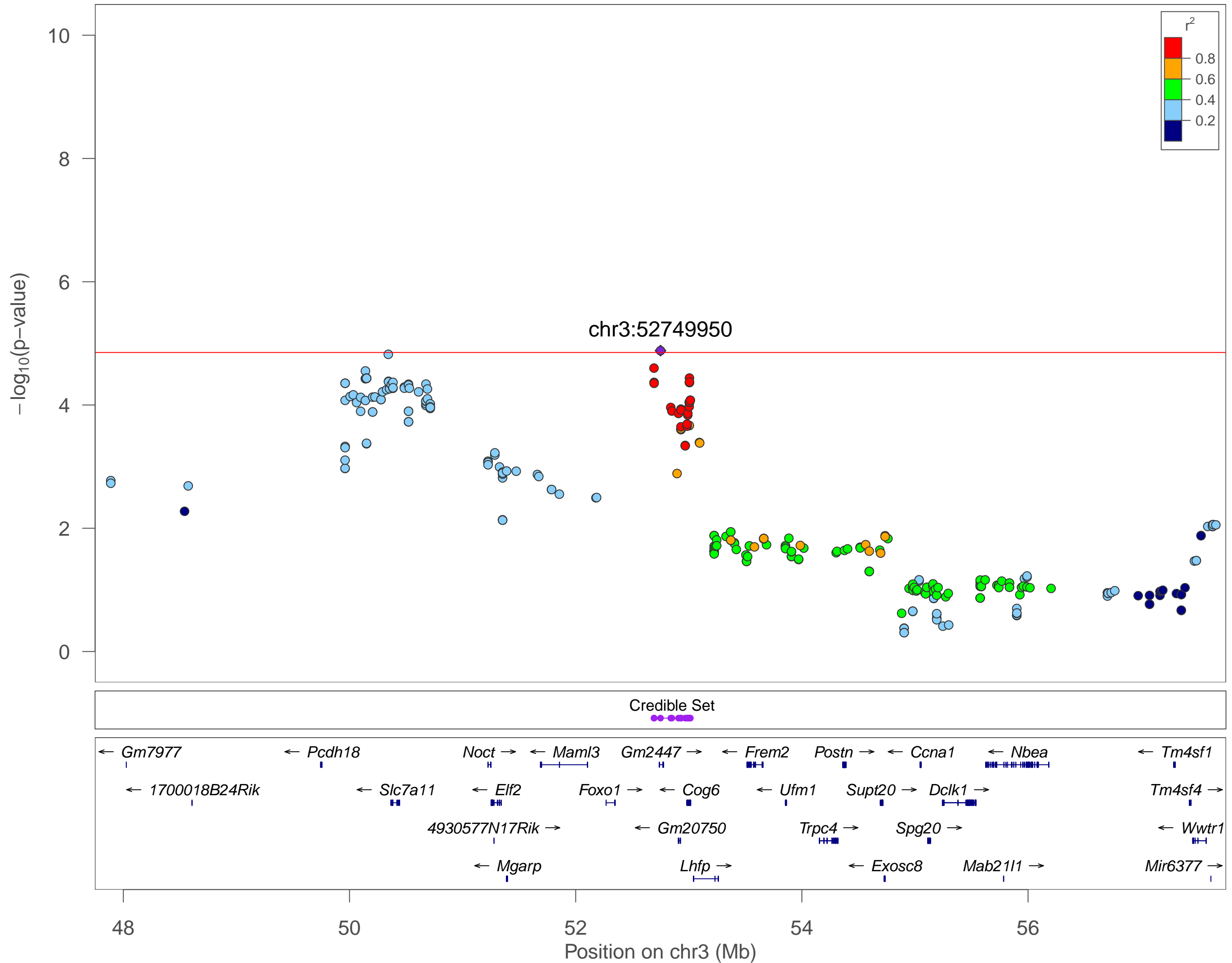
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:94249122	2	94.24912	0.005363639	Credible Set	purple
chr2:94257379	2	94.25738	0.006731559	Credible Set	purple
chr2:94276010	2	94.27601	0.006572847	Credible Set	purple
chr2:94516977	2	94.51698	0.003868297	Credible Set	purple
chr2:94577500	2	94.57750	0.011545684	Credible Set	purple
chr2:94657941	2	94.65794	0.012263420	Credible Set	purple
chr2:94718556	2	94.71856	0.011267592	Credible Set	purple
chr2:94748712	2	94.74871	0.011701742	Credible Set	purple
chr2:95141904	2	95.14190	0.013610171	Credible Set	purple
chr2:95200398	2	95.20040	0.010328782	Credible Set	purple
chr2:95390243	2	95.39024	0.059766693	Credible Set	purple
chr2:95390247	2	95.39025	0.059840800	Credible Set	purple
chr2:95390277	2	95.39028	0.060192977	Credible Set	purple
chr2:95390284	2	95.39028	0.058968519	Credible Set	purple
chr2:95390546	2	95.39055	0.019940281	Credible Set	purple
chr2:95390592	2	95.39059	0.019636641	Credible Set	purple
chr2:95641124	2	95.64112	0.013175078	Credible Set	purple
chr2:95641477	2	95.64148	0.012917785	Credible Set	purple
chr2:95752277	2	95.75228	0.020177296	Credible Set	purple
chr2:95805867	2	95.80587	0.017731199	Credible Set	purple
chr2:95806028	2	95.80603	0.030582477	Credible Set	purple
chr2:95806038	2	95.80604	0.031166796	Credible Set	purple
chr2:95808603	2	95.80860	0.015643848	Credible Set	purple
chr2:95850674	2	95.85067	0.016109648	Credible Set	purple
chr2:95900229	2	95.90023	0.016002886	Credible Set	purple
chr2:95906738	2	95.90674	0.016267898	Credible Set	purple
chr2:95906783	2	95.90678	0.015718414	Credible Set	purple
chr2:95938782	2	95.93878	0.013502048	Credible Set	purple
chr2:95957448	2	95.95745	0.010847978	Credible Set	purple
chr2:96132587	2	96.13259	0.013828976	Credible Set	purple
chr2:96209134	2	96.20913	0.020164104	Credible Set	purple
chr2:96209157	2	96.20916	0.020860168	Credible Set	purple
chr2:96293855	2	96.29385	0.014998462	Credible Set	purple
chr2:96320222	2	96.32022	0.012844909	Credible Set	purple
chr2:96320237	2	96.32024	0.012264114	Credible Set	purple
chr2:96320641	2	96.32064	0.014907873	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:96412425	2	96.41242	0.015702216	Credible Set	purple
chr2:96451438	2	96.45144	0.016002886	Credible Set	purple
chr2:96462914	2	96.46291	0.009700138	Credible Set	purple
chr2:96468064	2	96.46806	0.016103254	Credible Set	purple
chr2:96611762	2	96.61176	0.015506139	Credible Set	purple
chr2:96645727	2	96.64573	0.015691358	Credible Set	purple
chr2:96697256	2	96.69726	0.016234165	Credible Set	purple
chr2:96697871	2	96.69787	0.013936852	Credible Set	purple
chr2:96697872	2	96.69787	0.013527542	Credible Set	purple
chr2:96701045	2	96.70104	0.016647624	Credible Set	purple
chr2:96701070	2	96.70107	0.016647624	Credible Set	purple
chr2:96701077	2	96.70108	0.016647624	Credible Set	purple
chr2:96701079	2	96.70108	0.016647624	Credible Set	purple
chr2:96701166	2	96.70117	0.017405925	Credible Set	purple
chr2:96766199	2	96.76620	0.019191454	Credible Set	purple
chr2:96771761	2	96.77176	0.016261856	Credible Set	purple
chr2:96771791	2	96.77179	0.016262277	Credible Set	purple
chr2:96771900	2	96.77190	0.001994975	Credible Set	purple
chr2:96771931	2	96.77193	0.001982158	Credible Set	purple
chr2:96771968	2	96.77197	0.002010158	Credible Set	purple
chr2:96786046	2	96.78605	0.006313408	Credible Set	purple

F34 GBS, iron content in spleen z score



date: Thu Oct 25 17:17:58 2018

build: F34GBS

display range: chr3:47749950–57749950 [47749950–57749950]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:52749950

number of SNPs plotted: 317

min P-value: 1.31E–5 [chr3:52749950]

max P-value: 4.95E–1 [chr3:54904358]

omitted Genes: Ndufc1, Naa15, Rab33b

omitted Genes: Setd7, 5031434O11Rik, Mgst2

omitted Genes: Nhlrc3, Proser1, Stoml3

omitted Genes: Alg5, Smad9, Rfxap

omitted Genes: Sertm1, 4931419H13Rik, Ccdc169

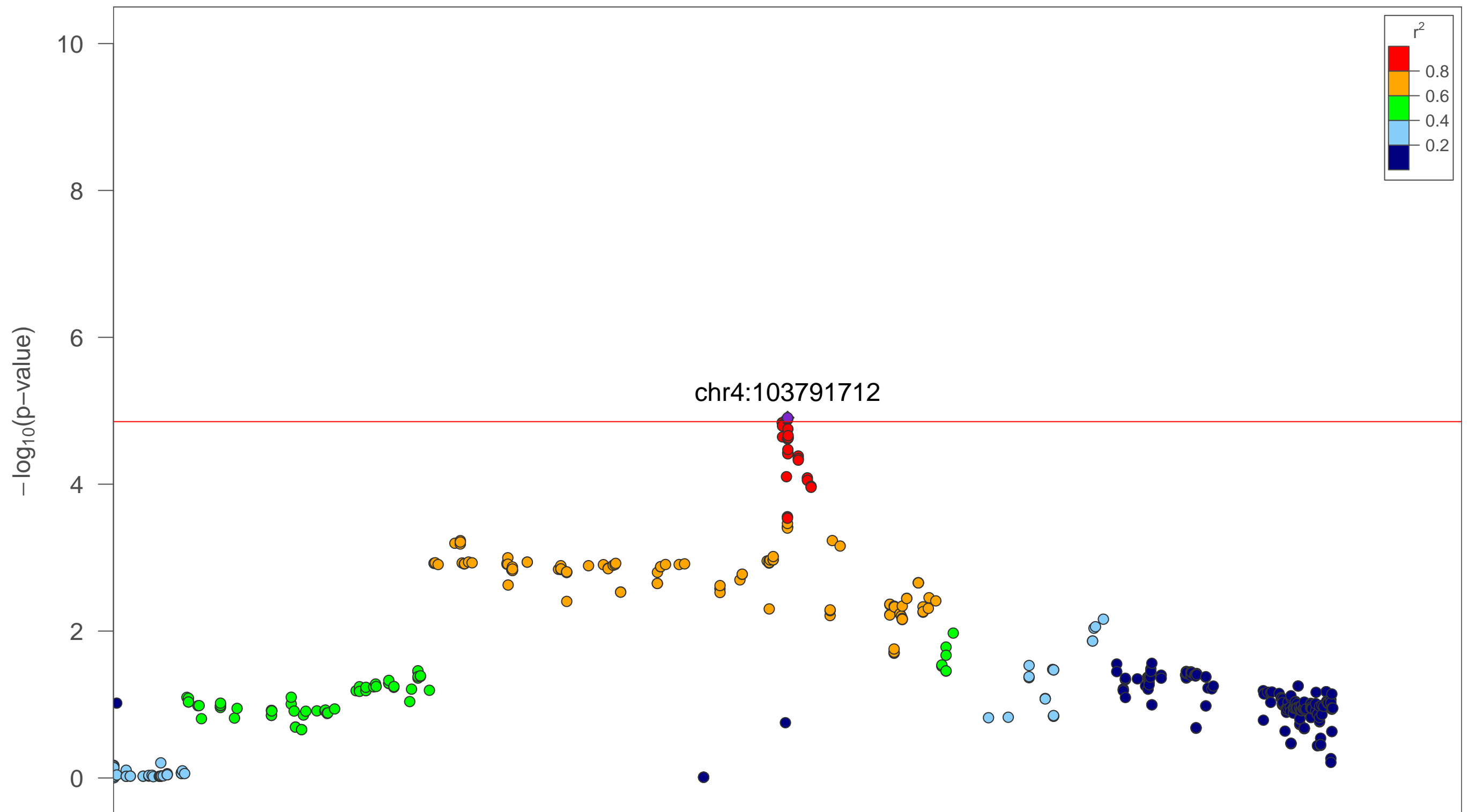
omitted Genes: Sohlh2, 4933417G07Rik, Commd2

omitted Genes: Ankub1, Rnf13

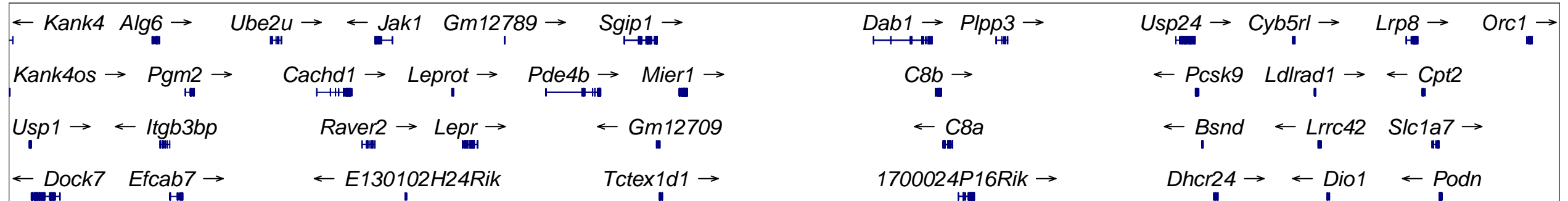
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr3:52692409	3	52.69241	0.089838719	Credible Set	purple
chr3:52693102	3	52.69310	0.054132032	Credible Set	purple
chr3:52693118	3	52.69312	0.052301075	Credible Set	purple
chr3:52749950	3	52.74995	0.167096637	Credible Set	purple
chr3:52840387	3	52.84039	0.022309578	Credible Set	purple
chr3:52850138	3	52.85014	0.019643067	Credible Set	purple
chr3:52909024	3	52.90902	0.018037015	Credible Set	purple
chr3:52930454	3	52.93045	0.011306871	Credible Set	purple
chr3:52930496	3	52.93050	0.021032229	Credible Set	purple
chr3:52930984	3	52.93098	0.020376718	Credible Set	purple
chr3:52968213	3	52.96821	0.005893668	Credible Set	purple
chr3:52984307	3	52.98431	0.011980952	Credible Set	purple
chr3:52984901	3	52.98490	0.011558553	Credible Set	purple
chr3:52984912	3	52.98491	0.012424554	Credible Set	purple
chr3:52990872	3	52.99087	0.017071957	Credible Set	purple
chr3:52991306	3	52.99131	0.018133903	Credible Set	purple
chr3:53003556	3	53.00356	0.022927130	Credible Set	purple
chr3:53003614	3	53.00361	0.026843355	Credible Set	purple
chr3:53005849	3	53.00585	0.053732447	Credible Set	purple
chr3:53005874	3	53.00587	0.054050290	Credible Set	purple
chr3:53005885	3	53.00588	0.063157304	Credible Set	purple
chr3:53005909	3	53.00591	0.054810868	Credible Set	purple
chr3:53007126	3	53.00713	0.027090896	Credible Set	purple
chr3:53007129	3	53.00713	0.026948953	Credible Set	purple
chr3:53007177	3	53.00718	0.026948953	Credible Set	purple
chr3:53007214	3	53.00721	0.026987237	Credible Set	purple
chr3:53013134	3	53.01313	0.028823993	Credible Set	purple
chr3:53013153	3	53.01315	0.028734960	Credible Set	purple

F34 GBS, iron content in spleen z score



Credible Set



51 genes
omitted

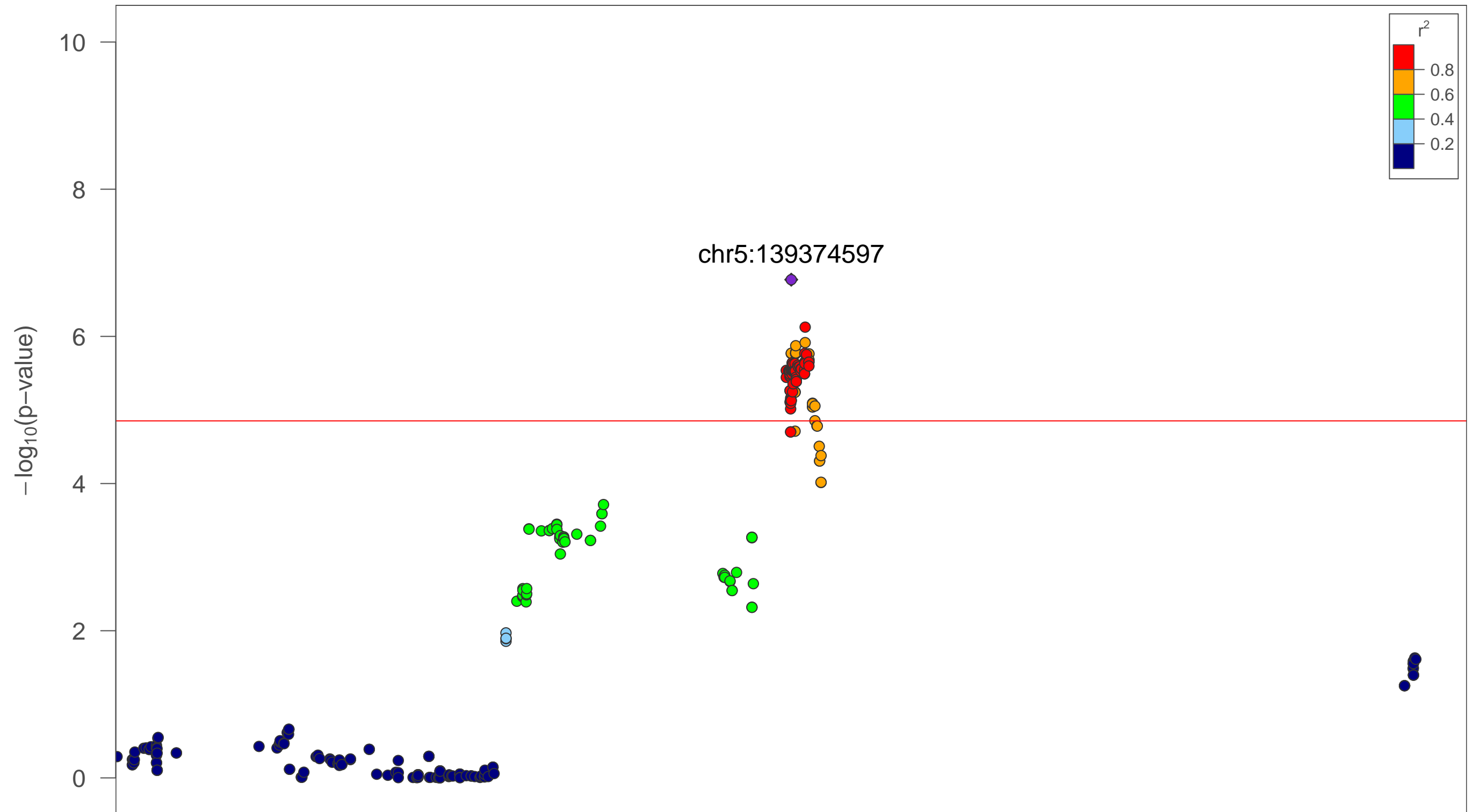
Position on chr4 (Mb)

date: Thu Oct 25 17:18:07 2018
build: F34GBS
display range: chr4:98791712–108791712 [98791712–108791712]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:103791712
number of SNPs plotted: 490
min P-value: 1.24E–5 [chr4:103791712]
max P-value: 9.9E–1 [chr4:98796618]
omitted Genes: Angptl3, Atg4c, Foxd3
omitted Genes: Ror1, Mir101a, 0610043K17Rik
omitted Genes: Ak4, Dnajc6, B020004J07Rik
omitted Genes: Gm12794, BB031773, Insl5
omitted Genes: Wdr78, Slc35d1, 4921539E11Rik
omitted Genes: 4930456L15Rik, Oma1, Gm12718
omitted Genes: Prkaa2, Lexm, Ttc22
omitted Genes: Pars2, Ttc4, Mroh7
omitted Genes: Fam151a, Acot11, Ssbp3
omitted Genes: Mrpl37, Cdcp2, Tceanc2
omitted Genes: Tmem59, Hspb11, Yipf1
omitted Genes: Ndc1, Glis1, Dmrtb1
omitted Genes: Magoh, 0610037L13Rik, 4930407G08Rik
omitted Genes: Scp2, Mir6397, Echdc2
omitted Genes: Zyg11a, Zyg11b, Coa7
omitted Genes: Fam159a, Gpx7, Zcchc11
omitted Genes: Prpf38a, Cc2d1b, Zfyve9

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:103751840	4	103.7518	0.060477508	Credible Set	purple
chr4:103753885	4	103.7539	0.060155313	Credible Set	purple
chr4:103754141	4	103.7541	0.056628681	Credible Set	purple
chr4:103754184	4	103.7542	0.054737834	Credible Set	purple
chr4:103754202	4	103.7542	0.039516345	Credible Set	purple
chr4:103783541	4	103.7835	0.012088639	Credible Set	purple
chr4:103790658	4	103.7907	0.003708715	Credible Set	purple
chr4:103791594	4	103.7916	0.037183308	Credible Set	purple
chr4:103791682	4	103.7917	0.065847398	Credible Set	purple
chr4:103791711	4	103.7917	0.068015582	Credible Set	purple
chr4:103791712	4	103.7917	0.070110846	Credible Set	purple
chr4:103791722	4	103.7917	0.068550001	Credible Set	purple
chr4:103793565	4	103.7936	0.024540983	Credible Set	purple
chr4:103793571	4	103.7936	0.024540983	Credible Set	purple
chr4:103793605	4	103.7936	0.024616382	Credible Set	purple
chr4:103793645	4	103.7936	0.023839493	Credible Set	purple
chr4:103793861	4	103.7939	0.027104748	Credible Set	purple
chr4:103793969	4	103.7940	0.049967021	Credible Set	purple
chr4:103795720	4	103.7957	0.038070727	Credible Set	purple
chr4:103795724	4	103.7957	0.038649946	Credible Set	purple
chr4:103795744	4	103.7957	0.041067485	Credible Set	purple
chr4:103871016	4	103.8710	0.022372760	Credible Set	purple
chr4:103871045	4	103.8710	0.020746898	Credible Set	purple
chr4:103871082	4	103.8711	0.019764792	Credible Set	purple
chr4:103938428	4	103.9384	0.011676744	Credible Set	purple
chr4:103938894	4	103.9389	0.010866450	Credible Set	purple
chr4:103966010	4	103.9660	0.009113775	Credible Set	purple
chr4:103966020	4	103.9660	0.008833631	Credible Set	purple

F34 GBS, iron content in spleen z score



Credible Set

← *Gtf2ird1* ← *Hip1* *Polr2j* → *Ift22* → ← *Epo* ← *Zfp113* ← *Pdgfa* ← *Micall2* *Eif3b* → *Sdk1* → ← *Mmd2* ← *Zdhhc4* ← *Ocm*
← *Clip2* ← *Fzd9* ← *Ywhag* *Myl10* → ← *Srrt* ← *Gjc3* ← *Zfp68* *Get4* → ← *Elfn1* → ← *Grifin* *Foxk1* → ← *Rbakdn* ← *Aimp2*
← *Syna* ← *Fkbp6* *Zp3* → ← *Col26a1* *Actl6b* → ← *Taf6* ← *Prkar1b* ← *Ints1* ← *Snx8* *Ap5z1* → ← *Rbak* *Eif2ak1* →
Mir7228 → ← *Ccl26* ← *Sh2b2* *Fis1* → *Tfr2* → ← *Mir25* *Dnaaf5* → ← *Mad1l1* ← *Card11* ← *Radil* *Zfp12* → *Pms2* →

167 genes
omitted

Position on chr5 (Mb)

date: Thu Oct 25 17:18:18 2018

build: F34GBS

display range: chr5:134374597–144374597 [134374597–144374597]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:139374597

number of SNPs plotted: 310

min P-value: 1.7E–7 [chr5:139374597]

max P-value: 10E–1 [chr5:136774656]

omitted Genes: Rfc2, Lat2, Eif4h

omitted Genes: Limk1, Eln, Wbscr28

omitted Genes: Cldn13, Wbscr27, Cldn4

omitted Genes: Cldn3, Wbscr25, Abhd11

omitted Genes: Abhd11os, Stx1a, Wbscr22

omitted Genes: Dnajc30, Vps37d, Mlxipl

omitted Genes: Tbl2, Bcl7b, Baz1b

omitted Genes: Trim50, Nsun5, Pom121

omitted Genes: Mir7033, Ccl24, Rhbdd2

omitted Genes: Por, Tmem120a, Mir7034

omitted Genes: Styxl1, Mdh2, Srrm3

omitted Genes: Hspb1, Ssc4d, Dtx2

omitted Genes: Upk3b, Upk3bl, Rasa4

omitted Genes: Mir7035, Lrwd1, Alkbh4

omitted Genes: Orai2, Prkrip1, Cux1

omitted Genes: Mir721, 4933404O12Rik, Cldn15

omitted Genes: Znhit1, Plod3, Mir702

omitted Genes: Vgf, Ap1s1, Serpine1

omitted Genes: Trim56, Ache, Mir8116

omitted Genes: Ufsp1, Mir7036, Trip6

omitted Genes: Slc12a9, Ephb4, Zan

omitted Genes: Pop7, Gigyf1, Gnb2

omitted Genes: Mir6418, Mospd3, Pcolce

omitted Genes: Fbxo24, Lrch4, Gm20605

omitted Genes: Sap25, Irs3, Agfg2

omitted Genes: Nyap1, Tsc22d4, Ppp1r35

omitted Genes: Mepce, Zcwpw1, Pilra

omitted Genes: Pilrb1, Pilrb2, Cyp3a13

omitted Genes: Azgp1, Smok3a, Smok3b

omitted Genes: Smok3c, Zkscan1, Zscan21

omitted Genes: Cops6, Mcm7, Mir93

omitted Genes: Mir106b, Ap4m1, Cnpy4

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

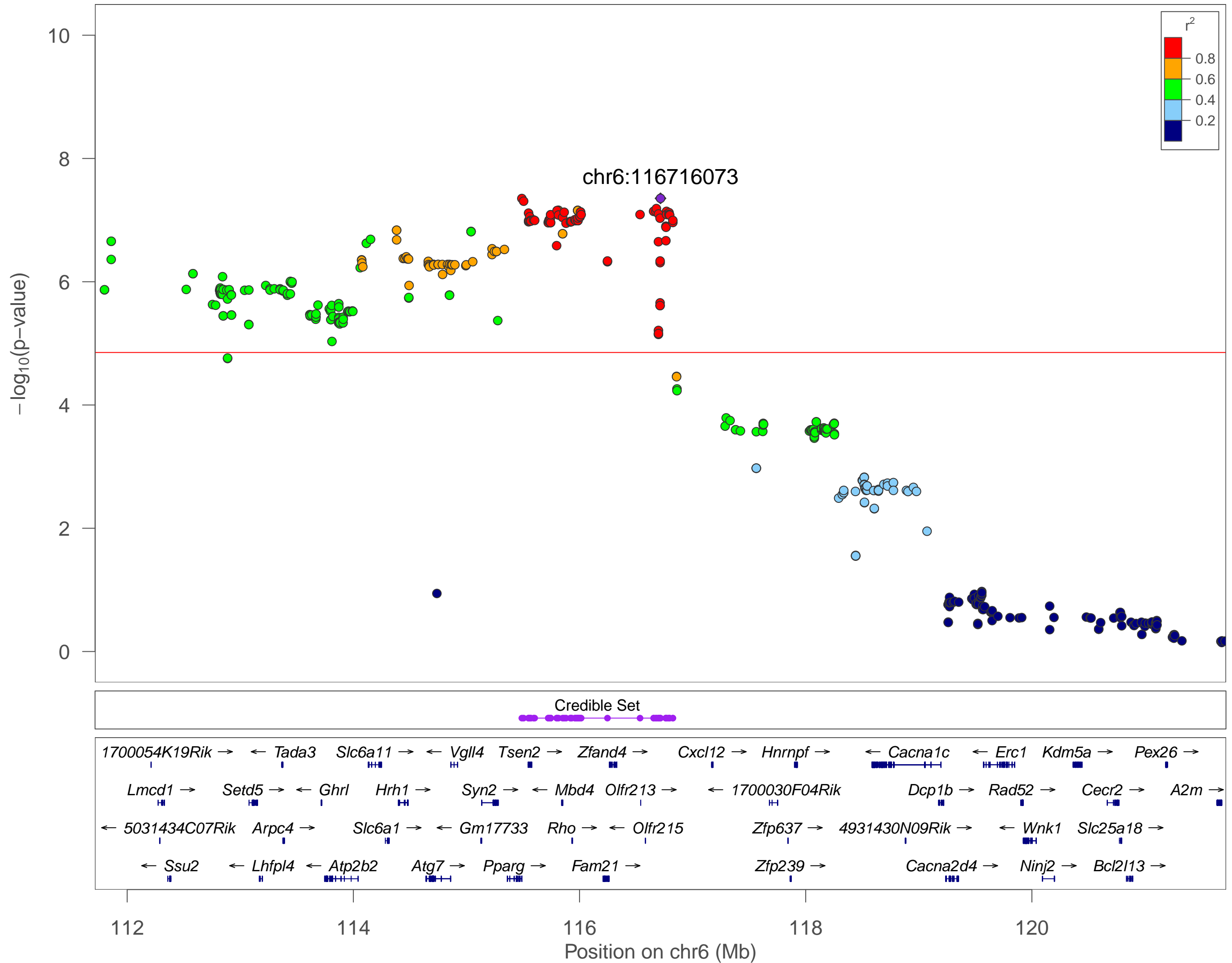
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139337717	5	139.3377	0.011843849	Credible Set	purple
chr5:139338124	5	139.3381	0.009604424	Credible Set	purple
chr5:139356059	5	139.3561	0.011678110	Credible Set	purple
chr5:139357023	5	139.3570	0.011676185	Credible Set	purple
chr5:139357028	5	139.3570	0.011676185	Credible Set	purple
chr5:139359983	5	139.3600	0.011213880	Credible Set	purple
chr5:139360537	5	139.3605	0.011337767	Credible Set	purple
chr5:139365262	5	139.3653	0.009836049	Credible Set	purple
chr5:139365292	5	139.3653	0.011818085	Credible Set	purple
chr5:139365343	5	139.3653	0.010006669	Credible Set	purple
chr5:139365434	5	139.3654	0.006449839	Credible Set	purple
chr5:139365448	5	139.3654	0.006455095	Credible Set	purple
chr5:139365601	5	139.3656	0.010551312	Credible Set	purple
chr5:139365659	5	139.3657	0.011511756	Credible Set	purple
chr5:139365700	5	139.3657	0.004588735	Credible Set	purple
chr5:139370400	5	139.3704	0.005162146	Credible Set	purple
chr5:139370538	5	139.3705	0.004410022	Credible Set	purple
chr5:139370586	5	139.3706	0.004888566	Credible Set	purple
chr5:139370648	5	139.3706	0.004803120	Credible Set	purple
chr5:139374544	5	139.3745	0.004822292	Credible Set	purple
chr5:139374549	5	139.3745	0.004789127	Credible Set	purple
chr5:139374597	5	139.3746	0.182402395	Credible Set	purple
chr5:139374918	5	139.3749	0.011643184	Credible Set	purple
chr5:139382014	5	139.3820	0.010570673	Credible Set	purple
chr5:139382197	5	139.3822	0.014689264	Credible Set	purple
chr5:139382215	5	139.3822	0.014689264	Credible Set	purple
chr5:139382343	5	139.3823	0.014915282	Credible Set	purple
chr5:139382347	5	139.3823	0.014915282	Credible Set	purple
chr5:139382775	5	139.3828	0.011690070	Credible Set	purple
chr5:139382789	5	139.3828	0.011690070	Credible Set	purple
chr5:139384477	5	139.3845	0.006220628	Credible Set	purple
chr5:139387948	5	139.3879	0.007921164	Credible Set	purple
chr5:139388094	5	139.3881	0.012455759	Credible Set	purple
chr5:139388781	5	139.3888	0.011743918	Credible Set	purple
chr5:139389536	5	139.3895	0.014359155	Credible Set	purple
chr5:139389540	5	139.3895	0.014359155	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr5:139389572	5	139.3896	0.014359155	Credible Set	purple
chr5:139389578	5	139.3896	0.014359155	Credible Set	purple
chr5:139391234	5	139.3912	0.011643184	Credible Set	purple
chr5:139391358	5	139.3914	0.011643184	Credible Set	purple
chr5:139395030	5	139.3950	0.011664814	Credible Set	purple
chr5:139402752	5	139.4028	0.014563760	Credible Set	purple
chr5:139403170	5	139.4032	0.011682145	Credible Set	purple
chr5:139404712	5	139.4047	0.011643184	Credible Set	purple
chr5:139404757	5	139.4048	0.011643184	Credible Set	purple
chr5:139404767	5	139.4048	0.011643184	Credible Set	purple
chr5:139411750	5	139.4118	0.009698102	Credible Set	purple
chr5:139411803	5	139.4118	0.008992399	Credible Set	purple
chr5:139411845	5	139.4118	0.008992399	Credible Set	purple
chr5:139411920	5	139.4119	0.009042781	Credible Set	purple
chr5:139412108	5	139.4121	0.008464481	Credible Set	purple
chr5:139412109	5	139.4121	0.008464481	Credible Set	purple
chr5:139422570	5	139.4226	0.013812241	Credible Set	purple
chr5:139426676	5	139.4267	0.013119564	Credible Set	purple
chr5:139437340	5	139.4373	0.013299241	Credible Set	purple
chr5:139445073	5	139.4451	0.012367835	Credible Set	purple
chr5:139445415	5	139.4454	0.011544452	Credible Set	purple
chr5:139449959	5	139.4500	0.012377106	Credible Set	purple
chr5:139472776	5	139.4728	0.012039033	Credible Set	purple
chr5:139472992	5	139.4730	0.010674549	Credible Set	purple
chr5:139472993	5	139.4730	0.010696332	Credible Set	purple
chr5:139474788	5	139.4748	0.015301490	Credible Set	purple
chr5:139474790	5	139.4748	0.014598204	Credible Set	purple
chr5:139474824	5	139.4748	0.014545417	Credible Set	purple
chr5:139474889	5	139.4749	0.019783865	Credible Set	purple
chr5:139477643	5	139.4776	0.043516286	Credible Set	purple
chr5:139488214	5	139.4882	0.019088989	Credible Set	purple
chr5:139504674	5	139.5047	0.015149475	Credible Set	purple
chr5:139505164	5	139.5052	0.015175055	Credible Set	purple
chr5:139505384	5	139.5054	0.013522652	Credible Set	purple

F34 GBS, iron content in spleen z score



date: Thu Oct 25 17:18:29 2018
build: F34GBS
display range: chr6:111716073–121716073 [111716073–121716073]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:116716073
number of SNPs plotted: 445
min P-value: 4.43E–8 [chr6:116716073]
max P-value: 7.14E–1 [chr6:121678889]
omitted Genes: Cav3, Oxtr, Rad18
omitted Genes: Srgap3, Thumpd3, Gt(ROSA)26Sor
omitted Genes: Mtmr14, Cpne9, Brpf1
omitted Genes: Ogg1, Camk1, Ttl3
omitted Genes: Rpusd3, Cidec, Jagn1
omitted Genes: Il17re, Il17rc, Creld1
omitted Genes: Prrt3, Emc3, Fancd2
omitted Genes: Fancd2os, Brk1, Vhl
omitted Genes: Irak2, Tatdn2, Mir7042
omitted Genes: Sec13, Tamm41, Timp4
omitted Genes: Mkrn2os, Mkrn2, Raf1
omitted Genes: Tmem40, Cand2, Mir7660
omitted Genes: Rpl32, Snora7a, Efcab12
omitted Genes: Ift122, H1foo, Plxnd1
omitted Genes: Tmcc1, 9530062K07Rik, March8
omitted Genes: Alox5, Olfr211, Olfr212
omitted Genes: Olfr214, Zfp422, Rassf4
omitted Genes: Mir7043, 8430408G22Rik, Tmem72
omitted Genes: Fxyd4, Rasgef1a, Mir7044
omitted Genes: Csgalnact2, Ret, 1700069P05Rik
omitted Genes: Gm30498, Bms1, Zfp248
omitted Genes: Zfp9, Ankrd26, Lrtm2
omitted Genes: Adipor2, Wnt5b, Fbxl14
omitted Genes: 3110021A11Rik, Mir706, B4galnt3
omitted Genes: Ccdc77, Il17ra, Cecr6
omitted Genes: Cecr5, 1700072O05Rik, Atp6v1e1
omitted Genes: Bid, Mical3, Tuba8
omitted Genes: Usp18, Slc6a13, Slc6a12
omitted Genes: Iqsec3

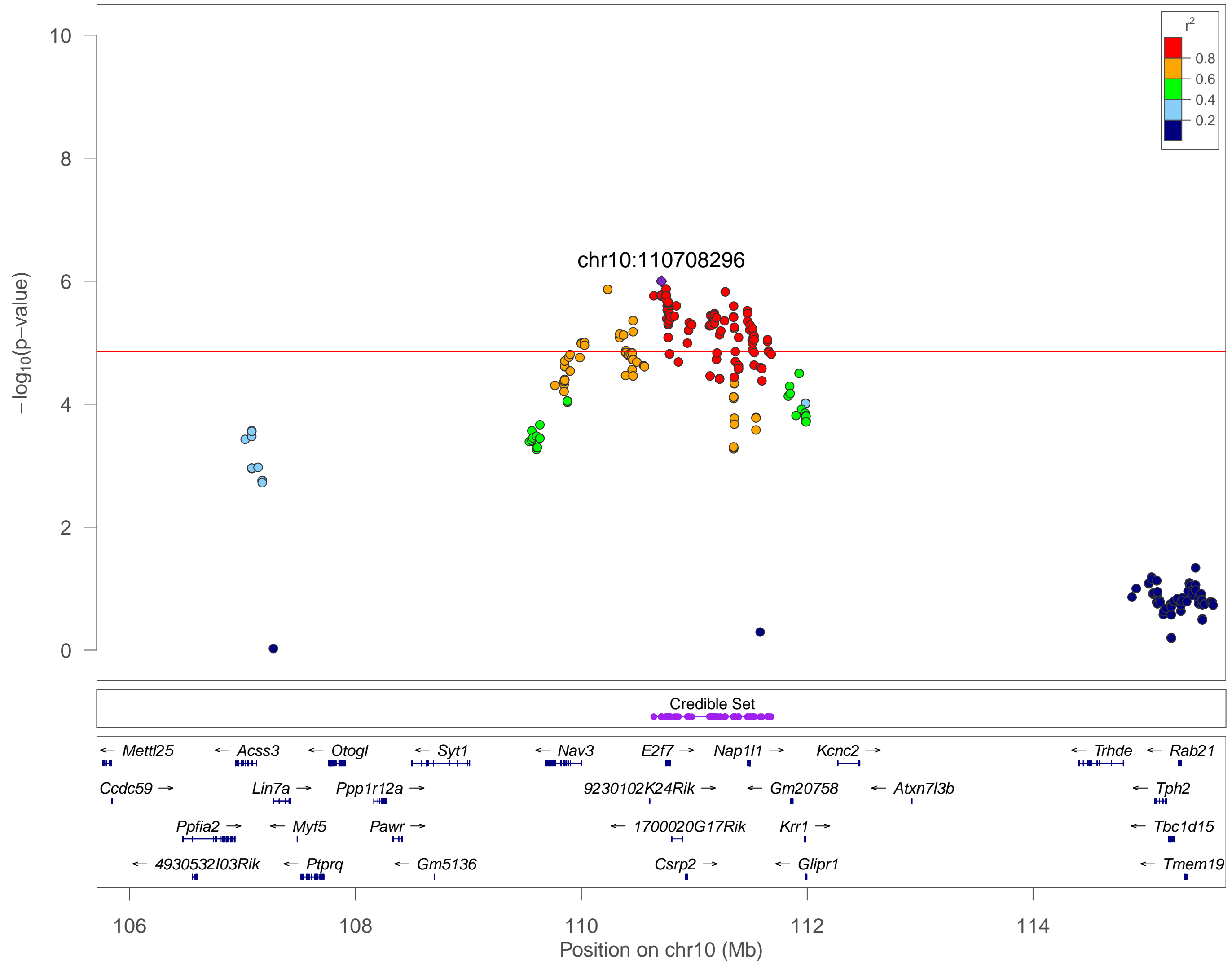
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115489819	6	115.4898	0.029911876	Credible Set	purple
chr6:115505788	6	115.5058	0.027122258	Credible Set	purple
chr6:115549490	6	115.5495	0.017619729	Credible Set	purple
chr6:115549730	6	115.5497	0.012877132	Credible Set	purple
chr6:115549829	6	115.5498	0.013403440	Credible Set	purple
chr6:115555634	6	115.5556	0.013556316	Credible Set	purple
chr6:115559836	6	115.5598	0.015448422	Credible Set	purple
chr6:115567453	6	115.5675	0.013576450	Credible Set	purple
chr6:115569261	6	115.5693	0.013183497	Credible Set	purple
chr6:115593481	6	115.5935	0.013760669	Credible Set	purple
chr6:115603445	6	115.6034	0.013530179	Credible Set	purple
chr6:115723557	6	115.7236	0.012711679	Credible Set	purple
chr6:115723602	6	115.7236	0.012434817	Credible Set	purple
chr6:115729470	6	115.7295	0.013075719	Credible Set	purple
chr6:115729519	6	115.7295	0.013184296	Credible Set	purple
chr6:115730587	6	115.7306	0.013741989	Credible Set	purple
chr6:115736586	6	115.7366	0.014052210	Credible Set	purple
chr6:115743744	6	115.7437	0.014894984	Credible Set	purple
chr6:115744308	6	115.7443	0.012471193	Credible Set	purple
chr6:115744336	6	115.7443	0.012511485	Credible Set	purple
chr6:115744487	6	115.7445	0.016616915	Credible Set	purple
chr6:115744493	6	115.7445	0.016616915	Credible Set	purple
chr6:115797352	6	115.7974	0.005438448	Credible Set	purple
chr6:115801564	6	115.8016	0.019346817	Credible Set	purple
chr6:115813904	6	115.8139	0.016444940	Credible Set	purple
chr6:115850586	6	115.8506	0.015064290	Credible Set	purple
chr6:115864297	6	115.8643	0.018189298	Credible Set	purple
chr6:115880648	6	115.8806	0.012217102	Credible Set	purple
chr6:115919848	6	115.9198	0.012772538	Credible Set	purple
chr6:115920287	6	115.9203	0.013075212	Credible Set	purple
chr6:115928586	6	115.9286	0.013054236	Credible Set	purple
chr6:115929540	6	115.9295	0.012981674	Credible Set	purple
chr6:115957904	6	115.9579	0.013880932	Credible Set	purple
chr6:115967362	6	115.9674	0.013395694	Credible Set	purple
chr6:115967880	6	115.9679	0.013446363	Credible Set	purple
chr6:115985523	6	115.9855	0.013433663	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:115985527	6	115.9855	0.013433663	Credible Set	purple
chr6:115985543	6	115.9855	0.013433663	Credible Set	purple
chr6:115985717	6	115.9857	0.014755059	Credible Set	purple
chr6:116003809	6	116.0038	0.015313769	Credible Set	purple
chr6:116004432	6	116.0044	0.015529522	Credible Set	purple
chr6:116009041	6	116.0090	0.018413782	Credible Set	purple
chr6:116009081	6	116.0091	0.018293016	Credible Set	purple
chr6:116014484	6	116.0145	0.016682609	Credible Set	purple
chr6:116246991	6	116.2470	0.003127944	Credible Set	purple
chr6:116535049	6	116.5350	0.016733290	Credible Set	purple
chr6:116655672	6	116.6557	0.018804842	Credible Set	purple
chr6:116655715	6	116.6557	0.018804842	Credible Set	purple
chr6:116675286	6	116.6753	0.018754154	Credible Set	purple
chr6:116679618	6	116.6796	0.020765511	Credible Set	purple
chr6:116697627	6	116.6976	0.006264746	Credible Set	purple
chr6:116698225	6	116.6982	0.017080051	Credible Set	purple
chr6:116712020	6	116.7120	0.014661507	Credible Set	purple
chr6:116712593	6	116.7126	0.003130955	Credible Set	purple
chr6:116716073	6	116.7161	0.030067886	Credible Set	purple
chr6:116763618	6	116.7636	0.010980677	Credible Set	purple
chr6:116763629	6	116.7636	0.006501999	Credible Set	purple
chr6:116764660	6	116.7647	0.010655808	Credible Set	purple
chr6:116764667	6	116.7647	0.010565951	Credible Set	purple
chr6:116769198	6	116.7692	0.018775783	Credible Set	purple
chr6:116769221	6	116.7692	0.016754096	Credible Set	purple
chr6:116791717	6	116.7917	0.017909708	Credible Set	purple
chr6:116791844	6	116.7918	0.016713787	Credible Set	purple
chr6:116791847	6	116.7918	0.016713787	Credible Set	purple
chr6:116797564	6	116.7976	0.016373768	Credible Set	purple
chr6:116825061	6	116.8251	0.012552009	Credible Set	purple
chr6:116825105	6	116.8251	0.013529920	Credible Set	purple

F34 GBS, iron content in spleen z score



date: Thu Oct 25 17:17:39 2018

build: F34GBS

display range: chr10:105708296–115708296 [105708296–115708296]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:110708296

number of SNPs plotted: 326

min P-value: 1E–6 [chr10:110708296]

max P-value: 9.41E–1 [chr10:107272725]

omitted Genes: Myf6, Gm29685, Zdhhc17

omitted Genes: Osbpl8, Bbs10, Gm5176

omitted Genes: Phlda1, 4933440J02Rik, Glipr1l1

omitted Genes: Glipr1l2, Caps2, 1700010J16Rik

omitted Genes: Thap2, Zfc3h1, Lgr5

omitted Genes: A930009A15Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110641142	10	110.6411	0.018986892	Credible Set	purple
chr10:110708014	10	110.7080	0.018986892	Credible Set	purple
chr10:110708268	10	110.7083	0.018986892	Credible Set	purple
chr10:110708269	10	110.7083	0.018986892	Credible Set	purple
chr10:110708296	10	110.7083	0.036976812	Credible Set	purple
chr10:110708628	10	110.7086	0.018986892	Credible Set	purple
chr10:110749349	10	110.7493	0.018986892	Credible Set	purple
chr10:110749883	10	110.7499	0.018986892	Credible Set	purple
chr10:110749995	10	110.7500	0.018986892	Credible Set	purple
chr10:110750029	10	110.7500	0.036976812	Credible Set	purple
chr10:110750810	10	110.7508	0.018986892	Credible Set	purple
chr10:110756900	10	110.7569	0.009763502	Credible Set	purple
chr10:110757011	10	110.7570	0.009763502	Credible Set	purple
chr10:110759826	10	110.7598	0.012864948	Credible Set	purple
chr10:110760381	10	110.7604	0.012864948	Credible Set	purple
chr10:110768547	10	110.7685	0.012864948	Credible Set	purple
chr10:110768747	10	110.7687	0.005028699	Credible Set	purple
chr10:110768762	10	110.7688	0.005028699	Credible Set	purple
chr10:110768830	10	110.7688	0.018986892	Credible Set	purple
chr10:110768858	10	110.7689	0.018986892	Credible Set	purple
chr10:110768862	10	110.7689	0.018986892	Credible Set	purple
chr10:110768863	10	110.7689	0.018986892	Credible Set	purple
chr10:110768865	10	110.7689	0.018986892	Credible Set	purple
chr10:110769342	10	110.7693	0.007884281	Credible Set	purple
chr10:110769400	10	110.7694	0.007884281	Credible Set	purple
chr10:110769437	10	110.7694	0.007884281	Credible Set	purple
chr10:110769467	10	110.7695	0.007884281	Credible Set	purple
chr10:110769523	10	110.7695	0.007884281	Credible Set	purple
chr10:110769585	10	110.7696	0.007884281	Credible Set	purple
chr10:110778078	10	110.7781	0.012864948	Credible Set	purple
chr10:110778106	10	110.7781	0.012864948	Credible Set	purple
chr10:110778366	10	110.7784	0.009763502	Credible Set	purple
chr10:110780233	10	110.7802	0.009763502	Credible Set	purple
chr10:110781079	10	110.7811	0.002759361	Credible Set	purple
chr10:110781085	10	110.7811	0.002759361	Credible Set	purple
chr10:110781088	10	110.7811	0.002759361	Credible Set	purple

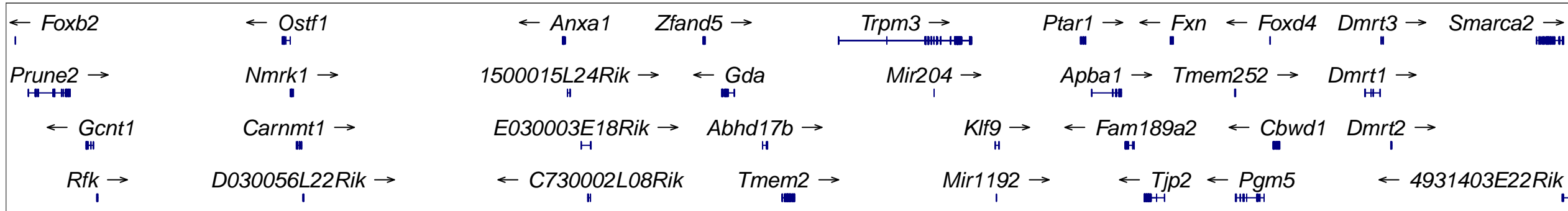
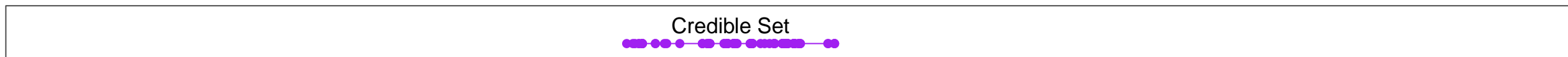
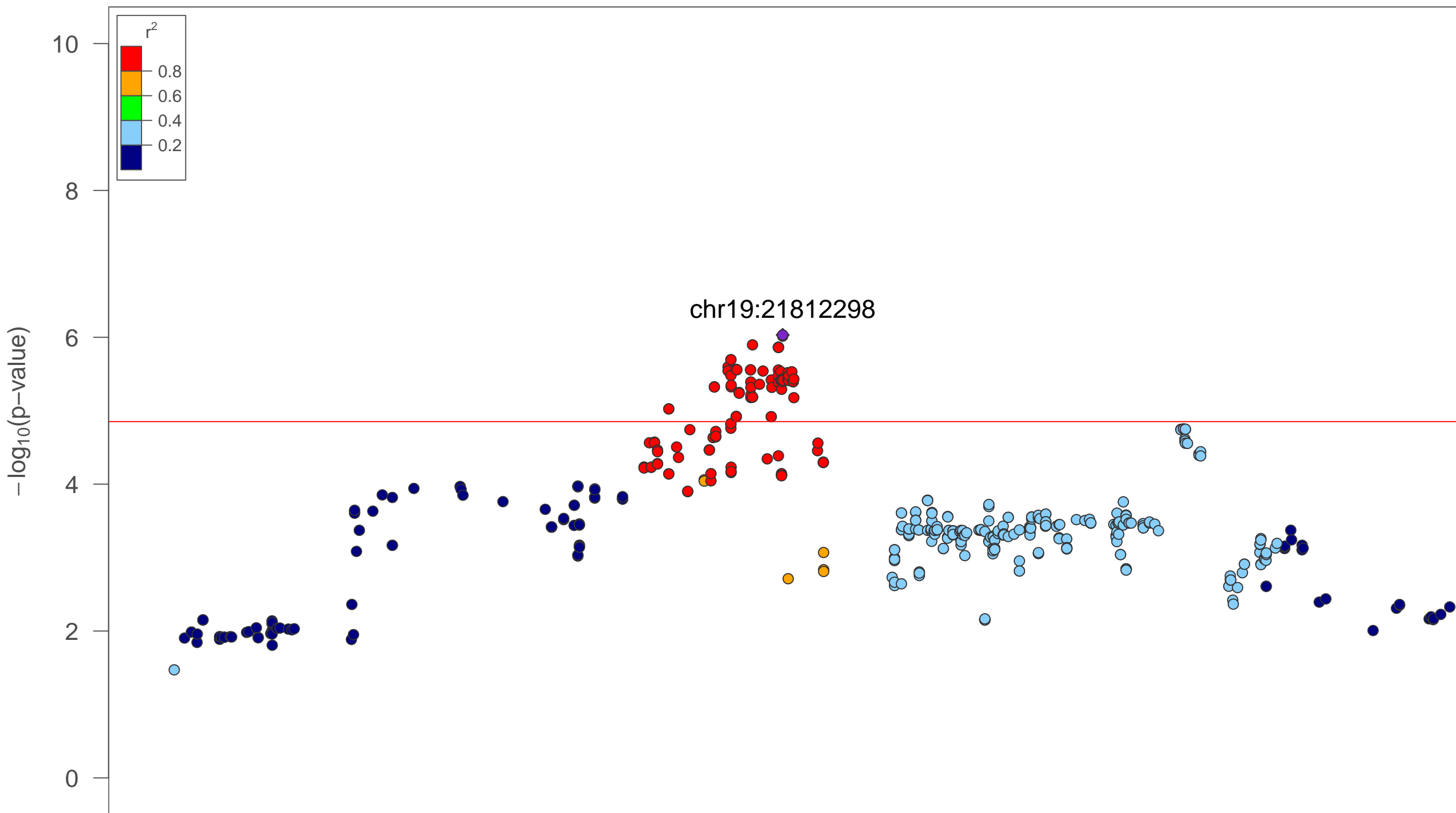
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:110782063	10	110.7821	0.012864948	Credible Set	purple
chr10:110790601	10	110.7906	0.009763502	Credible Set	purple
chr10:110824052	10	110.8241	0.009763502	Credible Set	purple
chr10:110841372	10	110.8414	0.012864948	Credible Set	purple
chr10:110859622	10	110.8596	0.002002545	Credible Set	purple
chr10:110939251	10	110.9393	0.004063067	Credible Set	purple
chr10:110949219	10	110.9492	0.006621538	Credible Set	purple
chr10:110949220	10	110.9492	0.006621538	Credible Set	purple
chr10:110949581	10	110.9496	0.006621538	Credible Set	purple
chr10:110955372	10	110.9554	0.007884281	Credible Set	purple
chr10:110977680	10	110.9777	0.007884281	Credible Set	purple
chr10:111134114	10	111.1341	0.007884281	Credible Set	purple
chr10:111139942	10	111.1399	0.007884281	Credible Set	purple
chr10:111139969	10	111.1400	0.007884281	Credible Set	purple
chr10:111145119	10	111.1451	0.009763502	Credible Set	purple
chr10:111156216	10	111.1562	0.007884281	Credible Set	purple
chr10:111162654	10	111.1627	0.009763502	Credible Set	purple
chr10:111178371	10	111.1784	0.012864948	Credible Set	purple
chr10:111178404	10	111.1784	0.012864948	Credible Set	purple
chr10:111179231	10	111.1792	0.009763502	Credible Set	purple
chr10:111179272	10	111.1793	0.007884281	Credible Set	purple
chr10:111180485	10	111.1805	0.009763502	Credible Set	purple
chr10:111180489	10	111.1805	0.009763502	Credible Set	purple
chr10:111196665	10	111.1967	0.009763502	Credible Set	purple
chr10:111196850	10	111.1968	0.002202789	Credible Set	purple
chr10:111196872	10	111.1969	0.002202789	Credible Set	purple
chr10:111201273	10	111.2013	0.002759361	Credible Set	purple
chr10:111223748	10	111.2237	0.005713580	Credible Set	purple
chr10:111234804	10	111.2348	0.006621538	Credible Set	purple
chr10:111267516	10	111.2675	0.009763502	Credible Set	purple
chr10:111274460	10	111.2745	0.036976812	Credible Set	purple
chr10:111274480	10	111.2745	0.036976812	Credible Set	purple
chr10:111347458	10	111.3475	0.009763502	Credible Set	purple
chr10:111348661	10	111.3487	0.009763502	Credible Set	purple
chr10:111348802	10	111.3488	0.012864948	Credible Set	purple
chr10:111354708	10	111.3547	0.006621538	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:111363662	10	111.3637	0.002947014	Credible Set	purple
chr10:111363665	10	111.3637	0.002097769	Credible Set	purple
chr10:111391890	10	111.3919	0.001696378	Credible Set	purple
chr10:111391901	10	111.3919	0.001576646	Credible Set	purple
chr10:111391954	10	111.3920	0.001763555	Credible Set	purple
chr10:111391955	10	111.3920	0.001634260	Credible Set	purple
chr10:111392557	10	111.3926	0.005028699	Credible Set	purple
chr10:111470144	10	111.4701	0.012864948	Credible Set	purple
chr10:111471816	10	111.4718	0.012864948	Credible Set	purple
chr10:111471933	10	111.4719	0.009763502	Credible Set	purple
chr10:111490761	10	111.4908	0.006621538	Credible Set	purple
chr10:111494112	10	111.4941	0.007884281	Credible Set	purple
chr10:111512151	10	111.5122	0.004493315	Credible Set	purple
chr10:111515685	10	111.5157	0.003162889	Credible Set	purple
chr10:111516056	10	111.5161	0.004063067	Credible Set	purple
chr10:111516061	10	111.5161	0.006621538	Credible Set	purple
chr10:111522846	10	111.5228	0.005028699	Credible Set	purple
chr10:111529740	10	111.5297	0.005028699	Credible Set	purple
chr10:111529759	10	111.5298	0.004493315	Credible Set	purple
chr10:111530393	10	111.5304	0.002759361	Credible Set	purple
chr10:111530397	10	111.5304	0.001836439	Credible Set	purple
chr10:111583278	10	111.5833	0.001696378	Credible Set	purple
chr10:111598785	10	111.5988	0.001634260	Credible Set	purple
chr10:111648540	10	111.6485	0.004493315	Credible Set	purple
chr10:111648550	10	111.6486	0.004063067	Credible Set	purple
chr10:111648631	10	111.6486	0.004493315	Credible Set	purple
chr10:111658438	10	111.6584	0.002947014	Credible Set	purple
chr10:111658509	10	111.6585	0.002947014	Credible Set	purple
chr10:111681517	10	111.6815	0.002759361	Credible Set	purple

F34 GBS, locomotor test day 1, total distance travelled in 30min (cm)



17 genes
omitted

date: Thu Oct 25 17:18:38 2018

build: F34GBS

display range: chr19:16812298–26812298 [16812298–26812298]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21812298

number of SNPs plotted: 470

min P-value: 9.28E–7 [chr19:21812298]

max P-value: 3.38E–2 [chr19:17299794]

omitted Genes: Pcsk5, Trpm6, Rorb

omitted Genes: Aldh1a1, Aldh1a7, Tmc1

omitted Genes: 4930554I06Rik, 1110059E24Rik, Smc5

omitted Genes: Mamdc2, 1700028P14Rik, Pip5k1b

omitted Genes: Fam122a, Mir3084–1, Dock8

omitted Genes: Kank1, 2610016A17Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20784050	19	20.78405	0.0008587211	Credible Set	purple
chr19:20824062	19	20.82406	0.0017655107	Credible Set	purple
chr19:20837342	19	20.83734	0.0008561549	Credible Set	purple
chr19:20861811	19	20.86181	0.0018014019	Credible Set	purple
chr19:20861821	19	20.86182	0.0017659141	Credible Set	purple
chr19:20883962	19	20.88396	0.0014211894	Credible Set	purple
chr19:20883975	19	20.88397	0.0009496508	Credible Set	purple
chr19:20883979	19	20.88398	0.0009455779	Credible Set	purple
chr19:20883980	19	20.88398	0.0009370136	Credible Set	purple
chr19:20884530	19	20.88453	0.0013534603	Credible Set	purple
chr19:20967742	19	20.96774	0.0048736412	Credible Set	purple
chr19:20967772	19	20.96777	0.0048533035	Credible Set	purple
chr19:21025668	19	21.02567	0.0015582333	Credible Set	purple
chr19:21039744	19	21.03974	0.0011401914	Credible Set	purple
chr19:21123769	19	21.12377	0.0026108852	Credible Set	purple
chr19:21268525	19	21.26853	0.0014308116	Credible Set	purple
chr19:21268527	19	21.26853	0.0014252921	Credible Set	purple
chr19:21268550	19	21.26855	0.0014190158	Credible Set	purple
chr19:21296098	19	21.29610	0.0020623460	Credible Set	purple
chr19:21305518	19	21.30552	0.0094436402	Credible Set	purple
chr19:21305568	19	21.30557	0.0093562265	Credible Set	purple
chr19:21316234	19	21.31623	0.0024741063	Credible Set	purple
chr19:21316268	19	21.31627	0.0021044591	Credible Set	purple
chr19:21316305	19	21.31630	0.0021457242	Credible Set	purple
chr19:21407108	19	21.40711	0.0171734453	Credible Set	purple
chr19:21407182	19	21.40718	0.0152564050	Credible Set	purple
chr19:21427800	19	21.42780	0.0030720723	Credible Set	purple
chr19:21427805	19	21.42780	0.0027222168	Credible Set	purple
chr19:21427851	19	21.42785	0.0031403069	Credible Set	purple
chr19:21428151	19	21.42815	0.0132728482	Credible Set	purple
chr19:21428338	19	21.42834	0.0213259592	Credible Set	purple
chr19:21428343	19	21.42834	0.0213259592	Credible Set	purple
chr19:21429788	19	21.42979	0.0008550118	Credible Set	purple
chr19:21430361	19	21.43036	0.0094097845	Credible Set	purple
chr19:21430412	19	21.43041	0.0099109711	Credible Set	purple
chr19:21467882	19	21.46788	0.0159382825	Credible Set	purple

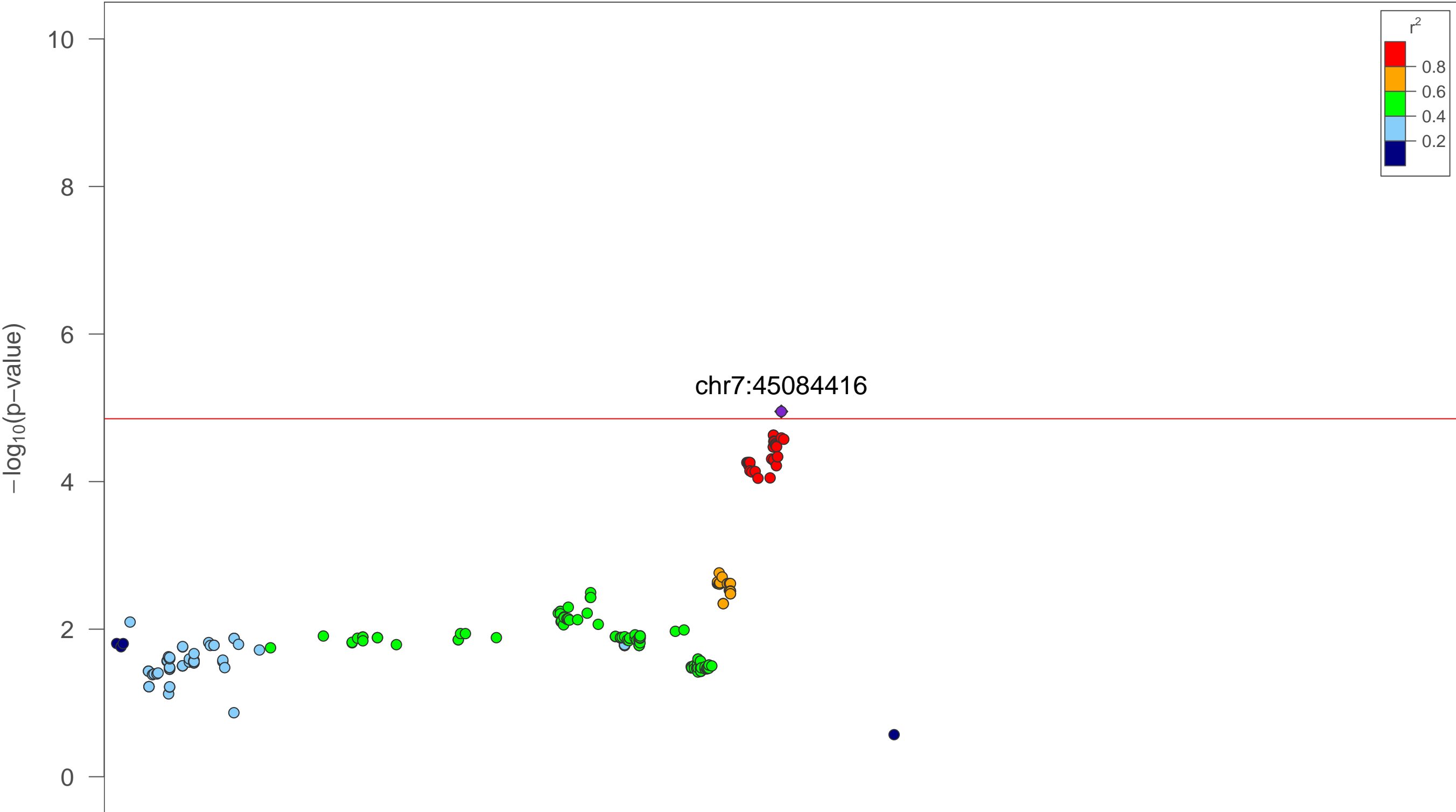
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21467967	19	21.46797	0.003887071	Credible Set	purple
chr19:21467982	19	21.46798	0.003853277	Credible Set	purple
chr19:21467985	19	21.46798	0.003853277	Credible Set	purple
chr19:21467987	19	21.46799	0.003870160	Credible Set	purple
chr19:21472509	19	21.47251	0.015775053	Credible Set	purple
chr19:21472526	19	21.47253	0.015757697	Credible Set	purple
chr19:21489550	19	21.48955	0.007955430	Credible Set	purple
chr19:21489579	19	21.48958	0.007779354	Credible Set	purple
chr19:21574198	19	21.57420	0.015685100	Credible Set	purple
chr19:21574202	19	21.57420	0.015732871	Credible Set	purple
chr19:21575782	19	21.57578	0.010901563	Credible Set	purple
chr19:21576364	19	21.57636	0.006832973	Credible Set	purple
chr19:21576365	19	21.57636	0.007386746	Credible Set	purple
chr19:21576374	19	21.57637	0.009238239	Credible Set	purple
chr19:21588462	19	21.58846	0.006909232	Credible Set	purple
chr19:21588470	19	21.58847	0.006924589	Credible Set	purple
chr19:21588527	19	21.58853	0.006942255	Credible Set	purple
chr19:21588528	19	21.58853	0.006918987	Credible Set	purple
chr19:21588608	19	21.58861	0.033350689	Credible Set	purple
chr19:21640403	19	21.64040	0.010165871	Credible Set	purple
chr19:21666239	19	21.66624	0.015151776	Credible Set	purple
chr19:21697884	19	21.69788	0.001094068	Credible Set	purple
chr19:21727318	19	21.72732	0.003848370	Credible Set	purple
chr19:21727391	19	21.72739	0.003854631	Credible Set	purple
chr19:21727561	19	21.72756	0.011584296	Credible Set	purple
chr19:21731633	19	21.73163	0.009265556	Credible Set	purple
chr19:21780788	19	21.78079	0.010764350	Credible Set	purple
chr19:21780850	19	21.78085	0.001196689	Credible Set	purple
chr19:21780922	19	21.78092	0.030986314	Credible Set	purple
chr19:21780928	19	21.78093	0.031077481	Credible Set	purple
chr19:21780934	19	21.78093	0.030806278	Credible Set	purple
chr19:21780935	19	21.78093	0.030806278	Credible Set	purple
chr19:21781005	19	21.78101	0.015642938	Credible Set	purple
chr19:21781019	19	21.78102	0.013330150	Credible Set	purple
chr19:21798450	19	21.79845	0.011441822	Credible Set	purple
chr19:21798541	19	21.79854	0.014854567	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21804356	19	21.80436	0.0087403512	Credible Set	purple
chr19:21804420	19	21.80442	0.0117742911	Credible Set	purple
chr19:21804582	19	21.80458	0.0117204809	Credible Set	purple
chr19:21812258	19	21.81226	0.0434339587	Credible Set	purple
chr19:21812298	19	21.81230	0.0449686000	Credible Set	purple
chr19:21812594	19	21.81259	0.0110246233	Credible Set	purple
chr19:21814790	19	21.81479	0.0115665461	Credible Set	purple
chr19:21814806	19	21.81481	0.0114621002	Credible Set	purple
chr19:21851795	19	21.85179	0.0135232085	Credible Set	purple
chr19:21852236	19	21.85224	0.0115893310	Credible Set	purple
chr19:21852273	19	21.85227	0.0120023002	Credible Set	purple
chr19:21852296	19	21.85230	0.0144371770	Credible Set	purple
chr19:21857059	19	21.85706	0.0121634027	Credible Set	purple
chr19:21857128	19	21.85713	0.0113823313	Credible Set	purple
chr19:21857704	19	21.85770	0.0133088652	Credible Set	purple
chr19:21857707	19	21.85771	0.0132335871	Credible Set	purple
chr19:21880097	19	21.88010	0.0148329875	Credible Set	purple
chr19:21889764	19	21.88976	0.0110209332	Credible Set	purple
chr19:21889768	19	21.88977	0.0109843231	Credible Set	purple
chr19:21889777	19	21.88978	0.0110209332	Credible Set	purple
chr19:21889831	19	21.88983	0.0110592602	Credible Set	purple
chr19:21889832	19	21.88983	0.0111010108	Credible Set	purple
chr19:21889838	19	21.88984	0.0110536282	Credible Set	purple
chr19:21895163	19	21.89516	0.0068073283	Credible Set	purple
chr19:21895174	19	21.89517	0.0119227998	Credible Set	purple
chr19:22070939	19	22.07094	0.0013942169	Credible Set	purple
chr19:22073618	19	22.07362	0.0017512896	Credible Set	purple
chr19:22113626	19	22.11363	0.0009951584	Credible Set	purple
chr19:22113628	19	22.11363	0.0009812304	Credible Set	purple
chr19:22113687	19	22.11369	0.0009817933	Credible Set	purple

F34 GBS, locomotor test day 2, total distance travelled in 30min (cm)



Credible Set

4933402C06Rik → ← Vmn2r58 ← Vmn2r62 ← Cd33 Klk1b3 → Il4i1 → Ntf5 → Nomo1 → ← Saa1 ← Mrgpra3 ← Mrgprb1 Nav2 →
← A230077H06Rik ← Vmn2r59 ← Vmn2r63 Ctu1 → ← Acpt ← Atf5 Hrc → ← Emp3 ← Tph1 ← Mrgpra2a Mrgprb8 → ← Dbx1
Vstm2b → Vmn2r60 → Gm9268 → Klk12 → Syt3 → Ifr3 → Bcat2 → Otog → Ldhc → ← Mrgpra4 ← Csrp3 Htatip2 →
4930433I11Rik → Vmn2r61 → Zfp936 → Klk6 → Lrrc4b → ← Fcgrt Ntn5 → Munc → ← Ptpn5 ← Mrgprx1 ← E2f8 Prmt3 →

199 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:18:53 2018

build: F34GBS

display range: chr7:40084416–50084416 [40084416–50084416]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:45084416

number of SNPs plotted: 225

min P-value: 1.12E–5 [chr7:45084416]

max P-value: 2.69E–1 [chr7:45917340]

omitted Genes: Gm4884, 1700110I07Rik, Gm5592

omitted Genes: AI987944, Vmn2r57, AW146154

omitted Genes: Zfp788, Vmn2r-ps54, Vmn2r-ps60

omitted Genes: 4933421I07Rik, Zfp141, 9830147E19Rik

omitted Genes: Gm5595, Gm2381, EU599041

omitted Genes: Zfp715, Siglecf, Siglecg

omitted Genes: Lim2, Nkg7, Cldnd2

omitted Genes: Etfb, Mir7051, Vsig10l

omitted Genes: Iglon5, 4931406B18Rik, Zfp658

omitted Genes: Zfp719, Zfp819, Ceacam18

omitted Genes: Siglece, Klk14, Klk13

omitted Genes: 2310002F09Rik, Klk11, Klk10

omitted Genes: Klk9, Klk8, Klk7

omitted Genes: Klk5, Klk4, Klk15

omitted Genes: Klk1b7-ps, Klk1b8, Klk1b1

omitted Genes: Klk1b9, Klk1b11, Klk1b26

omitted Genes: Klk1b27, Klk1b21, Klk1b22

omitted Genes: Klk1b16, Klk1b24, Klk1b4

omitted Genes: Klk1b5, Klk1, 1700028J19Rik

omitted Genes: 2410002F23Rik, Snord88c, Snord88a

omitted Genes: Clec11a, Shank1, 1700008O03Rik

omitted Genes: Aspdh, Josd2, Mir7052

omitted Genes: 5430431A17Rik, Emc10, Fam71e1

omitted Genes: Mybpc2, Spib, Pold1

omitted Genes: Mir7053, Nr1h2, Napsa

omitted Genes: Kcnc3, Myh14, Izumo2

omitted Genes: Zfp473, Vrk3, Nup62

omitted Genes: Gm21948, Tbc1d17, Akt1s1

omitted Genes: Mir707, Pnkp, Ptov1

omitted Genes: Med25, Fuz, Ap2a1

omitted Genes: Tsks, Cpt1c, Prrm1

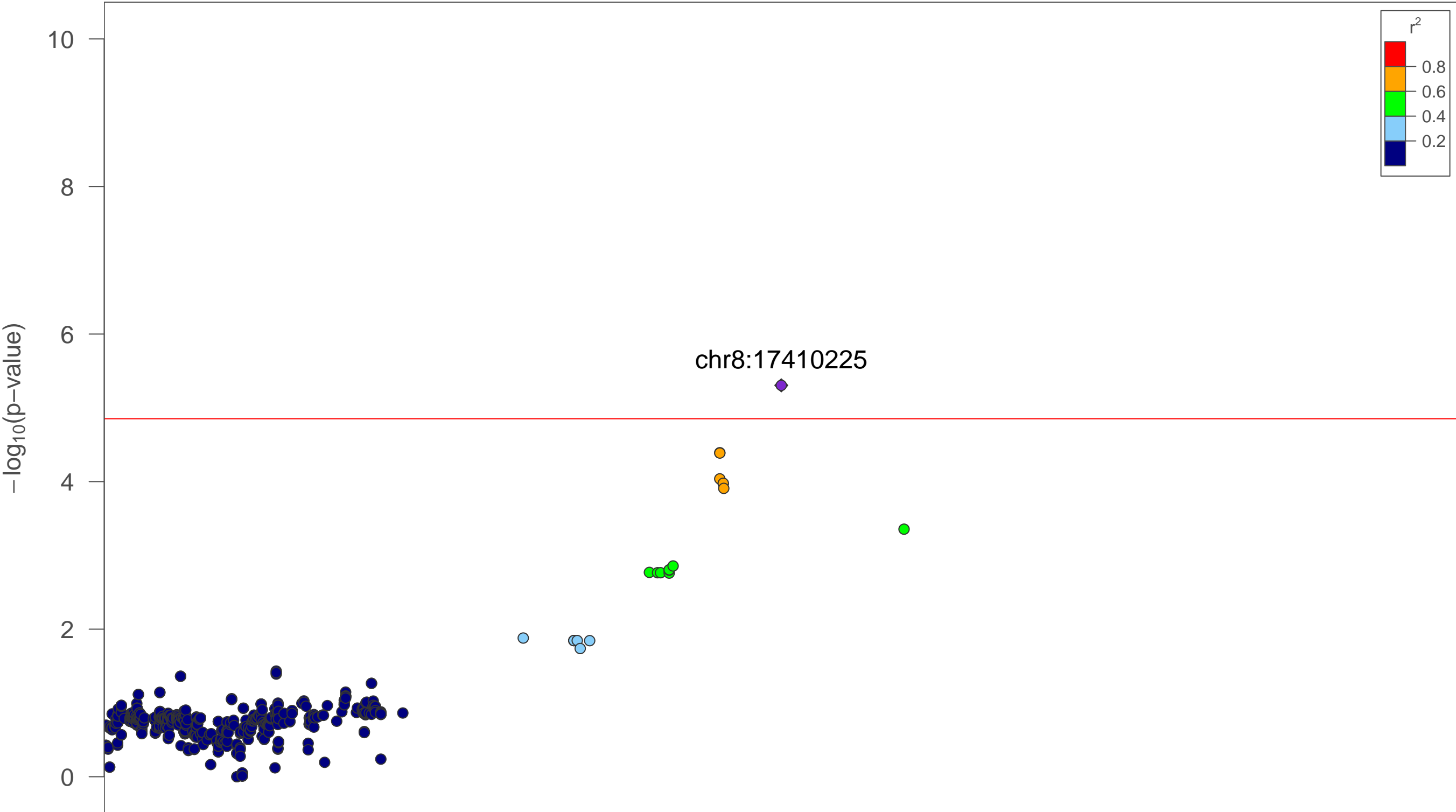
omitted Genes: Gm15545, Rpl2l12, Scf1

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

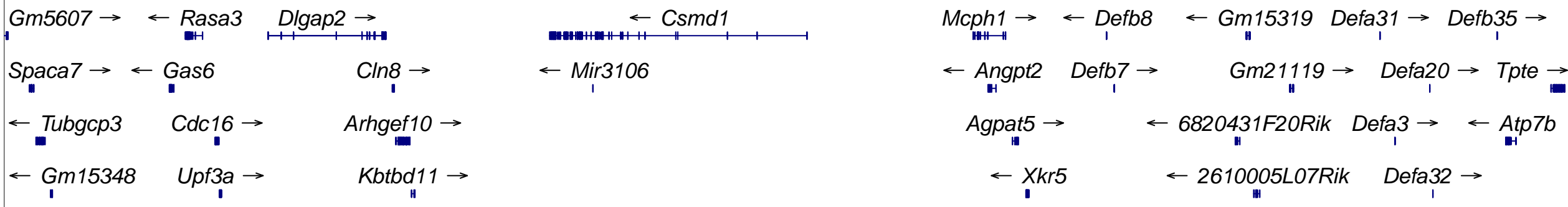
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:44829933	7	44.82993	0.02073332	Credible Set	purple
chr7:44839966	7	44.83997	0.02069526	Credible Set	purple
chr7:44844016	7	44.84402	0.02073662	Credible Set	purple
chr7:44844285	7	44.84428	0.01890285	Credible Set	purple
chr7:44844322	7	44.84432	0.02073662	Credible Set	purple
chr7:44851630	7	44.85163	0.01976668	Credible Set	purple
chr7:44852639	7	44.85264	0.02076204	Credible Set	purple
chr7:44852965	7	44.85296	0.01619501	Credible Set	purple
chr7:44866590	7	44.86659	0.01570153	Credible Set	purple
chr7:44891663	7	44.89166	0.01589941	Credible Set	purple
chr7:44912209	7	44.91221	0.01302882	Credible Set	purple
chr7:45001761	7	45.00176	0.01316522	Credible Set	purple
chr7:45012901	7	45.01290	0.02304829	Credible Set	purple
chr7:45025410	7	45.02541	0.03286698	Credible Set	purple
chr7:45025443	7	45.02544	0.03289392	Credible Set	purple
chr7:45026544	7	45.02654	0.04672684	Credible Set	purple
chr7:45026548	7	45.02655	0.04655413	Credible Set	purple
chr7:45029371	7	45.02937	0.03831053	Credible Set	purple
chr7:45029402	7	45.02940	0.02185794	Credible Set	purple
chr7:45029407	7	45.02941	0.02234440	Credible Set	purple
chr7:45029413	7	45.02941	0.02251314	Credible Set	purple
chr7:45029777	7	45.02978	0.03912933	Credible Set	purple
chr7:45033529	7	45.03353	0.03831053	Credible Set	purple
chr7:45041503	7	45.04150	0.03493138	Credible Set	purple
chr7:45041522	7	45.04152	0.03623031	Credible Set	purple
chr7:45041933	7	45.04193	0.03478022	Credible Set	purple
chr7:45047834	7	45.04783	0.03364742	Credible Set	purple
chr7:45047913	7	45.04791	0.01884979	Credible Set	purple
chr7:45049496	7	45.04950	0.03310522	Credible Set	purple
chr7:45057062	7	45.05706	0.02453473	Credible Set	purple
chr7:45057083	7	45.05708	0.02459962	Credible Set	purple
chr7:45084416	7	45.08442	0.09421839	Credible Set	purple
chr7:45084764	7	45.08476	0.04295456	Credible Set	purple
chr7:45102598	7	45.10260	0.04126896	Credible Set	purple

F34 GBS, locomotor test day 2, total distance travelled in 30min (cm)



Credible Set



96 genes
omitted

date: Thu Oct 25 17:19:03 2018

build: F34GBS

display range: chr8:12410225–22410225 [12410225–22410225]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:17410225

number of SNPs plotted: 596

min P-value: 4.96E–6 [chr8:17410225]

max P-value: 9.99E–1 [chr8:13390417]

omitted Genes: Atp11a, Gm15350, Mcf2l

omitted Genes: Gm38671, F7, F10

omitted Genes: Proz, Pcid2, Cul4a

omitted Genes: Mir7065, Lamp1, Grtp1

omitted Genes: Mir1968, Adprhl1, Dcun1d2

omitted Genes: Tmco3, Tfdp1, Atp4b

omitted Genes: Grk1, Tmem255b, 1700029H14Rik

omitted Genes: 4932443I19Rik, AF366264, Champ1

omitted Genes: Coprs, Fbxo25, Tdrp

omitted Genes: Gm5907, Erich1, BB014433

omitted Genes: Myom2, Defb40, Defb37

omitted Genes: Defb38, Defb39, Defb12

omitted Genes: Defb34, Spag11b, Spag11a

omitted Genes: Defb14, Defb4, Defa-ps12

omitted Genes: Defb6, Defb46, Defb5

omitted Genes: Defb3, Defa-ps13, 4930467E23Rik

omitted Genes: Gm21944, Defb33, Gm15056

omitted Genes: Gm6040, AY761185, Defa21

omitted Genes: Defa23, Defa35, Defa25

omitted Genes: Gm14851, Defa30, Defa22

omitted Genes: Gm15293, Gm15292, Defa5

omitted Genes: Defa27, Defa29, Defa2

omitted Genes: Defa33, Defa36, Gm7849

omitted Genes: Defa37, Defa28, Gm7861

omitted Genes: Defa26, Defa17, Defa34

omitted Genes: Defa-ps1, AY761184, Defa24

omitted Genes: Defb1, Defb50, Defb2

omitted Genes: Defb10, Defb9, Defb11

omitted Genes: Defb15, Defb13, Fam90a1a

omitted Genes: Ccdc70, Alg11, Nek5

omitted Genes: Nek3, Ckap2, Vps36

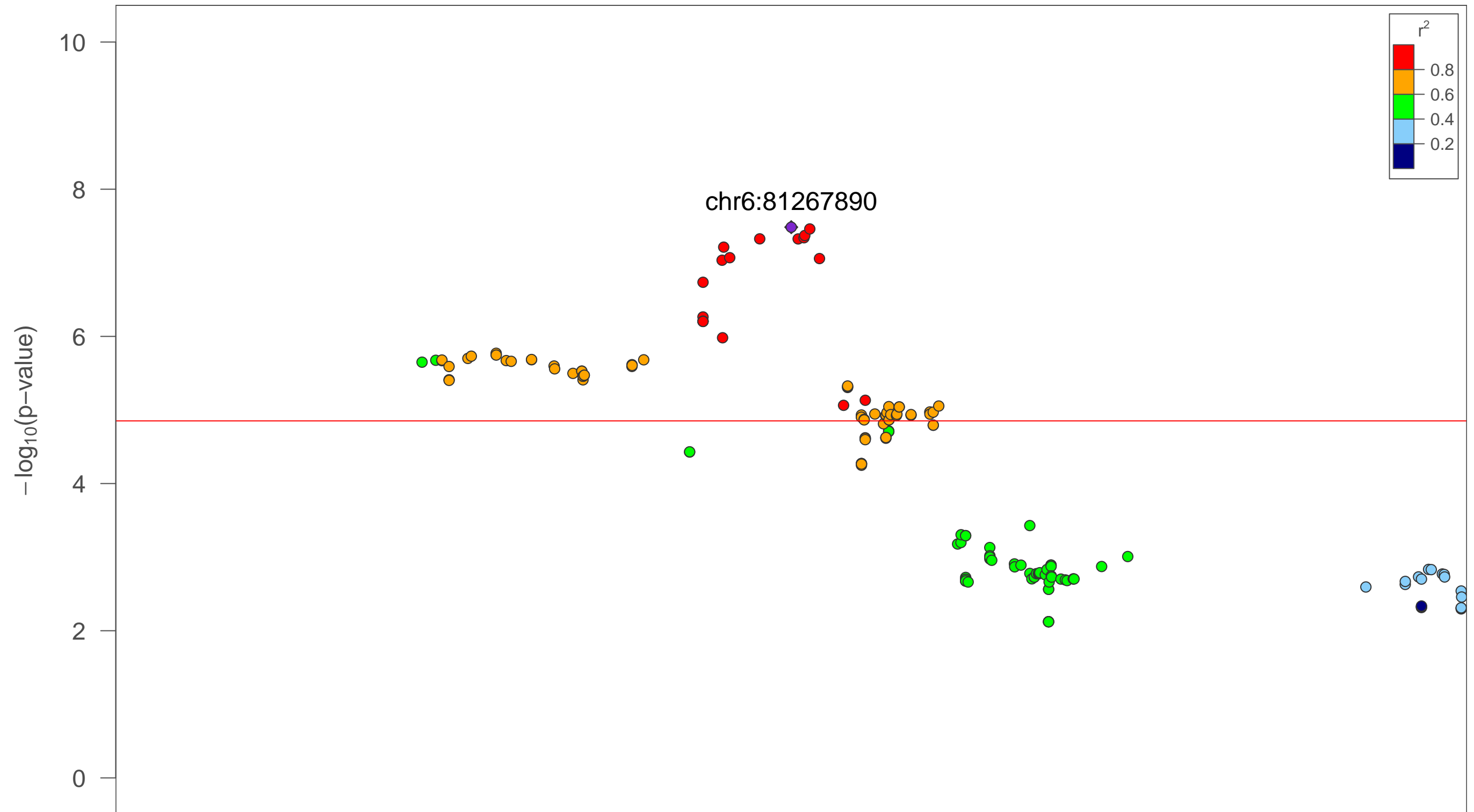
omitted Genes: Thcd1, Slc25a15, 1810012K16Rik

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:17410225	8	17.41023	1	Credible Set	purple

F34 GBS, quadriceps femoris muscle weight (mg)



Credible Set



67 genes
omitted

78

80

82

84

86

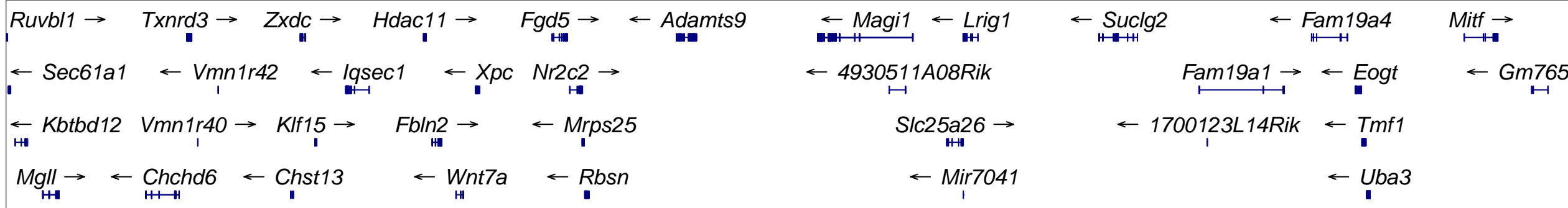
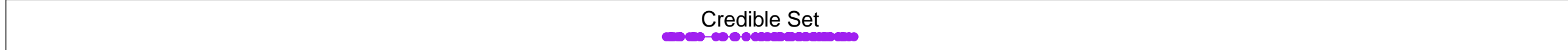
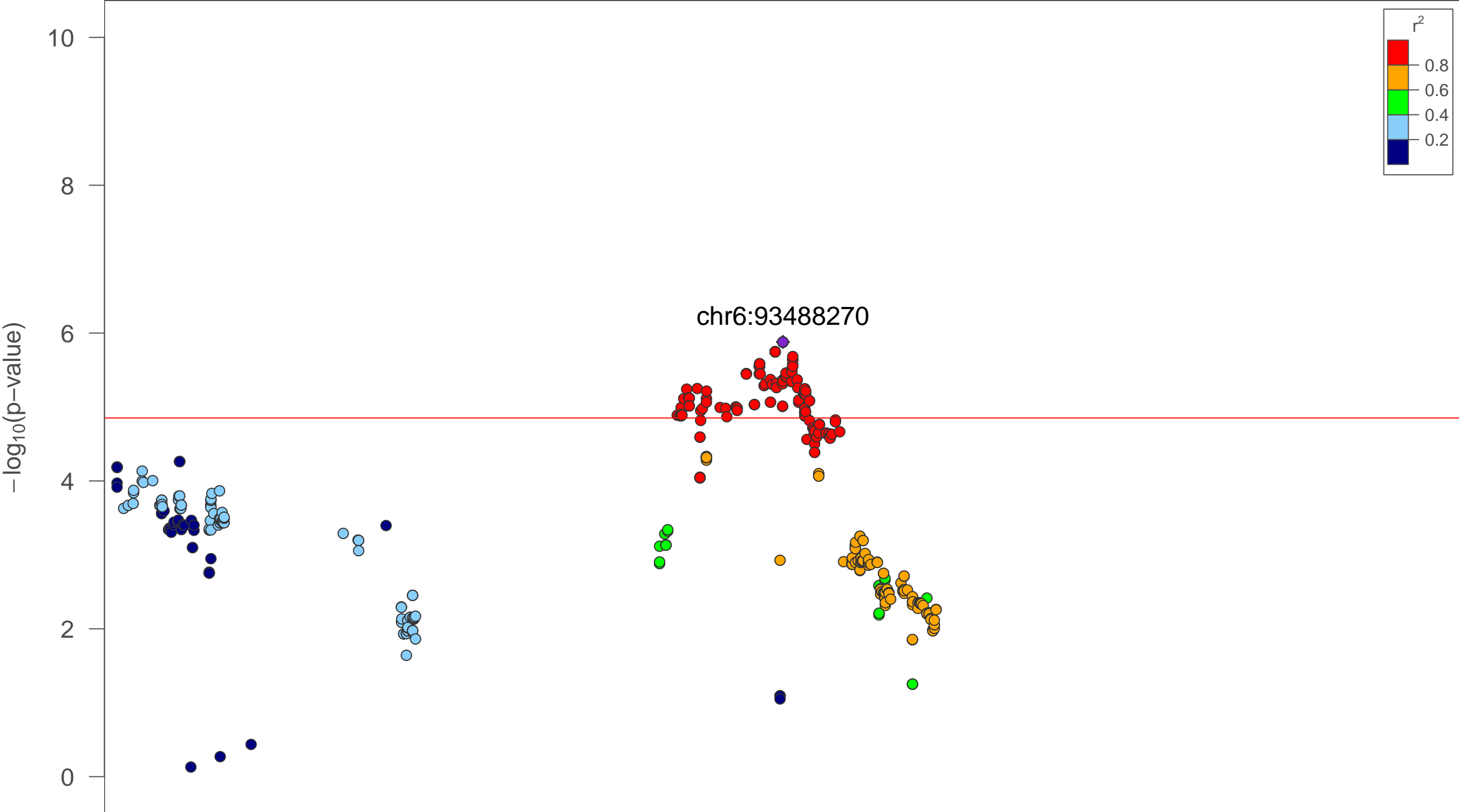
Position on chr6 (Mb)

date: Thu Oct 25 17:19:28 2018
build: F34GBS
display range: chr6:76267890–86267890 [76267890–86267890]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:81267890
number of SNPs plotted: 166
min P-value: 3.28E–8 [chr6:81267890]
max P-value: 7.57E–3 [chr6:83172373]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Alms1, Nat8f7, Mir6375
omitted Genes: Alms1-ps2, Nat8f6, Nat8f5
omitted Genes: Nat8, Nat8f2, Nat8f4
omitted Genes: Nat8f1, Dusp11, Add2
omitted Genes: Tgfa

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80614710	6	80.61471	0.009415797	Credible Set	purple
chr6:80614725	6	80.61473	0.008218335	Credible Set	purple
chr6:80614740	6	80.61474	0.008298367	Credible Set	purple
chr6:80614750	6	80.61475	0.008218335	Credible Set	purple
chr6:80614907	6	80.61491	0.026822237	Credible Set	purple
chr6:80755939	6	80.75594	0.052295576	Credible Set	purple
chr6:80767933	6	80.76793	0.077712822	Credible Set	purple
chr6:80812582	6	80.81258	0.056469459	Credible Set	purple
chr6:81034488	6	81.03449	0.099977371	Credible Set	purple
chr6:81267890	6	81.26789	0.142429680	Credible Set	purple
chr6:81318989	6	81.31899	0.099719868	Credible Set	purple
chr6:81362217	6	81.36222	0.103292735	Credible Set	purple
chr6:81368112	6	81.36811	0.110689845	Credible Set	purple
chr6:81405109	6	81.40511	0.134991257	Credible Set	purple
chr6:81476902	6	81.47690	0.054991179	Credible Set	purple

F34 GBS, quadriceps femoris muscle weight (mg)



48 genes
omitted

Position on chr6 (Mb)

date: Thu Oct 25 17:19:37 2018
build: F34GBS
display range: chr6:88488270–98488270 [88488270–98488270]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:93488270
number of SNPs plotted: 407
min P-value: 1.32E–6 [chr6:93488270]
max P-value: 7.41E–1 [chr6:89125612]
omitted Genes: Abtb1, Podxl2, Gm15612
omitted Genes: Mcm2, Tpra1, 4933427D06Rik
omitted Genes: Gm1965, Gm839, 4930512J16Rik
omitted Genes: Plxna1, Vmn1r41, Vmn1r43
omitted Genes: Vmn1r44, Vmn1r45, Vmn1r46
omitted Genes: Vmn1r47, Vmn1r48, Vmn1r49
omitted Genes: Vmn1r50, Vmn1r51, Vmn1r52
omitted Genes: V1ra8, Vmn1r53, Vmn1r54
omitted Genes: BC048671, Uroc1, Cfap100
omitted Genes: Aldh1l1, Slc41a3, Nup210
omitted Genes: 4930471M09Rik, 1810044D09Rik, Chchd4
omitted Genes: Tmem43, Lsm3, Slc6a6
omitted Genes: Grip2, Ccdc174, 4930590J08Rik
omitted Genes: Trh, Prickle2, 9530026P05Rik
omitted Genes: 4930511E03Rik, Kbtbd8, AY512915
omitted Genes: Arl6ip5, Lmod3, Frmd4b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:92709583	6	92.70958	0.003651370	Credible Set	purple
chr6:92727807	6	92.72781	0.003592184	Credible Set	purple
chr6:92738290	6	92.73829	0.004579701	Credible Set	purple
chr6:92738574	6	92.73857	0.003748828	Credible Set	purple
chr6:92738612	6	92.73861	0.003572039	Credible Set	purple
chr6:92744636	6	92.74464	0.003644646	Credible Set	purple
chr6:92757091	6	92.75709	0.005968885	Credible Set	purple
chr6:92779233	6	92.77923	0.007931589	Credible Set	purple
chr6:92794752	6	92.79475	0.006126065	Credible Set	purple
chr6:92798221	6	92.79822	0.006060561	Credible Set	purple
chr6:92798236	6	92.79824	0.006060561	Credible Set	purple
chr6:92798407	6	92.79841	0.004834126	Credible Set	purple
chr6:92798441	6	92.79844	0.004803612	Credible Set	purple
chr6:92857145	6	92.85715	0.008072631	Credible Set	purple
chr6:92877050	6	92.87705	0.001897090	Credible Set	purple
chr6:92877107	6	92.87711	0.001912643	Credible Set	purple
chr6:92882118	6	92.88212	0.003122060	Credible Set	purple
chr6:92882395	6	92.88240	0.004168587	Credible Set	purple
chr6:92894714	6	92.89471	0.004447249	Credible Set	purple
chr6:92924648	6	92.92465	0.006008710	Credible Set	purple
chr6:92924684	6	92.92468	0.005369544	Credible Set	purple
chr6:92925230	6	92.92523	0.007483354	Credible Set	purple
chr6:93025394	6	93.02539	0.004592582	Credible Set	purple
chr6:93065645	6	93.06565	0.004487367	Credible Set	purple
chr6:93074839	6	93.07484	0.003487255	Credible Set	purple
chr6:93141109	6	93.14111	0.004673172	Credible Set	purple
chr6:93150410	6	93.15041	0.004505086	Credible Set	purple
chr6:93150661	6	93.15066	0.004538087	Credible Set	purple
chr6:93150825	6	93.15082	0.004210537	Credible Set	purple
chr6:93150870	6	93.15087	0.004219324	Credible Set	purple
chr6:93218675	6	93.21868	0.012614793	Credible Set	purple
chr6:93218685	6	93.21868	0.012615602	Credible Set	purple
chr6:93218689	6	93.21869	0.012408312	Credible Set	purple
chr6:93278268	6	93.27827	0.005004540	Credible Set	purple
chr6:93278280	6	93.27828	0.005004540	Credible Set	purple
chr6:93278290	6	93.27829	0.005004540	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:93313781	6	93.31378	0.012508707	Credible Set	purple
chr6:93313998	6	93.31400	0.015701627	Credible Set	purple
chr6:93314001	6	93.31400	0.015749337	Credible Set	purple
chr6:93316695	6	93.31669	0.016994413	Credible Set	purple
chr6:93316707	6	93.31671	0.015605240	Credible Set	purple
chr6:93316769	6	93.31677	0.016935319	Credible Set	purple
chr6:93321239	6	93.32124	0.012427973	Credible Set	purple
chr6:93349184	6	93.34918	0.008792167	Credible Set	purple
chr6:93358542	6	93.35854	0.009266523	Credible Set	purple
chr6:93396517	6	93.39652	0.005376651	Credible Set	purple
chr6:93396531	6	93.39653	0.005376651	Credible Set	purple
chr6:93396614	6	93.39661	0.010572450	Credible Set	purple
chr6:93410238	6	93.41024	0.009119871	Credible Set	purple
chr6:93431052	6	93.43105	0.024395752	Credible Set	purple
chr6:93431078	6	93.43108	0.024135995	Credible Set	purple
chr6:93431080	6	93.43108	0.024135995	Credible Set	purple
chr6:93431081	6	93.43108	0.024135995	Credible Set	purple
chr6:93431095	6	93.43109	0.024135995	Credible Set	purple
chr6:93440971	6	93.44097	0.009437307	Credible Set	purple
chr6:93440986	6	93.44099	0.008295711	Credible Set	purple
chr6:93485590	6	93.48559	0.009333079	Credible Set	purple
chr6:93485603	6	93.48560	0.009311901	Credible Set	purple
chr6:93485684	6	93.48568	0.004734015	Credible Set	purple
chr6:93485761	6	93.48576	0.004782209	Credible Set	purple
chr6:93487880	6	93.48788	0.010479311	Credible Set	purple
chr6:93488270	6	93.48827	0.032496395	Credible Set	purple
chr6:93488305	6	93.48830	0.032485504	Credible Set	purple
chr6:93488315	6	93.48832	0.032113205	Credible Set	purple
chr6:93488485	6	93.48848	0.010037475	Credible Set	purple
chr6:93510428	6	93.51043	0.011547964	Credible Set	purple
chr6:93510476	6	93.51048	0.011652741	Credible Set	purple
chr6:93510483	6	93.51048	0.011705898	Credible Set	purple
chr6:93510591	6	93.51059	0.012851228	Credible Set	purple
chr6:93552797	6	93.55280	0.009915162	Credible Set	purple
chr6:93552882	6	93.55288	0.009929088	Credible Set	purple
chr6:93552911	6	93.55291	0.014300970	Credible Set	purple

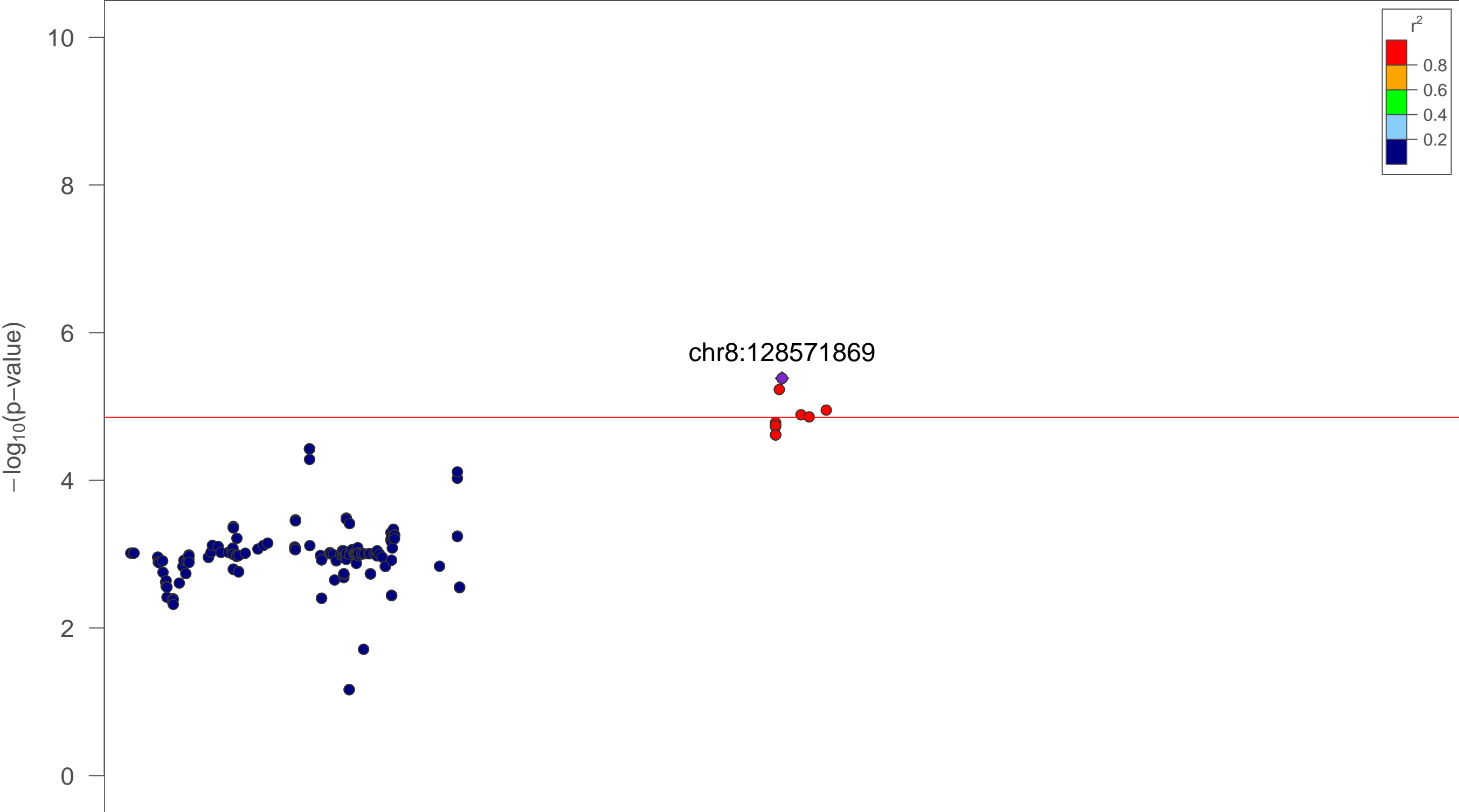
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:93555049	6	93.55505	0.013290510	Credible Set	purple
chr6:93560069	6	93.56007	0.016617122	Credible Set	purple
chr6:93560082	6	93.56008	0.019143733	Credible Set	purple
chr6:93560724	6	93.56072	0.018899195	Credible Set	purple
chr6:93560726	6	93.56073	0.015685733	Credible Set	purple
chr6:93560747	6	93.56075	0.021029916	Credible Set	purple
chr6:93593460	6	93.59346	0.010368451	Credible Set	purple
chr6:93593464	6	93.59346	0.010523745	Credible Set	purple
chr6:93598219	6	93.59822	0.008243905	Credible Set	purple
chr6:93604482	6	93.60448	0.005360362	Credible Set	purple
chr6:93604527	6	93.60453	0.005721503	Credible Set	purple
chr6:93641872	6	93.64187	0.006908577	Credible Set	purple
chr6:93648881	6	93.64888	0.004038566	Credible Set	purple
chr6:93648927	6	93.64893	0.003935323	Credible Set	purple
chr6:93648944	6	93.64894	0.006768429	Credible Set	purple
chr6:93649344	6	93.64934	0.004467091	Credible Set	purple
chr6:93649429	6	93.64943	0.008010358	Credible Set	purple
chr6:93649450	6	93.64945	0.008010358	Credible Set	purple
chr6:93649512	6	93.64951	0.003559046	Credible Set	purple
chr6:93655527	6	93.65553	0.003559189	Credible Set	purple
chr6:93655546	6	93.65555	0.004045917	Credible Set	purple
chr6:93656134	6	93.65613	0.006752322	Credible Set	purple
chr6:93656164	6	93.65616	0.007472931	Credible Set	purple
chr6:93684217	6	93.68422	0.005596328	Credible Set	purple
chr6:93684273	6	93.68427	0.005601768	Credible Set	purple
chr6:93684716	6	93.68472	0.003108959	Credible Set	purple
chr6:93708258	6	93.70826	0.002505461	Credible Set	purple
chr6:93716266	6	93.71627	0.002378404	Credible Set	purple
chr6:93718483	6	93.71848	0.002087457	Credible Set	purple
chr6:93721362	6	93.72136	0.002257798	Credible Set	purple
chr6:93737282	6	93.73728	0.001918222	Credible Set	purple
chr6:93752696	6	93.75270	0.002155863	Credible Set	purple
chr6:93757437	6	93.75744	0.002767976	Credible Set	purple
chr6:93757440	6	93.75744	0.002773412	Credible Set	purple
chr6:93757443	6	93.75744	0.002771953	Credible Set	purple
chr6:93806708	6	93.80671	0.002114076	Credible Set	purple

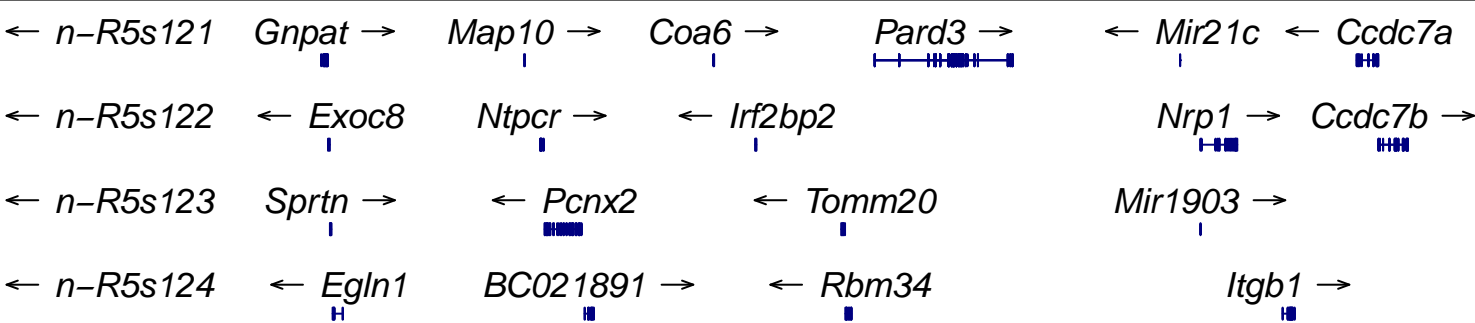
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:93806963	6	93.80696	0.002148832	Credible Set	purple
chr6:93806994	6	93.80699	0.002143401	Credible Set	purple
chr6:93828162	6	93.82816	0.002106132	Credible Set	purple
chr6:93835869	6	93.83587	0.001893876	Credible Set	purple
chr6:93835874	6	93.83587	0.001878328	Credible Set	purple
chr6:93836339	6	93.83634	0.001924572	Credible Set	purple
chr6:93836347	6	93.83635	0.001867839	Credible Set	purple
chr6:93850047	6	93.85005	0.002077286	Credible Set	purple
chr6:93875308	6	93.87531	0.003169621	Credible Set	purple
chr6:93875350	6	93.87535	0.002993688	Credible Set	purple
chr6:93907106	6	93.90711	0.002233728	Credible Set	purple

F34 GBS, quadriceps femoris muscle weight (mg)



Credible Set



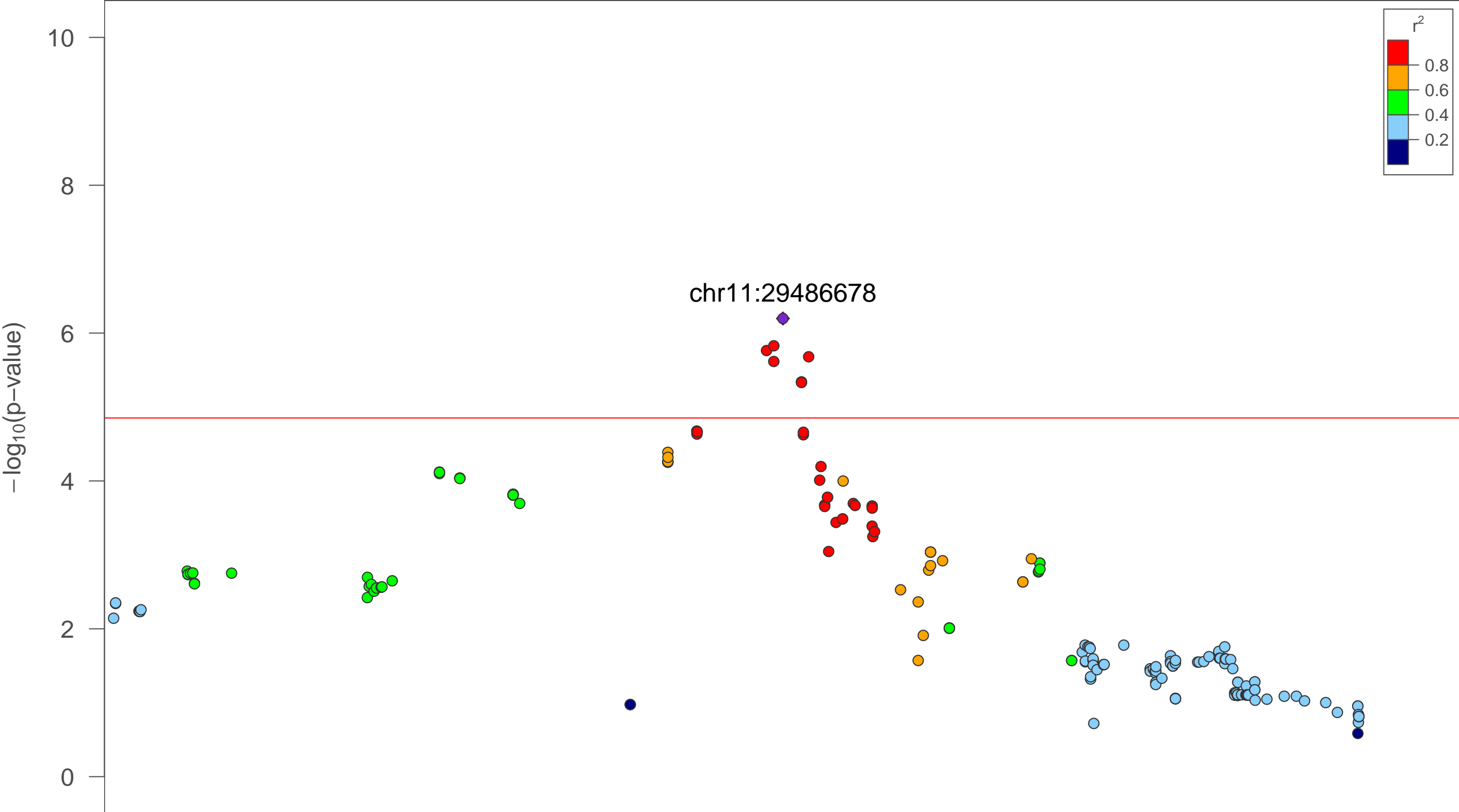
47 genes
omitted

date: Thu Oct 25 17:19:48 2018
build: F34GBS
display range: chr8:123571869–133571869 [123571869–133571869]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr8:128571869
number of SNPs plotted: 191
min P-value: 4.15E–6 [chr8:128571869]
max P-value: 6.86E–2 [chr8:125378859]
omitted Genes: n-R5s128, Gm26391, n-R5s133
omitted Genes: n-R5s134, Rn5s, n-R5s136
omitted Genes: n-R5s138, n-R5s139, Gm22109
omitted Genes: n-R5s141, n-R5s142, n-R5s143
omitted Genes: n-R5s144, Gm25212, n-R5s146
omitted Genes: Gm22291, Gm23284, n-R5s149
omitted Genes: Rhou, 6030466F02Rik, Rab4a
omitted Genes: Ccsap, Acta1, Nup133
omitted Genes: Abcb10, Taf5l, Mir1967
omitted Genes: Urb2, Galnt2, Pgbd5
omitted Genes: Cog2, Agt, Capn9
omitted Genes: 2310022B05Rik, Ttc13, Arv1
omitted Genes: Fam89a, Trim67, 2810004N23Rik
omitted Genes: Tsnax, Disc1, Sipa1l2
omitted Genes: 4930567H12Rik, Kcnk1, Slc35f3
omitted Genes: Gm17296, 2610044O15Rik8

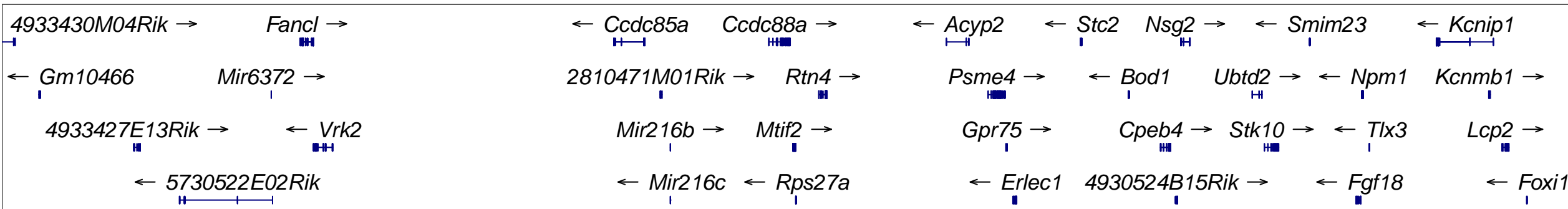
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:128523972	8	128.5240	0.03751086	Credible Set	purple
chr8:128524047	8	128.5240	0.03967617	Credible Set	purple
chr8:128524048	8	128.5240	0.04232385	Credible Set	purple
chr8:128524081	8	128.5241	0.03856074	Credible Set	purple
chr8:128524424	8	128.5244	0.02941370	Credible Set	purple
chr8:128524425	8	128.5244	0.02936529	Credible Set	purple
chr8:128524441	8	128.5244	0.02942450	Credible Set	purple
chr8:128551483	8	128.5515	0.11342310	Credible Set	purple
chr8:128571869	8	128.5719	0.15873044	Credible Set	purple
chr8:128571875	8	128.5719	0.15873044	Credible Set	purple
chr8:128571887	8	128.5719	0.15788269	Credible Set	purple
chr8:128711717	8	128.7117	0.05340323	Credible Set	purple
chr8:128771719	8	128.7717	0.05017147	Credible Set	purple
chr8:128898075	8	128.8981	0.06138352	Credible Set	purple

F34 GBS, quadriceps femoris muscle weight (mg)



Credible Set



34 genes
omitted

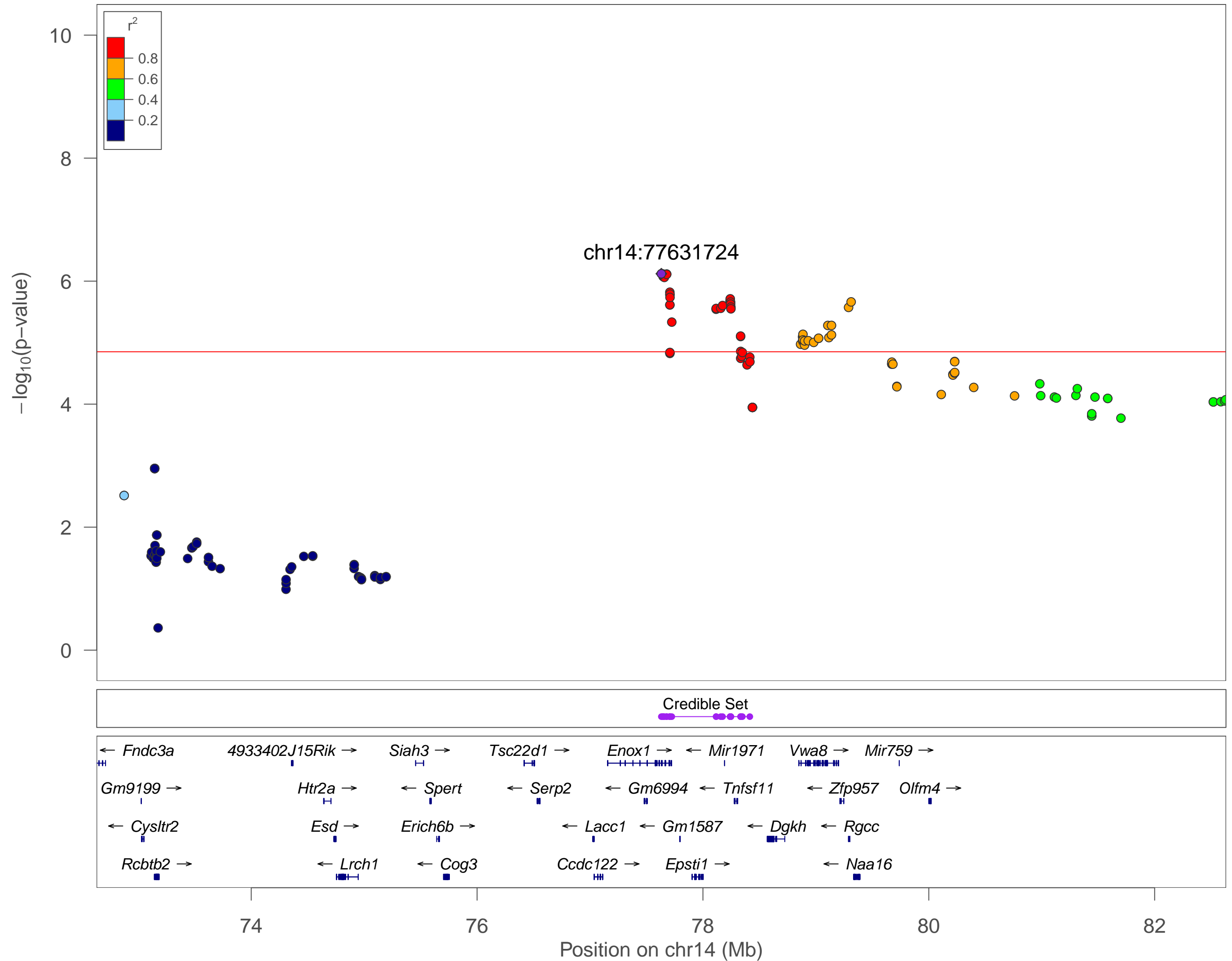
Position on chr11 (Mb)

date: Thu Oct 25 17:19:11 2018
build: F34GBS
display range: chr11:24486678–34486678 [24486678–34486678]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr11:29486678
number of SNPs plotted: 208
min P-value: 6.35E–7 [chr11:29486678]
max P-value: 2.6E–1 [chr11:33723026]
omitted Genes: Gm12070, Mir216a, Mir217
omitted Genes: Efemp1, Pnpt1, Smek2
omitted Genes: Cfap36, Prorsd1, Clhc1
omitted Genes: Eml6, 4931440F15Rik, Sptbn1
omitted Genes: 4930505A04Rik, Asb3, Chac2
omitted Genes: D630024D03Rik, Gm12108, Il9r
omitted Genes: Snrnp25, Rhbdf1, Mpg
omitted Genes: Nprl3, Hba–x, Hba–a1
omitted Genes: Hbq1b, Hba–a2, Hbq1a
omitted Genes: Sh3pxd2b, Efcab9, Fbxw11
omitted Genes: Ranbp17, Gabrp, Dock2
omitted Genes: Fam196b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr11:28851860	11	28.85186	0.011196072	Credible Set	purple
chr11:28853308	11	28.85331	0.010233745	Credible Set	purple
chr11:28855496	11	28.85550	0.010963145	Credible Set	purple
chr11:29365866	11	29.36587	0.123345163	Credible Set	purple
chr11:29419484	11	29.41948	0.088878362	Credible Set	purple
chr11:29419643	11	29.41964	0.142119135	Credible Set	purple
chr11:29486678	11	29.48668	0.322110318	Credible Set	purple
chr11:29623528	11	29.62353	0.048248804	Credible Set	purple
chr11:29623531	11	29.62353	0.048135344	Credible Set	purple
chr11:29623542	11	29.62354	0.047430361	Credible Set	purple
chr11:29637584	11	29.63758	0.010014850	Credible Set	purple
chr11:29637586	11	29.63759	0.010803516	Credible Set	purple
chr11:29676398	11	29.67640	0.102343124	Credible Set	purple
chr11:29757518	11	29.75752	0.002624170	Credible Set	purple
chr11:29767130	11	29.76713	0.003921785	Credible Set	purple
chr11:29794101	11	29.79410	0.001266856	Credible Set	purple
chr11:29794488	11	29.79449	0.001248625	Credible Set	purple
chr11:29815423	11	29.81542	0.001587720	Credible Set	purple
chr11:29815516	11	29.81552	0.001587720	Credible Set	purple
chr11:30005177	11	30.00518	0.001324759	Credible Set	purple
chr11:30018452	11	30.01845	0.001247503	Credible Set	purple

F34 GBS, quadriceps femoris muscle weight (mg)



date: Thu Oct 25 17:19:19 2018

build: F34GBS

display range: chr14:72631724–82631724 [72631724–82631724]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:77631724

number of SNPs plotted: 152

min P-value: 7.58E–7 [chr14:77631724]

max P-value: 4.34E–1 [chr14:73175203]

omitted Genes: Rb1, Mir687, Lpar6

omitted Genes: Itm2b, Med4, Nudt15

omitted Genes: Sucla2, Gm4278, 5031414D18Rik

omitted Genes: Lrrc63, Lcp1, Cpb2

omitted Genes: Zc3h13, Slc25a30, Gm4285

omitted Genes: Tpt1, Snora31, Gtf2f2

omitted Genes: Kctd4, Gpalpp1, Nufip1

omitted Genes: 4930444M15Rik, 1700108F19Rik, Dnajc15

omitted Genes: Fam216b, Akap11, Mtrf1

omitted Genes: Kbtbd7, Kbtbd6, Wbp4

omitted Genes: Elf1, Sugt1, Lect1

omitted Genes: 4930452G13Rik, Pcdh8, Gm10845

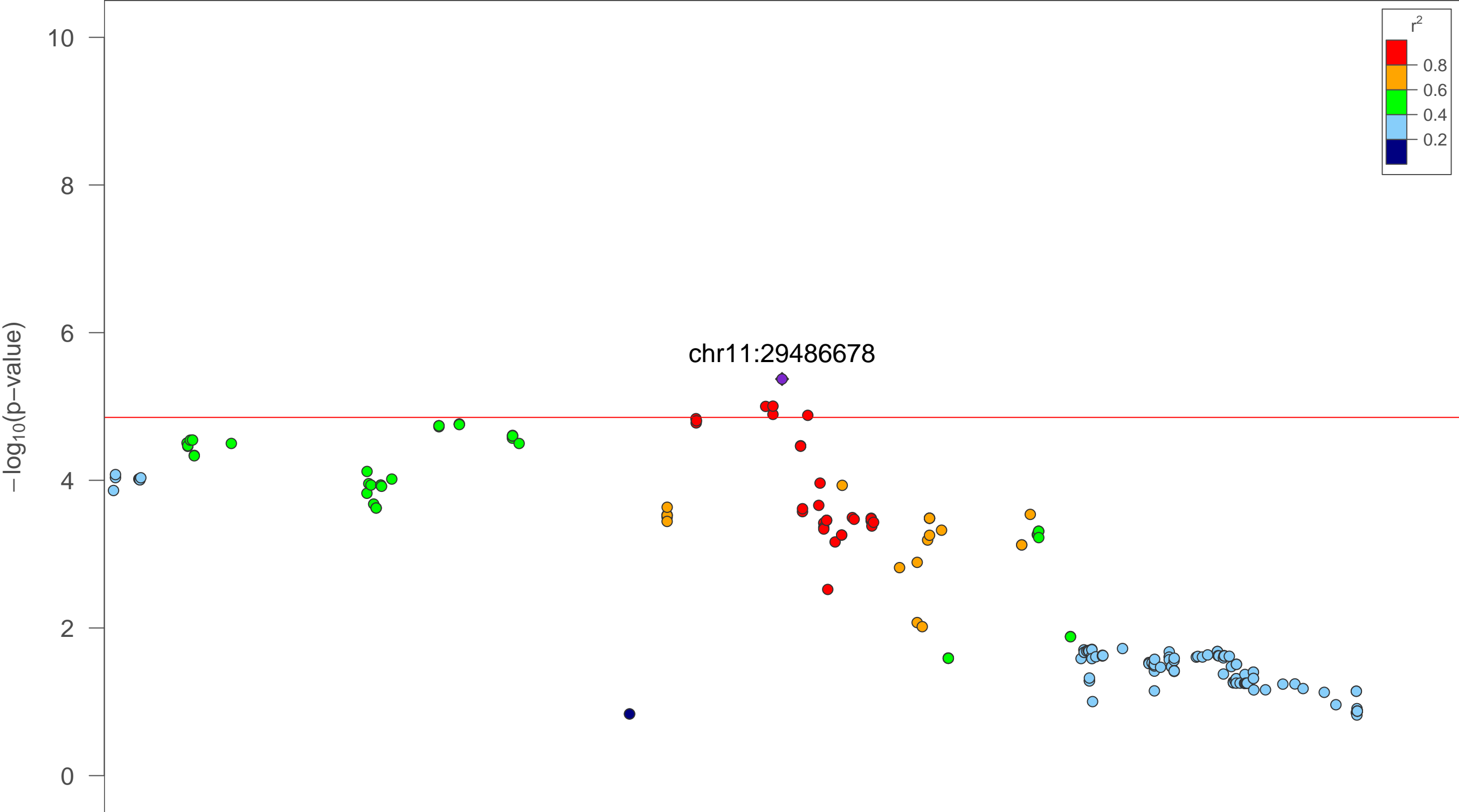
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:77631724	14	77.63172	0.065951423	Credible Set	purple
chr14:77642597	14	77.64260	0.065442836	Credible Set	purple
chr14:77642802	14	77.64280	0.065442836	Credible Set	purple
chr14:77647283	14	77.64728	0.059571500	Credible Set	purple
chr14:77647687	14	77.64769	0.061712381	Credible Set	purple
chr14:77658356	14	77.65836	0.057734634	Credible Set	purple
chr14:77678847	14	77.67885	0.065206095	Credible Set	purple
chr14:77678929	14	77.67893	0.064608702	Credible Set	purple
chr14:77707033	14	77.70703	0.033959058	Credible Set	purple
chr14:77707351	14	77.70735	0.021432720	Credible Set	purple
chr14:77707392	14	77.70739	0.021526237	Credible Set	purple
chr14:77707431	14	77.70743	0.003874422	Credible Set	purple
chr14:77707491	14	77.70749	0.003776912	Credible Set	purple
chr14:77707493	14	77.70749	0.003911421	Credible Set	purple
chr14:77707780	14	77.70778	0.030662519	Credible Set	purple
chr14:77707832	14	77.70783	0.031648653	Credible Set	purple
chr14:77708407	14	77.70841	0.028103002	Credible Set	purple
chr14:77724180	14	77.72418	0.011581226	Credible Set	purple
chr14:78116598	14	78.11660	0.018378782	Credible Set	purple
chr14:78116913	14	78.11691	0.018911253	Credible Set	purple
chr14:78157408	14	78.15741	0.019006437	Credible Set	purple
chr14:78173886	14	78.17389	0.021007088	Credible Set	purple
chr14:78240912	14	78.24091	0.024711263	Credible Set	purple
chr14:78240962	14	78.24096	0.025038119	Credible Set	purple
chr14:78241501	14	78.24150	0.026369333	Credible Set	purple
chr14:78241810	14	78.24181	0.026750039	Credible Set	purple
chr14:78245017	14	78.24502	0.023761908	Credible Set	purple
chr14:78245066	14	78.24507	0.022104762	Credible Set	purple
chr14:78247459	14	78.24746	0.019855882	Credible Set	purple
chr14:78247805	14	78.24780	0.018647975	Credible Set	purple
chr14:78333693	14	78.33369	0.006912693	Credible Set	purple
chr14:78333727	14	78.33373	0.007022265	Credible Set	purple
chr14:78334235	14	78.33424	0.003168384	Credible Set	purple
chr14:78334352	14	78.33435	0.004061125	Credible Set	purple
chr14:78342935	14	78.34293	0.003405232	Credible Set	purple
chr14:78349294	14	78.34929	0.003907212	Credible Set	purple

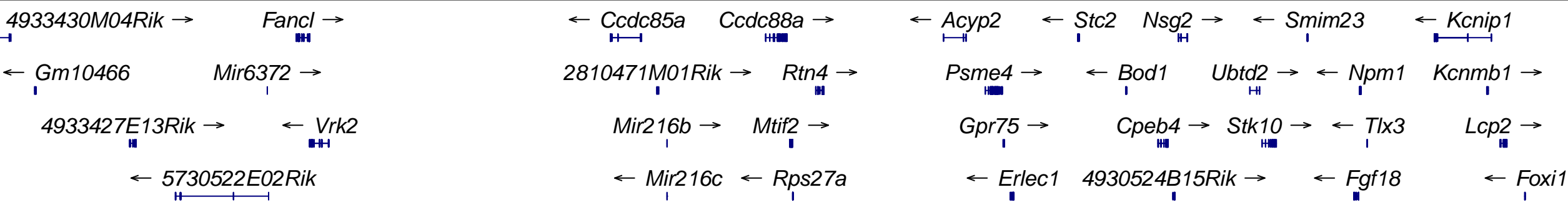
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:78415035	14	78.41504	0.003307998	Credible Set	purple

F34 GBS, tibialis anterior muscle weight (mg)



Credible Set



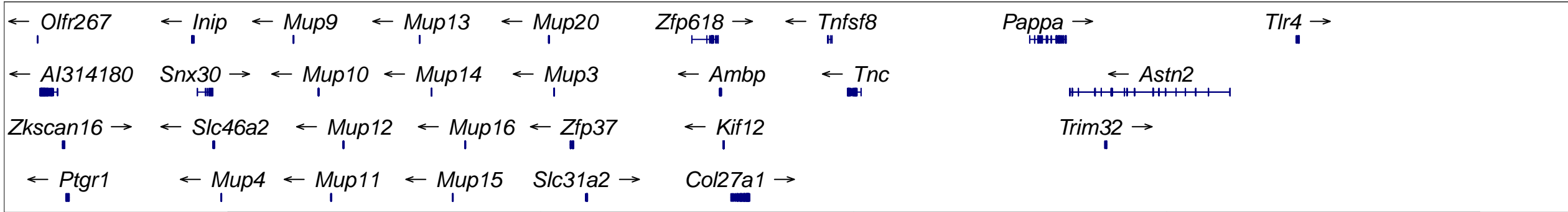
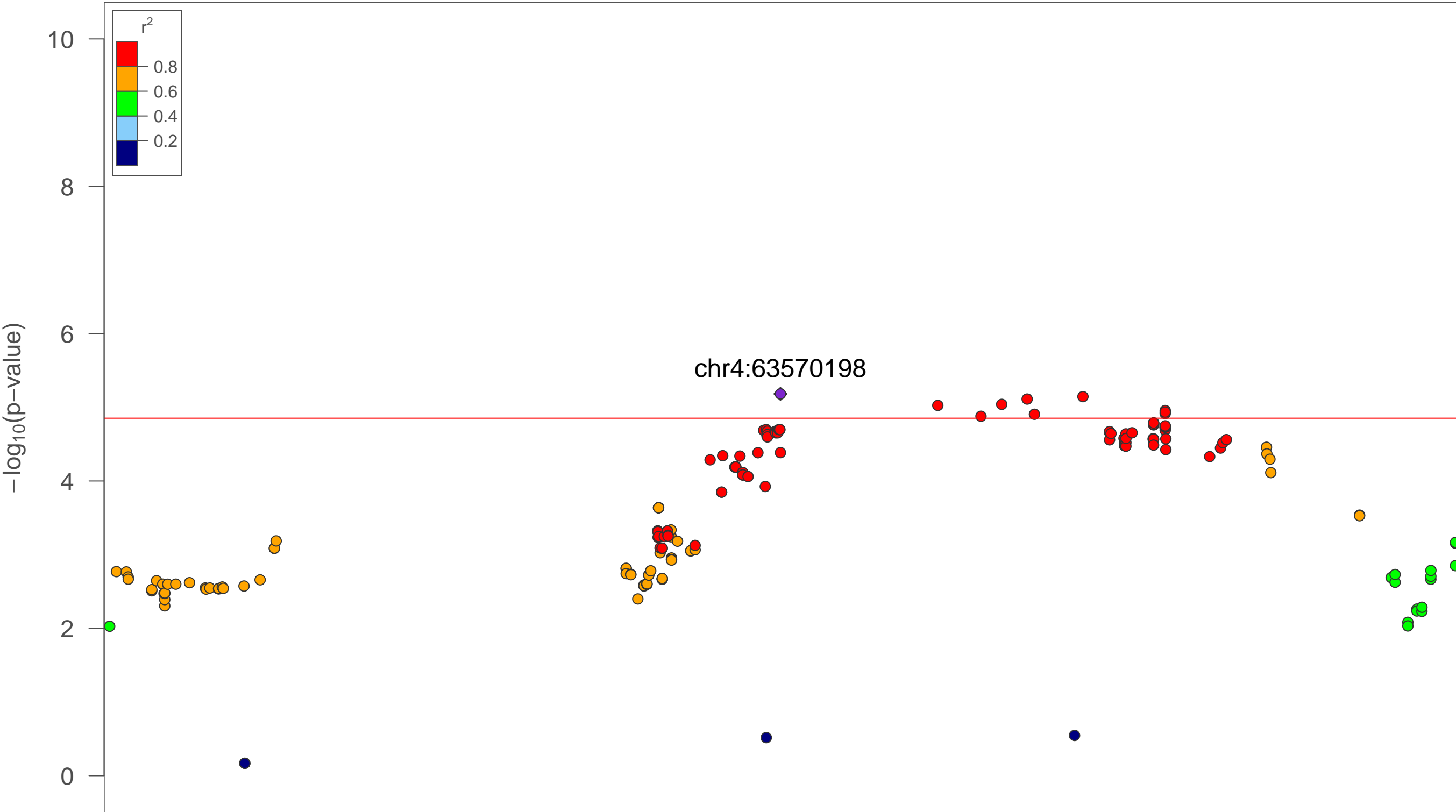
34 genes
omitted

date: Thu Oct 25 17:19:56 2018
build: F34GBS
display range: chr11:24486678–34486678 [24486678–34486678]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr11:29486678
number of SNPs plotted: 208
min P-value: 4.24E–6 [chr11:29486678]
max P-value: 1.51E–1 [chr11:33727201]
omitted Genes: Gm12070, Mir216a, Mir217
omitted Genes: Efemp1, Pnpt1, Smek2
omitted Genes: Cfap36, Prorsd1, Clhc1
omitted Genes: Eml6, 4931440F15Rik, Sptbn1
omitted Genes: 4930505A04Rik, Asb3, Chac2
omitted Genes: D630024D03Rik, Gm12108, Il9r
omitted Genes: Snrnp25, Rhbdf1, Mpg
omitted Genes: Nprl3, Hba–x, Hba–a1
omitted Genes: Hbq1b, Hba–a2, Hbq1a
omitted Genes: Sh3pxd2b, Efcab9, Fbxw11
omitted Genes: Ranbp17, Gabrp, Dock2
omitted Genes: Fam196b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr11:28851860	11	28.85186	0.073389453	Credible Set	purple
chr11:28853308	11	28.85331	0.064643672	Credible Set	purple
chr11:28855496	11	28.85550	0.068857619	Credible Set	purple
chr11:29365866	11	29.36587	0.105679620	Credible Set	purple
chr11:29419484	11	29.41948	0.083318030	Credible Set	purple
chr11:29419643	11	29.41964	0.106499999	Credible Set	purple
chr11:29486678	11	29.48668	0.239200283	Credible Set	purple
chr11:29623528	11	29.62353	0.032853206	Credible Set	purple
chr11:29623531	11	29.62353	0.032494083	Credible Set	purple
chr11:29623542	11	29.62354	0.032408279	Credible Set	purple
chr11:29637584	11	29.63758	0.004718717	Credible Set	purple
chr11:29637586	11	29.63759	0.005140145	Credible Set	purple
chr11:29676398	11	29.67640	0.081041441	Credible Set	purple
chr11:29757518	11	29.75752	0.005669447	Credible Set	purple
chr11:29767130	11	29.76713	0.010892164	Credible Set	purple
chr11:29794101	11	29.79410	0.003385191	Credible Set	purple
chr11:29794488	11	29.79449	0.002970763	Credible Set	purple
chr11:29794516	11	29.79452	0.002838729	Credible Set	purple
chr11:29815423	11	29.81542	0.003663428	Credible Set	purple
chr11:29815516	11	29.81552	0.003663428	Credible Set	purple
chr11:30005177	11	30.00518	0.003967363	Credible Set	purple
chr11:30018452	11	30.01845	0.003773369	Credible Set	purple
chr11:30143941	11	30.14394	0.003605437	Credible Set	purple
chr11:30144319	11	30.14432	0.003893775	Credible Set	purple
chr11:30144348	11	30.14435	0.003827763	Credible Set	purple
chr11:30144383	11	30.14438	0.003831083	Credible Set	purple
chr11:30149181	11	30.14918	0.003098802	Credible Set	purple
chr11:30161875	11	30.16187	0.003455055	Credible Set	purple

F34 GBS, extensor digitorum longus muscle weight (mg)



41 genes
omitted

date: Thu Oct 25 17:20:05 2018
build: F34GBS
display range: chr4:58570198–68570198 [58570198–68570198]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:63570198
number of SNPs plotted: 192
min P-value: 6.58E–6 [chr4:63570198]
max P-value: 6.78E–1 [chr4:59610662]
omitted Genes: Dnajc25, Gng10, Ugcg
omitted Genes: Gm12596, Susd1, Ptbp3
omitted Genes: Hsdl2, E130308A19Rik, Mup6
omitted Genes: Mup7, Mup2, Mup8
omitted Genes: Mup1, Mup17, Mup18
omitted Genes: Mup19, Mup5, Mup21
omitted Genes: Fkbp15, Slc31a1, Cdc26
omitted Genes: Prpf4, Rnf183, Wdr31
omitted Genes: Bspry, Hdhd3, Alad
omitted Genes: Pole3, 4933430I17Rik, Rgs3
omitted Genes: Mir455, Orm1, Orm3
omitted Genes: Orm2, Akna, Whrn
omitted Genes: Atp6v1g1, 6330416G13Rik, Gm11213
omitted Genes: 1700018C11Rik, Tnfsf15

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:63050153	4	63.05015	0.005586469	Credible Set	purple
chr4:63135285	4	63.13529	0.002155219	Credible Set	purple
chr4:63143387	4	63.14339	0.006319390	Credible Set	purple
chr4:63232655	4	63.23266	0.004506028	Credible Set	purple
chr4:63239449	4	63.23945	0.004569768	Credible Set	purple
chr4:63239821	4	63.23982	0.004525341	Credible Set	purple
chr4:63239854	4	63.23985	0.004516917	Credible Set	purple
chr4:63270812	4	63.27081	0.006242967	Credible Set	purple
chr4:63291699	4	63.29170	0.003837657	Credible Set	purple
chr4:63291735	4	63.29174	0.003837138	Credible Set	purple
chr4:63292002	4	63.29200	0.003565385	Credible Set	purple
chr4:63292021	4	63.29202	0.003582722	Credible Set	purple
chr4:63331035	4	63.33103	0.003408827	Credible Set	purple
chr4:63403594	4	63.40359	0.006898749	Credible Set	purple
chr4:63445899	4	63.44590	0.013422221	Credible Set	purple
chr4:63458203	4	63.45820	0.002543254	Credible Set	purple
chr4:63465528	4	63.46553	0.013717511	Credible Set	purple
chr4:63471028	4	63.47103	0.012115126	Credible Set	purple
chr4:63471086	4	63.47109	0.011300514	Credible Set	purple
chr4:63473150	4	63.47315	0.011770552	Credible Set	purple
chr4:63473181	4	63.47318	0.011667117	Credible Set	purple
chr4:63473231	4	63.47323	0.013077005	Credible Set	purple
chr4:63473937	4	63.47394	0.011805191	Credible Set	purple
chr4:63474009	4	63.47401	0.011026218	Credible Set	purple
chr4:63531405	4	63.53140	0.012964723	Credible Set	purple
chr4:63531436	4	63.53144	0.013007659	Credible Set	purple
chr4:63535096	4	63.53510	0.012463435	Credible Set	purple
chr4:63548238	4	63.54824	0.013125578	Credible Set	purple
chr4:63548572	4	63.54857	0.012457840	Credible Set	purple
chr4:63558825	4	63.55882	0.013715376	Credible Set	purple
chr4:63565618	4	63.56562	0.013717511	Credible Set	purple
chr4:63565712	4	63.56571	0.013717511	Credible Set	purple
chr4:63570198	4	63.57020	0.039756613	Credible Set	purple
chr4:63570284	4	63.57028	0.006920540	Credible Set	purple
chr4:64733521	4	64.73352	0.028193873	Credible Set	purple
chr4:65052703	4	65.05270	0.020407037	Credible Set	purple

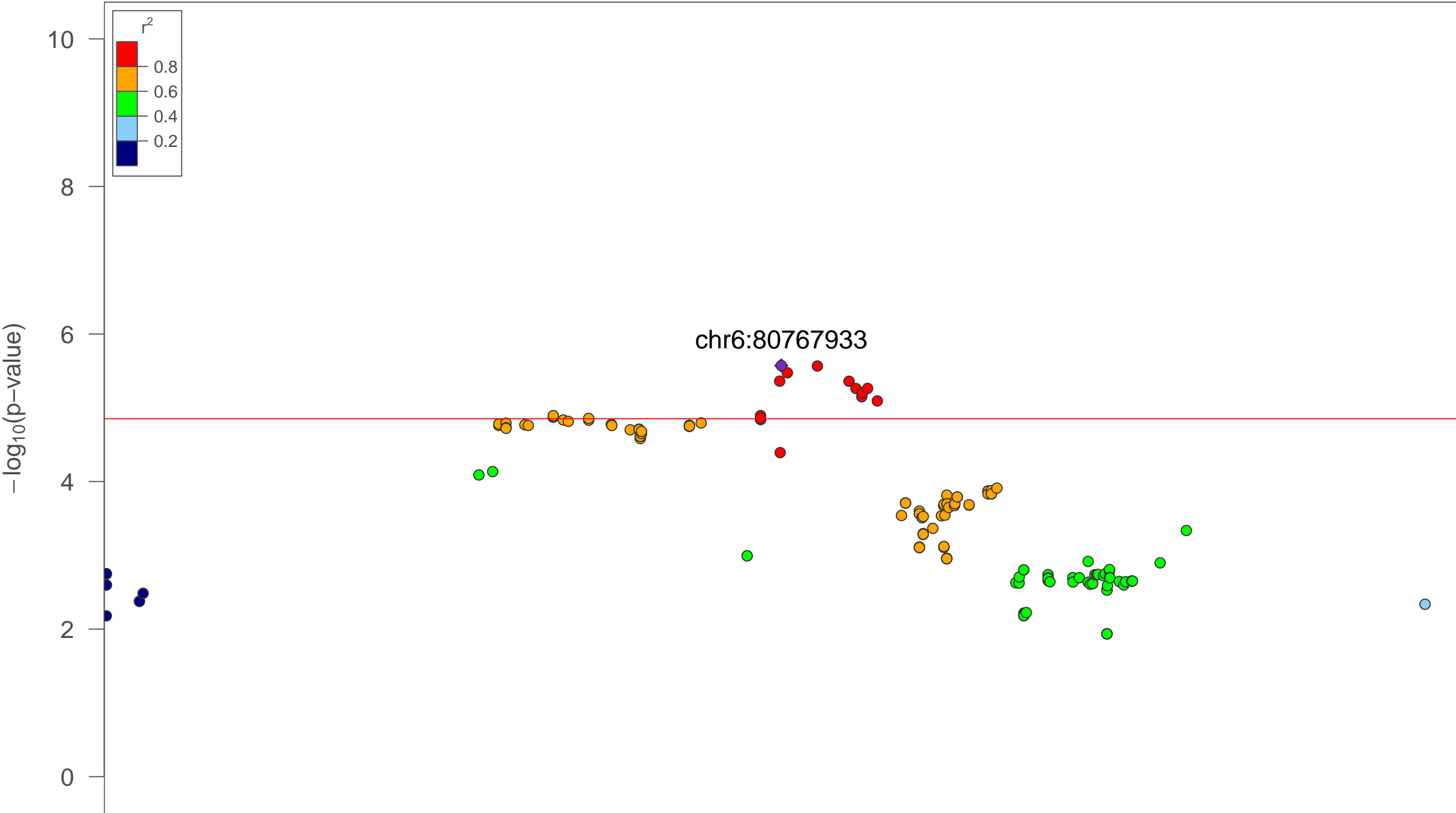
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:65205920	4	65.20592	0.029105020	Credible Set	purple
chr4:65393970	4	65.39397	0.034087638	Credible Set	purple
chr4:65447841	4	65.44784	0.021665351	Credible Set	purple
chr4:65806420	4	65.80642	0.036665107	Credible Set	purple
chr4:66002530	4	66.00253	0.012677452	Credible Set	purple
chr4:66003029	4	66.00303	0.010115198	Credible Set	purple
chr4:66003164	4	66.00316	0.012951976	Credible Set	purple
chr4:66013512	4	66.01351	0.012199736	Credible Set	purple
chr4:66110072	4	66.11007	0.010583302	Credible Set	purple
chr4:66114163	4	66.11416	0.009706855	Credible Set	purple
chr4:66114164	4	66.11416	0.008517105	Credible Set	purple
chr4:66114176	4	66.11418	0.008502830	Credible Set	purple
chr4:66123765	4	66.12377	0.009323297	Credible Set	purple
chr4:66123768	4	66.12377	0.008359871	Credible Set	purple
chr4:66123832	4	66.12383	0.012075522	Credible Set	purple
chr4:66124242	4	66.12424	0.010537474	Credible Set	purple
chr4:66169378	4	66.16938	0.012473269	Credible Set	purple
chr4:66325857	4	66.32586	0.010470415	Credible Set	purple
chr4:66325987	4	66.32599	0.010234159	Credible Set	purple
chr4:66328189	4	66.32819	0.010171039	Credible Set	purple
chr4:66328195	4	66.32819	0.010349660	Credible Set	purple
chr4:66328436	4	66.32844	0.008640016	Credible Set	purple
chr4:66328528	4	66.32853	0.016711908	Credible Set	purple
chr4:66328560	4	66.32856	0.016651954	Credible Set	purple
chr4:66329044	4	66.32904	0.015940153	Credible Set	purple
chr4:66329065	4	66.32906	0.016703717	Credible Set	purple
chr4:66414332	4	66.41433	0.014848635	Credible Set	purple
chr4:66414345	4	66.41434	0.014937879	Credible Set	purple
chr4:66414373	4	66.41437	0.014389080	Credible Set	purple
chr4:66414374	4	66.41437	0.014462506	Credible Set	purple
chr4:66414384	4	66.41438	0.013469720	Credible Set	purple
chr4:66414387	4	66.41439	0.014718109	Credible Set	purple
chr4:66414451	4	66.41445	0.015118442	Credible Set	purple
chr4:66414476	4	66.41448	0.022146038	Credible Set	purple
chr4:66414508	4	66.41451	0.024217351	Credible Set	purple
chr4:66414513	4	66.41451	0.023099784	Credible Set	purple

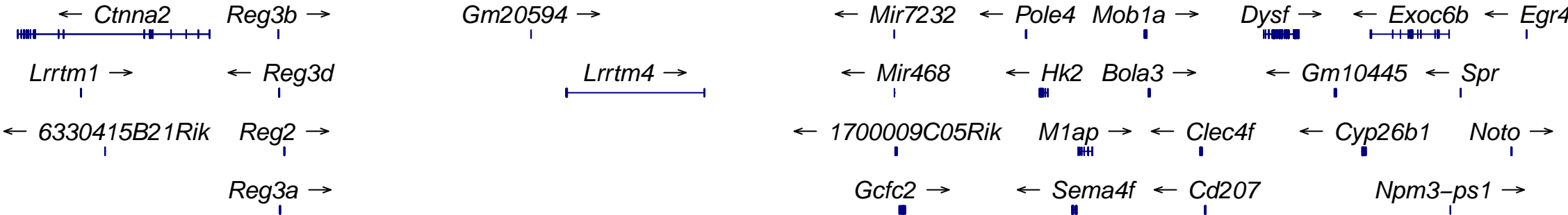
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:66414963	4	66.41496	0.015322361	Credible Set	purple
chr4:66419064	4	66.41906	0.007564370	Credible Set	purple
chr4:66419126	4	66.41913	0.010420861	Credible Set	purple
chr4:66743103	4	66.74310	0.006150139	Credible Set	purple
chr4:66823255	4	66.82326	0.007915557	Credible Set	purple
chr4:66840696	4	66.84070	0.009284521	Credible Set	purple
chr4:66866758	4	66.86676	0.010175646	Credible Set	purple

F34 GBS, gastrocnemius muscle weight (mg)



Credible Set



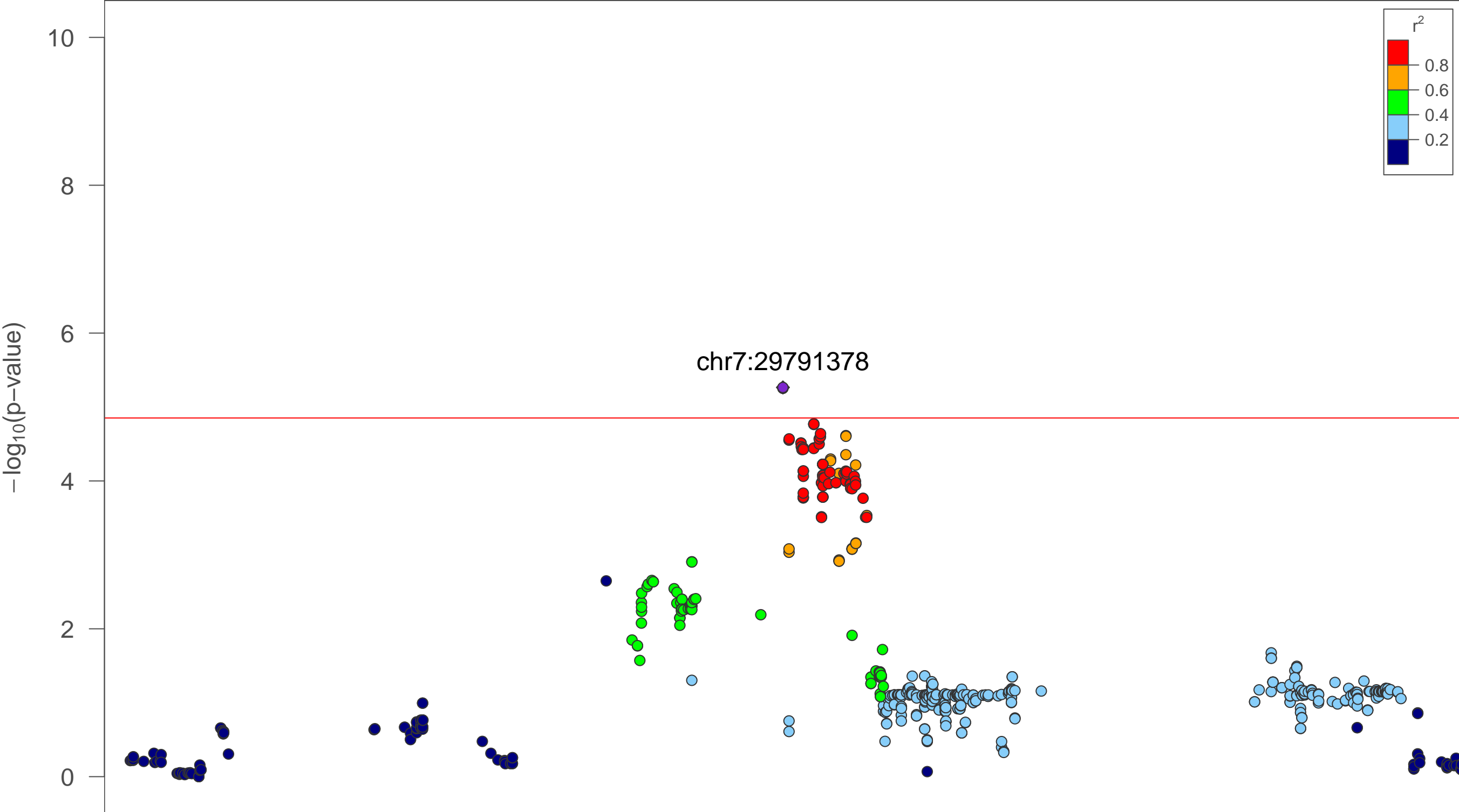
57 genes
omitted

date: Thu Oct 25 17:20:16 2018
build: F34GBS
display range: chr6:75767933–85767933 [75767933–85767933]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:80767933
number of SNPs plotted: 156
min P-value: 2.68E–6 [chr6:80767933]
max P-value: 1.16E–2 [chr6:83172373]
omitted Genes: Reg1, Reg3g, Gm20362
omitted Genes: Mrpl19, Eva1a, Tacr1
omitted Genes: 2310069B03Rik, Dok1, Loxl3
omitted Genes: Mir7040, Htra2, Aup1
omitted Genes: Dqx1, Tlx2, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Tet3, Mir6374
omitted Genes: B230319C09Rik, Dguok, Actg2
omitted Genes: Stambp, Gm21284, Vax2os
omitted Genes: Vax2, Atp6v1b1, 1700124L16Rik
omitted Genes: Ankrd53, Tex261, Gm7443
omitted Genes: Nagk, Paip2b, Zfp638
omitted Genes: Gm5878, Emx1, Sfxn5
omitted Genes: Rab11fip5, Mir705, Smyd5
omitted Genes: Pradc1, Cct7, Fbxo41
omitted Genes: Alms1, Nat8f7, Nat8f3

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80614710	6	80.61471	0.03055088	Credible Set	purple
chr6:80614725	6	80.61473	0.02725666	Credible Set	purple
chr6:80614740	6	80.61474	0.02732058	Credible Set	purple
chr6:80614750	6	80.61475	0.02725666	Credible Set	purple
chr6:80614907	6	80.61491	0.02820462	Credible Set	purple
chr6:80755939	6	80.75594	0.08540020	Credible Set	purple
chr6:80759589	6	80.75959	0.01017886	Credible Set	purple
chr6:80767933	6	80.76793	0.13610015	Credible Set	purple
chr6:80812582	6	80.81258	0.10974954	Credible Set	purple
chr6:81034488	6	81.03449	0.13422460	Credible Set	purple
chr6:81267890	6	81.26789	0.08512251	Credible Set	purple
chr6:81318989	6	81.31899	0.06852202	Credible Set	purple
chr6:81362217	6	81.36222	0.05361753	Credible Set	purple
chr6:81368112	6	81.36811	0.06044366	Credible Set	purple
chr6:81405109	6	81.40511	0.06876887	Credible Set	purple
chr6:81476902	6	81.47690	0.04728265	Credible Set	purple

F34 GBS, soleus muscle weight (mg)



Credible Set

Gm5893 → Cyp2b13 → Cyp2a12 → Zfp59 → ← Ifnl2 ← Spred3 ← Zfp27 ← Lin37 Scgb2b2 → ← Scgb2b11 ← Scgb2b18 ← Wtip
← Lypd4 ← Axl ← Nlrp9c Cyp2f2 → Zfp607 → Ifnl3 → Ggn → Zfp84 → ← Hcst ← Lsr ← Scgb2b7 ← Scgb2b15 ← Scgb2b26
Dmrtc2 → Cyp2b9 → Cyp2t4 → ← Zfp780b Sars2 → ← Catsperg2 Hspb6 → ← Scgb2b3 ← Scgb2b12 ← Scgb2b19 ← Uba2
Rps19 → Cyp2b10 → Cyp2g1 → Prx → Fcgbp → Sirt2 → Mir1964 → ← Psenen Scgb1b3 → Scgb1b12 → Scgb1b19 → ← Pdcd2l

222 genes
omitted

Position on chr7 (Mb)

date: Thu Oct 25 17:20:27 2018

build: F34GBS

display range: chr7:24791378–34791378 [24791378–34791378]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:29791378

number of SNPs plotted: 603

min P-value: 5.43E–6 [chr7:29791378]

max P-value: 9.98E–1 [chr7:25487376]

omitted Genes: Cd79a, Arhgef1, Rabac1

omitted Genes: Mir7046, Atp1a3, Mir7047

omitted Genes: Grik5, Zfp574, Pou2f2

omitted Genes: Mir6537, D930028M14Rik, Dedd2

omitted Genes: Mir7048, Zfp526, Gsk3a

omitted Genes: 9130221H12Rik, Erf, Cic

omitted Genes: Pafah1b3, Prr19, Tmem145

omitted Genes: Megf8, Cnfn, 4732471J01Rik

omitted Genes: Lipe, Cxcl17, Ceacam1

omitted Genes: Ceacam2, Erich4, Atp5sl

omitted Genes: B3gnt8, Bckdha, Exosc5

omitted Genes: Tmem91, B9d2, Tgfb1

omitted Genes: Ccdc97, Hnrnpul1, Cyp2s1

omitted Genes: Vmn1r184, Cyp2a4, Nlrp4a

omitted Genes: Nlrp9a, Vmn1r185, Cyp2b23

omitted Genes: Cyp2b19, Cyp2a5, Cyp2a22

omitted Genes: Egln2, Rab4b, Mir3101

omitted Genes: Mia, Snrpa, BC024978

omitted Genes: Mir1191, Itpkc, Adck4

omitted Genes: Numbl, Ltbp4, Shkbp1

omitted Genes: Sptbn4, Blvrb, Sertad3

omitted Genes: Sertad1, Hipk4, Pld3

omitted Genes: 2310022A10Rik, Akt2, Ttc9b

omitted Genes: Map3k10, C030039L03Rik, Zfp60

omitted Genes: Gm10046, Zfp626, 1700049G17Rik

omitted Genes: Zfp850, Psmc4, 9530053A07Rik

omitted Genes: Fbl, Dyrk1b, Eid2

omitted Genes: Eid2b, BC089491, Dll3

omitted Genes: Timm50, Supt5, Rps16

omitted Genes: AF357399, Plekhg2, Zfp36

omitted Genes: Med29, Paf1, Samd4b

omitted Genes: Gmfa, Lrfr1, 1700028B04Rik

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:29791322	7	29.79132	0.098275664	Credible Set	purple
chr7:29791378	7	29.79138	0.100896825	Credible Set	purple
chr7:29835954	7	29.83595	0.021094227	Credible Set	purple
chr7:29837224	7	29.83722	0.021897496	Credible Set	purple
chr7:29924583	7	29.92458	0.019392260	Credible Set	purple
chr7:29924600	7	29.92460	0.019302108	Credible Set	purple
chr7:29926689	7	29.92669	0.017338965	Credible Set	purple
chr7:29931632	7	29.93163	0.015945916	Credible Set	purple
chr7:29941228	7	29.94123	0.003838486	Credible Set	purple
chr7:29941252	7	29.94125	0.003855683	Credible Set	purple
chr7:29941259	7	29.94126	0.003905284	Credible Set	purple
chr7:29941272	7	29.94127	0.003932245	Credible Set	purple
chr7:29941287	7	29.94129	0.004422145	Credible Set	purple
chr7:29941313	7	29.94131	0.016699891	Credible Set	purple
chr7:29941361	7	29.94136	0.016476051	Credible Set	purple
chr7:29941644	7	29.94164	0.016701635	Credible Set	purple
chr7:29941657	7	29.94166	0.016024127	Credible Set	purple
chr7:29941708	7	29.94171	0.008449947	Credible Set	purple
chr7:29941716	7	29.94172	0.007239586	Credible Set	purple
chr7:29941717	7	29.94172	0.008441506	Credible Set	purple
chr7:29941765	7	29.94177	0.008502193	Credible Set	purple
chr7:30018478	7	30.01848	0.016709972	Credible Set	purple
chr7:30018532	7	30.01853	0.016455486	Credible Set	purple
chr7:30018938	7	30.01894	0.034193123	Credible Set	purple
chr7:30018947	7	30.01895	0.033532453	Credible Set	purple
chr7:30018955	7	30.01895	0.033964231	Credible Set	purple
chr7:30058592	7	30.05859	0.018773627	Credible Set	purple
chr7:30058599	7	30.05860	0.021892512	Credible Set	purple
chr7:30067674	7	30.06767	0.023566323	Credible Set	purple
chr7:30067701	7	30.06770	0.023247881	Credible Set	purple
chr7:30068385	7	30.06838	0.025573745	Credible Set	purple
chr7:30075552	7	30.07555	0.005983281	Credible Set	purple
chr7:30075596	7	30.07560	0.005980927	Credible Set	purple
chr7:30084581	7	30.08458	0.007492523	Credible Set	purple
chr7:30084617	7	30.08462	0.007377294	Credible Set	purple
chr7:30085368	7	30.08537	0.010325017	Credible Set	purple

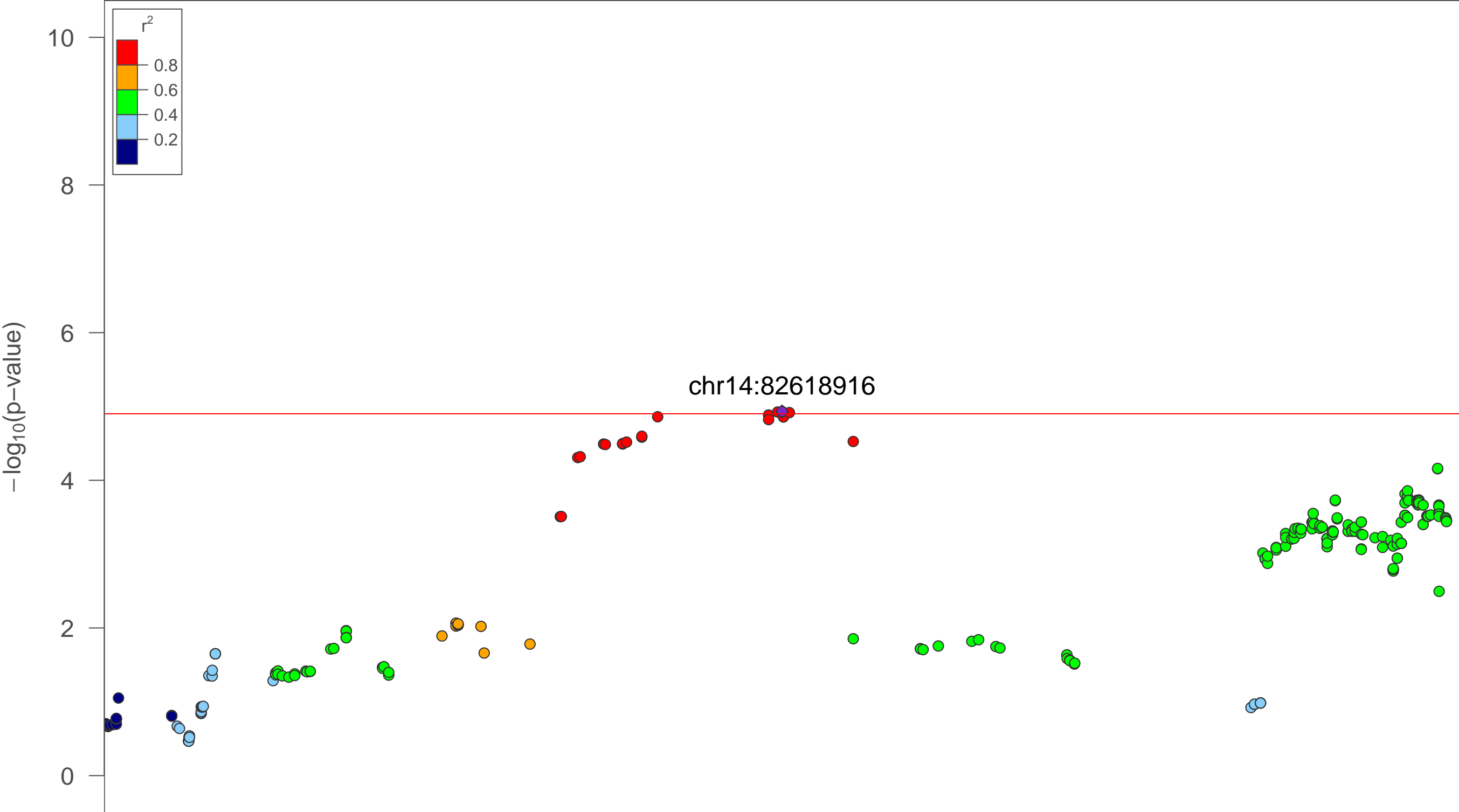
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:30085376	7	30.08538	0.010325017	Credible Set	purple
chr7:30085378	7	30.08538	0.010325017	Credible Set	purple
chr7:30085382	7	30.08538	0.010325017	Credible Set	purple
chr7:30085386	7	30.08539	0.010325017	Credible Set	purple
chr7:30085398	7	30.08540	0.010325017	Credible Set	purple
chr7:30085403	7	30.08540	0.010325017	Credible Set	purple
chr7:30085427	7	30.08543	0.010325017	Credible Set	purple
chr7:30085431	7	30.08543	0.010325017	Credible Set	purple
chr7:30085517	7	30.08552	0.003945093	Credible Set	purple
chr7:30085526	7	30.08553	0.003945093	Credible Set	purple
chr7:30085548	7	30.08555	0.003945093	Credible Set	purple
chr7:30085558	7	30.08556	0.003945093	Credible Set	purple
chr7:30085567	7	30.08557	0.003935726	Credible Set	purple
chr7:30085636	7	30.08564	0.006910810	Credible Set	purple
chr7:30086094	7	30.08609	0.005463718	Credible Set	purple
chr7:30095828	7	30.09583	0.006909874	Credible Set	purple
chr7:30127954	7	30.12795	0.005821576	Credible Set	purple
chr7:30137791	7	30.13779	0.008168606	Credible Set	purple
chr7:30182363	7	30.18236	0.005985035	Credible Set	purple
chr7:30182366	7	30.18237	0.006001099	Credible Set	purple
chr7:30240571	7	30.24057	0.007864599	Credible Set	purple
chr7:30255201	7	30.25520	0.008194478	Credible Set	purple
chr7:30255202	7	30.25520	0.008162407	Credible Set	purple
chr7:30255242	7	30.25524	0.008443790	Credible Set	purple
chr7:30256110	7	30.25611	0.006266192	Credible Set	purple
chr7:30262031	7	30.26203	0.007729693	Credible Set	purple
chr7:30262034	7	30.26203	0.008253511	Credible Set	purple
chr7:30289075	7	30.28908	0.005825148	Credible Set	purple
chr7:30289086	7	30.28909	0.005893662	Credible Set	purple
chr7:30289112	7	30.28911	0.005605923	Credible Set	purple
chr7:30289270	7	30.28927	0.005751710	Credible Set	purple
chr7:30289273	7	30.28927	0.005736705	Credible Set	purple
chr7:30289902	7	30.28990	0.005662450	Credible Set	purple
chr7:30289956	7	30.28996	0.005716106	Credible Set	purple
chr7:30290355	7	30.29036	0.005092684	Credible Set	purple
chr7:30301382	7	30.30138	0.005027048	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:30316542	7	30.31654	0.007256893	Credible Set	purple
chr7:30326035	7	30.32604	0.006264187	Credible Set	purple
chr7:30327435	7	30.32744	0.005610562	Credible Set	purple
chr7:30381850	7	30.38185	0.003805361	Credible Set	purple

F39–43 GBS, body weight day 1



14 genes
omitted

date: Thu Oct 25 17:20:37 2018

build: F3943GBS

display range: chr14:77618916–87618916 [77618916–87618916]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:82618916

number of SNPs plotted: 260

min P-value: 1.17E–5 [chr14:82618916]

max P-value: 3.42E–1 [chr14:78241501]

omitted Genes: Fam216b, Mir1971, Tnfsf11

omitted Genes: Akap11, Mtrf1, Kbtbd7

omitted Genes: Kbtbd6, Wbp4, Elf1

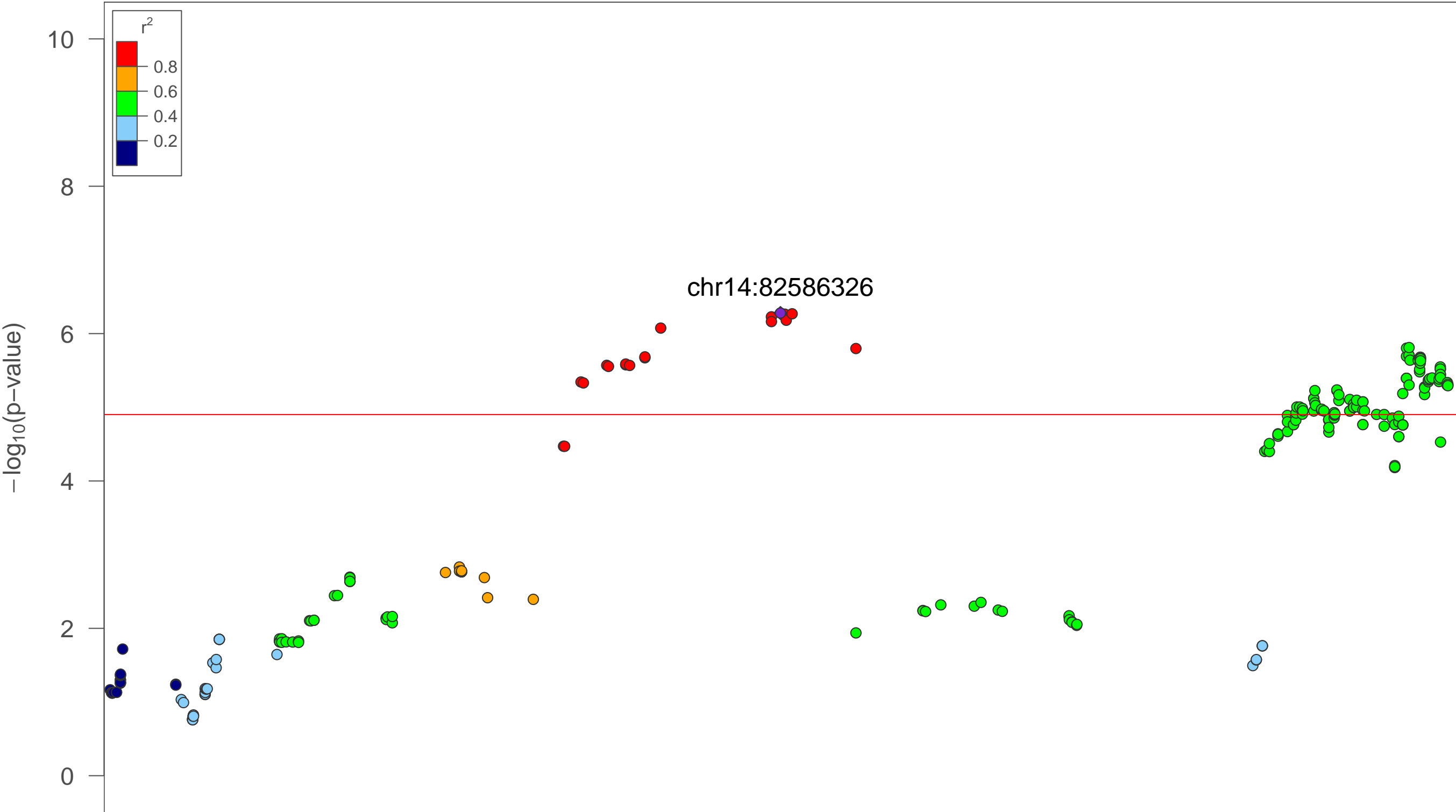
omitted Genes: Sugt1, Lect1, 4930452G13Rik

omitted Genes: Pcdh8, Gm10845

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:81112053	14	81.11205	0.02402823	Credible Set	purple
chr14:81129931	14	81.12993	0.02462348	Credible Set	purple
chr14:81302522	14	81.30252	0.03584985	Credible Set	purple
chr14:81315250	14	81.31525	0.03533937	Credible Set	purple
chr14:81443053	14	81.44305	0.03593258	Credible Set	purple
chr14:81443088	14	81.44309	0.03604954	Credible Set	purple
chr14:81443103	14	81.44310	0.03636872	Credible Set	purple
chr14:81471656	14	81.47166	0.03796048	Credible Set	purple
chr14:81584557	14	81.58456	0.04401372	Credible Set	purple
chr14:81584584	14	81.58458	0.04518519	Credible Set	purple
chr14:81701500	14	81.70150	0.08054753	Credible Set	purple
chr14:82519671	14	82.51967	0.08492962	Credible Set	purple
chr14:82519834	14	82.51983	0.07406665	Credible Set	purple
chr14:82586326	14	82.58633	0.09274759	Credible Set	purple
chr14:82618916	14	82.61892	0.09409563	Credible Set	purple
chr14:82629334	14	82.62933	0.08000369	Credible Set	purple
chr14:82672838	14	82.67284	0.09111274	Credible Set	purple
chr14:83144282	14	83.14428	0.03866860	Credible Set	purple

F39–43 GBS, body weight day 2



14 genes
omitted

date: Thu Oct 25 17:20:44 2018

build: F3943GBS

display range: chr14:77586326–87586326 [77586326–87586326]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:82586326

number of SNPs plotted: 260

min P-value: 5.25E-7 [chr14:82586326]

max P-value: 1.74E-1 [chr14:78241501]

omitted Genes: Fam216b, Mir1971, Tnfsf11

omitted Genes: Akap11, Mtrf1, Kbtbd7

omitted Genes: Kbtbd6, Wbp4, Elf1

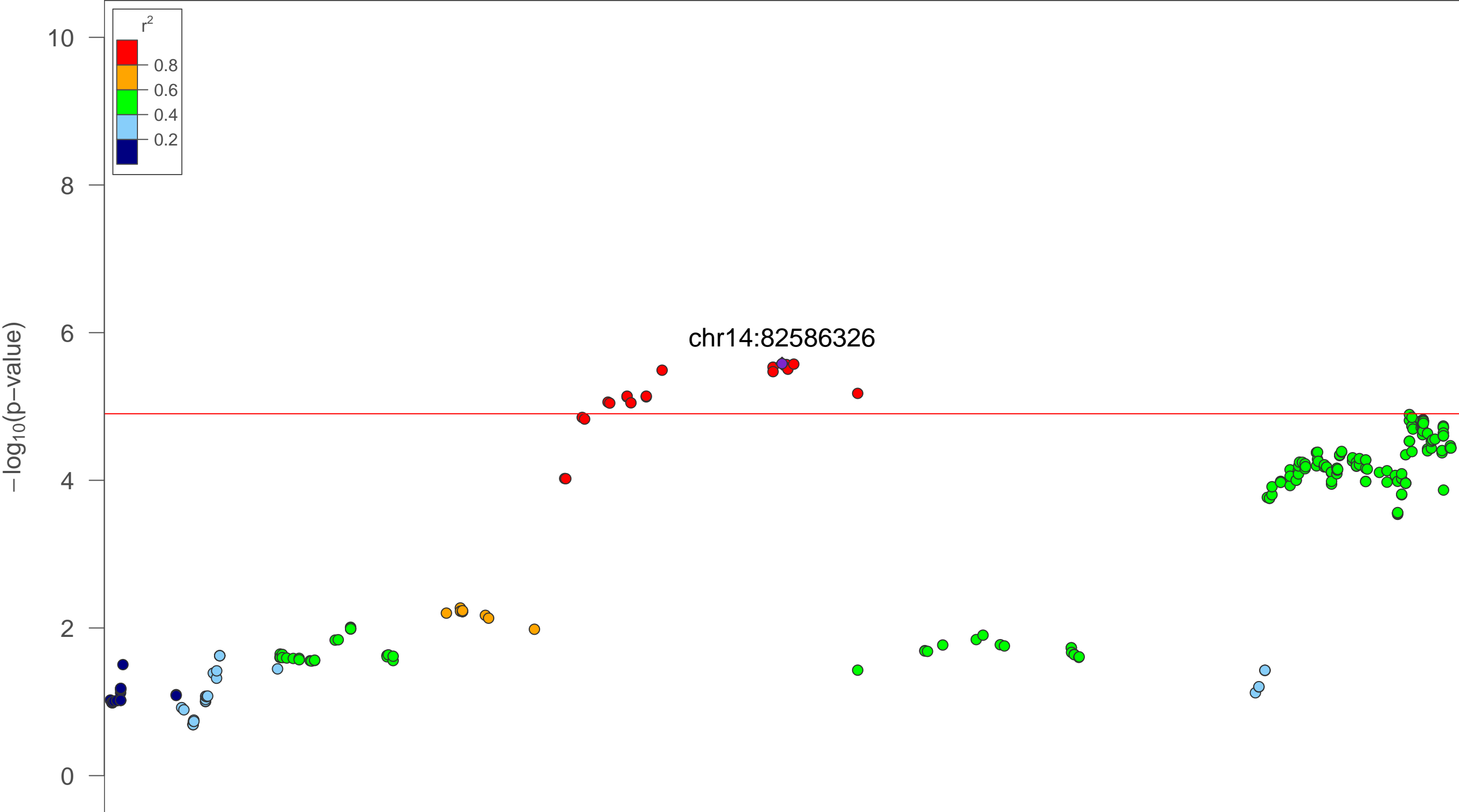
omitted Genes: Sugt1, Lect1, 4930452G13Rik

omitted Genes: Pcdh8, Gm10845

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:81112053	14	81.11205	0.01490137	Credible Set	purple
chr14:81129931	14	81.12993	0.01447357	Credible Set	purple
chr14:81302522	14	81.30252	0.02452853	Credible Set	purple
chr14:81315250	14	81.31525	0.02373874	Credible Set	purple
chr14:81443053	14	81.44305	0.02493733	Credible Set	purple
chr14:81443088	14	81.44309	0.02516714	Credible Set	purple
chr14:81443103	14	81.44310	0.02551083	Credible Set	purple
chr14:81471656	14	81.47166	0.02445477	Credible Set	purple
chr14:81584557	14	81.58456	0.03075131	Credible Set	purple
chr14:81584584	14	81.58458	0.03163767	Credible Set	purple
chr14:81701500	14	81.70150	0.07512201	Credible Set	purple
chr14:82519671	14	82.51967	0.10542503	Credible Set	purple
chr14:82519834	14	82.51983	0.09131098	Credible Set	purple
chr14:82586326	14	82.58633	0.11823370	Credible Set	purple
chr14:82618916	14	82.61892	0.11422741	Credible Set	purple
chr14:82629334	14	82.62933	0.09506362	Credible Set	purple
chr14:82672838	14	82.67284	0.11550022	Credible Set	purple
chr14:83144282	14	83.14428	0.04063550	Credible Set	purple

F39–43 GBS, body weight day 3



14 genes
omitted

date: Thu Oct 25 17:20:51 2018

build: F3943GBS

display range: chr14:77586326–87586326 [77586326–87586326]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:82586326

number of SNPs plotted: 260

min P-value: 2.63E–6 [chr14:82586326]

max P-value: 2.04E–1 [chr14:78241501]

omitted Genes: Fam216b, Mir1971, Tnfsf11

omitted Genes: Akap11, Mtrf1, Kbtbd7

omitted Genes: Kbtbd6, Wbp4, Elf1

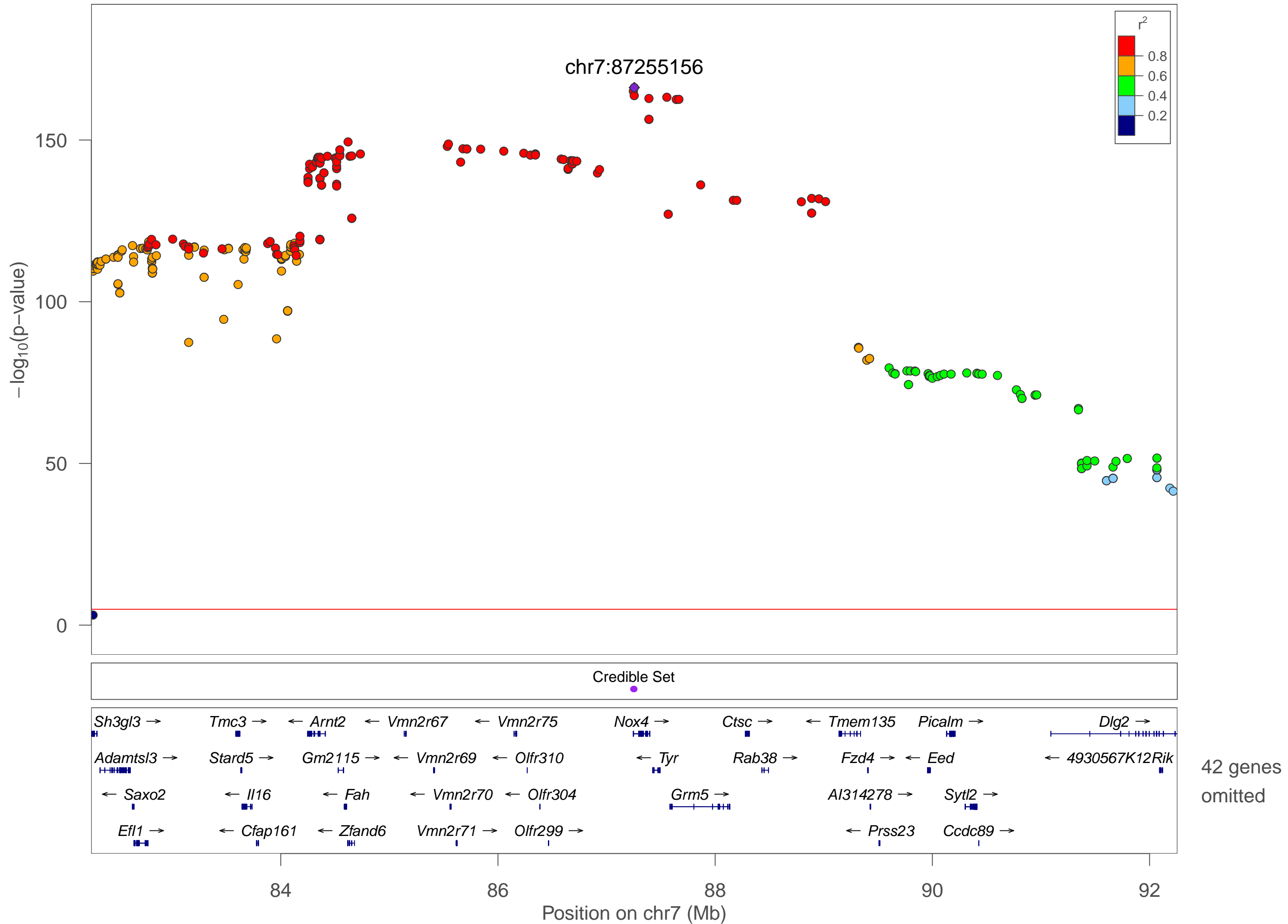
omitted Genes: Sugt1, Lect1, 4930452G13Rik

omitted Genes: Pcdh8, Gm10845

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:81112053	14	81.11205	0.02010840	Credible Set	purple
chr14:81129931	14	81.12993	0.01914174	Credible Set	purple
chr14:81302522	14	81.30252	0.03170730	Credible Set	purple
chr14:81315250	14	81.31525	0.03079619	Credible Set	purple
chr14:81443053	14	81.44305	0.03699838	Credible Set	purple
chr14:81443088	14	81.44309	0.03754149	Credible Set	purple
chr14:81443103	14	81.44310	0.03788507	Credible Set	purple
chr14:81471656	14	81.47166	0.03103994	Credible Set	purple
chr14:81584557	14	81.58456	0.03707361	Credible Set	purple
chr14:81584584	14	81.58458	0.03792188	Credible Set	purple
chr14:81701500	14	81.70150	0.08223439	Credible Set	purple
chr14:82519671	14	82.51967	0.09010403	Credible Set	purple
chr14:82519834	14	82.51983	0.07874841	Credible Set	purple
chr14:82586326	14	82.58633	0.10014396	Credible Set	purple
chr14:82618916	14	82.61892	0.09747427	Credible Set	purple
chr14:82629334	14	82.62933	0.08469180	Credible Set	purple
chr14:82672838	14	82.67284	0.09867105	Credible Set	purple
chr14:83144282	14	83.14428	0.04114562	Credible Set	purple

F39–43 GBS, coat color, albino

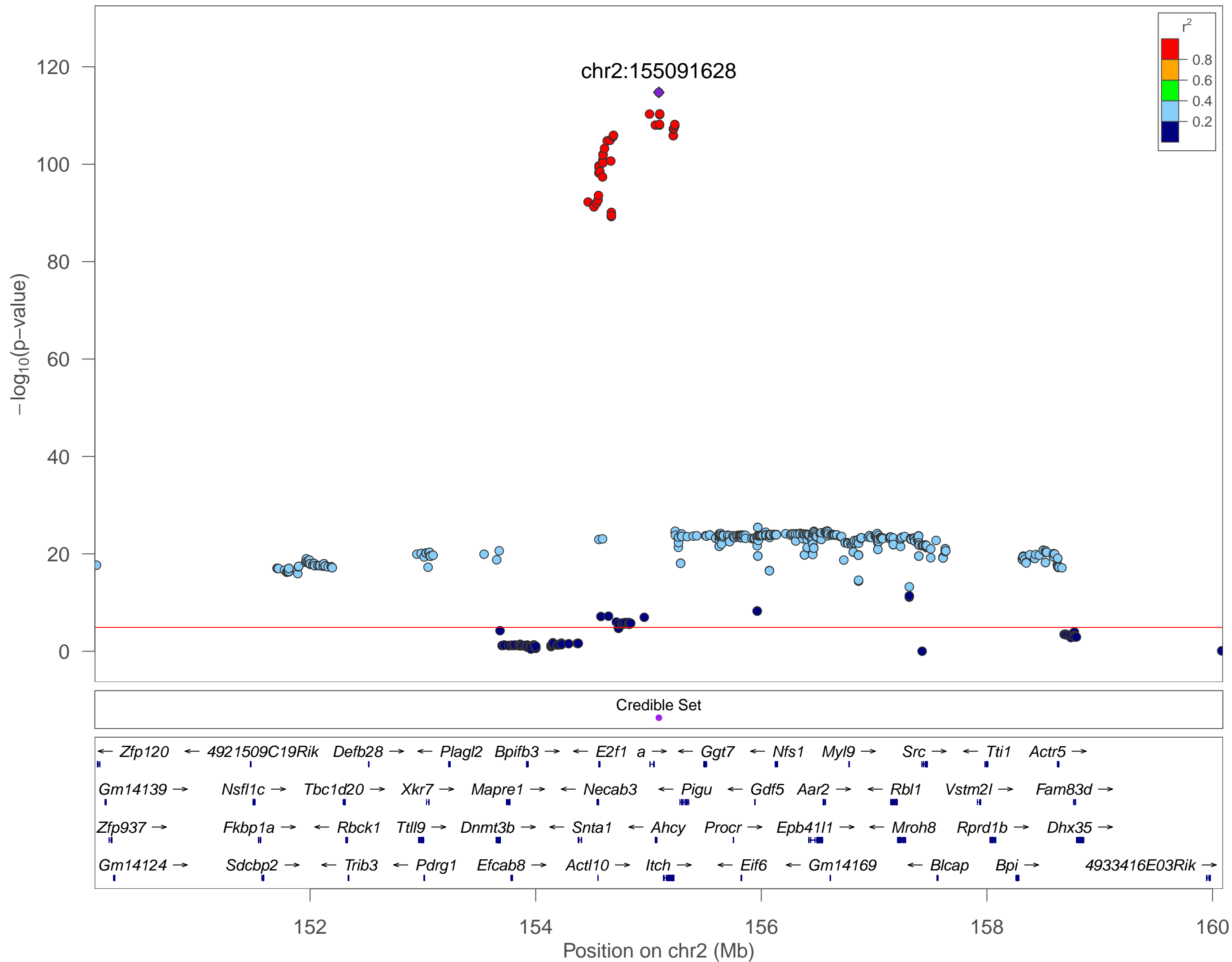


date: Thu Oct 25 17:21:12 2018
build: F3943GBS
display range: chr7:82255156–92255156 [82255156–92255156]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87255156
number of SNPs plotted: 313
min P-value: 5.91E–167 [chr7:87255156]
max P-value: 7.79E–4 [chr7:82271732]
omitted Genes: 4933406J10Rik, Mex3b, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79
omitted Genes: Me3, Ccdc81, I7Rn6
omitted Genes: E230029C05Rik, 2310010J17Rik, Ccdc83
omitted Genes: Crebzf, Tmem126a, Tmem126b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:87246786	7	87.24679	0.07055338	Credible Set	purple
chr7:87255156	7	87.25516	0.92467500	Credible Set	purple

F39–43 GBS, coat color, agouti



date: Thu Oct 25 17:21:58 2018

build: F3943GBS

display range: chr2:150091628–160091628 [150091628–160091628]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:155091628

number of SNPs plotted: 758

min P-value: 1.78E–115 [chr2:155091628]

max P-value: 9.64E–1 [chr2:157425605]

omitted Genes: 3300002I08Rik, Zfp442, Zfp345

omitted Genes: Cst7, Apmmap, Acss1

omitted Genes: E130215H24Rik, Vsx1, Entpd6

omitted Genes: Pygb, Abhd12, Gins1

omitted Genes: Ninl, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, Snph

omitted Genes: Rad21l, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Nrsn2, Sox12

omitted Genes: Zcchc3, 6820408C15Rik, Defb23

omitted Genes: Defb20, Defb22, Defb26

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Ccm2l

omitted Genes: Hck, Tm9sf4, Tspyl3

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Sun5, Bpifb2, Bpifb6

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: 2310005A03Rik, Dynlrb1, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncapg

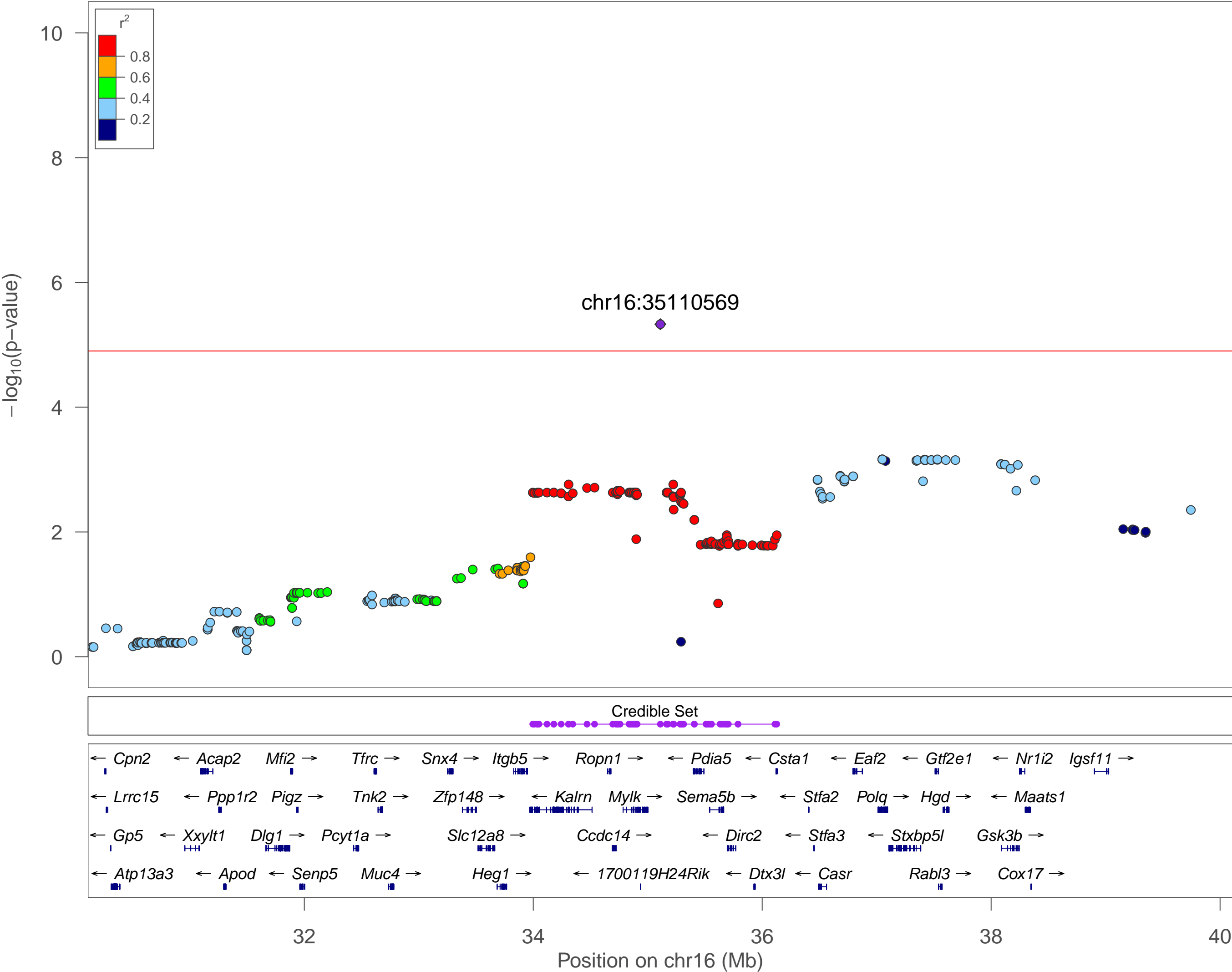
omitted Genes: Acss2, Acss2as, Gcs

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

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155091628	2	155.0916	0.9998944	Credible Set	purple

F39–43 GBS, light dark test, total distance moved from centerpoint



date: Thu Oct 25 17:22:08 2018
build: F3943GBS
display range: chr16:30110569–40110569 [30110569–40110569]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr16:35110569
number of SNPs plotted: 353
min P-value: 4.67E–6 [chr16:35110569]
max P-value: 7.87E–1 [chr16:31495890]
omitted Genes: Tmem44, Lsg1, Fam43a
omitted Genes: Bdh1, 0610012G03Rik, Ncbp2
omitted Genes: Gm15694, Pak2, Pigx
omitted Genes: Cep19, Nrros, Bex6
omitted Genes: Fbxo45, Wdr53, Mir1946a
omitted Genes: Smco1, Rnf168, Ubxn7
omitted Genes: Tm4sf19, Tctex1d2, Slc51a
omitted Genes: Zdhhc19, Tnk2os, Muc20
omitted Genes: Gm933, Rubcn, Fyttd1
omitted Genes: Lrch3, Iqcg, Rpl35a
omitted Genes: Lmfn, Mir1947, Osbpl11
omitted Genes: 1700007L15Rik, Muc13, Umps
omitted Genes: E130310I04Rik, Hacd2, Adcy5
omitted Genes: Sec22a, 1600019K03Rik, Hspbap1
omitted Genes: Parp14, Parp9, Kpna1
omitted Genes: Wdr5b, Fam162a, Ccdc58
omitted Genes: Stfa2l1, Gm5483, Gm6815
omitted Genes: Gm5416, 2010005H15Rik, Stfa1
omitted Genes: BC117090, BC100530, Cd86
omitted Genes: Ildr1, Slc15a2, Iqcb1
omitted Genes: 4930565N06Rik, Golgb1, Hcls1
omitted Genes: Fbxo40, Ndufb4, Fstl1
omitted Genes: Lrrc58, Gpr156, 4930542C21Rik
omitted Genes: BC031361, Popdc2, Pla1a
omitted Genes: Adprh, Cd80, Timmdc1
omitted Genes: Poglut1, Tmem39a, Arhgap31
omitted Genes: B4galt4, Upk1b, 4930435E12Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:33995903	16	33.99590	0.0024368050	Credible Set	purple
chr16:34010204	16	34.01020	0.0023962077	Credible Set	purple
chr16:34035325	16	34.03533	0.0023962077	Credible Set	purple
chr16:34036026	16	34.03603	0.0024368050	Credible Set	purple
chr16:34050045	16	34.05004	0.0024368050	Credible Set	purple
chr16:34120293	16	34.12029	0.0024368050	Credible Set	purple
chr16:34179072	16	34.17907	0.0024368050	Credible Set	purple
chr16:34179375	16	34.17938	0.0024368050	Credible Set	purple
chr16:34243886	16	34.24389	0.0023809430	Credible Set	purple
chr16:34307872	16	34.30787	0.0021342532	Credible Set	purple
chr16:34308832	16	34.30883	0.0032088489	Credible Set	purple
chr16:34345248	16	34.34525	0.0023771611	Credible Set	purple
chr16:34469856	16	34.46986	0.0028430192	Credible Set	purple
chr16:34535437	16	34.53544	0.0028795529	Credible Set	purple
chr16:34694709	16	34.69471	0.0024368050	Credible Set	purple
chr16:34723432	16	34.72343	0.0024368050	Credible Set	purple
chr16:34736017	16	34.73602	0.0022995103	Credible Set	purple
chr16:34736067	16	34.73607	0.0025934673	Credible Set	purple
chr16:34736543	16	34.73654	0.0024084851	Credible Set	purple
chr16:34736546	16	34.73655	0.0025316505	Credible Set	purple
chr16:34758455	16	34.75845	0.0025754154	Credible Set	purple
chr16:34837044	16	34.83704	0.0024368050	Credible Set	purple
chr16:34845368	16	34.84537	0.0024368050	Credible Set	purple
chr16:34848045	16	34.84804	0.0024368050	Credible Set	purple
chr16:34862374	16	34.86237	0.0024368050	Credible Set	purple
chr16:34878627	16	34.87863	0.0024368050	Credible Set	purple
chr16:34879746	16	34.87975	0.0023766208	Credible Set	purple
chr16:34880408	16	34.88041	0.0024368050	Credible Set	purple
chr16:34880442	16	34.88044	0.0024368050	Credible Set	purple
chr16:34899407	16	34.89941	0.0024368050	Credible Set	purple
chr16:34899479	16	34.89948	0.0024368050	Credible Set	purple
chr16:34899567	16	34.89957	0.0024368050	Credible Set	purple
chr16:34899593	16	34.89959	0.0024319097	Credible Set	purple
chr16:34899645	16	34.89964	0.0024319097	Credible Set	purple
chr16:34899669	16	34.89967	0.0005164153	Credible Set	purple
chr16:34899682	16	34.89968	0.0022494902	Credible Set	purple

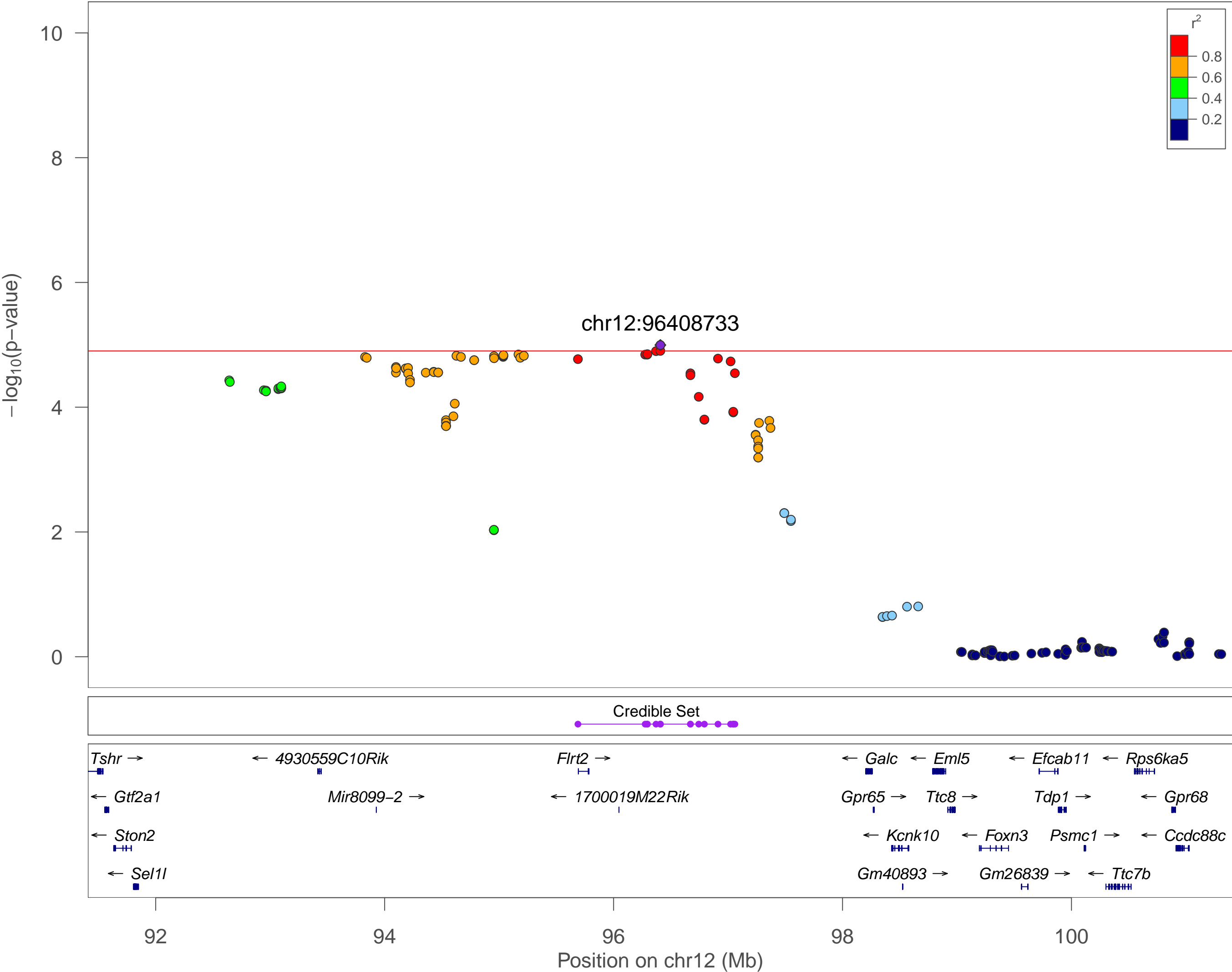
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:34899715	16	34.89972	0.0022174086	Credible Set	purple
chr16:34907286	16	34.90729	0.0022782650	Credible Set	purple
chr16:35110569	16	35.11057	0.8469245785	Credible Set	purple
chr16:35165377	16	35.16538	0.0024337472	Credible Set	purple
chr16:35165381	16	35.16538	0.0024337472	Credible Set	purple
chr16:35176099	16	35.17610	0.0024368050	Credible Set	purple
chr16:35222444	16	35.22244	0.0021450546	Credible Set	purple
chr16:35222475	16	35.22248	0.0021450546	Credible Set	purple
chr16:35222947	16	35.22295	0.0021160438	Credible Set	purple
chr16:35223024	16	35.22302	0.0032081124	Credible Set	purple
chr16:35226617	16	35.22662	0.0013740275	Credible Set	purple
chr16:35226697	16	35.22670	0.0020796366	Credible Set	purple
chr16:35282970	16	35.28297	0.0022315710	Credible Set	purple
chr16:35286816	16	35.28682	0.0023115616	Credible Set	purple
chr16:35290682	16	35.29068	0.0024184026	Credible Set	purple
chr16:35290929	16	35.29093	0.0024368050	Credible Set	purple
chr16:35291606	16	35.29161	0.0017806385	Credible Set	purple
chr16:35301999	16	35.30200	0.0017074395	Credible Set	purple
chr16:35303186	16	35.30319	0.0017229572	Credible Set	purple
chr16:35313747	16	35.31375	0.0016643743	Credible Set	purple
chr16:35406924	16	35.40692	0.0009783719	Credible Set	purple
chr16:35407400	16	35.40740	0.0009728870	Credible Set	purple
chr16:35509375	16	35.50937	0.0004403027	Credible Set	purple
chr16:35512153	16	35.51215	0.0004403027	Credible Set	purple
chr16:35514329	16	35.51433	0.0004403027	Credible Set	purple
chr16:35514333	16	35.51433	0.0004403027	Credible Set	purple
chr16:35514335	16	35.51434	0.0004403027	Credible Set	purple
chr16:35514337	16	35.51434	0.0004403027	Credible Set	purple
chr16:35519320	16	35.51932	0.0004440990	Credible Set	purple
chr16:35520175	16	35.52018	0.0004616747	Credible Set	purple
chr16:35535811	16	35.53581	0.0004527721	Credible Set	purple
chr16:35552316	16	35.55232	0.0004454180	Credible Set	purple
chr16:35552393	16	35.55239	0.0004475908	Credible Set	purple
chr16:35552802	16	35.55280	0.0004429417	Credible Set	purple
chr16:35554979	16	35.55498	0.0004531593	Credible Set	purple
chr16:35555052	16	35.55505	0.0004513451	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr16:35555962	16	35.55596	0.0004550084	Credible Set	purple
chr16:35555964	16	35.55596	0.0004815372	Credible Set	purple
chr16:35632372	16	35.63237	0.0004447240	Credible Set	purple
chr16:35648933	16	35.64893	0.0004452547	Credible Set	purple
chr16:35668489	16	35.66849	0.0004763965	Credible Set	purple
chr16:35688514	16	35.68851	0.0004971362	Credible Set	purple
chr16:35690798	16	35.69080	0.0005898687	Credible Set	purple
chr16:35691243	16	35.69124	0.0004954077	Credible Set	purple
chr16:35691297	16	35.69130	0.0005585339	Credible Set	purple
chr16:35704080	16	35.70408	0.0004846041	Credible Set	purple
chr16:35788676	16	35.78868	0.0004442823	Credible Set	purple
chr16:35789020	16	35.78902	0.0004427413	Credible Set	purple
chr16:36111216	16	36.11122	0.0005108505	Credible Set	purple
chr16:36127401	16	36.12740	0.0005881521	Credible Set	purple

F39–43 GBS, light dark test, transition frequency at center point



date: Thu Oct 25 17:22:18 2018

build: F3943GBS

display range: chr12:91408733–101408733 [91408733–101408733]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:96408733

number of SNPs plotted: 187

min P-value: 1.01E–5 [chr12:96408733]

max P-value: 9.91E–1 [chr12:99412684]

omitted Genes: Spata7, Ptpn21, Zc3h14

omitted Genes: 4930474N09Rik, 1700064M15Rik, Kcnk13

omitted Genes: Nrde2, Gm10433, Calm1

omitted Genes: Gm10432, 9030617O03Rik, Mir1190

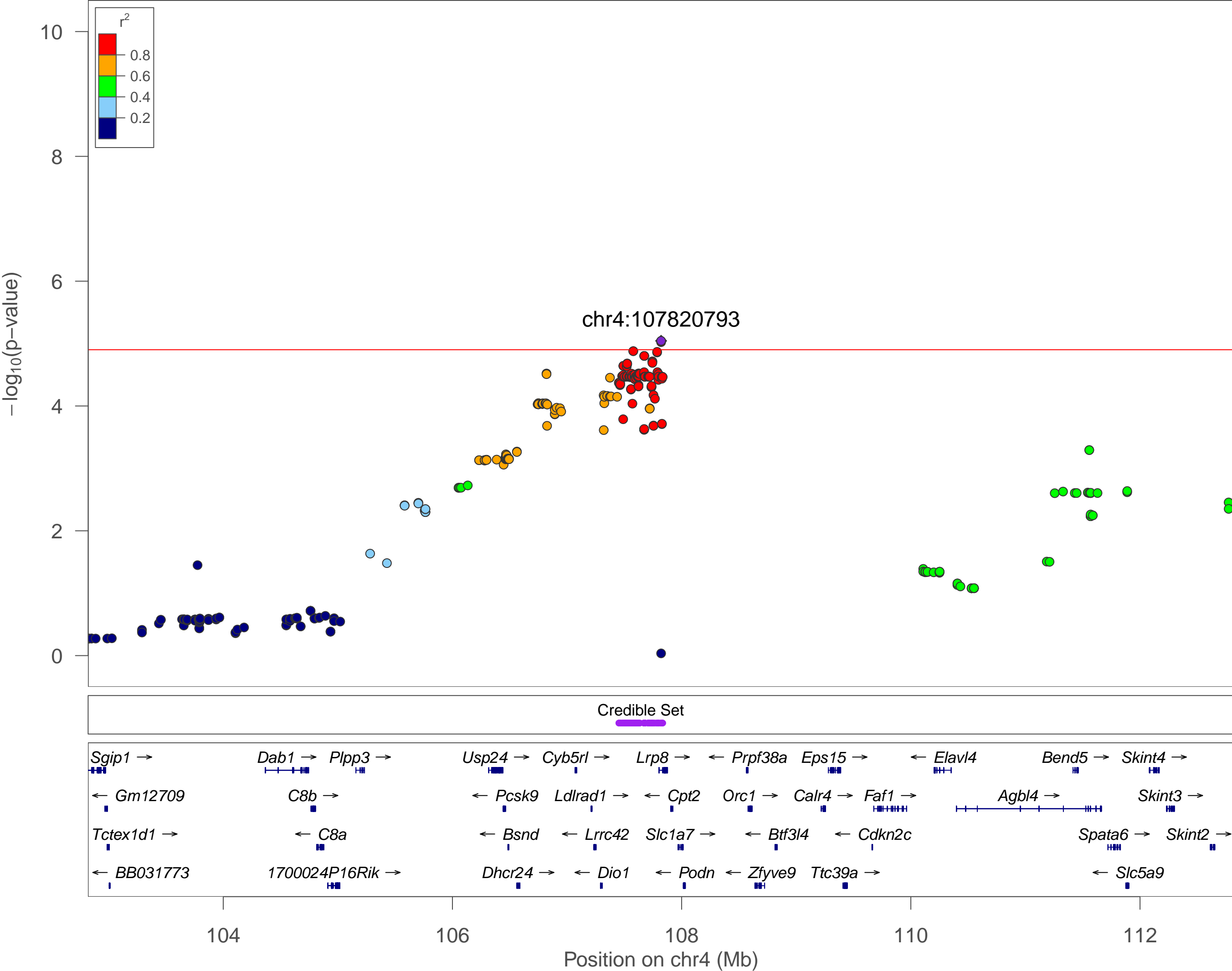
omitted Genes: Smek1, D130020L05Rik, Kif4-ps

omitted Genes: Catsperb

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr12:95688559	12	95.68856	0.066583928	Credible Set	purple
chr12:96276115	12	96.27612	0.078063741	Credible Set	purple
chr12:96293767	12	96.29377	0.077868747	Credible Set	purple
chr12:96295488	12	96.29549	0.079269278	Credible Set	purple
chr12:96370579	12	96.37058	0.088151618	Credible Set	purple
chr12:96408510	12	96.40851	0.088922195	Credible Set	purple
chr12:96408667	12	96.40867	0.109049512	Credible Set	purple
chr12:96408733	12	96.40873	0.109283651	Credible Set	purple
chr12:96671267	12	96.67127	0.040480551	Credible Set	purple
chr12:96671328	12	96.67133	0.037775520	Credible Set	purple
chr12:96743964	12	96.74396	0.017774380	Credible Set	purple
chr12:96793184	12	96.79318	0.008065971	Credible Set	purple
chr12:96912045	12	96.91205	0.067868114	Credible Set	purple
chr12:97022371	12	97.02237	0.061429753	Credible Set	purple
chr12:97045366	12	97.04537	0.010299811	Credible Set	purple
chr12:97045367	12	97.04537	0.010556824	Credible Set	purple
chr12:97059616	12	97.05962	0.040591987	Credible Set	purple

F39–43 GBS, light dark test, duration spent in zone light center point



date: Thu Oct 25 17:22:26 2018
build: F3943GBS
display range: chr4:102820793–112820793 [102820793–112820793]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr4:107820793
number of SNPs plotted: 382
min P-value: 9.04E–6 [chr4:107820793]
max P-value: 9.21E–1 [chr4:107820753]
omitted Genes: Insl5, Wdr78, Mier1
omitted Genes: Slc35d1, 4921539E11Rik, 4930456L15Rik
omitted Genes: Oma1, Gm12718, Prkaa2
omitted Genes: Lexm, Ttc22, Pars2
omitted Genes: Ttc4, Mroh7, Fam151a
omitted Genes: Acot11, Ssbp3, Mrpl37
omitted Genes: Cdcp2, Tceanc2, Tmem59
omitted Genes: Hspb11, Yipf1, Ndc1
omitted Genes: Glis1, Dmrtb1, Magoh
omitted Genes: 0610037L13Rik, 4930407G08Rik, Scp2
omitted Genes: Mir6397, Echdc2, Zyg11a
omitted Genes: Zyg11b, Coa7, Fam159a
omitted Genes: Gpx7, Zcchc11, Cc2d1b
omitted Genes: Txndc12, Kti12, Rab3b
omitted Genes: 8030443G20Rik, Nrd1, Mir761
omitted Genes: Osbp19, Ttc39aos1, Rnf11
omitted Genes: 4930522H14Rik, Dmrta2, Skint8
omitted Genes: Skint7, Skint1, Skint9
omitted Genes: Skint10, Skint6

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:107452487	4	107.4525	0.006139849	Credible Set	purple
chr4:107452522	4	107.4525	0.006210446	Credible Set	purple
chr4:107460844	4	107.4608	0.005884823	Credible Set	purple
chr4:107462435	4	107.4624	0.005929123	Credible Set	purple
chr4:107462443	4	107.4624	0.005685471	Credible Set	purple
chr4:107462966	4	107.4630	0.005927923	Credible Set	purple
chr4:107463057	4	107.4631	0.006242026	Credible Set	purple
chr4:107463550	4	107.4635	0.005804363	Credible Set	purple
chr4:107463697	4	107.4637	0.005890754	Credible Set	purple
chr4:107480817	4	107.4808	0.007801357	Credible Set	purple
chr4:107489799	4	107.4898	0.001733295	Credible Set	purple
chr4:107489889	4	107.4899	0.007645256	Credible Set	purple
chr4:107491410	4	107.4914	0.008082270	Credible Set	purple
chr4:107491522	4	107.4915	0.011163287	Credible Set	purple
chr4:107491535	4	107.4915	0.011163287	Credible Set	purple
chr4:107491555	4	107.4916	0.011163287	Credible Set	purple
chr4:107502298	4	107.5023	0.007645256	Credible Set	purple
chr4:107502806	4	107.5028	0.007645256	Credible Set	purple
chr4:107502862	4	107.5029	0.007645256	Credible Set	purple
chr4:107519045	4	107.5190	0.007645256	Credible Set	purple
chr4:107520793	4	107.5208	0.010952576	Credible Set	purple
chr4:107524390	4	107.5244	0.007655839	Credible Set	purple
chr4:107524399	4	107.5244	0.007748733	Credible Set	purple
chr4:107524747	4	107.5247	0.011850794	Credible Set	purple
chr4:107524800	4	107.5248	0.012169599	Credible Set	purple
chr4:107524808	4	107.5248	0.011839126	Credible Set	purple
chr4:107524812	4	107.5248	0.012062379	Credible Set	purple
chr4:107542864	4	107.5429	0.007645256	Credible Set	purple
chr4:107543088	4	107.5431	0.007645256	Credible Set	purple
chr4:107543347	4	107.5433	0.007621806	Credible Set	purple
chr4:107548442	4	107.5484	0.007645256	Credible Set	purple
chr4:107550049	4	107.5500	0.007539375	Credible Set	purple
chr4:107550052	4	107.5501	0.007542804	Credible Set	purple
chr4:107550153	4	107.5502	0.007645256	Credible Set	purple
chr4:107558047	4	107.5580	0.004953255	Credible Set	purple
chr4:107558061	4	107.5581	0.004872070	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:107558064	4	107.5581	0.004970102	Credible Set	purple
chr4:107561625	4	107.5616	0.008519314	Credible Set	purple
chr4:107563786	4	107.5638	0.007555548	Credible Set	purple
chr4:107570421	4	107.5704	0.002980557	Credible Set	purple
chr4:107570446	4	107.5704	0.008029709	Credible Set	purple
chr4:107570783	4	107.5708	0.007555548	Credible Set	purple
chr4:107578001	4	107.5780	0.018747346	Credible Set	purple
chr4:107578013	4	107.5780	0.018747346	Credible Set	purple
chr4:107589309	4	107.5893	0.007588680	Credible Set	purple
chr4:107589365	4	107.5894	0.007564067	Credible Set	purple
chr4:107589847	4	107.5898	0.007645256	Credible Set	purple
chr4:107589899	4	107.5899	0.007645256	Credible Set	purple
chr4:107590217	4	107.5902	0.007645256	Credible Set	purple
chr4:107590304	4	107.5903	0.008225228	Credible Set	purple
chr4:107590311	4	107.5903	0.008113060	Credible Set	purple
chr4:107590318	4	107.5903	0.008204375	Credible Set	purple
chr4:107590777	4	107.5908	0.007038290	Credible Set	purple
chr4:107590782	4	107.5908	0.006994323	Credible Set	purple
chr4:107590825	4	107.5908	0.007016611	Credible Set	purple
chr4:107601123	4	107.6011	0.007645256	Credible Set	purple
chr4:107601170	4	107.6012	0.007645256	Credible Set	purple
chr4:107602251	4	107.6023	0.007541042	Credible Set	purple
chr4:107603006	4	107.6030	0.007645256	Credible Set	purple
chr4:107603359	4	107.6034	0.007217989	Credible Set	purple
chr4:107603395	4	107.6034	0.007240987	Credible Set	purple
chr4:107614922	4	107.6149	0.007645256	Credible Set	purple
chr4:107619675	4	107.6197	0.007645256	Credible Set	purple
chr4:107619763	4	107.6198	0.007756452	Credible Set	purple
chr4:107623179	4	107.6232	0.007761225	Credible Set	purple
chr4:107623470	4	107.6235	0.005729825	Credible Set	purple
chr4:107623488	4	107.6235	0.005554516	Credible Set	purple
chr4:107623496	4	107.6235	0.005426062	Credible Set	purple
chr4:107623506	4	107.6235	0.005517344	Credible Set	purple
chr4:107623515	4	107.6235	0.005488297	Credible Set	purple
chr4:107623565	4	107.6236	0.007779348	Credible Set	purple
chr4:107623613	4	107.6236	0.008569345	Credible Set	purple

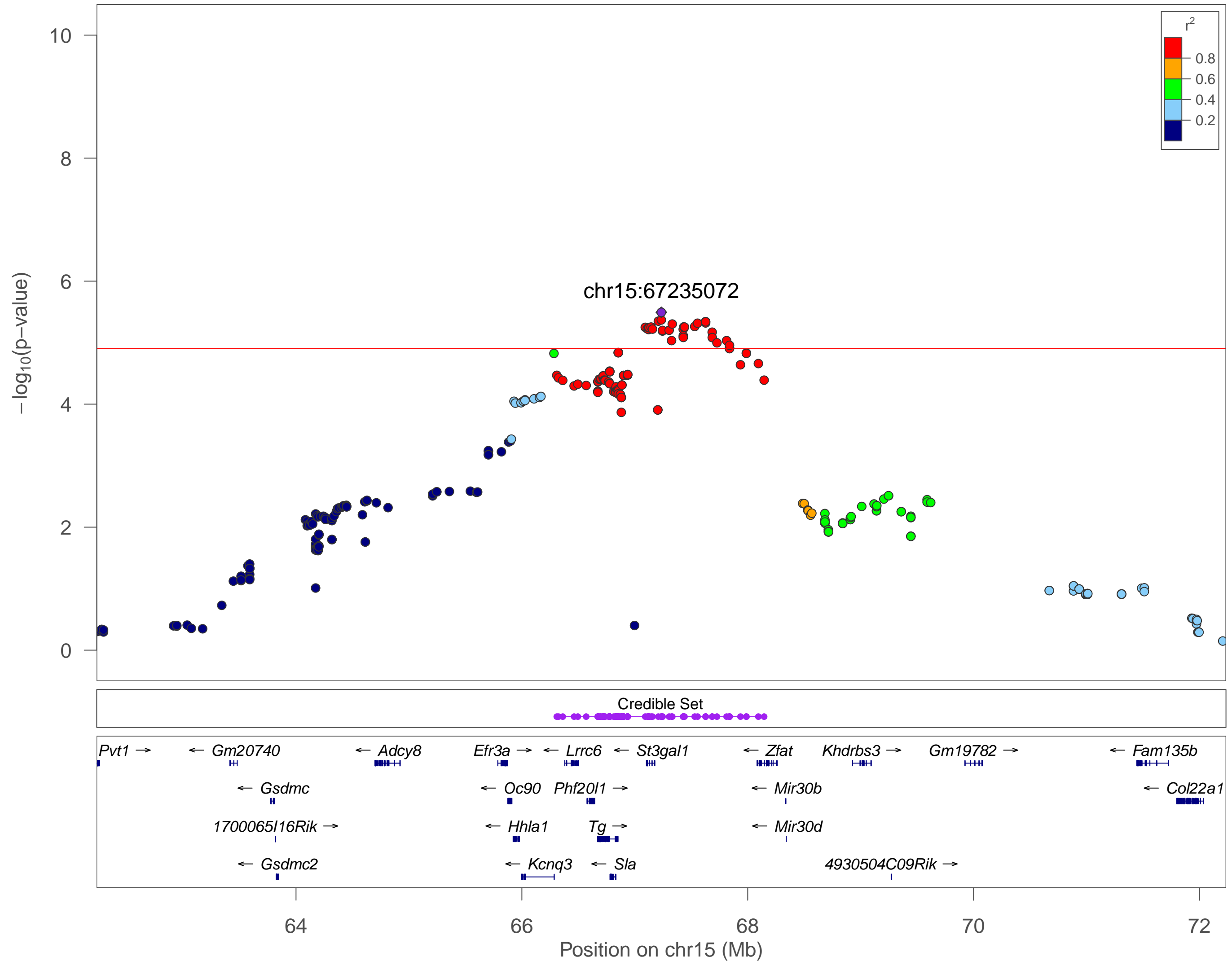
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:107624024	4	107.6240	0.005470502	Credible Set	purple
chr4:107630955	4	107.6310	0.008527009	Credible Set	purple
chr4:107636029	4	107.6360	0.008427555	Credible Set	purple
chr4:107671009	4	107.6710	0.008181240	Credible Set	purple
chr4:107671349	4	107.6713	0.008547164	Credible Set	purple
chr4:107672292	4	107.6723	0.008584331	Credible Set	purple
chr4:107672310	4	107.6723	0.008491017	Credible Set	purple
chr4:107672333	4	107.6723	0.008952812	Credible Set	purple
chr4:107673647	4	107.6736	0.015849244	Credible Set	purple
chr4:107673650	4	107.6736	0.015849244	Credible Set	purple
chr4:107673669	4	107.6737	0.015849244	Credible Set	purple
chr4:107676434	4	107.6764	0.007645256	Credible Set	purple
chr4:107677045	4	107.6770	0.007645256	Credible Set	purple
chr4:107677381	4	107.6774	0.007645256	Credible Set	purple
chr4:107680225	4	107.6802	0.007645256	Credible Set	purple
chr4:107681615	4	107.6816	0.007645256	Credible Set	purple
chr4:107707410	4	107.7074	0.007735884	Credible Set	purple
chr4:107707549	4	107.7075	0.007645256	Credible Set	purple
chr4:107707574	4	107.7076	0.007645256	Credible Set	purple
chr4:107710876	4	107.7109	0.007645256	Credible Set	purple
chr4:107719853	4	107.7199	0.007645256	Credible Set	purple
chr4:107719899	4	107.7199	0.007645256	Credible Set	purple
chr4:107736672	4	107.7367	0.005306097	Credible Set	purple
chr4:107737167	4	107.7372	0.005521127	Credible Set	purple
chr4:107744658	4	107.7447	0.013103814	Credible Set	purple
chr4:107744663	4	107.7447	0.012946291	Credible Set	purple
chr4:107744682	4	107.7447	0.012392523	Credible Set	purple
chr4:107754250	4	107.7542	0.004010015	Credible Set	purple
chr4:107766842	4	107.7668	0.003532624	Credible Set	purple
chr4:107785888	4	107.7859	0.017900074	Credible Set	purple
chr4:107785926	4	107.7859	0.018294844	Credible Set	purple
chr4:107789013	4	107.7890	0.008962432	Credible Set	purple
chr4:107797328	4	107.7973	0.006837035	Credible Set	purple
chr4:107797813	4	107.7978	0.008409549	Credible Set	purple
chr4:107800894	4	107.8009	0.007680796	Credible Set	purple
chr4:107820793	4	107.8208	0.026928760	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:107820800	4	107.8208	0.025762219	Credible Set	purple
chr4:107827933	4	107.8279	0.001462287	Credible Set	purple
chr4:107827937	4	107.8279	0.001481504	Credible Set	purple
chr4:107827946	4	107.8279	0.007385856	Credible Set	purple
chr4:107828049	4	107.8280	0.007124388	Credible Set	purple
chr4:107828736	4	107.8287	0.007645256	Credible Set	purple
chr4:107828810	4	107.8288	0.007645256	Credible Set	purple
chr4:107828843	4	107.8288	0.007645256	Credible Set	purple
chr4:107828858	4	107.8289	0.007645256	Credible Set	purple
chr4:107834883	4	107.8349	0.007575529	Credible Set	purple

F39–43 GBS, locomotor test day 2, total distance travelled in 30min (cm)



date: Thu Oct 25 17:22:36 2018

build: F3943GBS

display range: chr15:62235072–72235072 [62235072–72235072]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:67235072

number of SNPs plotted: 310

min P-value: 3.21E–6 [chr15:67235072]

max P-value: 7.1E–1 [chr15:72206582]

omitted Genes: Gsdmcl1, Gsdmc3, Gsdmcl2

omitted Genes: Gsdmc4, Gsdmcl-ps, Fam49b

omitted Genes: Asap1, Tmem71, Wisp1

omitted Genes: Ndr1, 1700012I11Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66309070	15	66.30907	0.004218721	Credible Set	purple
chr15:66324506	15	66.32451	0.003847034	Credible Set	purple
chr15:66361813	15	66.36181	0.003523650	Credible Set	purple
chr15:66462727	15	66.46273	0.002893196	Credible Set	purple
chr15:66495529	15	66.49553	0.003080992	Credible Set	purple
chr15:66569471	15	66.56947	0.002943707	Credible Set	purple
chr15:66672984	15	66.67298	0.002364374	Credible Set	purple
chr15:66672997	15	66.67300	0.002396174	Credible Set	purple
chr15:66673010	15	66.67301	0.002381686	Credible Set	purple
chr15:66673015	15	66.67302	0.002304852	Credible Set	purple
chr15:66673436	15	66.67344	0.003341858	Credible Set	purple
chr15:66673541	15	66.67354	0.003372912	Credible Set	purple
chr15:66673940	15	66.67394	0.003385618	Credible Set	purple
chr15:66685097	15	66.68510	0.003667083	Credible Set	purple
chr15:66696518	15	66.69652	0.003683460	Credible Set	purple
chr15:66699723	15	66.69972	0.003729646	Credible Set	purple
chr15:66719126	15	66.71913	0.003898221	Credible Set	purple
chr15:66719241	15	66.71924	0.004140018	Credible Set	purple
chr15:66720772	15	66.72077	0.004121078	Credible Set	purple
chr15:66730424	15	66.73042	0.003560449	Credible Set	purple
chr15:66737376	15	66.73738	0.003519368	Credible Set	purple
chr15:66768701	15	66.76870	0.003341876	Credible Set	purple
chr15:66777400	15	66.77740	0.003179822	Credible Set	purple
chr15:66777425	15	66.77742	0.003127549	Credible Set	purple
chr15:66777461	15	66.77746	0.003138400	Credible Set	purple
chr15:66777706	15	66.77771	0.004896398	Credible Set	purple
chr15:66777728	15	66.77773	0.004816430	Credible Set	purple
chr15:66777729	15	66.77773	0.004843788	Credible Set	purple
chr15:66777730	15	66.77773	0.004809500	Credible Set	purple
chr15:66777731	15	66.77773	0.004763740	Credible Set	purple
chr15:66777743	15	66.77774	0.004802494	Credible Set	purple
chr15:66812941	15	66.81294	0.002370029	Credible Set	purple
chr15:66826934	15	66.82693	0.002388166	Credible Set	purple
chr15:66834506	15	66.83451	0.002747356	Credible Set	purple
chr15:66834532	15	66.83453	0.002755779	Credible Set	purple
chr15:66834574	15	66.83457	0.002766909	Credible Set	purple

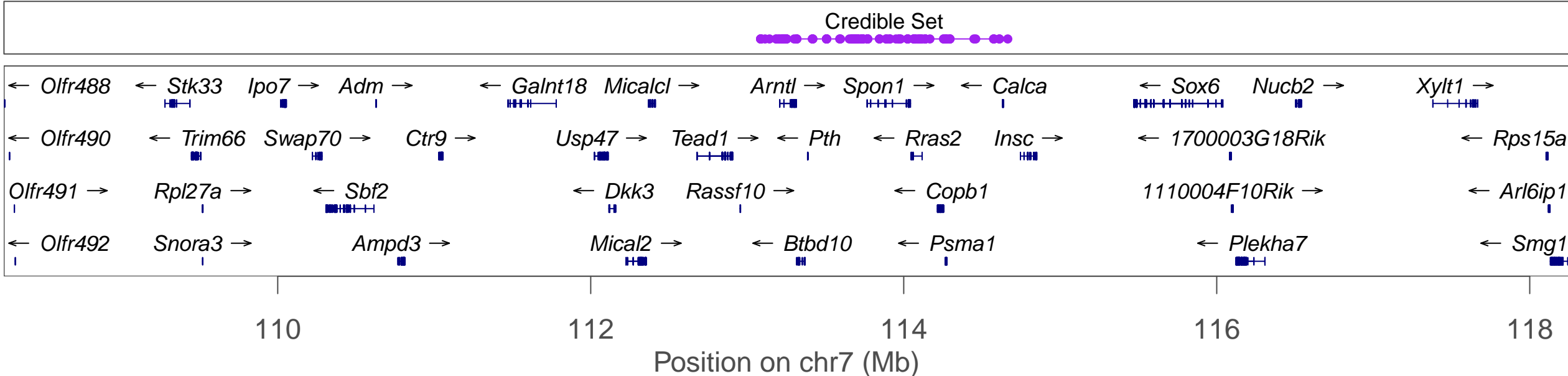
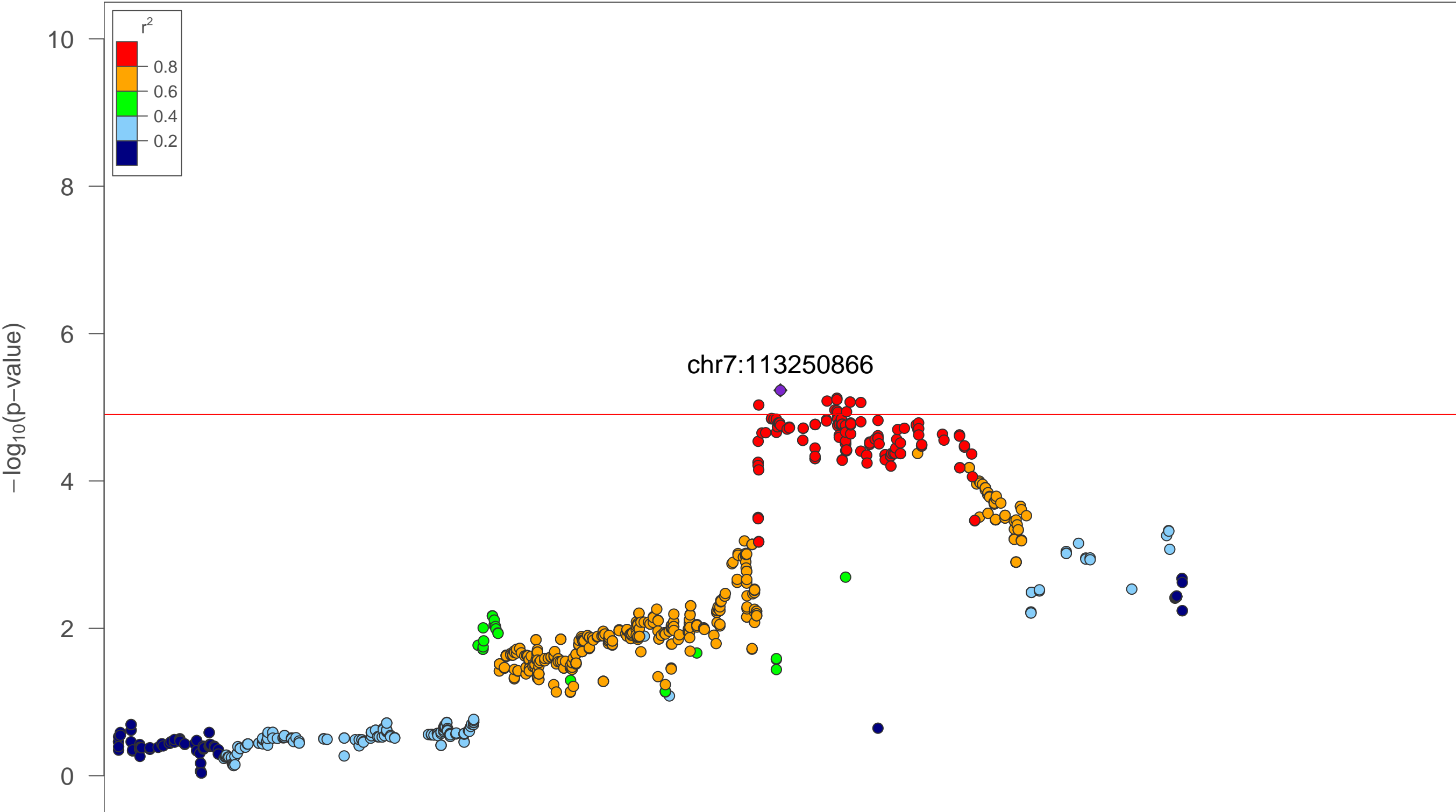
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834575	15	66.83458	0.002806045	Credible Set	purple
chr15:66834600	15	66.83460	0.002326459	Credible Set	purple
chr15:66834621	15	66.83462	0.002390184	Credible Set	purple
chr15:66834624	15	66.83462	0.002336239	Credible Set	purple
chr15:66834637	15	66.83464	0.002272719	Credible Set	purple
chr15:66853166	15	66.85317	0.002560343	Credible Set	purple
chr15:66853439	15	66.85344	0.002425835	Credible Set	purple
chr15:66853460	15	66.85346	0.002412435	Credible Set	purple
chr15:66853489	15	66.85349	0.002427979	Credible Set	purple
chr15:66853520	15	66.85352	0.002184658	Credible Set	purple
chr15:66853893	15	66.85389	0.009535500	Credible Set	purple
chr15:66853894	15	66.85389	0.009432374	Credible Set	purple
chr15:66853923	15	66.85392	0.009487307	Credible Set	purple
chr15:66853954	15	66.85395	0.009436047	Credible Set	purple
chr15:66872519	15	66.87252	0.002135683	Credible Set	purple
chr15:66880635	15	66.88063	0.001921461	Credible Set	purple
chr15:66886219	15	66.88622	0.002992645	Credible Set	purple
chr15:66886266	15	66.88627	0.002980984	Credible Set	purple
chr15:66901528	15	66.90153	0.004201679	Credible Set	purple
chr15:66901548	15	66.90155	0.004201679	Credible Set	purple
chr15:66901593	15	66.90159	0.004201679	Credible Set	purple
chr15:66935376	15	66.93538	0.004259205	Credible Set	purple
chr15:66935390	15	66.93539	0.004259205	Credible Set	purple
chr15:66935391	15	66.93539	0.004259205	Credible Set	purple
chr15:66935405	15	66.93541	0.004259205	Credible Set	purple
chr15:66937231	15	66.93723	0.004348588	Credible Set	purple
chr15:66937423	15	66.93742	0.004326168	Credible Set	purple
chr15:67092666	15	67.09267	0.023397132	Credible Set	purple
chr15:67111279	15	67.11128	0.022180952	Credible Set	purple
chr15:67121570	15	67.12157	0.021663589	Credible Set	purple
chr15:67121571	15	67.12157	0.021703182	Credible Set	purple
chr15:67121756	15	67.12176	0.023177643	Credible Set	purple
chr15:67126159	15	67.12616	0.023149580	Credible Set	purple
chr15:67144054	15	67.14405	0.023635943	Credible Set	purple
chr15:67156480	15	67.15648	0.021964536	Credible Set	purple
chr15:67208761	15	67.20876	0.029211974	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67234910	15	67.23491	0.030492843	Credible Set	purple
chr15:67235072	15	67.23507	0.040065247	Credible Set	purple
chr15:67245093	15	67.24509	0.020492326	Credible Set	purple
chr15:67245123	15	67.24512	0.020986614	Credible Set	purple
chr15:67304194	15	67.30419	0.021077940	Credible Set	purple
chr15:67325463	15	67.32546	0.014546746	Credible Set	purple
chr15:67331738	15	67.33174	0.026328169	Credible Set	purple
chr15:67428857	15	67.42886	0.021852100	Credible Set	purple
chr15:67429407	15	67.42941	0.017335645	Credible Set	purple
chr15:67429420	15	67.42942	0.016288454	Credible Set	purple
chr15:67433395	15	67.43340	0.023764279	Credible Set	purple
chr15:67439974	15	67.43997	0.023625179	Credible Set	purple
chr15:67530570	15	67.53057	0.024089841	Credible Set	purple
chr15:67555683	15	67.55568	0.027120550	Credible Set	purple
chr15:67627161	15	67.62716	0.027397710	Credible Set	purple
chr15:67627183	15	67.62718	0.028716840	Credible Set	purple
chr15:67627194	15	67.62719	0.028529663	Credible Set	purple
chr15:67685224	15	67.68522	0.019665874	Credible Set	purple
chr15:67685781	15	67.68578	0.016203904	Credible Set	purple
chr15:67727448	15	67.72745	0.013448954	Credible Set	purple
chr15:67812971	15	67.81297	0.014546955	Credible Set	purple
chr15:67838708	15	67.83871	0.011277705	Credible Set	purple
chr15:67838720	15	67.83872	0.010906976	Credible Set	purple
chr15:67838721	15	67.83872	0.012305026	Credible Set	purple
chr15:67935812	15	67.93581	0.006137792	Credible Set	purple
chr15:67987913	15	67.98791	0.009345022	Credible Set	purple
chr15:67987932	15	67.98793	0.009214896	Credible Set	purple
chr15:68094377	15	68.09438	0.006410000	Credible Set	purple
chr15:68145325	15	68.14532	0.003551565	Credible Set	purple

F39–43 GBS, locomotor test day 3, total distance travelled in 30min (cm)



date: Thu Oct 25 17:22:48 2018
build: F3943GBS
display range: chr7:108250866–118250866 [108250866–118250866]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:113250866
number of SNPs plotted: 880
min P-value: 5.88E–6 [chr7:113250866]
max P-value: 9.18E–1 [chr7:108970686]
omitted Genes: Olfr493, Olfr494, Olfr495
omitted Genes: Olfr497, Olfr498, Olfr502
omitted Genes: Olfr503, Olfr504, Olfr506
omitted Genes: Olfr507, Olfr508, Olfr509
omitted Genes: Olfr510, Olfr512, Olfr513
omitted Genes: Olfr514, Olfr516, Olfr517
omitted Genes: Olfr518, Olfr519, Nlrp10
omitted Genes: Eif3f, Tub, Ric3
omitted Genes: Lmo1, St5, Akip1
omitted Genes: BC051019, Ascl3, Tmem9b
omitted Genes: Nrip3, Scube2, Dennd5a
omitted Genes: Tmem41b, 1600010M07Rik, Snora23
omitted Genes: Zfp143, Wee1, Rnf141
omitted Genes: Lyve1, Mrvi1, Gm16336
omitted Genes: Eif4g2, 1700012D14Rik, Parva
omitted Genes: 4930543E12Rik, Far1, Far1os
omitted Genes: 4933406I18Rik, Pde3b, Cyp2r1
omitted Genes: Calcb, A730082K24Rik, Rps13
omitted Genes: Snord14a, Pik3c2a, 4930583K01Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:113085544	7	113.0855	0.002796477	Credible Set	purple
chr7:113085717	7	113.0857	0.002819713	Credible Set	purple
chr7:113085735	7	113.0857	0.002568453	Credible Set	purple
chr7:113086048	7	113.0860	0.005247494	Credible Set	purple
chr7:113090456	7	113.0905	0.015481312	Credible Set	purple
chr7:113114328	7	113.1143	0.006730116	Credible Set	purple
chr7:113141980	7	113.1420	0.006781083	Credible Set	purple
chr7:113184658	7	113.1847	0.010244835	Credible Set	purple
chr7:113185148	7	113.1851	0.010362436	Credible Set	purple
chr7:113203215	7	113.2032	0.010206688	Credible Set	purple
chr7:113203253	7	113.2033	0.010182231	Credible Set	purple
chr7:113220615	7	113.2206	0.010150578	Credible Set	purple
chr7:113221228	7	113.2212	0.006839210	Credible Set	purple
chr7:113229151	7	113.2292	0.008137461	Credible Set	purple
chr7:113229207	7	113.2292	0.008079794	Credible Set	purple
chr7:113235202	7	113.2352	0.009099652	Credible Set	purple
chr7:113241920	7	113.2419	0.008951104	Credible Set	purple
chr7:113242507	7	113.2425	0.008951104	Credible Set	purple
chr7:113242523	7	113.2425	0.008951104	Credible Set	purple
chr7:113245448	7	113.2454	0.009046167	Credible Set	purple
chr7:113250866	7	113.2509	0.024015711	Credible Set	purple
chr7:113251619	7	113.2516	0.008432309	Credible Set	purple
chr7:113251923	7	113.2519	0.008431163	Credible Set	purple
chr7:113300135	7	113.3001	0.007541746	Credible Set	purple
chr7:113316522	7	113.3165	0.008003237	Credible Set	purple
chr7:113316880	7	113.3169	0.007972719	Credible Set	purple
chr7:113317049	7	113.3170	0.007820710	Credible Set	purple
chr7:113416115	7	113.4161	0.005391595	Credible Set	purple
chr7:113416126	7	113.4161	0.005415708	Credible Set	purple
chr7:113419158	7	113.4192	0.007710598	Credible Set	purple
chr7:113419175	7	113.4192	0.007776287	Credible Set	purple
chr7:113506581	7	113.5066	0.004301741	Credible Set	purple
chr7:113506703	7	113.5067	0.003137199	Credible Set	purple
chr7:113506713	7	113.5067	0.003153893	Credible Set	purple
chr7:113506834	7	113.5068	0.003366335	Credible Set	purple
chr7:113507166	7	113.5072	0.008622940	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:113507171	7	113.5072	0.008695265	Credible Set	purple
chr7:113507899	7	113.5079	0.008654981	Credible Set	purple
chr7:113507930	7	113.5079	0.008654981	Credible Set	purple
chr7:113591658	7	113.5917	0.009966100	Credible Set	purple
chr7:113591661	7	113.5917	0.009599952	Credible Set	purple
chr7:113595728	7	113.5957	0.017412622	Credible Set	purple
chr7:113652590	7	113.6526	0.013349584	Credible Set	purple
chr7:113668251	7	113.6683	0.013081478	Credible Set	purple
chr7:113668346	7	113.6683	0.018986237	Credible Set	purple
chr7:113668406	7	113.6684	0.018178367	Credible Set	purple
chr7:113674001	7	113.6740	0.011109042	Credible Set	purple
chr7:113674010	7	113.6740	0.012488081	Credible Set	purple
chr7:113674041	7	113.6740	0.010135776	Credible Set	purple
chr7:113674594	7	113.6746	0.008623906	Credible Set	purple
chr7:113674603	7	113.6746	0.008342368	Credible Set	purple
chr7:113685578	7	113.6856	0.008692391	Credible Set	purple
chr7:113685734	7	113.6857	0.006284474	Credible Set	purple
chr7:113685763	7	113.6858	0.005909508	Credible Set	purple
chr7:113701178	7	113.7012	0.010191691	Credible Set	purple
chr7:113701223	7	113.7012	0.010199906	Credible Set	purple
chr7:113701622	7	113.7016	0.008505141	Credible Set	purple
chr7:113701636	7	113.7016	0.008543398	Credible Set	purple
chr7:113707091	7	113.7071	0.008729783	Credible Set	purple
chr7:113707401	7	113.7074	0.008643357	Credible Set	purple
chr7:113707540	7	113.7075	0.008720290	Credible Set	purple
chr7:113707570	7	113.7076	0.003035583	Credible Set	purple
chr7:113707711	7	113.7077	0.002992048	Credible Set	purple
chr7:113732491	7	113.7325	0.008064347	Credible Set	purple
chr7:113732536	7	113.7325	0.004901827	Credible Set	purple
chr7:113732545	7	113.7325	0.004945548	Credible Set	purple
chr7:113732598	7	113.7326	0.004834842	Credible Set	purple
chr7:113732713	7	113.7327	0.008322569	Credible Set	purple
chr7:113732753	7	113.7328	0.008443791	Credible Set	purple
chr7:113732795	7	113.7328	0.005314738	Credible Set	purple
chr7:113732809	7	113.7328	0.006881168	Credible Set	purple
chr7:113733239	7	113.7332	0.003977621	Credible Set	purple

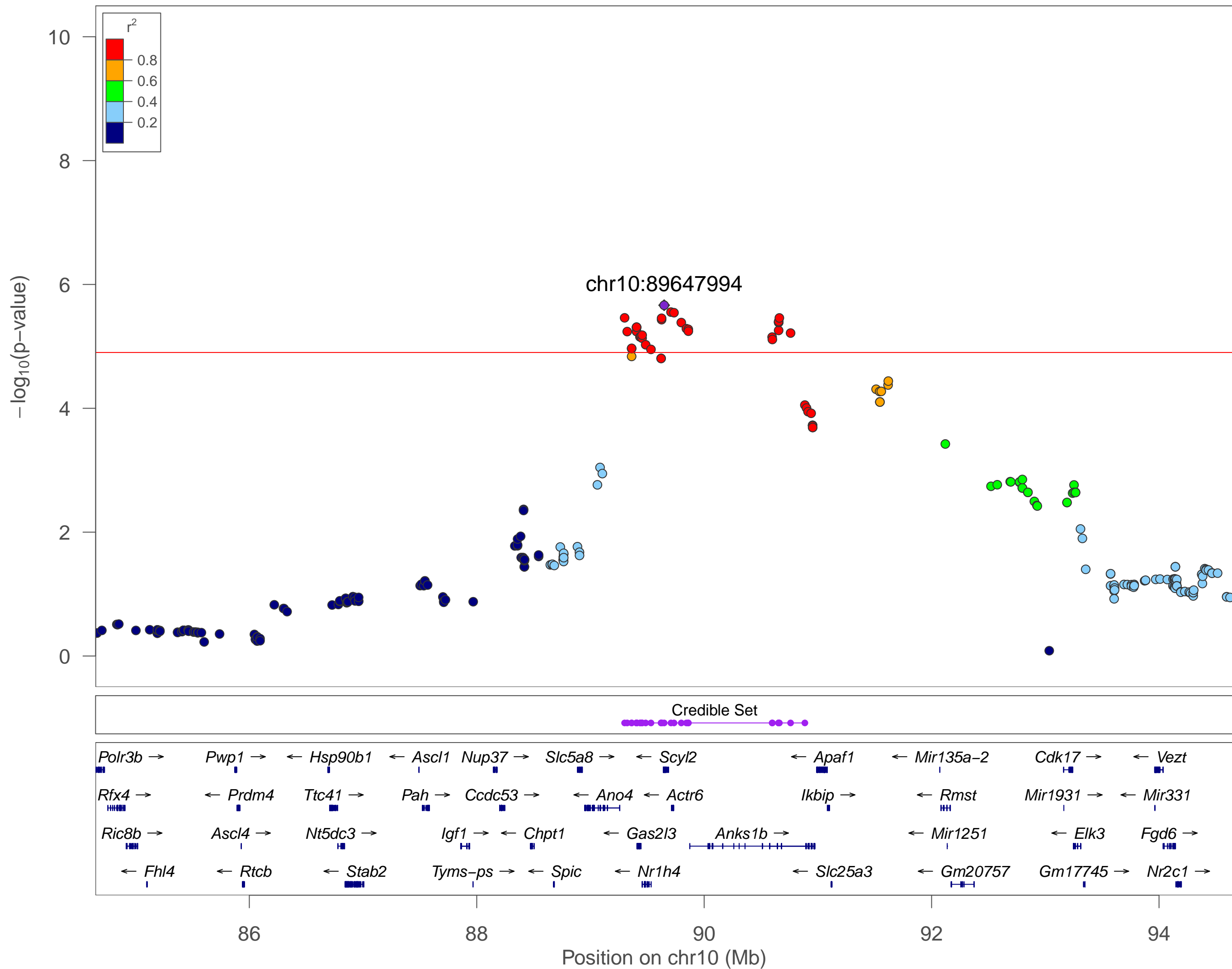
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:113739150	7	113.7391	0.003957119	Credible Set	purple
chr7:113739171	7	113.7392	0.004027427	Credible Set	purple
chr7:113739179	7	113.7392	0.004065202	Credible Set	purple
chr7:113739386	7	113.7394	0.012654550	Credible Set	purple
chr7:113766388	7	113.7664	0.016892162	Credible Set	purple
chr7:113766440	7	113.7664	0.016892162	Credible Set	purple
chr7:113769934	7	113.7699	0.006550702	Credible Set	purple
chr7:113770008	7	113.7700	0.009061291	Credible Set	purple
chr7:113770031	7	113.7700	0.008562666	Credible Set	purple
chr7:113770154	7	113.7702	0.008827398	Credible Set	purple
chr7:113844950	7	113.8449	0.003918973	Credible Set	purple
chr7:113844980	7	113.8450	0.009386433	Credible Set	purple
chr7:113844999	7	113.8450	0.016683601	Credible Set	purple
chr7:113887720	7	113.8877	0.003448300	Credible Set	purple
chr7:113887792	7	113.8878	0.003495612	Credible Set	purple
chr7:113890924	7	113.8909	0.002754082	Credible Set	purple
chr7:113911095	7	113.9111	0.005141458	Credible Set	purple
chr7:113911106	7	113.9111	0.004786978	Credible Set	purple
chr7:113911113	7	113.9111	0.004989588	Credible Set	purple
chr7:113950754	7	113.9508	0.005593657	Credible Set	purple
chr7:113971635	7	113.9716	0.006208169	Credible Set	purple
chr7:113971799	7	113.9718	0.009760761	Credible Set	purple
chr7:113971835	7	113.9718	0.005758970	Credible Set	purple
chr7:113971836	7	113.9718	0.005758970	Credible Set	purple
chr7:113971886	7	113.9719	0.005758970	Credible Set	purple
chr7:113980077	7	113.9801	0.004867257	Credible Set	purple
chr7:114025271	7	114.0253	0.003474267	Credible Set	purple
chr7:114025295	7	114.0253	0.003528738	Credible Set	purple
chr7:114025329	7	114.0253	0.003488529	Credible Set	purple
chr7:114025421	7	114.0254	0.003533123	Credible Set	purple
chr7:114025449	7	114.0254	0.003031656	Credible Set	purple
chr7:114064763	7	114.0648	0.003381599	Credible Set	purple
chr7:114064790	7	114.0648	0.003381599	Credible Set	purple
chr7:114065169	7	114.0652	0.003395443	Credible Set	purple
chr7:114065223	7	114.0652	0.003379083	Credible Set	purple
chr7:114065340	7	114.0653	0.003400781	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:114067633	7	114.0676	0.002516105	Credible Set	purple
chr7:114072319	7	114.0723	0.003650765	Credible Set	purple
chr7:114072371	7	114.0724	0.003649414	Credible Set	purple
chr7:114087599	7	114.0876	0.003680860	Credible Set	purple
chr7:114097503	7	114.0975	0.003679244	Credible Set	purple
chr7:114103184	7	114.1032	0.004298548	Credible Set	purple
chr7:114110302	7	114.1103	0.005565783	Credible Set	purple
chr7:114117795	7	114.1178	0.007454142	Credible Set	purple
chr7:114137930	7	114.1379	0.005002165	Credible Set	purple
chr7:114138279	7	114.1383	0.003640964	Credible Set	purple
chr7:114138316	7	114.1383	0.003649746	Credible Set	purple
chr7:114167242	7	114.1672	0.007733764	Credible Set	purple
chr7:114254780	7	114.2548	0.008477343	Credible Set	purple
chr7:114254849	7	114.2548	0.008566051	Credible Set	purple
chr7:114267072	7	114.2671	0.007429313	Credible Set	purple
chr7:114272429	7	114.2724	0.009074710	Credible Set	purple
chr7:114272945	7	114.2729	0.007657361	Credible Set	purple
chr7:114272958	7	114.2730	0.006341523	Credible Set	purple
chr7:114294236	7	114.2942	0.004606543	Credible Set	purple
chr7:114294864	7	114.2949	0.004544244	Credible Set	purple
chr7:114294958	7	114.2950	0.004716236	Credible Set	purple
chr7:114295531	7	114.2955	0.004761816	Credible Set	purple
chr7:114448685	7	114.4487	0.006479947	Credible Set	purple
chr7:114459930	7	114.4599	0.005434514	Credible Set	purple
chr7:114574313	7	114.5743	0.006357905	Credible Set	purple
chr7:114574808	7	114.5748	0.006119974	Credible Set	purple
chr7:114576812	7	114.5768	0.002409922	Credible Set	purple
chr7:114611182	7	114.6112	0.004416014	Credible Set	purple
chr7:114611200	7	114.6112	0.004596392	Credible Set	purple
chr7:114664623	7	114.6646	0.003599431	Credible Set	purple

F39–43 GBS, open field, distance moved in total in 1st 5 minutes (cm)



date: Thu Oct 25 17:24:27 2018
build: F3943GBS
display range: chr10:84647994–94647994 [84647994–94647994]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:89647994
number of SNPs plotted: 282
min P-value: 2.17E–6 [chr10:89647994]
max P-value: 8.21E–1 [chr10:93034582]
omitted Genes: Tmem263, Mterf2, Cry1
omitted Genes: Btbd11, Bpifc, Fbxo7
omitted Genes: Syn3, 4930486F22Rik, Timp3
omitted Genes: 1810014B01Rik, 1700113H08Rik, Pmch
omitted Genes: Parpbp, Dram1, Gnptab
omitted Genes: Sycp3, Mybpc1, Gm4925
omitted Genes: Arl1, Utp20, Slc17a8
omitted Genes: 1500026H17Rik, Uhrf1bp1l, Tmpo
omitted Genes: Nedd1, Mir7688, Lta4h
omitted Genes: Hal, Amdhd1, Ccdc38
omitted Genes: Snrpf, 4933408J17Rik, Ntn4
omitted Genes: Gm8580, Gm15915, Usp44
omitted Genes: Metap2, Ndufa12, Gm4792
omitted Genes: Tmcc3, Mir7211

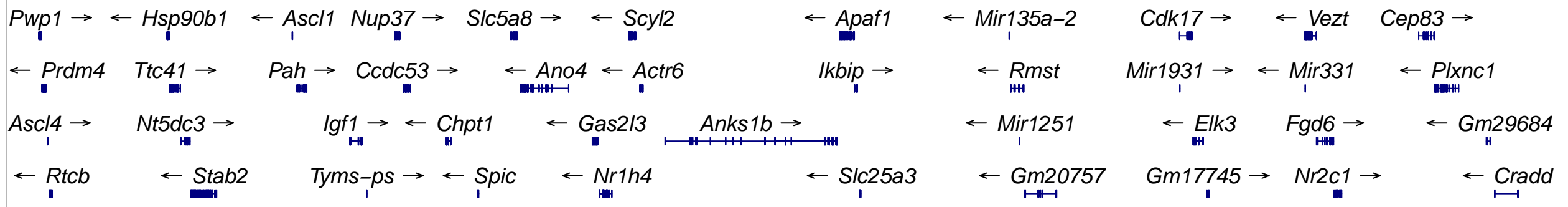
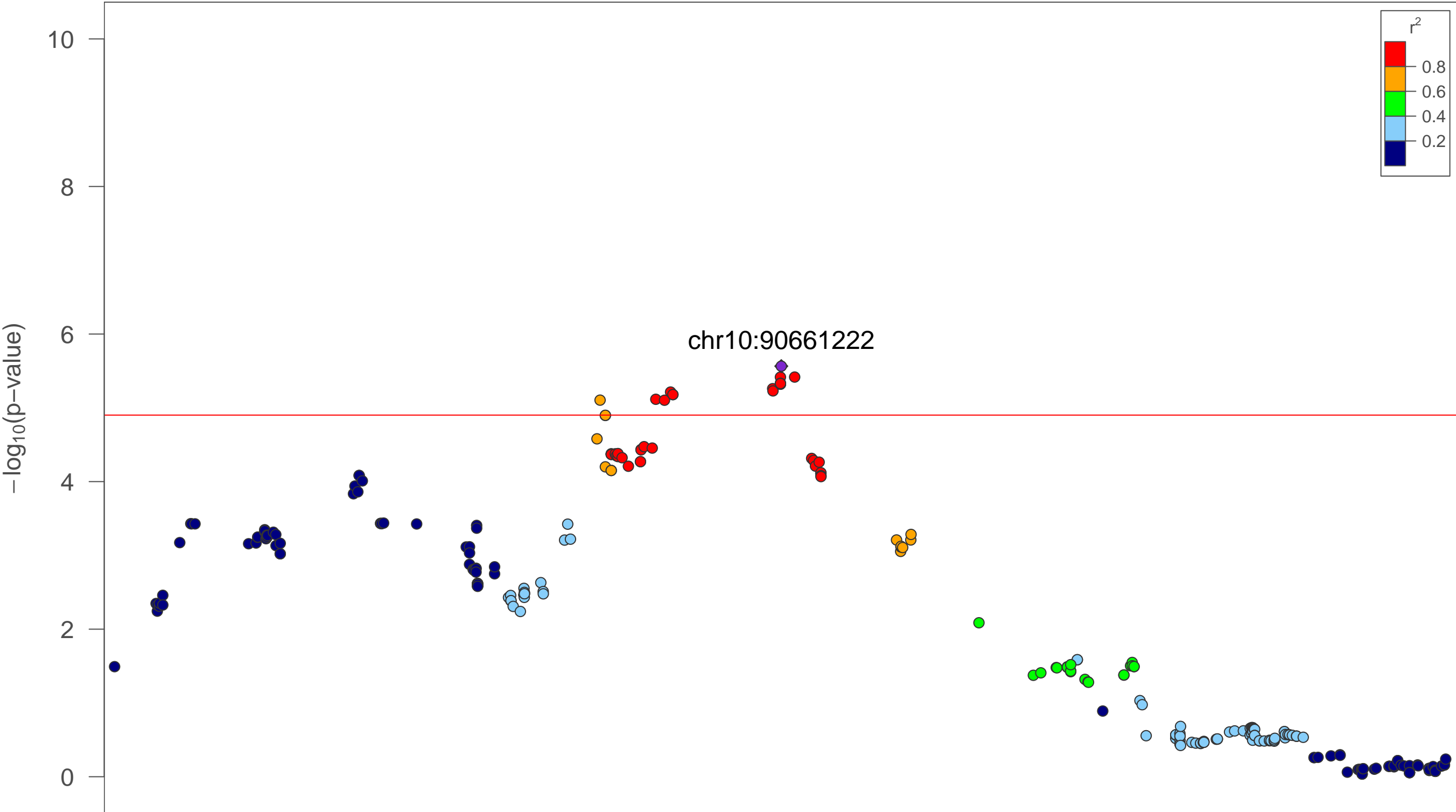
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89300286	10	89.30029	0.039658176	Credible Set	purple
chr10:89323084	10	89.32308	0.024301506	Credible Set	purple
chr10:89362102	10	89.36210	0.013262560	Credible Set	purple
chr10:89362162	10	89.36216	0.013402175	Credible Set	purple
chr10:89405522	10	89.40552	0.028064254	Credible Set	purple
chr10:89405533	10	89.40553	0.028049881	Credible Set	purple
chr10:89405556	10	89.40556	0.024383361	Credible Set	purple
chr10:89405564	10	89.40556	0.024383361	Credible Set	purple
chr10:89405589	10	89.40559	0.028403912	Credible Set	purple
chr10:89405627	10	89.40563	0.028468271	Credible Set	purple
chr10:89435280	10	89.43528	0.020095981	Credible Set	purple
chr10:89443390	10	89.44339	0.020508863	Credible Set	purple
chr10:89454154	10	89.45415	0.019212661	Credible Set	purple
chr10:89454848	10	89.45485	0.021379181	Credible Set	purple
chr10:89485534	10	89.48553	0.015219465	Credible Set	purple
chr10:89532131	10	89.53213	0.012905509	Credible Set	purple
chr10:89621284	10	89.62128	0.009400969	Credible Set	purple
chr10:89621319	10	89.62132	0.009334225	Credible Set	purple
chr10:89625488	10	89.62549	0.037120864	Credible Set	purple
chr10:89625559	10	89.62556	0.039059226	Credible Set	purple
chr10:89647994	10	89.64799	0.062146943	Credible Set	purple
chr10:89708192	10	89.70819	0.048669204	Credible Set	purple
chr10:89734590	10	89.73459	0.047603407	Credible Set	purple
chr10:89798643	10	89.79864	0.033517475	Credible Set	purple
chr10:89843657	10	89.84366	0.026960457	Credible Set	purple
chr10:89860498	10	89.86050	0.026344017	Credible Set	purple
chr10:89860846	10	89.86085	0.024632428	Credible Set	purple
chr10:90597510	10	90.59751	0.019974958	Credible Set	purple
chr10:90599690	10	90.59969	0.018344301	Credible Set	purple
chr10:90654718	10	90.65472	0.025324184	Credible Set	purple
chr10:90654994	10	90.65499	0.033637282	Credible Set	purple
chr10:90654998	10	90.65500	0.034502714	Credible Set	purple
chr10:90655002	10	90.65500	0.033705251	Credible Set	purple
chr10:90655039	10	90.65504	0.034927973	Credible Set	purple
chr10:90661222	10	90.66122	0.039527761	Credible Set	purple
chr10:90759813	10	90.75981	0.023054811	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90885383	10	90.88538	0.001806502	Credible Set	purple

F39–43 GBS, open field, zone transition frequency in 1st 5 minutes



45 genes
omitted

date: Thu Oct 25 17:24:36 2018
build: F3943GBS
display range: chr10:85661222–95661222 [85661222–95661222]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:90661222
number of SNPs plotted: 288
min P-value: 2.72E–6 [chr10:90661222]
max P-value: 9.2E–1 [chr10:94950093]
omitted Genes: Bpifc, Fbxo7, Syn3
omitted Genes: 4930486F22Rik, Timp3, 1810014B01Rik
omitted Genes: 1700113H08Rik, Pmch, Parpbp
omitted Genes: Dram1, Gnptab, Sycp3
omitted Genes: Mybpc1, Gm4925, Arl1
omitted Genes: Utp20, Slc17a8, 1500026H17Rik
omitted Genes: Uhrf1bp1l, Tmpo, Nedd1
omitted Genes: Mir7688, Lta4h, Hal
omitted Genes: Amdhd1, Ccdc38, Snrpf
omitted Genes: 4933408J17Rik, Ntn4, Gm8580
omitted Genes: Gm15915, Usp44, Metap2
omitted Genes: Ndufa12, Gm4792, Tmcc3
omitted Genes: Mir7211, Cep83os, 2310039L15Rik
omitted Genes: Socs2, 5730420D15Rik, Mrpl42
omitted Genes: Ube2n, Nudt4, Mir3058

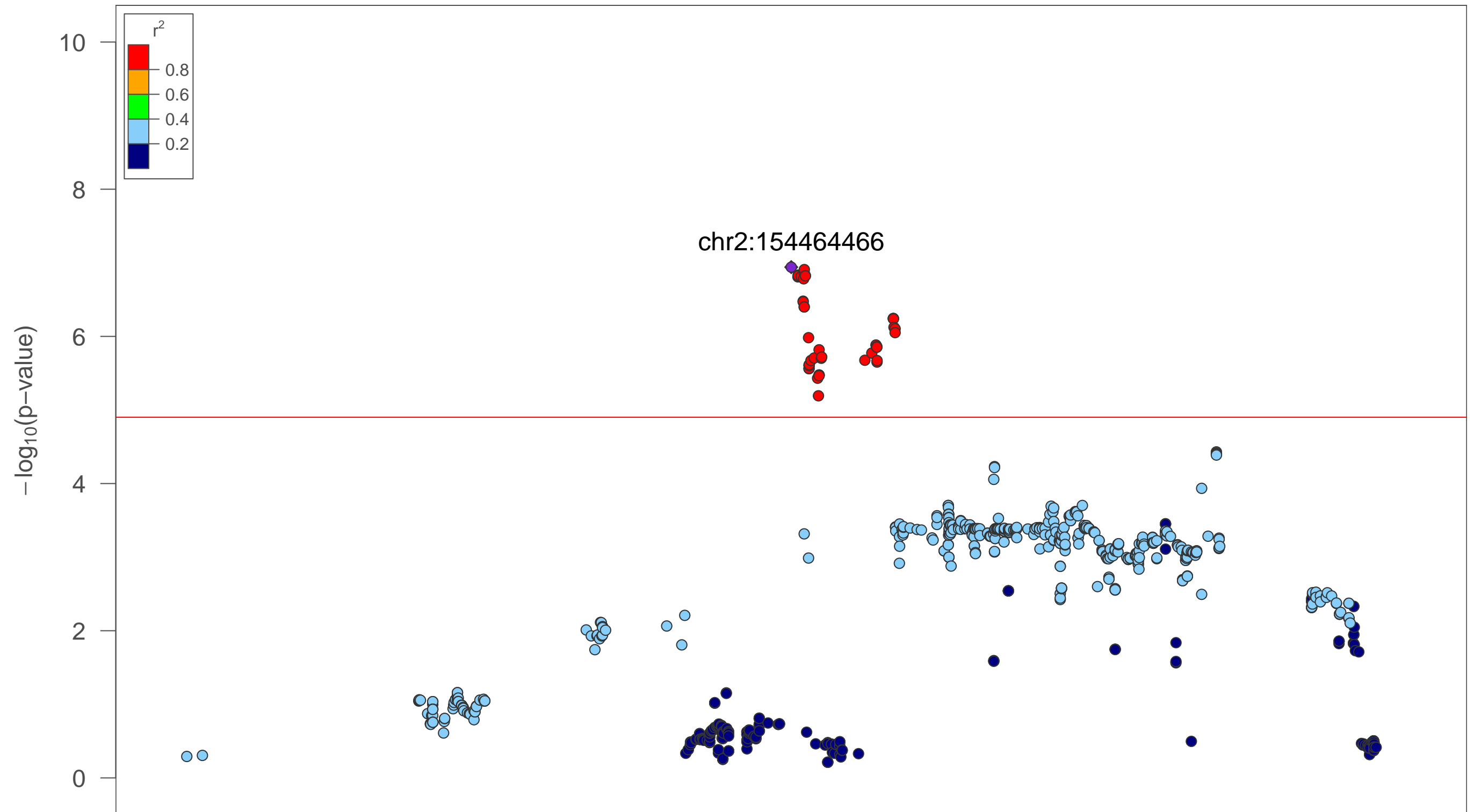
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89405556	10	89.40556	0.007778265	Credible Set	purple
chr10:89405564	10	89.40556	0.007778265	Credible Set	purple
chr10:89405589	10	89.40559	0.007649517	Credible Set	purple
chr10:89405627	10	89.40563	0.007652497	Credible Set	purple
chr10:89435280	10	89.43528	0.007793765	Credible Set	purple
chr10:89443390	10	89.44339	0.007345316	Credible Set	purple
chr10:89454154	10	89.45415	0.007184423	Credible Set	purple
chr10:89454848	10	89.45485	0.007849913	Credible Set	purple
chr10:89485534	10	89.48553	0.006939689	Credible Set	purple
chr10:89532131	10	89.53213	0.005397014	Credible Set	purple
chr10:89621284	10	89.62128	0.006175437	Credible Set	purple
chr10:89621319	10	89.62132	0.006176909	Credible Set	purple
chr10:89625488	10	89.62549	0.008845867	Credible Set	purple
chr10:89625559	10	89.62556	0.008757609	Credible Set	purple
chr10:89647994	10	89.64799	0.009630289	Credible Set	purple
chr10:89708192	10	89.70819	0.009238231	Credible Set	purple
chr10:89734590	10	89.73459	0.039442741	Credible Set	purple
chr10:89798643	10	89.79864	0.038333385	Credible Set	purple
chr10:89843657	10	89.84366	0.048954795	Credible Set	purple
chr10:89860498	10	89.86050	0.045276879	Credible Set	purple
chr10:89860846	10	89.86085	0.045378919	Credible Set	purple
chr10:90597510	10	90.59751	0.054112353	Credible Set	purple
chr10:90599690	10	90.59969	0.050624147	Credible Set	purple
chr10:90654718	10	90.65472	0.076450300	Credible Set	purple
chr10:90654994	10	90.65499	0.061975512	Credible Set	purple
chr10:90654998	10	90.65500	0.063650490	Credible Set	purple
chr10:90655002	10	90.65500	0.061862432	Credible Set	purple
chr10:90655039	10	90.65504	0.063120913	Credible Set	purple
chr10:90661222	10	90.66122	0.106070538	Credible Set	purple
chr10:90759813	10	90.75981	0.076575883	Credible Set	purple
chr10:90885383	10	90.88538	0.006802878	Credible Set	purple
chr10:90899946	10	90.89995	0.006402570	Credible Set	purple
chr10:90913583	10	90.91358	0.005417445	Credible Set	purple
chr10:90940720	10	90.94072	0.006087540	Credible Set	purple
chr10:90953385	10	90.95338	0.004347358	Credible Set	purple
chr10:90953402	10	90.95340	0.004401991	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90953425	10	90.95342	0.004457171	Credible Set	purple

F39–43 GBS, open field, immobile duration in 1st 5 minutes (s)



Credible Set

Syndig1 → ← *Vsx1* *Nsfl1c* → *Tbc1d20* → *Xkr7* → *Mapre1* → ← *Necab3* ← *Pigu* ← *Gdf5* *Aar2* → ← *Rbl1* *Vstm2l* → *Actr5* →
 ← *Zfp120* *Pygb* → *Fkbp1a* → ← *Rbck1* *Ttl9* → *Dnmt3b* → ← *Snta1* *a* → ← *Ggt7* ← *Nfs1* *Myl9* → *Src* → ← *Tti1* *Ppp1r16b* →
Gm14139 → ← *Ninl* ← *Snph* ← *Trib3* ← *Pdrg1* *Efcab8* → *Actl10* → *Itch* → *Procr* → *Epb41l1* → ← *Mroh8* *Rprd1b* → *Dhx35* →
Zfp937 → *Gins1* → ← *Rad21l* ← *Nrsn2* *Ccm2l* → ← *Sun5* ← *E2f1* *Dynlrb1* → *Ergic3* → *Tgif2* → ← *Blcap* *Bpi* →

145 genes
omitted

Position on chr2 (Mb)

date: Thu Oct 25 17:24:08 2018

build: F3943GBS

display range: chr2:149464466–159464466 [149464466–159464466]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:154464466

number of SNPs plotted: 757

min P-value: 1.15E–7 [chr2:154464466]

max P-value: 6.13E–1 [chr2:154734707]

omitted Genes: Gm14124, 3300002I08Rik, Zfp442

omitted Genes: Zfp345, Cst7, Apmap

omitted Genes: Acss1, E130215H24Rik, Entpd6

omitted Genes: Abhd12, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, 4921509C19Rik

omitted Genes: Sdcbp2, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb26, Defb28

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Hck

omitted Genes: Tm9sf4, Tspyl3, Plagl2

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: Ahcy, 2310005A03Rik, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

omitted Genes: Myh7b, Mir499, Trnc4ap

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

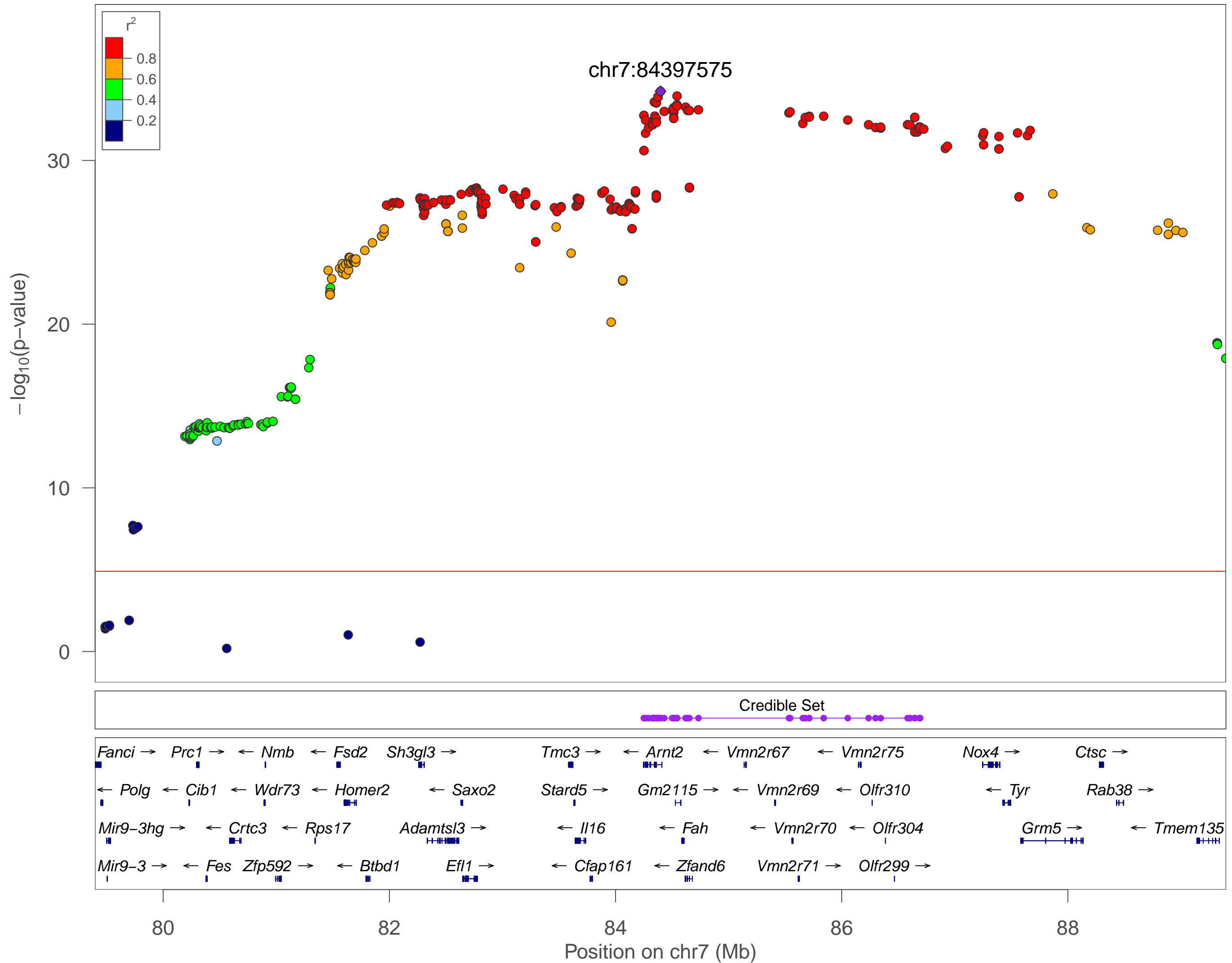
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:154464466	2	154.4645	0.077380251	Credible Set	purple
chr2:154513996	2	154.5140	0.057628986	Credible Set	purple
chr2:154515752	2	154.5158	0.060925709	Credible Set	purple
chr2:154516249	2	154.5162	0.059631478	Credible Set	purple
chr2:154537995	2	154.5380	0.058400539	Credible Set	purple
chr2:154538009	2	154.5380	0.058348012	Credible Set	purple
chr2:154552607	2	154.5526	0.027660183	Credible Set	purple
chr2:154552612	2	154.5526	0.027063118	Credible Set	purple
chr2:154556468	2	154.5565	0.054353119	Credible Set	purple
chr2:154560354	2	154.5604	0.023289374	Credible Set	purple
chr2:154560360	2	154.5604	0.023197502	Credible Set	purple
chr2:154560680	2	154.5607	0.064741829	Credible Set	purple
chr2:154561127	2	154.5611	0.071957422	Credible Set	purple
chr2:154569018	2	154.5690	0.059729276	Credible Set	purple
chr2:154569036	2	154.5690	0.059430630	Credible Set	purple
chr2:154592528	2	154.5925	0.009192320	Credible Set	purple
chr2:154595741	2	154.5957	0.004013589	Credible Set	purple
chr2:154595774	2	154.5958	0.003612895	Credible Set	purple
chr2:154596294	2	154.5963	0.003638474	Credible Set	purple
chr2:154597124	2	154.5971	0.003979535	Credible Set	purple
chr2:154597483	2	154.5975	0.004092658	Credible Set	purple
chr2:154610318	2	154.6103	0.004630510	Credible Set	purple
chr2:154633945	2	154.6339	0.004990385	Credible Set	purple
chr2:154670525	2	154.6705	0.002992188	Credible Set	purple
chr2:154670528	2	154.6705	0.002995686	Credible Set	purple
chr2:154670571	2	154.6706	0.006387038	Credible Set	purple
chr2:154686815	2	154.6868	0.004948734	Credible Set	purple
chr2:154689824	2	154.6898	0.005134110	Credible Set	purple
chr2:155009299	2	155.0093	0.004663011	Credible Set	purple
chr2:155060609	2	155.0606	0.005778488	Credible Set	purple
chr2:155091628	2	155.0916	0.007372176	Credible Set	purple
chr2:155097606	2	155.0976	0.007059231	Credible Set	purple
chr2:155097628	2	155.0976	0.006897689	Credible Set	purple
chr2:155097650	2	155.0976	0.006904636	Credible Set	purple
chr2:155099477	2	155.0995	0.004414824	Credible Set	purple
chr2:155099522	2	155.0995	0.004621923	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155220007	2	155.2200	0.01639115	Credible Set	purple
chr2:155220040	2	155.2200	0.01639115	Credible Set	purple
chr2:155220051	2	155.2201	0.01639115	Credible Set	purple
chr2:155220725	2	155.2207	0.01621069	Credible Set	purple
chr2:155224800	2	155.2248	0.01256823	Credible Set	purple
chr2:155233215	2	155.2332	0.01202755	Credible Set	purple
chr2:155233265	2	155.2333	0.01070872	Credible Set	purple

F39–43 GBS, open field, immobile duration in 1st 5 minutes (s)



date: Thu Oct 25 17:24:18 2018
build: F3943GBS
display range: chr7:79397575–89397575 [79397575–89397575]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84397575
number of SNPs plotted: 396
min P-value: 5.92E–35 [chr7:84397575]
max P-value: 6.44E–1 [chr7:80561830]
omitted Genes: Rhcg, Ticrr, Kif7
omitted Genes: Plin1, Pex11a, Wdr93
omitted Genes: Mesp1, Mesp2, Anpep
omitted Genes: Ap3s2, Arpin, Zfp710
omitted Genes: Gm21057, Idh2, Sema4b
omitted Genes: Gdpgp1, Tll13, Ngrn
omitted Genes: Vps33b, Rccd1, Unc45a
omitted Genes: Hddc3, Man2a2, Furin
omitted Genes: Blm, Gm15880, Iqgap1
omitted Genes: Zscan2, Sec11a, Alpk3
omitted Genes: Slc28a1, Pde8a, Cpeb1
omitted Genes: Ap3b2, BC048679, 2900076A07Rik
omitted Genes: Mir1839, Whamm, Fam103a1
omitted Genes: 3110040N11Rik, Tm6sf1, Hdgfrp3
omitted Genes: Bnc1, Gm20744, 4933406J10Rik
omitted Genes: Mex3b, 4933430H16Rik, Mesdc1
omitted Genes: Mesdc2, Cemip, Abhd17c
omitted Genes: 2610206C17Rik, Olfr291, Olfr290
omitted Genes: Vmn2r65, Vmn2r66, Vmn2r68
omitted Genes: Vmn2r72, Vmn2r73, Vmn2r74
omitted Genes: Vmn2r76, Olfr309, Olfr308
omitted Genes: Olfr307, Olfr305, Olfr303
omitted Genes: Olfr301, Olfr298, Olfr297
omitted Genes: Olfr295, Olfr294, Olfr293
omitted Genes: Olfr292, Folh1, Vmn2r77
omitted Genes: Vmn2r78, Vmn2r79

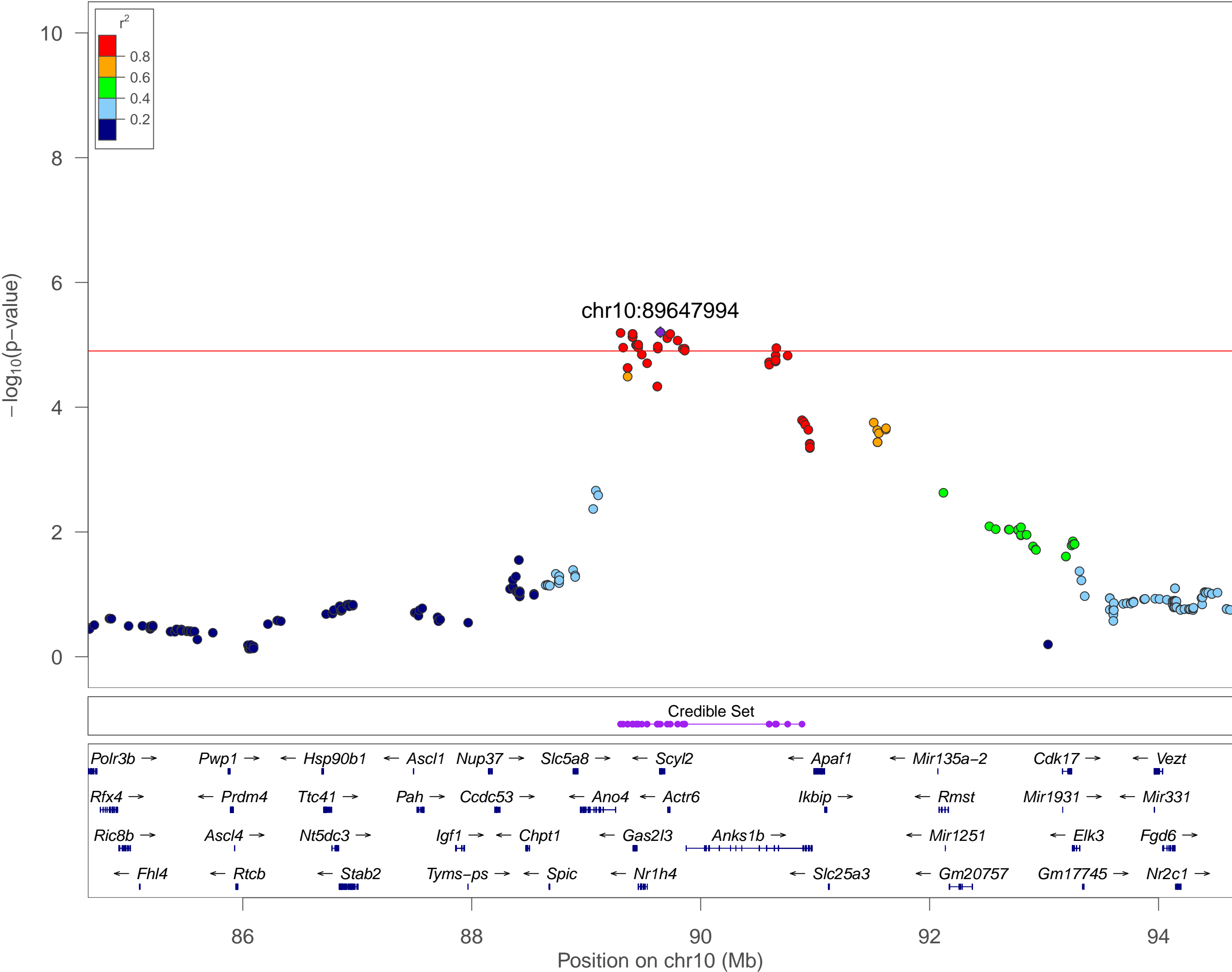
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.0052463340	Credible Set	purple
chr7:84251011	7	84.25101	0.0053700774	Credible Set	purple
chr7:84265685	7	84.26569	0.0027673352	Credible Set	purple
chr7:84291540	7	84.29154	0.0009713545	Credible Set	purple
chr7:84327288	7	84.32729	0.0014225509	Credible Set	purple
chr7:84327808	7	84.32781	0.0020139860	Credible Set	purple
chr7:84327850	7	84.32785	0.0017832356	Credible Set	purple
chr7:84338595	7	84.33859	0.0027256758	Credible Set	purple
chr7:84343118	7	84.34312	0.0345440729	Credible Set	purple
chr7:84344805	7	84.34480	0.0036057811	Credible Set	purple
chr7:84347423	7	84.34742	0.0048578487	Credible Set	purple
chr7:84360038	7	84.36004	0.0035380346	Credible Set	purple
chr7:84360626	7	84.36063	0.0019959784	Credible Set	purple
chr7:84360642	7	84.36064	0.0019619519	Credible Set	purple
chr7:84360703	7	84.36070	0.0302445200	Credible Set	purple
chr7:84360714	7	84.36071	0.0327604981	Credible Set	purple
chr7:84360716	7	84.36072	0.0327604981	Credible Set	purple
chr7:84375526	7	84.37553	0.0716098398	Credible Set	purple
chr7:84375577	7	84.37558	0.0682758895	Credible Set	purple
chr7:84375642	7	84.37564	0.0728765690	Credible Set	purple
chr7:84397575	7	84.39758	0.1562491568	Credible Set	purple
chr7:84397597	7	84.39760	0.1519139229	Credible Set	purple
chr7:84430102	7	84.43010	0.0093372654	Credible Set	purple
chr7:84501082	7	84.50108	0.0104880653	Credible Set	purple
chr7:84514082	7	84.51408	0.0157884220	Credible Set	purple
chr7:84514444	7	84.51444	0.0081297329	Credible Set	purple
chr7:84514505	7	84.51450	0.0081344474	Credible Set	purple
chr7:84514564	7	84.51456	0.0039338436	Credible Set	purple
chr7:84514575	7	84.51457	0.0034559980	Credible Set	purple
chr7:84514734	7	84.51473	0.0129532981	Credible Set	purple
chr7:84543346	7	84.54335	0.0235612271	Credible Set	purple
chr7:84543355	7	84.54336	0.0195719118	Credible Set	purple
chr7:84543782	7	84.54378	0.0800154583	Credible Set	purple
chr7:84619632	7	84.61963	0.0169651351	Credible Set	purple
chr7:84636759	7	84.63676	0.0106453849	Credible Set	purple
chr7:84653095	7	84.65309	0.0105528889	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84733186	7	84.73319	0.0117010324	Credible Set	purple
chr7:85533207	7	85.53321	0.0075770159	Credible Set	purple
chr7:85543843	7	85.54384	0.0088065401	Credible Set	purple
chr7:85656243	7	85.65624	0.0017286559	Credible Set	purple
chr7:85677494	7	85.67749	0.0039911693	Credible Set	purple
chr7:85712663	7	85.71266	0.0047372285	Credible Set	purple
chr7:85712975	7	85.71298	0.0042050829	Credible Set	purple
chr7:85840665	7	85.84067	0.0047691707	Credible Set	purple
chr7:86053386	7	86.05339	0.0027882394	Credible Set	purple
chr7:86237374	7	86.23737	0.0014626507	Credible Set	purple
chr7:86298979	7	86.29898	0.0009803139	Credible Set	purple
chr7:86344488	7	86.34449	0.0010427187	Credible Set	purple
chr7:86582139	7	86.58214	0.0014691844	Credible Set	purple
chr7:86603770	7	86.60377	0.0014033521	Credible Set	purple
chr7:86645719	7	86.64572	0.0040095552	Credible Set	purple
chr7:86645792	7	86.64579	0.0040968628	Credible Set	purple
chr7:86685648	7	86.68565	0.0010582767	Credible Set	purple
chr7:86692214	7	86.69221	0.0010525011	Credible Set	purple
chr7:86692491	7	86.69249	0.0009860399	Credible Set	purple

F39–43 GBS, open field, distance moved in total in 10 minutes (cm)



date: Thu Oct 25 17:23:20 2018
build: F3943GBS
display range: chr10:84647994–94647994 [84647994–94647994]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:89647994
number of SNPs plotted: 282
min P-value: 6.28E–6 [chr10:89647994]
max P-value: 7.46E–1 [chr10:86053984]
omitted Genes: Tmem263, Mterf2, Cry1
omitted Genes: Btbd11, Bpifc, Fbxo7
omitted Genes: Syn3, 4930486F22Rik, Timp3
omitted Genes: 1810014B01Rik, 1700113H08Rik, Pmch
omitted Genes: Parpbp, Dram1, Gnptab
omitted Genes: Sycp3, Mybpc1, Gm4925
omitted Genes: Arl1, Utp20, Slc17a8
omitted Genes: 1500026H17Rik, Uhrf1bp1l, Tmpo
omitted Genes: Nedd1, Mir7688, Lta4h
omitted Genes: Hal, Amdhd1, Ccdc38
omitted Genes: Snrpf, 4933408J17Rik, Ntn4
omitted Genes: Gm8580, Gm15915, Usp44
omitted Genes: Metap2, Ndufa12, Gm4792
omitted Genes: Tmcc3, Mir7211

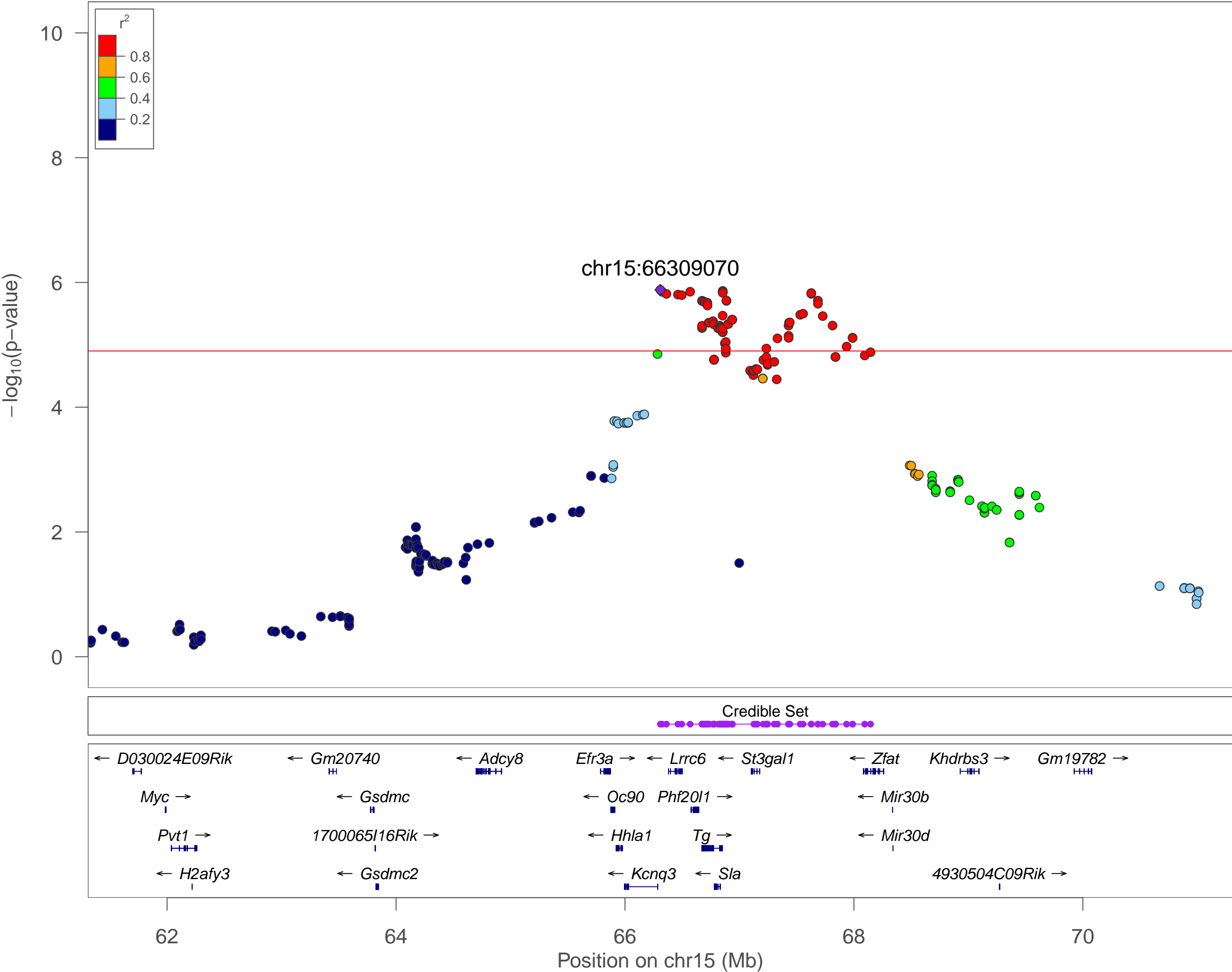
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89300286	10	89.30029	0.046195711	Credible Set	purple
chr10:89323084	10	89.32308	0.027506654	Credible Set	purple
chr10:89362102	10	89.36210	0.013374071	Credible Set	purple
chr10:89362162	10	89.36216	0.013495842	Credible Set	purple
chr10:89405522	10	89.40552	0.040687353	Credible Set	purple
chr10:89405533	10	89.40553	0.040386541	Credible Set	purple
chr10:89405556	10	89.40556	0.039848670	Credible Set	purple
chr10:89405564	10	89.40556	0.039848670	Credible Set	purple
chr10:89405589	10	89.40559	0.044574853	Credible Set	purple
chr10:89405627	10	89.40563	0.044658488	Credible Set	purple
chr10:89435280	10	89.43528	0.030235851	Credible Set	purple
chr10:89443390	10	89.44339	0.029877098	Credible Set	purple
chr10:89454154	10	89.45415	0.027594433	Credible Set	purple
chr10:89454848	10	89.45485	0.030576768	Credible Set	purple
chr10:89485534	10	89.48553	0.021521170	Credible Set	purple
chr10:89532131	10	89.53213	0.015870127	Credible Set	purple
chr10:89621284	10	89.62128	0.007052658	Credible Set	purple
chr10:89621319	10	89.62132	0.007003513	Credible Set	purple
chr10:89625488	10	89.62549	0.026605413	Credible Set	purple
chr10:89625559	10	89.62556	0.028651320	Credible Set	purple
chr10:89647994	10	89.64799	0.047396078	Credible Set	purple
chr10:89708192	10	89.70819	0.038350982	Credible Set	purple
chr10:89734590	10	89.73459	0.044560120	Credible Set	purple
chr10:89798643	10	89.79864	0.035307665	Credible Set	purple
chr10:89843657	10	89.84366	0.026328612	Credible Set	purple
chr10:89860498	10	89.86050	0.026503471	Credible Set	purple
chr10:89860846	10	89.86085	0.024741475	Credible Set	purple
chr10:90597510	10	90.59751	0.016448636	Credible Set	purple
chr10:90599690	10	90.59969	0.015101222	Credible Set	purple
chr10:90654718	10	90.65472	0.020831486	Credible Set	purple
chr10:90654994	10	90.65499	0.016918577	Credible Set	purple
chr10:90654998	10	90.65500	0.017341253	Credible Set	purple
chr10:90655002	10	90.65500	0.016952658	Credible Set	purple
chr10:90655039	10	90.65504	0.017621113	Credible Set	purple
chr10:90661222	10	90.66122	0.027101088	Credible Set	purple
chr10:90759813	10	90.75981	0.020780488	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90885383	10	90.88538	0.002169931	Credible Set	purple

F39–43 GBS, open field, distance moved in total in 10 minutes (cm)



date: Thu Oct 25 17:23:28 2018

build: F3943GBS

display range: chr15:61309070–71309070 [61309070–71309070]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:66309070

number of SNPs plotted: 317

min P-value: 1.31E–6 [chr15:66309070]

max P-value: 6.44E–1 [chr15:62233468]

omitted Genes: Gsdmcl1, Gsdmc3, Gsdmcl2

omitted Genes: Gsdmc4, Gsdmcl-ps, Fam49b

omitted Genes: Asap1, Tmem71, Wisp1

omitted Genes: Ndr1, 1700012I11Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66309070	15	66.30907	0.027602429	Credible Set	purple
chr15:66324506	15	66.32451	0.025784362	Credible Set	purple
chr15:66361813	15	66.36181	0.023925074	Credible Set	purple
chr15:66462727	15	66.46273	0.023337518	Credible Set	purple
chr15:66495529	15	66.49553	0.022875143	Credible Set	purple
chr15:66569471	15	66.56947	0.025827651	Credible Set	purple
chr15:66672984	15	66.67298	0.007175589	Credible Set	purple
chr15:66672997	15	66.67300	0.007144867	Credible Set	purple
chr15:66673010	15	66.67301	0.007238337	Credible Set	purple
chr15:66673015	15	66.67302	0.007736400	Credible Set	purple
chr15:66673436	15	66.67344	0.018768276	Credible Set	purple
chr15:66673541	15	66.67354	0.018660582	Credible Set	purple
chr15:66673940	15	66.67394	0.018616154	Credible Set	purple
chr15:66685097	15	66.68510	0.018201349	Credible Set	purple
chr15:66696518	15	66.69652	0.018000747	Credible Set	purple
chr15:66699723	15	66.69972	0.017931702	Credible Set	purple
chr15:66719126	15	66.71913	0.017530102	Credible Set	purple
chr15:66719241	15	66.71924	0.017048919	Credible Set	purple
chr15:66720772	15	66.72077	0.015837501	Credible Set	purple
chr15:66730424	15	66.73042	0.008618150	Credible Set	purple
chr15:66737376	15	66.73738	0.008641068	Credible Set	purple
chr15:66768701	15	66.76870	0.009102203	Credible Set	purple
chr15:66777400	15	66.77740	0.008198637	Credible Set	purple
chr15:66777425	15	66.77742	0.008199840	Credible Set	purple
chr15:66777461	15	66.77746	0.008138798	Credible Set	purple
chr15:66777706	15	66.77771	0.002350850	Credible Set	purple
chr15:66777728	15	66.77773	0.002315625	Credible Set	purple
chr15:66777729	15	66.77773	0.002344350	Credible Set	purple
chr15:66777730	15	66.77773	0.002356767	Credible Set	purple
chr15:66777731	15	66.77773	0.002334958	Credible Set	purple
chr15:66777743	15	66.77774	0.002333687	Credible Set	purple
chr15:66812941	15	66.81294	0.007096851	Credible Set	purple
chr15:66826934	15	66.82693	0.007768279	Credible Set	purple
chr15:66834506	15	66.83451	0.007041661	Credible Set	purple
chr15:66834532	15	66.83453	0.007221292	Credible Set	purple
chr15:66834574	15	66.83457	0.007203856	Credible Set	purple

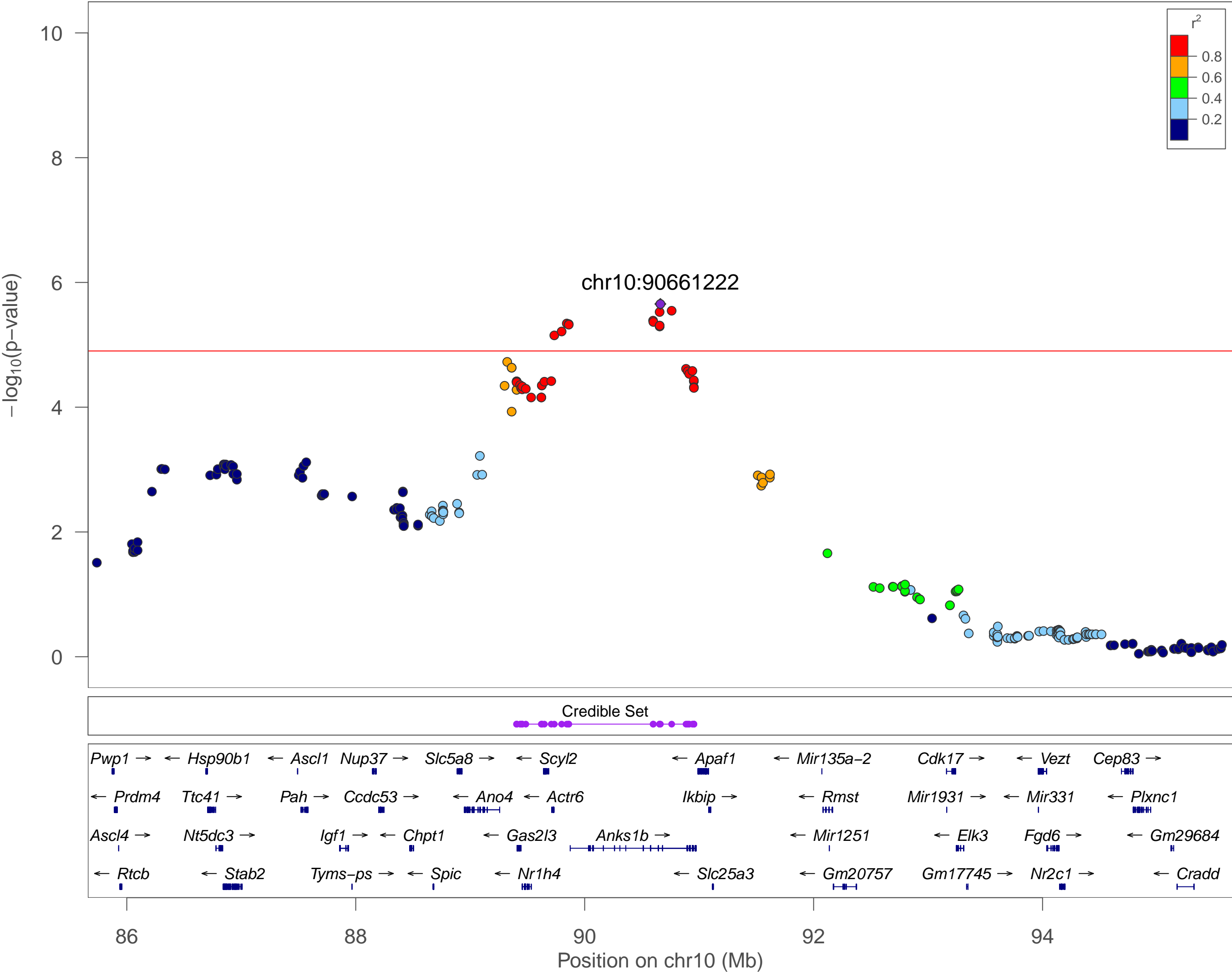
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834575	15	66.83458	0.007380243	Credible Set	purple
chr15:66834600	15	66.83460	0.006909807	Credible Set	purple
chr15:66834621	15	66.83462	0.007256518	Credible Set	purple
chr15:66834624	15	66.83462	0.006944240	Credible Set	purple
chr15:66834637	15	66.83464	0.006724454	Credible Set	purple
chr15:66853166	15	66.85317	0.011076730	Credible Set	purple
chr15:66853439	15	66.85344	0.006141571	Credible Set	purple
chr15:66853460	15	66.85346	0.006206811	Credible Set	purple
chr15:66853489	15	66.85349	0.006216656	Credible Set	purple
chr15:66853520	15	66.85352	0.006954034	Credible Set	purple
chr15:66853893	15	66.85389	0.026569445	Credible Set	purple
chr15:66853894	15	66.85389	0.025751834	Credible Set	purple
chr15:66853923	15	66.85392	0.025749399	Credible Set	purple
chr15:66853954	15	66.85395	0.024823326	Credible Set	purple
chr15:66872519	15	66.87252	0.004148601	Credible Set	purple
chr15:66880575	15	66.88057	0.002987713	Credible Set	purple
chr15:66880583	15	66.88058	0.004361522	Credible Set	purple
chr15:66880635	15	66.88063	0.003460220	Credible Set	purple
chr15:66880638	15	66.88064	0.003412050	Credible Set	purple
chr15:66886219	15	66.88622	0.018666227	Credible Set	purple
chr15:66886266	15	66.88627	0.018934431	Credible Set	purple
chr15:66901528	15	66.90153	0.008224937	Credible Set	purple
chr15:66901548	15	66.90155	0.008224937	Credible Set	purple
chr15:66901593	15	66.90159	0.008224937	Credible Set	purple
chr15:66935376	15	66.93538	0.009558409	Credible Set	purple
chr15:66935390	15	66.93539	0.009558409	Credible Set	purple
chr15:66935391	15	66.93539	0.009558409	Credible Set	purple
chr15:66935405	15	66.93541	0.009558409	Credible Set	purple
chr15:66937231	15	66.93723	0.009632455	Credible Set	purple
chr15:66937423	15	66.93742	0.009580685	Credible Set	purple
chr15:67126159	15	67.12616	0.001608394	Credible Set	purple
chr15:67144054	15	67.14405	0.001689761	Credible Set	purple
chr15:67156480	15	67.15648	0.001663602	Credible Set	purple
chr15:67208761	15	67.20876	0.002315708	Credible Set	purple
chr15:67234910	15	67.23491	0.002553108	Credible Set	purple
chr15:67235072	15	67.23507	0.003465870	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67245093	15	67.24509	0.001948659	Credible Set	purple
chr15:67245123	15	67.24512	0.002023520	Credible Set	purple
chr15:67304194	15	67.30419	0.002169408	Credible Set	purple
chr15:67331738	15	67.33174	0.004954677	Credible Set	purple
chr15:67428857	15	67.42886	0.007784087	Credible Set	purple
chr15:67429407	15	67.42941	0.005426222	Credible Set	purple
chr15:67429420	15	67.42942	0.005044111	Credible Set	purple
chr15:67433395	15	67.43340	0.008657028	Credible Set	purple
chr15:67439974	15	67.43997	0.008716280	Credible Set	purple
chr15:67530570	15	67.53057	0.011413170	Credible Set	purple
chr15:67555683	15	67.55568	0.011864812	Credible Set	purple
chr15:67627161	15	67.62716	0.023978263	Credible Set	purple
chr15:67627183	15	67.62718	0.024568459	Credible Set	purple
chr15:67627194	15	67.62719	0.024589519	Credible Set	purple
chr15:67685224	15	67.68522	0.018843202	Credible Set	purple
chr15:67685781	15	67.68578	0.016888870	Credible Set	purple
chr15:67727448	15	67.72745	0.010895379	Credible Set	purple
chr15:67812971	15	67.81297	0.007799587	Credible Set	purple
chr15:67838708	15	67.83871	0.002574356	Credible Set	purple
chr15:67838720	15	67.83872	0.002572597	Credible Set	purple
chr15:67838721	15	67.83872	0.002581671	Credible Set	purple
chr15:67935812	15	67.93581	0.003710205	Credible Set	purple
chr15:67987913	15	67.98791	0.005080623	Credible Set	purple
chr15:67987932	15	67.98793	0.005020532	Credible Set	purple
chr15:68094377	15	68.09438	0.002712696	Credible Set	purple
chr15:68145325	15	68.14532	0.003041452	Credible Set	purple

F39–43 GBS, open field, zone transition frequency in 10 minutes



date: Thu Oct 25 17:23:37 2018
build: F3943GBS
display range: chr10:85661222–95661222 [85661222–95661222]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:90661222
number of SNPs plotted: 288
min P-value: 2.21E–6 [chr10:90661222]
max P-value: 8.96E–1 [chr10:94840769]
omitted Genes: Bpifc, Fbxo7, Syn3
omitted Genes: 4930486F22Rik, Timp3, 1810014B01Rik
omitted Genes: 1700113H08Rik, Pmch, Parpbp
omitted Genes: Dram1, Gnptab, Sycp3
omitted Genes: Mybpc1, Gm4925, Arl1
omitted Genes: Utp20, Slc17a8, 1500026H17Rik
omitted Genes: Uhrf1bp1l, Tmpo, Nedd1
omitted Genes: Mir7688, Lta4h, Hal
omitted Genes: Amdhd1, Ccdc38, Snrpf
omitted Genes: 4933408J17Rik, Ntn4, Gm8580
omitted Genes: Gm15915, Usp44, Metap2
omitted Genes: Ndufa12, Gm4792, Tmcc3
omitted Genes: Mir7211, Cep83os, 2310039L15Rik
omitted Genes: Socs2, 5730420D15Rik, Mrpl42
omitted Genes: Ube2n, Nudt4, Mir3058

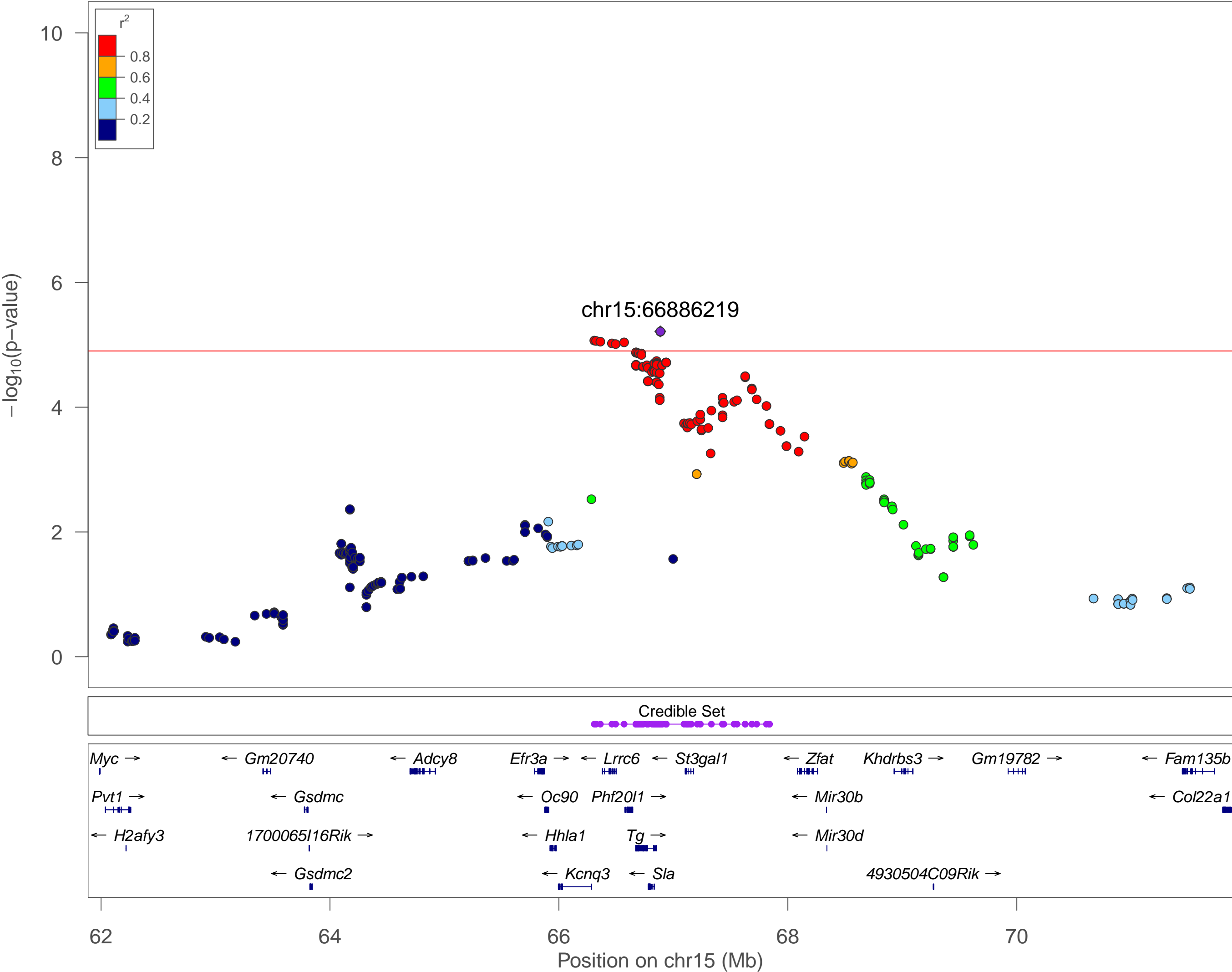
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89405556	10	89.40556	0.007110253	Credible Set	purple
chr10:89405564	10	89.40556	0.007110253	Credible Set	purple
chr10:89405589	10	89.40559	0.006873806	Credible Set	purple
chr10:89405627	10	89.40563	0.006872709	Credible Set	purple
chr10:89435280	10	89.43528	0.006237086	Credible Set	purple
chr10:89443390	10	89.44339	0.005643714	Credible Set	purple
chr10:89454154	10	89.45415	0.005374599	Credible Set	purple
chr10:89454848	10	89.45485	0.005948185	Credible Set	purple
chr10:89485534	10	89.48553	0.005483304	Credible Set	purple
chr10:89621284	10	89.62128	0.004055150	Credible Set	purple
chr10:89625488	10	89.62549	0.006149478	Credible Set	purple
chr10:89625559	10	89.62556	0.006163075	Credible Set	purple
chr10:89647994	10	89.64799	0.007025377	Credible Set	purple
chr10:89708192	10	89.70819	0.007167567	Credible Set	purple
chr10:89734590	10	89.73459	0.035816412	Credible Set	purple
chr10:89798643	10	89.79864	0.041113810	Credible Set	purple
chr10:89843657	10	89.84366	0.054575227	Credible Set	purple
chr10:89860498	10	89.86050	0.053350253	Credible Set	purple
chr10:89860846	10	89.86085	0.052304898	Credible Set	purple
chr10:90597510	10	90.59751	0.060343620	Credible Set	purple
chr10:90599690	10	90.59969	0.057550014	Credible Set	purple
chr10:90654718	10	90.65472	0.081877350	Credible Set	purple
chr10:90654994	10	90.65499	0.049181449	Credible Set	purple
chr10:90654998	10	90.65500	0.050621256	Credible Set	purple
chr10:90655002	10	90.65500	0.049224914	Credible Set	purple
chr10:90655039	10	90.65504	0.050537434	Credible Set	purple
chr10:90661222	10	90.66122	0.108813289	Credible Set	purple
chr10:90759813	10	90.75981	0.085624559	Credible Set	purple
chr10:90885383	10	90.88538	0.011035572	Credible Set	purple
chr10:90899946	10	90.89995	0.010107830	Credible Set	purple
chr10:90913583	10	90.91358	0.009231826	Credible Set	purple
chr10:90940720	10	90.94072	0.010245749	Credible Set	purple
chr10:90953385	10	90.95338	0.007127699	Credible Set	purple
chr10:90953402	10	90.95340	0.007216611	Credible Set	purple
chr10:90953425	10	90.95342	0.007360237	Credible Set	purple
chr10:90954053	10	90.95405	0.005791753	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90954116	10	90.95412	0.005647662	Credible Set	purple

F39–43 GBS, open field, zone transition frequency in 10 minutes



date: Thu Oct 25 17:23:45 2018

build: F3943GBS

display range: chr15:61886219–71886219 [61886219–71886219]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:66886219

number of SNPs plotted: 313

min P-value: 6.11E–6 [chr15:66886219]

max P-value: 5.75E–1 [chr15:63173066]

omitted Genes: Gsdmcl1, Gsdmc3, Gsdmcl2

omitted Genes: Gsdmc4, Gsdmcl-ps, Fam49b

omitted Genes: Asap1, Tmem71, Wisp1

omitted Genes: Ndr1, 1700012I11Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66309070	15	66.30907	0.028511659	Credible Set	purple
chr15:66324506	15	66.32451	0.028181511	Credible Set	purple
chr15:66361813	15	66.36181	0.027429878	Credible Set	purple
chr15:66462727	15	66.46273	0.025826000	Credible Set	purple
chr15:66495529	15	66.49553	0.025206244	Credible Set	purple
chr15:66569471	15	66.56947	0.026786024	Credible Set	purple
chr15:66672984	15	66.67298	0.012177363	Credible Set	purple
chr15:66672997	15	66.67300	0.012049709	Credible Set	purple
chr15:66673010	15	66.67301	0.011713852	Credible Set	purple
chr15:66673015	15	66.67302	0.011966795	Credible Set	purple
chr15:66673436	15	66.67344	0.018585760	Credible Set	purple
chr15:66673541	15	66.67354	0.018767046	Credible Set	purple
chr15:66673940	15	66.67394	0.018823625	Credible Set	purple
chr15:66685097	15	66.68510	0.018420545	Credible Set	purple
chr15:66696518	15	66.69652	0.018046317	Credible Set	purple
chr15:66699723	15	66.69972	0.018160473	Credible Set	purple
chr15:66719126	15	66.71913	0.018119210	Credible Set	purple
chr15:66719241	15	66.71924	0.018033946	Credible Set	purple
chr15:66720772	15	66.72077	0.017196761	Credible Set	purple
chr15:66730424	15	66.73042	0.011300042	Credible Set	purple
chr15:66737376	15	66.73738	0.011358314	Credible Set	purple
chr15:66768701	15	66.76870	0.011949547	Credible Set	purple
chr15:66777400	15	66.77740	0.010904753	Credible Set	purple
chr15:66777425	15	66.77742	0.010900928	Credible Set	purple
chr15:66777461	15	66.77746	0.010891382	Credible Set	purple
chr15:66777706	15	66.77771	0.006879374	Credible Set	purple
chr15:66777728	15	66.77773	0.006789628	Credible Set	purple
chr15:66777729	15	66.77773	0.006877831	Credible Set	purple
chr15:66777730	15	66.77773	0.006834784	Credible Set	purple
chr15:66777731	15	66.77773	0.006834310	Credible Set	purple
chr15:66777743	15	66.77774	0.006808240	Credible Set	purple
chr15:66812941	15	66.81294	0.009413262	Credible Set	purple
chr15:66826934	15	66.82693	0.010303910	Credible Set	purple
chr15:66834506	15	66.83451	0.012647346	Credible Set	purple
chr15:66834532	15	66.83453	0.012876972	Credible Set	purple
chr15:66834574	15	66.83457	0.012504120	Credible Set	purple

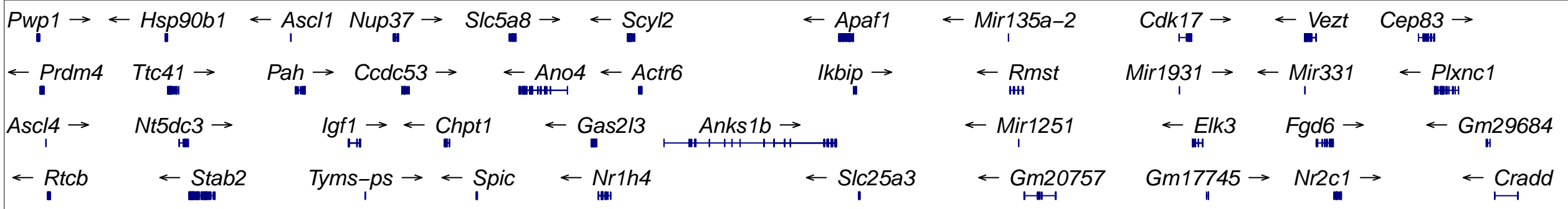
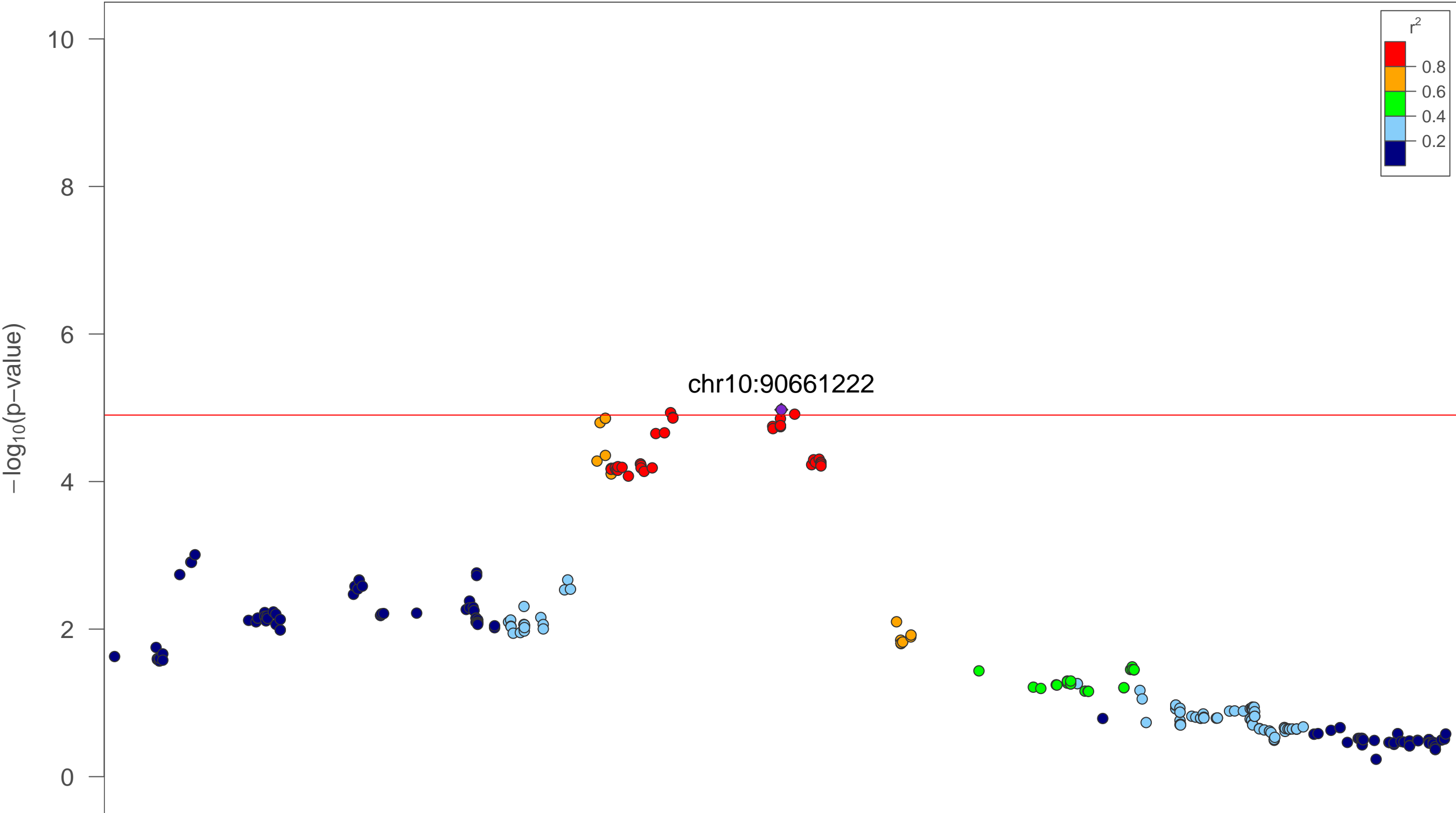
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834575	15	66.83458	0.012686151	Credible Set	purple
chr15:66834600	15	66.83460	0.009679353	Credible Set	purple
chr15:66834621	15	66.83462	0.010209681	Credible Set	purple
chr15:66834624	15	66.83462	0.009817655	Credible Set	purple
chr15:66834637	15	66.83464	0.009537756	Credible Set	purple
chr15:66853166	15	66.85317	0.013866897	Credible Set	purple
chr15:66853439	15	66.85344	0.006552096	Credible Set	purple
chr15:66853460	15	66.85346	0.006624216	Credible Set	purple
chr15:66853489	15	66.85349	0.006548992	Credible Set	purple
chr15:66853520	15	66.85352	0.009333603	Credible Set	purple
chr15:66853893	15	66.85389	0.012991772	Credible Set	purple
chr15:66853894	15	66.85389	0.012766362	Credible Set	purple
chr15:66853923	15	66.85392	0.012583236	Credible Set	purple
chr15:66853954	15	66.85395	0.012142949	Credible Set	purple
chr15:66872519	15	66.87252	0.006095154	Credible Set	purple
chr15:66880575	15	66.88057	0.003844528	Credible Set	purple
chr15:66880583	15	66.88058	0.009036405	Credible Set	purple
chr15:66880635	15	66.88063	0.003543907	Credible Set	purple
chr15:66880638	15	66.88064	0.003523287	Credible Set	purple
chr15:66886219	15	66.88622	0.039337654	Credible Set	purple
chr15:66886266	15	66.88627	0.038961971	Credible Set	purple
chr15:66901528	15	66.90153	0.011970614	Credible Set	purple
chr15:66901548	15	66.90155	0.011970614	Credible Set	purple
chr15:66901593	15	66.90159	0.011970614	Credible Set	purple
chr15:66935376	15	66.93538	0.013148876	Credible Set	purple
chr15:66935390	15	66.93539	0.013148876	Credible Set	purple
chr15:66935391	15	66.93539	0.013148876	Credible Set	purple
chr15:66935405	15	66.93541	0.013148876	Credible Set	purple
chr15:66937231	15	66.93723	0.013166389	Credible Set	purple
chr15:66937423	15	66.93742	0.013168301	Credible Set	purple
chr15:67092666	15	67.09267	0.001569620	Credible Set	purple
chr15:67111279	15	67.11128	0.001467006	Credible Set	purple
chr15:67121570	15	67.12157	0.001373203	Credible Set	purple
chr15:67121756	15	67.12176	0.001554881	Credible Set	purple
chr15:67126159	15	67.12616	0.001570026	Credible Set	purple
chr15:67144054	15	67.14405	0.001585262	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67156480	15	67.15648	0.001518148	Credible Set	purple
chr15:67208761	15	67.20876	0.001703156	Credible Set	purple
chr15:67234910	15	67.23491	0.001802725	Credible Set	purple
chr15:67235072	15	67.23507	0.002136883	Credible Set	purple
chr15:67331738	15	67.33174	0.002448117	Credible Set	purple
chr15:67428857	15	67.42886	0.003831127	Credible Set	purple
chr15:67429407	15	67.42941	0.002081463	Credible Set	purple
chr15:67429420	15	67.42942	0.001935854	Credible Set	purple
chr15:67433395	15	67.43340	0.003215775	Credible Set	purple
chr15:67439974	15	67.43997	0.003212451	Credible Set	purple
chr15:67530570	15	67.53057	0.003328201	Credible Set	purple
chr15:67555683	15	67.55568	0.003506209	Credible Set	purple
chr15:67627161	15	67.62716	0.007848421	Credible Set	purple
chr15:67627183	15	67.62718	0.008139256	Credible Set	purple
chr15:67627194	15	67.62719	0.008099851	Credible Set	purple
chr15:67685224	15	67.68522	0.005299297	Credible Set	purple
chr15:67685781	15	67.68578	0.005091978	Credible Set	purple
chr15:67727448	15	67.72745	0.003622422	Credible Set	purple
chr15:67812971	15	67.81297	0.002877637	Credible Set	purple
chr15:67838708	15	67.83871	0.001529699	Credible Set	purple
chr15:67838720	15	67.83872	0.001527159	Credible Set	purple
chr15:67838721	15	67.83872	0.001538616	Credible Set	purple

F39–43 GBS, open field, minimum distance to center in 10 minutes (cm)



45 genes
omitted

date: Thu Oct 25 17:23:56 2018
build: F3943GBS
display range: chr10:85661222–95661222 [85661222–95661222]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:90661222
number of SNPs plotted: 288
min P-value: 1.06E–5 [chr10:90661222]
max P-value: 5.81E–1 [chr10:95052984]
omitted Genes: Bpifc, Fbxo7, Syn3
omitted Genes: 4930486F22Rik, Timp3, 1810014B01Rik
omitted Genes: 1700113H08Rik, Pmch, Parpbp
omitted Genes: Dram1, Gnptab, Sycp3
omitted Genes: Mybpc1, Gm4925, Arl1
omitted Genes: Utp20, Slc17a8, 1500026H17Rik
omitted Genes: Uhrf1bp1l, Tmpo, Nedd1
omitted Genes: Mir7688, Lta4h, Hal
omitted Genes: Amdhd1, Ccdc38, Snrpf
omitted Genes: 4933408J17Rik, Ntn4, Gm8580
omitted Genes: Gm15915, Usp44, Metap2
omitted Genes: Ndufa12, Gm4792, Tmcc3
omitted Genes: Mir7211, Cep83os, 2310039L15Rik
omitted Genes: Socs2, 5730420D15Rik, Mrpl42
omitted Genes: Ube2n, Nudt4, Mir3058

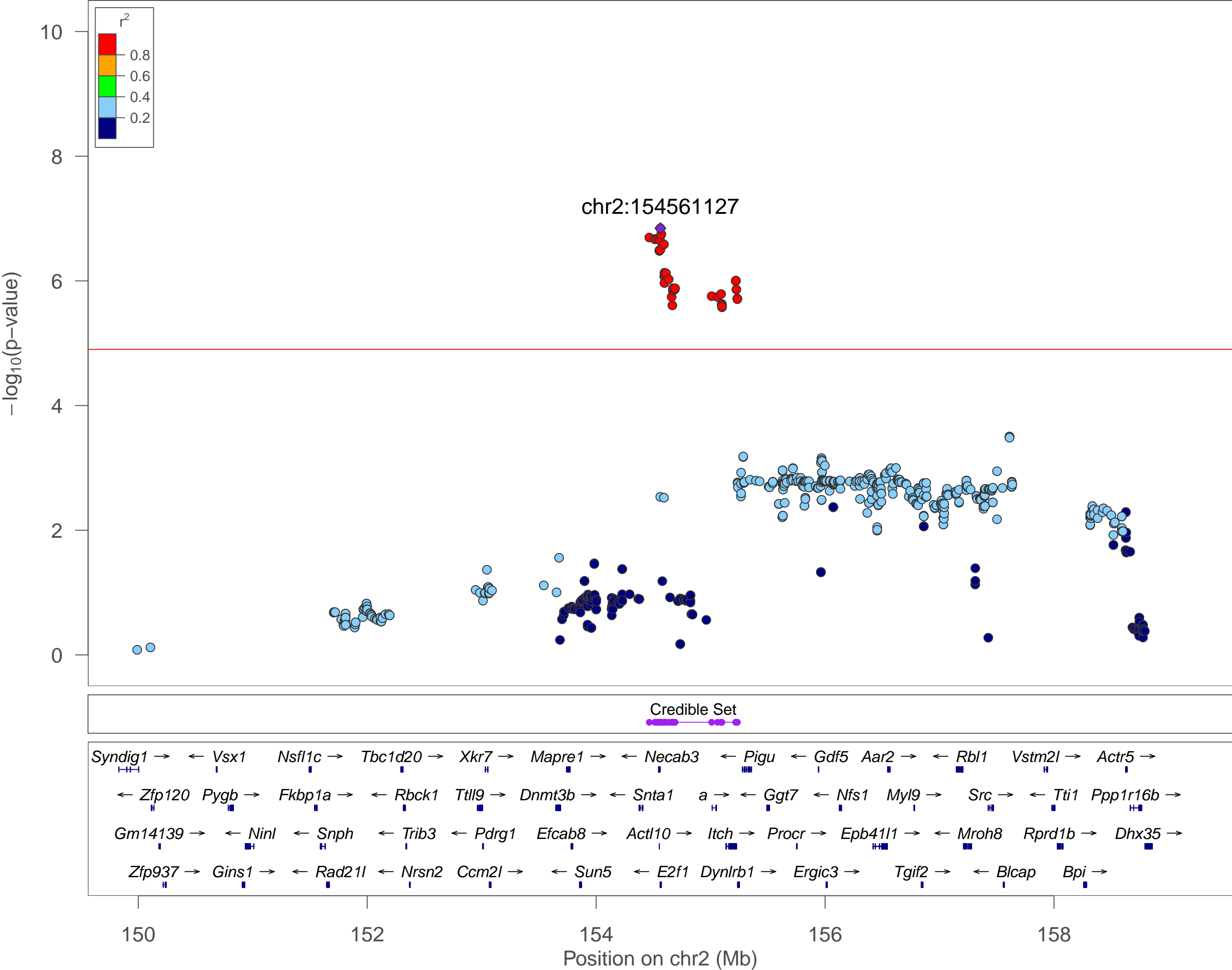
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89405556	10	89.40556	0.01211623	Credible Set	purple
chr10:89405564	10	89.40556	0.01211623	Credible Set	purple
chr10:89405589	10	89.40559	0.01182010	Credible Set	purple
chr10:89405627	10	89.40563	0.01180355	Credible Set	purple
chr10:89435280	10	89.43528	0.01232855	Credible Set	purple
chr10:89443390	10	89.44339	0.01156987	Credible Set	purple
chr10:89454154	10	89.45415	0.01146621	Credible Set	purple
chr10:89454848	10	89.45485	0.01277391	Credible Set	purple
chr10:89485534	10	89.48553	0.01250510	Credible Set	purple
chr10:89621284	10	89.62128	0.01382924	Credible Set	purple
chr10:89621319	10	89.62132	0.01381266	Credible Set	purple
chr10:89625488	10	89.62549	0.01323555	Credible Set	purple
chr10:89625559	10	89.62556	0.01228437	Credible Set	purple
chr10:89647994	10	89.64799	0.01109332	Credible Set	purple
chr10:89708192	10	89.70819	0.01231649	Credible Set	purple
chr10:89734590	10	89.73459	0.03405194	Credible Set	purple
chr10:89798643	10	89.79864	0.03481205	Credible Set	purple
chr10:89843657	10	89.84366	0.06339964	Credible Set	purple
chr10:89860498	10	89.86050	0.05525050	Credible Set	purple
chr10:89860846	10	89.86085	0.05396630	Credible Set	purple
chr10:90597510	10	90.59751	0.04215795	Credible Set	purple
chr10:90599690	10	90.59969	0.03941872	Credible Set	purple
chr10:90654718	10	90.65472	0.05308422	Credible Set	purple
chr10:90654994	10	90.65499	0.04179892	Credible Set	purple
chr10:90654998	10	90.65500	0.04282740	Credible Set	purple
chr10:90655002	10	90.65500	0.04181644	Credible Set	purple
chr10:90655039	10	90.65504	0.04316454	Credible Set	purple
chr10:90661222	10	90.66122	0.06913804	Credible Set	purple
chr10:90759813	10	90.75981	0.06057082	Credible Set	purple
chr10:90885383	10	90.88538	0.01353082	Credible Set	purple
chr10:90899946	10	90.89995	0.01566368	Credible Set	purple
chr10:90913583	10	90.91358	0.01451603	Credible Set	purple
chr10:90940720	10	90.94072	0.01591151	Credible Set	purple
chr10:90953385	10	90.95338	0.01444023	Credible Set	purple
chr10:90953402	10	90.95340	0.01448270	Credible Set	purple
chr10:90953425	10	90.95342	0.01446890	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90954053	10	90.95405	0.01376738	Credible Set	purple
chr10:90954116	10	90.95412	0.01304015	Credible Set	purple

F39–43 GBS, open field, immobile duration in 10 minutes (s)



date: Thu Oct 25 17:23:01 2018

build: F3943GBS

display range: chr2:149561127–159561127 [149561127–159561127]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:154561127

number of SNPs plotted: 757

min P-value: 1.43E–7 [chr2:154561127]

max P-value: 8.28E–1 [chr2:149990644]

omitted Genes: Gm14124, 3300002I08Rik, Zfp442

omitted Genes: Zfp345, Cst7, Apmap

omitted Genes: Acss1, E130215H24Rik, Entpd6

omitted Genes: Abhd12, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, 4921509C19Rik

omitted Genes: Sdcbp2, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb26, Defb28

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Hck

omitted Genes: Tm9sf4, Tspyl3, Plagl2

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: Ahcy, 2310005A03Rik, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

omitted Genes: Myh7b, Mir499, Trpc4ap

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

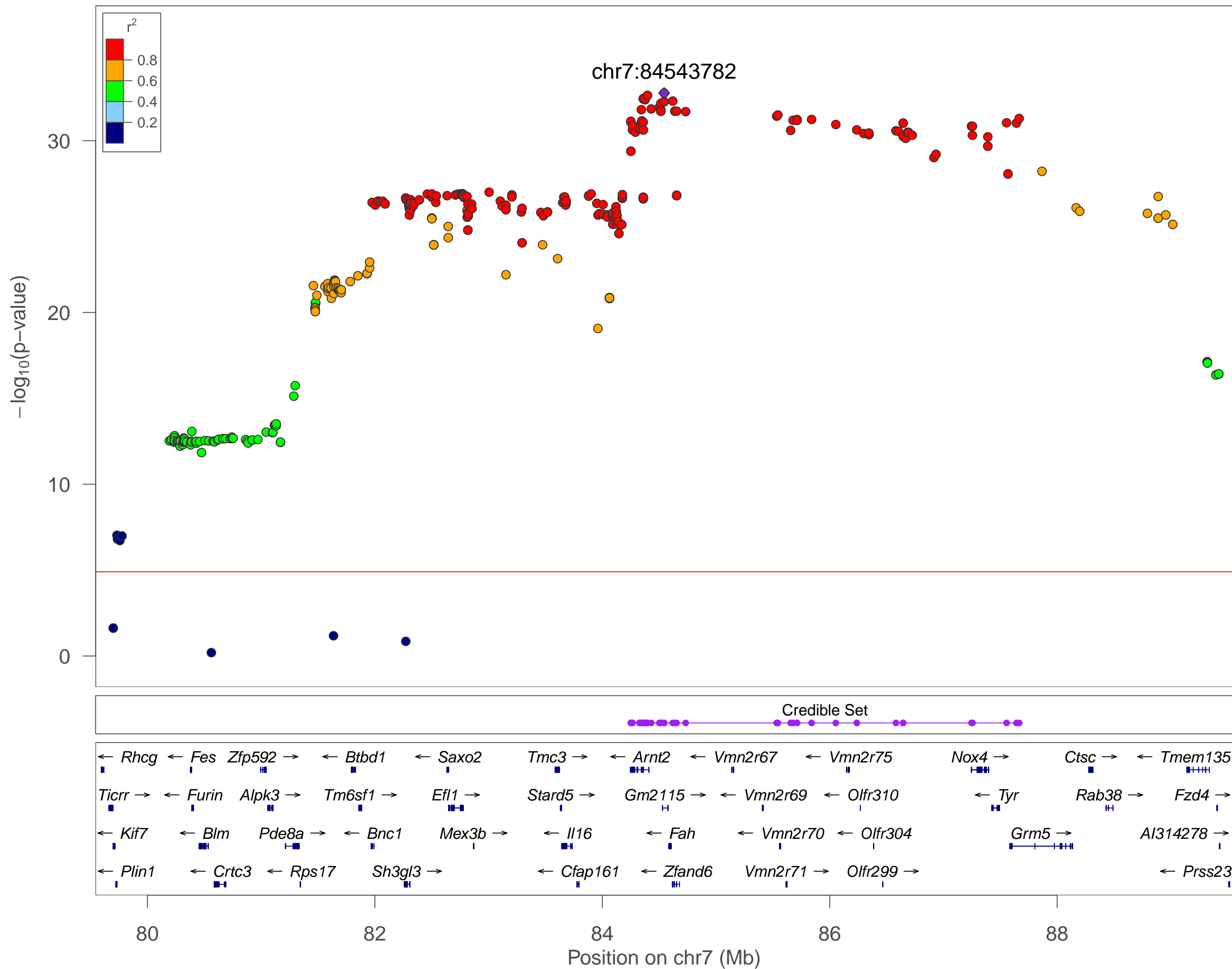
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:154464466	2	154.4645	0.051164763	Credible Set	purple
chr2:154513996	2	154.5140	0.048023099	Credible Set	purple
chr2:154515752	2	154.5158	0.048448123	Credible Set	purple
chr2:154516249	2	154.5162	0.048263220	Credible Set	purple
chr2:154537995	2	154.5380	0.048967248	Credible Set	purple
chr2:154538009	2	154.5380	0.048896921	Credible Set	purple
chr2:154552607	2	154.5526	0.032573216	Credible Set	purple
chr2:154552612	2	154.5526	0.031728222	Credible Set	purple
chr2:154556468	2	154.5565	0.049374395	Credible Set	purple
chr2:154560354	2	154.5604	0.033265595	Credible Set	purple
chr2:154560360	2	154.5604	0.032895776	Credible Set	purple
chr2:154560680	2	154.5607	0.045519233	Credible Set	purple
chr2:154561127	2	154.5611	0.071188223	Credible Set	purple
chr2:154569018	2	154.5690	0.057540698	Credible Set	purple
chr2:154569036	2	154.5690	0.057432877	Credible Set	purple
chr2:154592528	2	154.5925	0.039935441	Credible Set	purple
chr2:154595741	2	154.5957	0.012837799	Credible Set	purple
chr2:154595774	2	154.5958	0.012735284	Credible Set	purple
chr2:154596294	2	154.5963	0.010112418	Credible Set	purple
chr2:154597124	2	154.5971	0.014584592	Credible Set	purple
chr2:154597483	2	154.5975	0.014398781	Credible Set	purple
chr2:154610318	2	154.6103	0.014319167	Credible Set	purple
chr2:154633945	2	154.6339	0.011567385	Credible Set	purple
chr2:154659631	2	154.6596	0.006176648	Credible Set	purple
chr2:154665835	2	154.6658	0.004574325	Credible Set	purple
chr2:154670525	2	154.6705	0.007725612	Credible Set	purple
chr2:154670528	2	154.6705	0.007729226	Credible Set	purple
chr2:154670562	2	154.6706	0.007791349	Credible Set	purple
chr2:154670571	2	154.6706	0.008385732	Credible Set	purple
chr2:154686815	2	154.6868	0.008042347	Credible Set	purple
chr2:154689824	2	154.6898	0.008385389	Credible Set	purple
chr2:155009299	2	155.0093	0.006336677	Credible Set	purple
chr2:155060609	2	155.0606	0.006174878	Credible Set	purple
chr2:155091628	2	155.0916	0.006841165	Credible Set	purple
chr2:155097606	2	155.0976	0.004820513	Credible Set	purple
chr2:155097628	2	155.0976	0.004623856	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155097650	2	155.0976	0.004634884	Credible Set	purple
chr2:155220007	2	155.2200	0.010901354	Credible Set	purple
chr2:155220040	2	155.2200	0.010901354	Credible Set	purple
chr2:155220051	2	155.2201	0.010901354	Credible Set	purple
chr2:155220725	2	155.2207	0.011057406	Credible Set	purple
chr2:155224800	2	155.2248	0.008009014	Credible Set	purple
chr2:155233215	2	155.2332	0.005844886	Credible Set	purple
chr2:155233265	2	155.2333	0.005699991	Credible Set	purple

F39–43 GBS, open field, immobile duration in 10 minutes (s)



date: Thu Oct 25 17:23:11 2018
build: F3943GBS
display range: chr7:79543782–89543782 [79543782–89543782]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84543782
number of SNPs plotted: 390
min P-value: 1.69E–33 [chr7:84543782]
max P-value: 6.35E–1 [chr7:80561830]
omitted Genes: Pex11a, Wdr93, Mesp1
omitted Genes: Mesp2, Anpep, Ap3s2
omitted Genes: Arpin, Zfp710, Gm21057
omitted Genes: Idh2, Sema4b, Cib1
omitted Genes: Gdpgp1, Tll13, Ngrn
omitted Genes: Vps33b, Prc1, Rccd1
omitted Genes: Unc45a, Hddc3, Man2a2
omitted Genes: Gm15880, Iqgap1, Zscan2
omitted Genes: Wdr73, Nmb, Sec11a
omitted Genes: Slc28a1, Cpeb1, Ap3b2
omitted Genes: BC048679, 2900076A07Rik, Mir1839
omitted Genes: Fsd2, Whamm, Homer2
omitted Genes: Fam103a1, 3110040N11Rik, Hdgfrp3
omitted Genes: Gm20744, Adamtsl3, 4933406J10Rik
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr298, Olfr297, Olfr295
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77, Vmn2r78
omitted Genes: Vmn2r79

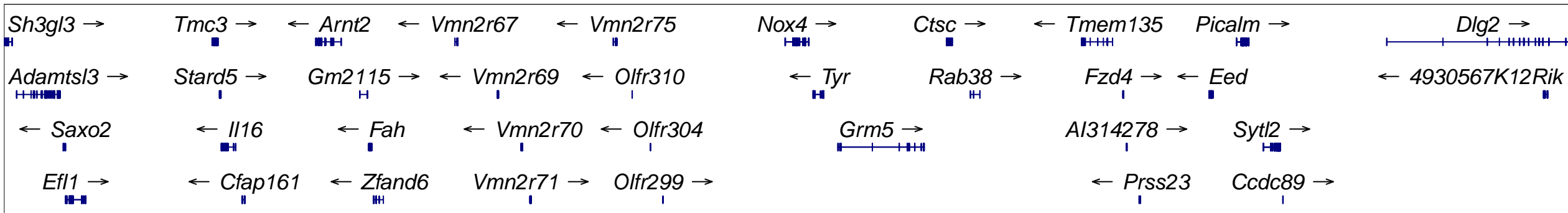
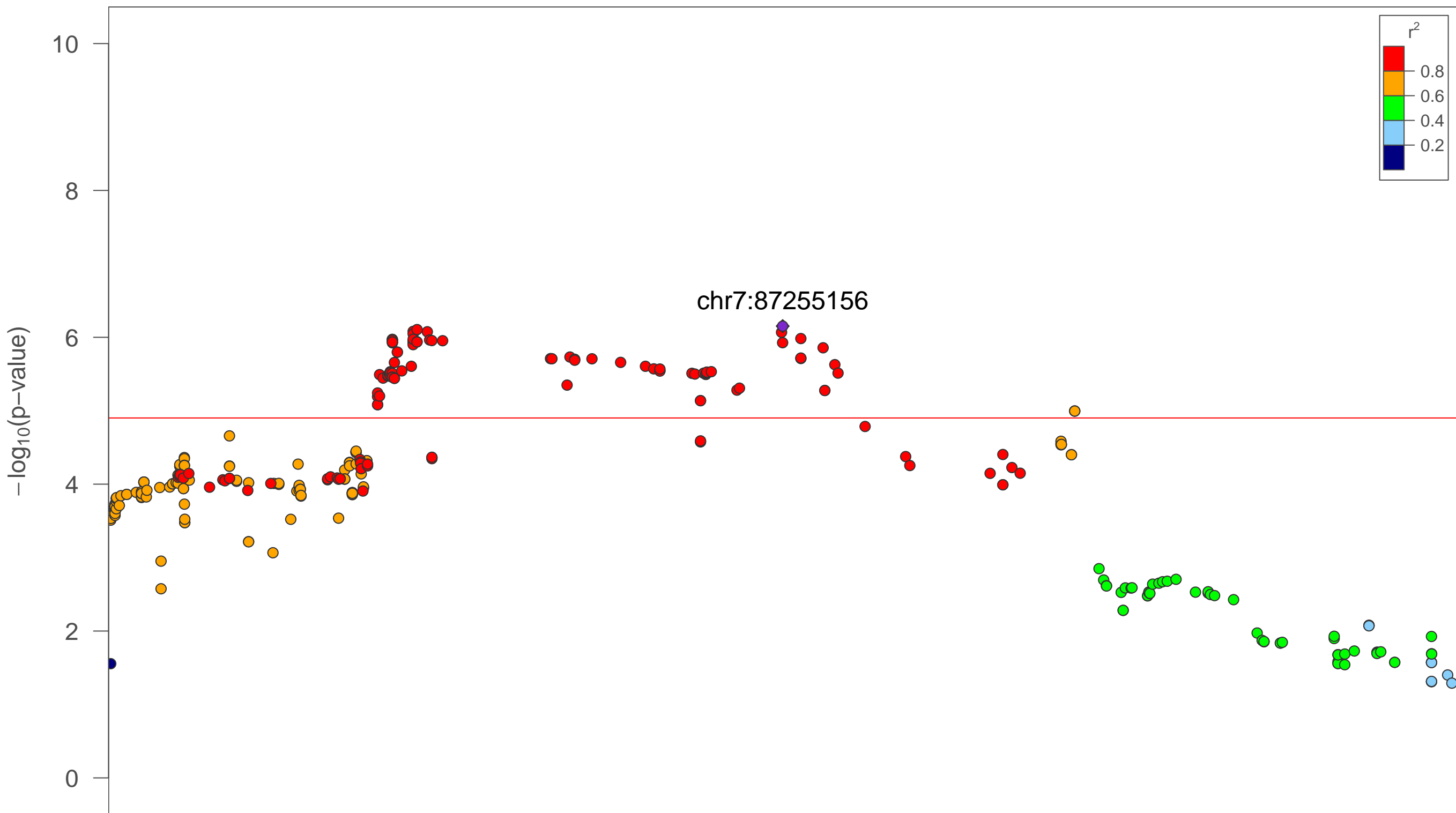
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84250985	7	84.25099	0.0025162275	Credible Set	purple
chr7:84251011	7	84.25101	0.0028294597	Credible Set	purple
chr7:84265410	7	84.26541	0.0008798686	Credible Set	purple
chr7:84265685	7	84.26569	0.0016549308	Credible Set	purple
chr7:84327288	7	84.32729	0.0010533763	Credible Set	purple
chr7:84327808	7	84.32781	0.0012331951	Credible Set	purple
chr7:84327850	7	84.32785	0.0012347214	Credible Set	purple
chr7:84338595	7	84.33859	0.0019602362	Credible Set	purple
chr7:84343118	7	84.34312	0.0131853721	Credible Set	purple
chr7:84344805	7	84.34480	0.0025040726	Credible Set	purple
chr7:84347423	7	84.34742	0.0029631230	Credible Set	purple
chr7:84360038	7	84.36004	0.0025151078	Credible Set	purple
chr7:84360626	7	84.36063	0.0008943498	Credible Set	purple
chr7:84360642	7	84.36064	0.0008787910	Credible Set	purple
chr7:84360703	7	84.36070	0.0541024657	Credible Set	purple
chr7:84360714	7	84.36071	0.0582167848	Credible Set	purple
chr7:84360716	7	84.36072	0.0582167848	Credible Set	purple
chr7:84375526	7	84.37553	0.0491642099	Credible Set	purple
chr7:84375577	7	84.37558	0.0522902104	Credible Set	purple
chr7:84375642	7	84.37564	0.0543287044	Credible Set	purple
chr7:84397575	7	84.39758	0.0877330639	Credible Set	purple
chr7:84397597	7	84.39760	0.0880304180	Credible Set	purple
chr7:84430102	7	84.43010	0.0145224597	Credible Set	purple
chr7:84501082	7	84.50108	0.0180773249	Credible Set	purple
chr7:84514082	7	84.51408	0.0280583866	Credible Set	purple
chr7:84514444	7	84.51444	0.0112579762	Credible Set	purple
chr7:84514505	7	84.51450	0.0106321952	Credible Set	purple
chr7:84514564	7	84.51456	0.0130934303	Credible Set	purple
chr7:84514575	7	84.51457	0.0110187035	Credible Set	purple
chr7:84514734	7	84.51473	0.0302152868	Credible Set	purple
chr7:84543346	7	84.54335	0.0373559777	Credible Set	purple
chr7:84543355	7	84.54336	0.0389205248	Credible Set	purple
chr7:84543782	7	84.54378	0.1203381884	Credible Set	purple
chr7:84619632	7	84.61963	0.0413522640	Credible Set	purple
chr7:84636759	7	84.63676	0.0107822552	Credible Set	purple
chr7:84653095	7	84.65309	0.0107428651	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84733186	7	84.73319	0.0101730164	Credible Set	purple
chr7:85533207	7	85.53321	0.0055404757	Credible Set	purple
chr7:85543843	7	85.54384	0.0064939262	Credible Set	purple
chr7:85656243	7	85.65624	0.0008365762	Credible Set	purple
chr7:85677494	7	85.67749	0.0032155380	Credible Set	purple
chr7:85712663	7	85.71266	0.0035325306	Credible Set	purple
chr7:85712975	7	85.71298	0.0031447501	Credible Set	purple
chr7:85840665	7	85.84067	0.0035804567	Credible Set	purple
chr7:86053386	7	86.05339	0.0018307574	Credible Set	purple
chr7:86237374	7	86.23737	0.0008958302	Credible Set	purple
chr7:86582139	7	86.58214	0.0007973163	Credible Set	purple
chr7:86645719	7	86.64572	0.0021693658	Credible Set	purple
chr7:86645792	7	86.64579	0.0022281328	Credible Set	purple
chr7:87246786	7	87.24679	0.0014708473	Credible Set	purple
chr7:87255156	7	87.25516	0.0014480939	Credible Set	purple
chr7:87554961	7	87.55496	0.0022912610	Credible Set	purple
chr7:87642045	7	87.64204	0.0022093291	Credible Set	purple
chr7:87665727	7	87.66573	0.0040732812	Credible Set	purple

F39–43 GBS, open field, distance moved in total in 2nd 5 minutes (cm)



42 genes
omitted

date: Thu Oct 25 17:25:16 2018
build: F3943GBS
display range: chr7:82255156–92255156 [82255156–92255156]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:87255156
number of SNPs plotted: 313
min P-value: 7.04E–7 [chr7:87255156]
max P-value: 5.12E–2 [chr7:92218225]
omitted Genes: 4933406J10Rik, Mex3b, 4933430H16Rik
omitted Genes: Mesdc1, Mesdc2, Cemip
omitted Genes: Abhd17c, 2610206C17Rik, Olfr291
omitted Genes: Olfr290, Vmn2r65, Vmn2r66
omitted Genes: Vmn2r68, Vmn2r72, Vmn2r73
omitted Genes: Vmn2r74, Vmn2r76, Olfr309
omitted Genes: Olfr308, Olfr307, Olfr305
omitted Genes: Olfr303, Olfr301, Olfr298
omitted Genes: Olfr297, Olfr295, Olfr294
omitted Genes: Olfr293, Olfr292, Folh1
omitted Genes: Vmn2r77, Vmn2r78, Vmn2r79
omitted Genes: Me3, Ccdc81, I7Rn6
omitted Genes: E230029C05Rik, 2310010J17Rik, Ccdc83
omitted Genes: Crebzf, Tmem126a, Tmem126b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84119855	7	84.11986	0.0005778993	Credible Set	purple
chr7:84124190	7	84.12419	0.0005357889	Credible Set	purple
chr7:84124515	7	84.12452	0.0005171650	Credible Set	purple
chr7:84175856	7	84.17586	0.0004909846	Credible Set	purple
chr7:84176482	7	84.17648	0.0005027755	Credible Set	purple
chr7:84250985	7	84.25099	0.0037721754	Credible Set	purple
chr7:84251011	7	84.25101	0.0042096789	Credible Set	purple
chr7:84251159	7	84.25116	0.0029634419	Credible Set	purple
chr7:84251209	7	84.25121	0.0029575140	Credible Set	purple
chr7:84265410	7	84.26541	0.0038360642	Credible Set	purple
chr7:84265685	7	84.26569	0.0073011626	Credible Set	purple
chr7:84291540	7	84.29154	0.0065812100	Credible Set	purple
chr7:84327288	7	84.32729	0.0070070876	Credible Set	purple
chr7:84327808	7	84.32781	0.0070022368	Credible Set	purple
chr7:84327850	7	84.32785	0.0071765186	Credible Set	purple
chr7:84338595	7	84.33859	0.0074734726	Credible Set	purple
chr7:84343118	7	84.34312	0.0072591545	Credible Set	purple
chr7:84344805	7	84.34480	0.0079722874	Credible Set	purple
chr7:84347423	7	84.34742	0.0077553426	Credible Set	purple
chr7:84360038	7	84.36004	0.0075790774	Credible Set	purple
chr7:84360224	7	84.36022	0.0209963132	Credible Set	purple
chr7:84360247	7	84.36025	0.0206930607	Credible Set	purple
chr7:84360258	7	84.36026	0.0211543126	Credible Set	purple
chr7:84360279	7	84.36028	0.0205208054	Credible Set	purple
chr7:84360626	7	84.36063	0.0067942350	Credible Set	purple
chr7:84360642	7	84.36064	0.0067436055	Credible Set	purple
chr7:84360703	7	84.36070	0.0190356718	Credible Set	purple
chr7:84360714	7	84.36071	0.0194835692	Credible Set	purple
chr7:84360716	7	84.36072	0.0194835692	Credible Set	purple
chr7:84375526	7	84.37553	0.0105168391	Credible Set	purple
chr7:84375577	7	84.37558	0.0065432131	Credible Set	purple
chr7:84375642	7	84.37564	0.0065252941	Credible Set	purple
chr7:84397575	7	84.39758	0.0143639053	Credible Set	purple
chr7:84397597	7	84.39760	0.0143942156	Credible Set	purple
chr7:84430102	7	84.43010	0.0081738215	Credible Set	purple
chr7:84501082	7	84.50108	0.0093843197	Credible Set	purple

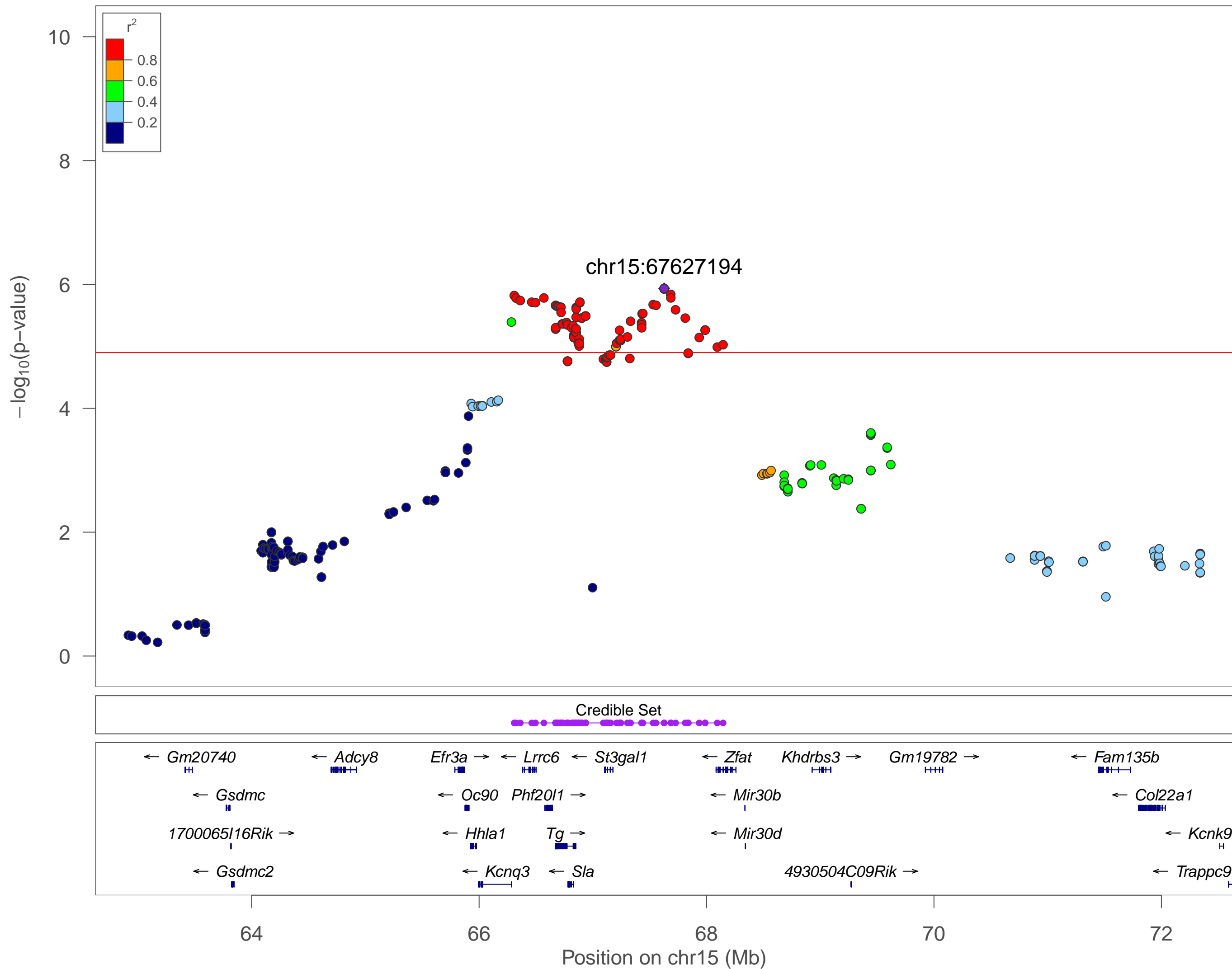
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84514082	7	84.51408	0.0201037678	Credible Set	purple
chr7:84514444	7	84.51444	0.0188191681	Credible Set	purple
chr7:84514505	7	84.51450	0.0180192757	Credible Set	purple
chr7:84514564	7	84.51456	0.0268849195	Credible Set	purple
chr7:84514575	7	84.51457	0.0249583567	Credible Set	purple
chr7:84514734	7	84.51473	0.0211992357	Credible Set	purple
chr7:84543346	7	84.54335	0.0196454568	Credible Set	purple
chr7:84543355	7	84.54336	0.0195611893	Credible Set	purple
chr7:84543782	7	84.54378	0.0284006070	Credible Set	purple
chr7:84619632	7	84.61963	0.0265908744	Credible Set	purple
chr7:84636759	7	84.63676	0.0207510453	Credible Set	purple
chr7:84653095	7	84.65309	0.0203711319	Credible Set	purple
chr7:84653660	7	84.65366	0.0006114912	Credible Set	purple
chr7:84653702	7	84.65370	0.0005916057	Credible Set	purple
chr7:84653707	7	84.65371	0.0006163577	Credible Set	purple
chr7:84733186	7	84.73319	0.0202879621	Credible Set	purple
chr7:85533207	7	85.53321	0.0118245423	Credible Set	purple
chr7:85543843	7	85.54384	0.0117809342	Credible Set	purple
chr7:85656243	7	85.65624	0.0053322504	Credible Set	purple
chr7:85677494	7	85.67749	0.0124047503	Credible Set	purple
chr7:85712663	7	85.71266	0.0115982331	Credible Set	purple
chr7:85712975	7	85.71298	0.0112675652	Credible Set	purple
chr7:85840665	7	85.84067	0.0117591812	Credible Set	purple
chr7:86053386	7	86.05339	0.0105606946	Credible Set	purple
chr7:86237374	7	86.23737	0.0093901368	Credible Set	purple
chr7:86298979	7	86.29898	0.0086891344	Credible Set	purple
chr7:86344420	7	86.34442	0.0082223415	Credible Set	purple
chr7:86344437	7	86.34444	0.0081311776	Credible Set	purple
chr7:86344488	7	86.34449	0.0086472449	Credible Set	purple
chr7:86582139	7	86.58214	0.0075978445	Credible Set	purple
chr7:86603770	7	86.60377	0.0074308701	Credible Set	purple
chr7:86645719	7	86.64572	0.0033481407	Credible Set	purple
chr7:86645792	7	86.64579	0.0033366141	Credible Set	purple
chr7:86645947	7	86.64595	0.0009731313	Credible Set	purple
chr7:86645990	7	86.64599	0.0010036619	Credible Set	purple
chr7:86668998	7	86.66900	0.0076263605	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:86685426	7	86.68543	0.0073526957	Credible Set	purple
chr7:86685507	7	86.68551	0.0073576016	Credible Set	purple
chr7:86685648	7	86.68565	0.0076124420	Credible Set	purple
chr7:86692214	7	86.69221	0.0077154897	Credible Set	purple
chr7:86692491	7	86.69249	0.0078837695	Credible Set	purple
chr7:86725518	7	86.72552	0.0079804769	Credible Set	purple
chr7:86916161	7	86.91616	0.0045834015	Credible Set	purple
chr7:86934710	7	86.93471	0.0048625197	Credible Set	purple
chr7:87246786	7	87.24679	0.0261587611	Credible Set	purple
chr7:87254690	7	87.25469	0.0191106937	Credible Set	purple
chr7:87255156	7	87.25516	0.0315032437	Credible Set	purple
chr7:87389952	7	87.38995	0.0216541466	Credible Set	purple
chr7:87389989	7	87.38999	0.0118605169	Credible Set	purple
chr7:87390014	7	87.39001	0.0120263294	Credible Set	purple
chr7:87554961	7	87.55496	0.0163924310	Credible Set	purple
chr7:87567685	7	87.56768	0.0045458375	Credible Set	purple
chr7:87567686	7	87.56769	0.0045284478	Credible Set	purple
chr7:87642045	7	87.64204	0.0098629187	Credible Set	purple
chr7:87665727	7	87.66573	0.0076458768	Credible Set	purple
chr7:87866323	7	87.86632	0.0015433559	Credible Set	purple
chr7:88167216	7	88.16722	0.0006286716	Credible Set	purple
chr7:88888200	7	88.88820	0.0006690654	Credible Set	purple

F39–43 GBS, open field, distance moved in total in 2nd 5 minutes (cm)



date: Thu Oct 25 17:25:06 2018

build: F3943GBS

display range: chr15:62627194–72627194 [62627194–72627194]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:67627194

number of SNPs plotted: 313

min P-value: 1.16E–6 [chr15:67627194]

max P-value: 6.01E–1 [chr15:63173066]

omitted Genes: Gsdmcl1, Gsdmc3, Gsdmcl2

omitted Genes: Gsdmc4, Gsdmcl-ps, Fam49b

omitted Genes: Asap1, Tmem71, Wisp1

omitted Genes: Ndr1, 1700012I11Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66309070	15	66.30907	0.023207097	Credible Set	purple
chr15:66324506	15	66.32451	0.021174756	Credible Set	purple
chr15:66361813	15	66.36181	0.019390850	Credible Set	purple
chr15:66462727	15	66.46273	0.018298992	Credible Set	purple
chr15:66495529	15	66.49553	0.017979664	Credible Set	purple
chr15:66569471	15	66.56947	0.021277214	Credible Set	purple
chr15:66672984	15	66.67298	0.007050229	Credible Set	purple
chr15:66672997	15	66.67300	0.007027169	Credible Set	purple
chr15:66673010	15	66.67301	0.007009014	Credible Set	purple
chr15:66673015	15	66.67302	0.007370279	Credible Set	purple
chr15:66673436	15	66.67344	0.016272011	Credible Set	purple
chr15:66673541	15	66.67354	0.016297356	Credible Set	purple
chr15:66673940	15	66.67394	0.016276737	Credible Set	purple
chr15:66685097	15	66.68510	0.015778110	Credible Set	purple
chr15:66696518	15	66.69652	0.015588218	Credible Set	purple
chr15:66699723	15	66.69972	0.015597573	Credible Set	purple
chr15:66719126	15	66.71913	0.015330466	Credible Set	purple
chr15:66719241	15	66.71924	0.015171761	Credible Set	purple
chr15:66720772	15	66.72077	0.012702722	Credible Set	purple
chr15:66730424	15	66.73042	0.008425202	Credible Set	purple
chr15:66737376	15	66.73738	0.008431567	Credible Set	purple
chr15:66768701	15	66.76870	0.008860071	Credible Set	purple
chr15:66777400	15	66.77740	0.008145108	Credible Set	purple
chr15:66777425	15	66.77742	0.008157646	Credible Set	purple
chr15:66777461	15	66.77746	0.008131774	Credible Set	purple
chr15:66777729	15	66.77773	0.002249629	Credible Set	purple
chr15:66777730	15	66.77773	0.002246403	Credible Set	purple
chr15:66777731	15	66.77773	0.002240508	Credible Set	purple
chr15:66777743	15	66.77774	0.002235736	Credible Set	purple
chr15:66812941	15	66.81294	0.007358563	Credible Set	purple
chr15:66826934	15	66.82693	0.007915947	Credible Set	purple
chr15:66834506	15	66.83451	0.005517590	Credible Set	purple
chr15:66834532	15	66.83453	0.005630602	Credible Set	purple
chr15:66834574	15	66.83457	0.005616528	Credible Set	purple
chr15:66834575	15	66.83458	0.005757617	Credible Set	purple
chr15:66834600	15	66.83460	0.005204227	Credible Set	purple

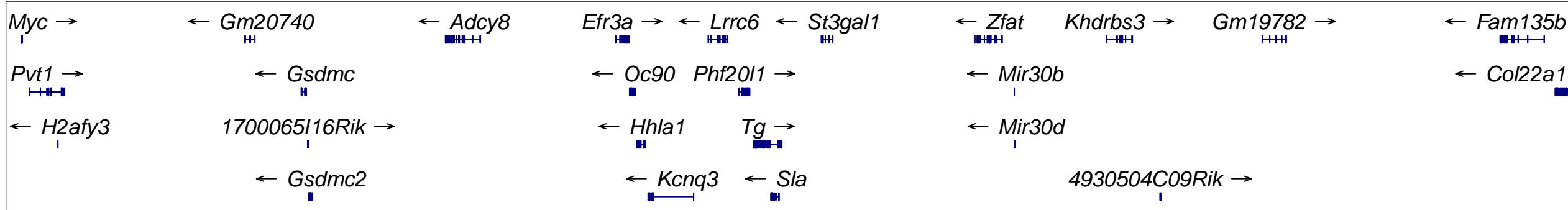
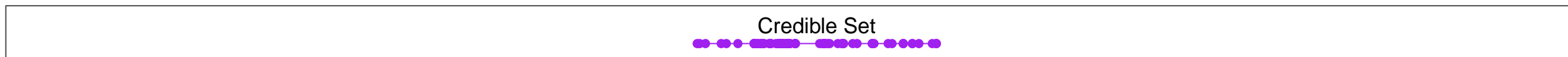
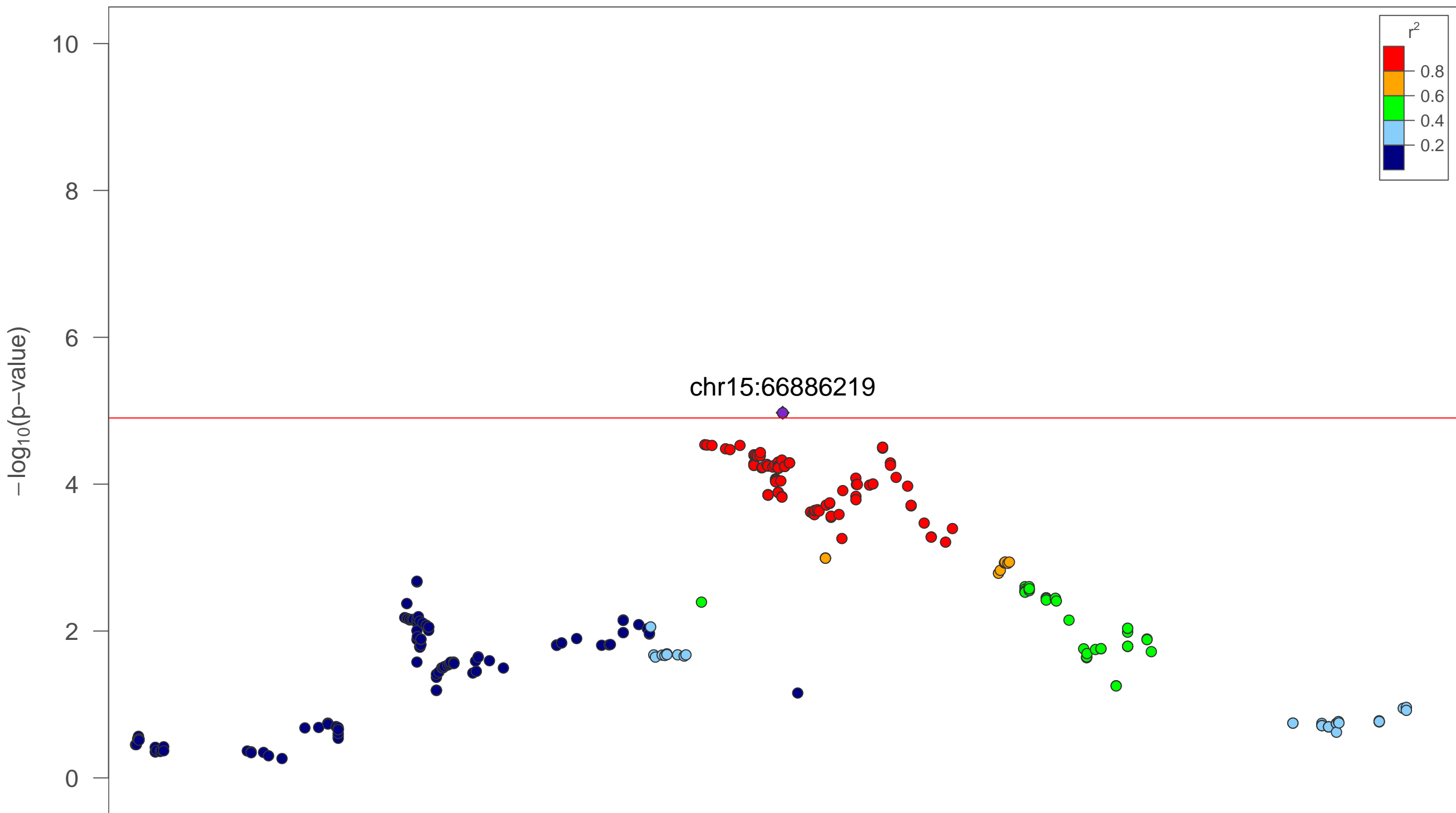
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834621	15	66.83462	0.005392772	Credible Set	purple
chr15:66834624	15	66.83462	0.005160620	Credible Set	purple
chr15:66834637	15	66.83464	0.005175929	Credible Set	purple
chr15:66853166	15	66.85317	0.010694344	Credible Set	purple
chr15:66853439	15	66.85344	0.006159641	Credible Set	purple
chr15:66853460	15	66.85346	0.006206085	Credible Set	purple
chr15:66853489	15	66.85349	0.006225632	Credible Set	purple
chr15:66853520	15	66.85352	0.007075779	Credible Set	purple
chr15:66853893	15	66.85389	0.015165548	Credible Set	purple
chr15:66853894	15	66.85389	0.014682533	Credible Set	purple
chr15:66853923	15	66.85392	0.014734403	Credible Set	purple
chr15:66853954	15	66.85395	0.014358853	Credible Set	purple
chr15:66872519	15	66.87252	0.004252856	Credible Set	purple
chr15:66880575	15	66.88057	0.003831402	Credible Set	purple
chr15:66880583	15	66.88058	0.004922123	Credible Set	purple
chr15:66880635	15	66.88063	0.004245451	Credible Set	purple
chr15:66880638	15	66.88064	0.004176892	Credible Set	purple
chr15:66886219	15	66.88622	0.017924386	Credible Set	purple
chr15:66886266	15	66.88627	0.018358923	Credible Set	purple
chr15:66901528	15	66.90153	0.010354701	Credible Set	purple
chr15:66901548	15	66.90155	0.010354701	Credible Set	purple
chr15:66901593	15	66.90159	0.010354701	Credible Set	purple
chr15:66935376	15	66.93538	0.011140589	Credible Set	purple
chr15:66935390	15	66.93539	0.011140589	Credible Set	purple
chr15:66935391	15	66.93539	0.011140589	Credible Set	purple
chr15:66935405	15	66.93541	0.011140589	Credible Set	purple
chr15:66937231	15	66.93723	0.011182417	Credible Set	purple
chr15:66937423	15	66.93742	0.011091471	Credible Set	purple
chr15:67092666	15	67.09267	0.002405816	Credible Set	purple
chr15:67111279	15	67.11128	0.002343101	Credible Set	purple
chr15:67121756	15	67.12176	0.002523667	Credible Set	purple
chr15:67126159	15	67.12616	0.002601266	Credible Set	purple
chr15:67144054	15	67.14405	0.002779978	Credible Set	purple
chr15:67156480	15	67.15648	0.002781250	Credible Set	purple
chr15:67208761	15	67.20876	0.004234644	Credible Set	purple
chr15:67234910	15	67.23491	0.004728429	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67235072	15	67.23507	0.006718163	Credible Set	purple
chr15:67245093	15	67.24509	0.004663734	Credible Set	purple
chr15:67245123	15	67.24512	0.004892108	Credible Set	purple
chr15:67304194	15	67.30419	0.005299837	Credible Set	purple
chr15:67325463	15	67.32546	0.002461294	Credible Set	purple
chr15:67331738	15	67.33174	0.009255784	Credible Set	purple
chr15:67428857	15	67.42886	0.008783811	Credible Set	purple
chr15:67429407	15	67.42941	0.008171220	Credible Set	purple
chr15:67429420	15	67.42942	0.007334340	Credible Set	purple
chr15:67433395	15	67.43340	0.012121725	Credible Set	purple
chr15:67439974	15	67.43997	0.012223057	Credible Set	purple
chr15:67530570	15	67.53057	0.016779644	Credible Set	purple
chr15:67555683	15	67.55568	0.016388221	Credible Set	purple
chr15:67627161	15	67.62716	0.029220941	Credible Set	purple
chr15:67627183	15	67.62718	0.029871455	Credible Set	purple
chr15:67627194	15	67.62719	0.029916701	Credible Set	purple
chr15:67685224	15	67.68522	0.024198847	Credible Set	purple
chr15:67685781	15	67.68578	0.021301057	Credible Set	purple
chr15:67727448	15	67.72745	0.013939461	Credible Set	purple
chr15:67812971	15	67.81297	0.010354803	Credible Set	purple
chr15:67838708	15	67.83871	0.002956534	Credible Set	purple
chr15:67838720	15	67.83872	0.002959211	Credible Set	purple
chr15:67838721	15	67.83872	0.002986615	Credible Set	purple
chr15:67935812	15	67.93581	0.005186890	Credible Set	purple
chr15:67987913	15	67.98791	0.006800399	Credible Set	purple
chr15:67987932	15	67.98793	0.006735037	Credible Set	purple
chr15:68094377	15	68.09438	0.003697219	Credible Set	purple
chr15:68145325	15	68.14532	0.004017346	Credible Set	purple

F39–43 GBS, open field, zone transition frequency in 2nd 5 minutes



11 genes
omitted

62 64 66 68 70

Position on chr15 (Mb)

date: Thu Oct 25 17:25:25 2018

build: F3943GBS

display range: chr15:61886219–71886219 [61886219–71886219]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:66886219

number of SNPs plotted: 313

min P-value: 1.07E–5 [chr15:66886219]

max P-value: 5.45E–1 [chr15:63173066]

omitted Genes: Gsdmcl1, Gsdmc3, Gsdmcl2

omitted Genes: Gsdmc4, Gsdmcl-ps, Fam49b

omitted Genes: Asap1, Tmem71, Wisp1

omitted Genes: Ndr1, 1700012I11Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66309070	15	66.30907	0.020698958	Credible Set	purple
chr15:66324506	15	66.32451	0.020509886	Credible Set	purple
chr15:66361813	15	66.36181	0.020262884	Credible Set	purple
chr15:66462727	15	66.46273	0.018331792	Credible Set	purple
chr15:66495529	15	66.49553	0.017879978	Credible Set	purple
chr15:66569471	15	66.56947	0.020294586	Credible Set	purple
chr15:66672984	15	66.67298	0.011738641	Credible Set	purple
chr15:66672997	15	66.67300	0.011658753	Credible Set	purple
chr15:66673010	15	66.67301	0.011164878	Credible Set	purple
chr15:66673015	15	66.67302	0.011209706	Credible Set	purple
chr15:66673436	15	66.67344	0.015080409	Credible Set	purple
chr15:66673541	15	66.67354	0.015274113	Credible Set	purple
chr15:66673940	15	66.67394	0.015339929	Credible Set	purple
chr15:66685097	15	66.68510	0.014987047	Credible Set	purple
chr15:66696518	15	66.69652	0.014666886	Credible Set	purple
chr15:66699723	15	66.69972	0.014803203	Credible Set	purple
chr15:66719126	15	66.71913	0.014855476	Credible Set	purple
chr15:66719241	15	66.71924	0.014872116	Credible Set	purple
chr15:66720772	15	66.72077	0.016394163	Credible Set	purple
chr15:66730424	15	66.73042	0.010415374	Credible Set	purple
chr15:66737376	15	66.73738	0.010561024	Credible Set	purple
chr15:66768701	15	66.76870	0.011528918	Credible Set	purple
chr15:66777400	15	66.77740	0.010959676	Credible Set	purple
chr15:66777425	15	66.77742	0.010990736	Credible Set	purple
chr15:66777461	15	66.77746	0.011029969	Credible Set	purple
chr15:66777706	15	66.77771	0.004662397	Credible Set	purple
chr15:66777728	15	66.77773	0.004625887	Credible Set	purple
chr15:66777729	15	66.77773	0.004709199	Credible Set	purple
chr15:66777730	15	66.77773	0.004664560	Credible Set	purple
chr15:66777731	15	66.77773	0.004679039	Credible Set	purple
chr15:66777743	15	66.77774	0.004653623	Credible Set	purple
chr15:66812941	15	66.81294	0.010659136	Credible Set	purple
chr15:66826934	15	66.82693	0.011255160	Credible Set	purple
chr15:66834506	15	66.83451	0.007469981	Credible Set	purple
chr15:66834532	15	66.83453	0.007511882	Credible Set	purple
chr15:66834574	15	66.83457	0.007328150	Credible Set	purple

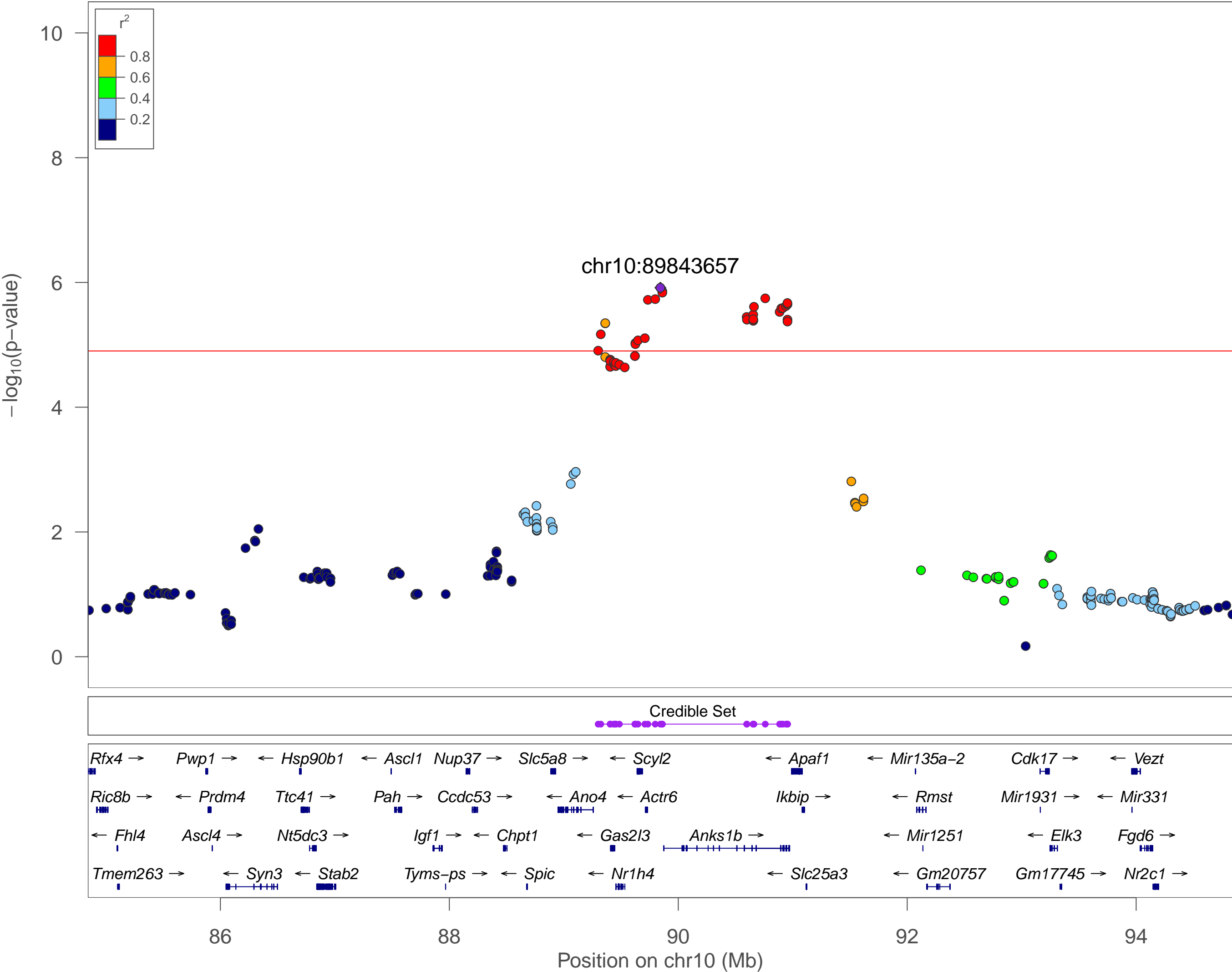
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834575	15	66.83458	0.007408892	Credible Set	purple
chr15:66834600	15	66.83460	0.006935110	Credible Set	purple
chr15:66834621	15	66.83462	0.007236619	Credible Set	purple
chr15:66834624	15	66.83462	0.006981609	Credible Set	purple
chr15:66834637	15	66.83464	0.006883963	Credible Set	purple
chr15:66853166	15	66.85317	0.012349756	Credible Set	purple
chr15:66853439	15	66.85344	0.004997227	Credible Set	purple
chr15:66853460	15	66.85346	0.005061523	Credible Set	purple
chr15:66853489	15	66.85349	0.005000614	Credible Set	purple
chr15:66853520	15	66.85352	0.010203847	Credible Set	purple
chr15:66853893	15	66.85389	0.011028860	Credible Set	purple
chr15:66853894	15	66.85389	0.010888260	Credible Set	purple
chr15:66853923	15	66.85392	0.010743687	Credible Set	purple
chr15:66853954	15	66.85395	0.010387656	Credible Set	purple
chr15:66872519	15	66.87252	0.007063003	Credible Set	purple
chr15:66880575	15	66.88057	0.004445166	Credible Set	purple
chr15:66880583	15	66.88058	0.013105398	Credible Set	purple
chr15:66880635	15	66.88063	0.004416464	Credible Set	purple
chr15:66880638	15	66.88064	0.004371283	Credible Set	purple
chr15:66886219	15	66.88622	0.053782866	Credible Set	purple
chr15:66886266	15	66.88627	0.052999560	Credible Set	purple
chr15:66901528	15	66.90153	0.010841851	Credible Set	purple
chr15:66901548	15	66.90155	0.010841851	Credible Set	purple
chr15:66901593	15	66.90159	0.010841851	Credible Set	purple
chr15:66935376	15	66.93538	0.012062147	Credible Set	purple
chr15:66935390	15	66.93539	0.012062147	Credible Set	purple
chr15:66935391	15	66.93539	0.012062147	Credible Set	purple
chr15:66935405	15	66.93541	0.012062147	Credible Set	purple
chr15:66937231	15	66.93723	0.012036848	Credible Set	purple
chr15:66937423	15	66.93742	0.012043692	Credible Set	purple
chr15:67092666	15	67.09267	0.002820092	Credible Set	purple
chr15:67111279	15	67.11128	0.002696999	Credible Set	purple
chr15:67121570	15	67.12157	0.002621619	Credible Set	purple
chr15:67121571	15	67.12157	0.002611509	Credible Set	purple
chr15:67121756	15	67.12176	0.002930503	Credible Set	purple
chr15:67126159	15	67.12616	0.002958378	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67144054	15	67.14405	0.003016865	Credible Set	purple
chr15:67156480	15	67.15648	0.002902829	Credible Set	purple
chr15:67208761	15	67.20876	0.003452345	Credible Set	purple
chr15:67234910	15	67.23491	0.003626787	Credible Set	purple
chr15:67235072	15	67.23507	0.003693117	Credible Set	purple
chr15:67245093	15	67.24509	0.002409990	Credible Set	purple
chr15:67245123	15	67.24512	0.002495326	Credible Set	purple
chr15:67304194	15	67.30419	0.002621891	Credible Set	purple
chr15:67331738	15	67.33174	0.005297626	Credible Set	purple
chr15:67428857	15	67.42886	0.007662751	Credible Set	purple
chr15:67429407	15	67.42941	0.004473028	Credible Set	purple
chr15:67429420	15	67.42942	0.004049878	Credible Set	purple
chr15:67433395	15	67.43340	0.006358279	Credible Set	purple
chr15:67439974	15	67.43997	0.006350720	Credible Set	purple
chr15:67530570	15	67.53057	0.006236362	Credible Set	purple
chr15:67555683	15	67.55568	0.006458702	Credible Set	purple
chr15:67627161	15	67.62716	0.018660436	Credible Set	purple
chr15:67627183	15	67.62718	0.019240017	Credible Set	purple
chr15:67627194	15	67.62719	0.019169201	Credible Set	purple
chr15:67685224	15	67.68522	0.012050550	Credible Set	purple
chr15:67685781	15	67.68578	0.011217577	Credible Set	purple
chr15:67727448	15	67.72745	0.007843457	Credible Set	purple
chr15:67812971	15	67.81297	0.006043895	Credible Set	purple
chr15:67838708	15	67.83871	0.003403577	Credible Set	purple
chr15:67838720	15	67.83872	0.003375711	Credible Set	purple
chr15:67838721	15	67.83872	0.003438125	Credible Set	purple

F39–43 GBS, open field, minimum distance to center in 2nd 5 minutes (cm)



date: Thu Oct 25 17:25:35 2018
build: F3943GBS
display range: chr10:84843657–94843657 [84843657–94843657]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr10:89843657
number of SNPs plotted: 279
min P-value: 1.22E–6 [chr10:89843657]
max P-value: 6.76E–1 [chr10:93034582]
omitted Genes: Mterf2, Cry1, Btbd11
omitted Genes: Rtcb, Bpifc, Fbxo7
omitted Genes: 4930486F22Rik, Timp3, 1810014B01Rik
omitted Genes: 1700113H08Rik, Pmch, Parpbp
omitted Genes: Dram1, Gnptab, Sycp3
omitted Genes: Mybpc1, Gm4925, Arl1
omitted Genes: Utp20, Slc17a8, 1500026H17Rik
omitted Genes: Uhrf1bp1l, Tmpo, Nedd1
omitted Genes: Mir7688, Lta4h, Hal
omitted Genes: Amdhd1, Ccdc38, Snrpf
omitted Genes: 4933408J17Rik, Ntn4, Gm8580
omitted Genes: Gm15915, Usp44, Metap2
omitted Genes: Ndufa12, Gm4792, Tmcc3
omitted Genes: Mir7211, Cep83os, Cep83
omitted Genes: Plxnc1

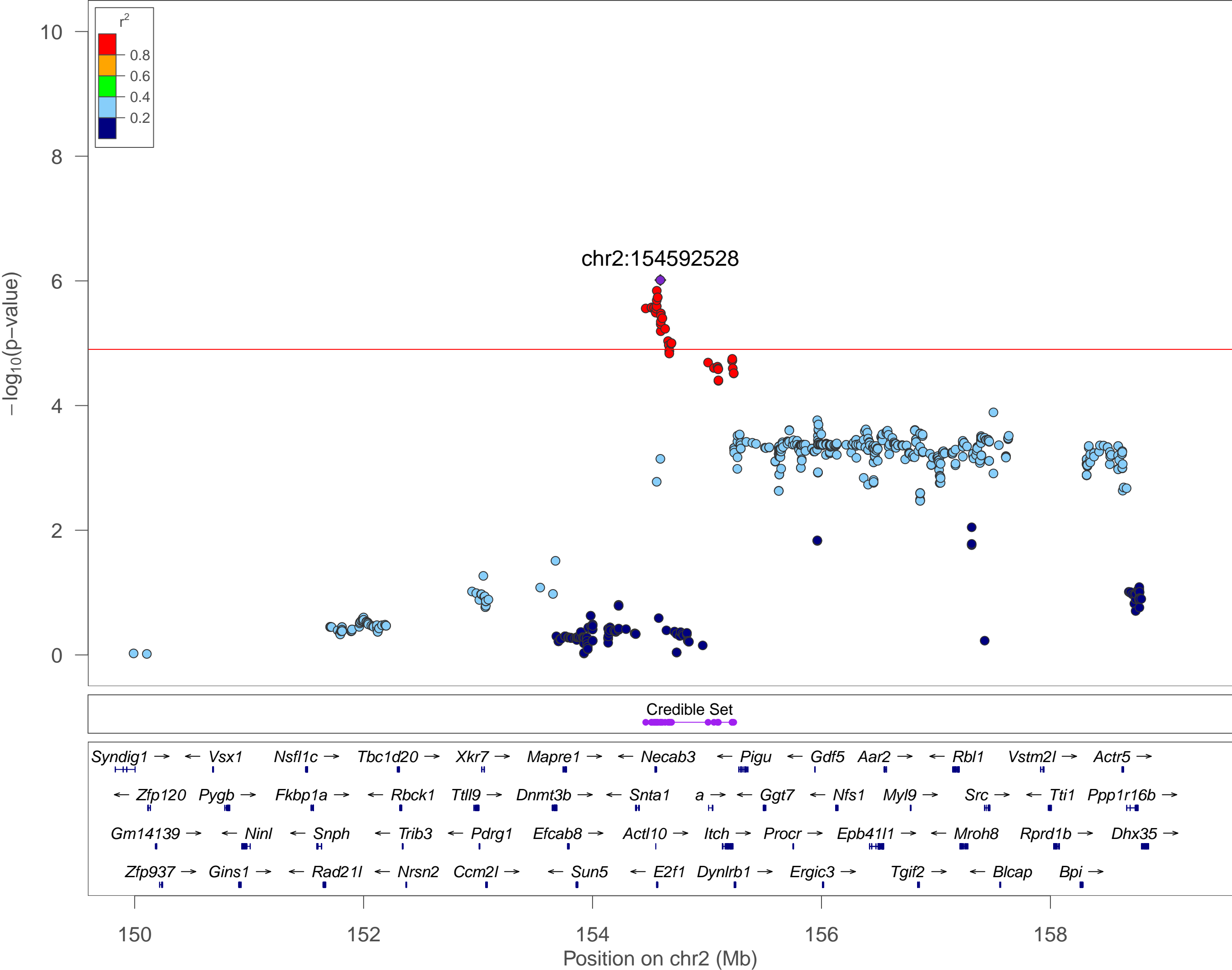
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:89300286	10	89.30029	0.007881034	Credible Set	purple
chr10:89323084	10	89.32308	0.014030792	Credible Set	purple
chr10:89405522	10	89.40552	0.004490975	Credible Set	purple
chr10:89405556	10	89.40556	0.005729703	Credible Set	purple
chr10:89405564	10	89.40556	0.005729703	Credible Set	purple
chr10:89405589	10	89.40559	0.005479471	Credible Set	purple
chr10:89405627	10	89.40563	0.005476568	Credible Set	purple
chr10:89435280	10	89.43528	0.005212697	Credible Set	purple
chr10:89443390	10	89.44339	0.004782635	Credible Set	purple
chr10:89454154	10	89.45415	0.004580889	Credible Set	purple
chr10:89454848	10	89.45485	0.005135398	Credible Set	purple
chr10:89485534	10	89.48553	0.004825721	Credible Set	purple
chr10:89621284	10	89.62128	0.006538935	Credible Set	purple
chr10:89621319	10	89.62132	0.006507063	Credible Set	purple
chr10:89625488	10	89.62549	0.010285437	Credible Set	purple
chr10:89625559	10	89.62556	0.009912130	Credible Set	purple
chr10:89647994	10	89.64799	0.011330864	Credible Set	purple
chr10:89708192	10	89.70819	0.012229407	Credible Set	purple
chr10:89734590	10	89.73459	0.047512984	Credible Set	purple
chr10:89798643	10	89.79864	0.048713569	Credible Set	purple
chr10:89843657	10	89.84366	0.072985672	Credible Set	purple
chr10:89860498	10	89.86050	0.064329409	Credible Set	purple
chr10:89860846	10	89.86085	0.061311481	Credible Set	purple
chr10:90597510	10	90.59751	0.025879311	Credible Set	purple
chr10:90599690	10	90.59969	0.023518083	Credible Set	purple
chr10:90654718	10	90.65472	0.028128409	Credible Set	purple
chr10:90654994	10	90.65499	0.022586308	Credible Set	purple
chr10:90654998	10	90.65500	0.023434447	Credible Set	purple
chr10:90655002	10	90.65500	0.022854374	Credible Set	purple
chr10:90655039	10	90.65504	0.023867980	Credible Set	purple
chr10:90661222	10	90.66122	0.037154221	Credible Set	purple
chr10:90759813	10	90.75981	0.050097333	Credible Set	purple
chr10:90885383	10	90.88538	0.030949421	Credible Set	purple
chr10:90899946	10	90.89995	0.035095899	Credible Set	purple
chr10:90913583	10	90.91358	0.035510922	Credible Set	purple
chr10:90940720	10	90.94072	0.038119699	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr10:90953385	10	90.95338	0.04030947	Credible Set	purple
chr10:90953402	10	90.95340	0.04063134	Credible Set	purple
chr10:90953425	10	90.95342	0.04243464	Credible Set	purple
chr10:90954053	10	90.95405	0.02357875	Credible Set	purple
chr10:90954116	10	90.95412	0.02200545	Credible Set	purple

F39–43 GBS, open field, immobile duration in 2nd 5 minutes (s)



date: Thu Oct 25 17:24:48 2018

build: F3943GBS

display range: chr2:149592528–159592528 [149592528–159592528]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:154592528

number of SNPs plotted: 757

min P-value: 9.7E–7 [chr2:154592528]

max P-value: 9.63E–1 [chr2:150106309]

omitted Genes: Gm14124, 3300002I08Rik, Zfp442

omitted Genes: Zfp345, Cst7, Apmap

omitted Genes: Acss1, E130215H24Rik, Entpd6

omitted Genes: Abhd12, Nanp, Gm14151

omitted Genes: 4930442J19Rik, LOC100125594, 4921509C19Rik

omitted Genes: Sdcbp2, Tmem74b, Psmf1

omitted Genes: Rspo4, Angpt4, Mir1953

omitted Genes: Fam110a, Slc52a3, Scrt2

omitted Genes: Srxn1, Tcf15, Csnk2a1

omitted Genes: Gm14164, Sox12, Zcchc3

omitted Genes: 6820408C15Rik, Defb23, Defb20

omitted Genes: Defb22, Defb26, Defb28

omitted Genes: Defb29, Defb21, Defb19

omitted Genes: Defb45, Defb36, Defb25

omitted Genes: Rem1, H13, Mcts2

omitted Genes: Id1, Cox4i2, Bcl2l1

omitted Genes: Tpx2, Mir5622, Mylk2

omitted Genes: Foxs1, Dusp15, Hck

omitted Genes: Tm9sf4, Tspyl3, Plagl2

omitted Genes: Pofut1, Kif3b, 2500004C02Rik

omitted Genes: Asxl1, Nol4l, Commd7

omitted Genes: Bpifb2, Bpifb6, Bpifb3

omitted Genes: Bpifb4, Bpifa6, Bpifa2

omitted Genes: Bpifa3, Bpifa1, Bpifa5

omitted Genes: Bpifb1, Bpifb5, Bpifb9a

omitted Genes: Bpifb9b, Cdk5rap1, Cbfa2t2

omitted Genes: 1700003F12Rik, Pxmp4, Zfp341

omitted Genes: Chmp4b, Raly, Eif2s2

omitted Genes: Ahcy, 2310005A03Rik, Map1lc3a

omitted Genes: Mir695, Trp53inp2, Ncoa6

omitted Genes: Acss2, Acss2os, Gss

omitted Genes: Myh7b, Mir499, Trnc4ap

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

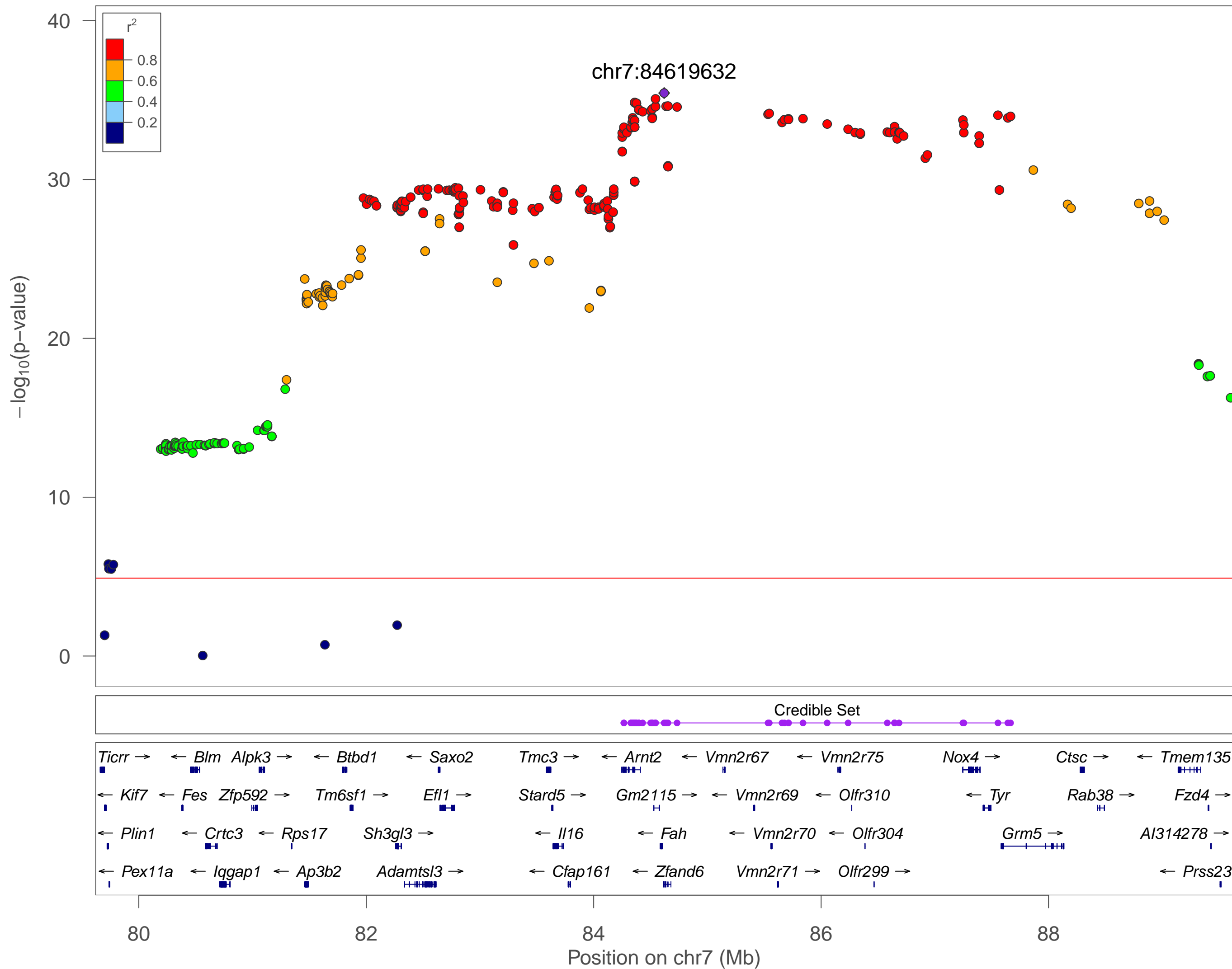
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:154464466	2	154.4645	0.035286527	Credible Set	purple
chr2:154513996	2	154.5140	0.036271254	Credible Set	purple
chr2:154515752	2	154.5158	0.036417311	Credible Set	purple
chr2:154516249	2	154.5162	0.036630633	Credible Set	purple
chr2:154537995	2	154.5380	0.036352452	Credible Set	purple
chr2:154538009	2	154.5380	0.036261717	Credible Set	purple
chr2:154552607	2	154.5526	0.030876085	Credible Set	purple
chr2:154552612	2	154.5526	0.030404513	Credible Set	purple
chr2:154556468	2	154.5565	0.034983777	Credible Set	purple
chr2:154560354	2	154.5604	0.038234556	Credible Set	purple
chr2:154560360	2	154.5604	0.038191772	Credible Set	purple
chr2:154560680	2	154.5607	0.047096613	Credible Set	purple
chr2:154561127	2	154.5611	0.066223474	Credible Set	purple
chr2:154569018	2	154.5690	0.052319012	Credible Set	purple
chr2:154569036	2	154.5690	0.052334620	Credible Set	purple
chr2:154592528	2	154.5925	0.096694605	Credible Set	purple
chr2:154595741	2	154.5957	0.015770754	Credible Set	purple
chr2:154595774	2	154.5958	0.020210672	Credible Set	purple
chr2:154596294	2	154.5963	0.022143255	Credible Set	purple
chr2:154597124	2	154.5971	0.029691904	Credible Set	purple
chr2:154597483	2	154.5975	0.027252388	Credible Set	purple
chr2:154610318	2	154.6103	0.024933804	Credible Set	purple
chr2:154633945	2	154.6339	0.017170610	Credible Set	purple
chr2:154659631	2	154.6596	0.011141211	Credible Set	purple
chr2:154665835	2	154.6658	0.009651117	Credible Set	purple
chr2:154670525	2	154.6705	0.007735798	Credible Set	purple
chr2:154670528	2	154.6705	0.007793134	Credible Set	purple
chr2:154670562	2	154.6706	0.008035652	Credible Set	purple
chr2:154670571	2	154.6706	0.007175127	Credible Set	purple
chr2:154686815	2	154.6868	0.010112313	Credible Set	purple
chr2:154689824	2	154.6898	0.010371693	Credible Set	purple
chr2:155009299	2	155.0093	0.005223306	Credible Set	purple
chr2:155060609	2	155.0606	0.004315967	Credible Set	purple
chr2:155091628	2	155.0916	0.004519797	Credible Set	purple
chr2:155097606	2	155.0976	0.004250527	Credible Set	purple
chr2:155097628	2	155.0976	0.004125484	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr2:155097650	2	155.0976	0.004125190	Credible Set	purple
chr2:155220007	2	155.2200	0.005591515	Credible Set	purple
chr2:155220040	2	155.2200	0.005591515	Credible Set	purple
chr2:155220051	2	155.2201	0.005591515	Credible Set	purple
chr2:155220725	2	155.2207	0.005946901	Credible Set	purple
chr2:155224800	2	155.2248	0.004255826	Credible Set	purple
chr2:155233265	2	155.2333	0.003591229	Credible Set	purple

F39–43 GBS, open field, immobile duration in 2nd 5 minutes (s)



date: Thu Oct 25 17:24:57 2018
build: F3943GBS
display range: chr7:79619632–89619632 [79619632–89619632]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr7:84619632
number of SNPs plotted: 391
min P-value: 3.62E–36 [chr7:84619632]
max P-value: 9.31E–1 [chr7:80561830]
omitted Genes: Wdr93, Mesp1, Mesp2
omitted Genes: Anpep, Ap3s2, Arpin
omitted Genes: Zfp710, Gm21057, Idh2
omitted Genes: Sema4b, Cib1, Gdp1p1
omitted Genes: Tll13, Ngrn, Vps33b
omitted Genes: Prc1, Rccd1, Unc45a
omitted Genes: Hddc3, Man2a2, Furin
omitted Genes: Gm15880, Zscan2, Wdr73
omitted Genes: Nmb, Sec11a, Slc28a1
omitted Genes: Pde8a, Cpeb1, BC048679
omitted Genes: 2900076A07Rik, Mir1839, Fsd2
omitted Genes: Whamm, Homer2, Fam103a1
omitted Genes: 3110040N11Rik, Hdgfrp3, Bnc1
omitted Genes: Gm20744, 4933406J10Rik, Mex3b
omitted Genes: 4933430H16Rik, Mesdc1, Mesdc2
omitted Genes: Cemip, Abhd17c, 2610206C17Rik
omitted Genes: Olfr291, Olfr290, Vmn2r65
omitted Genes: Vmn2r66, Vmn2r68, Vmn2r72
omitted Genes: Vmn2r73, Vmn2r74, Vmn2r76
omitted Genes: Olfr309, Olfr308, Olfr307
omitted Genes: Olfr305, Olfr303, Olfr301
omitted Genes: Olfr298, Olfr297, Olfr295
omitted Genes: Olfr294, Olfr293, Olfr292
omitted Genes: Folh1, Vmn2r77, Vmn2r78
omitted Genes: Vmn2r79

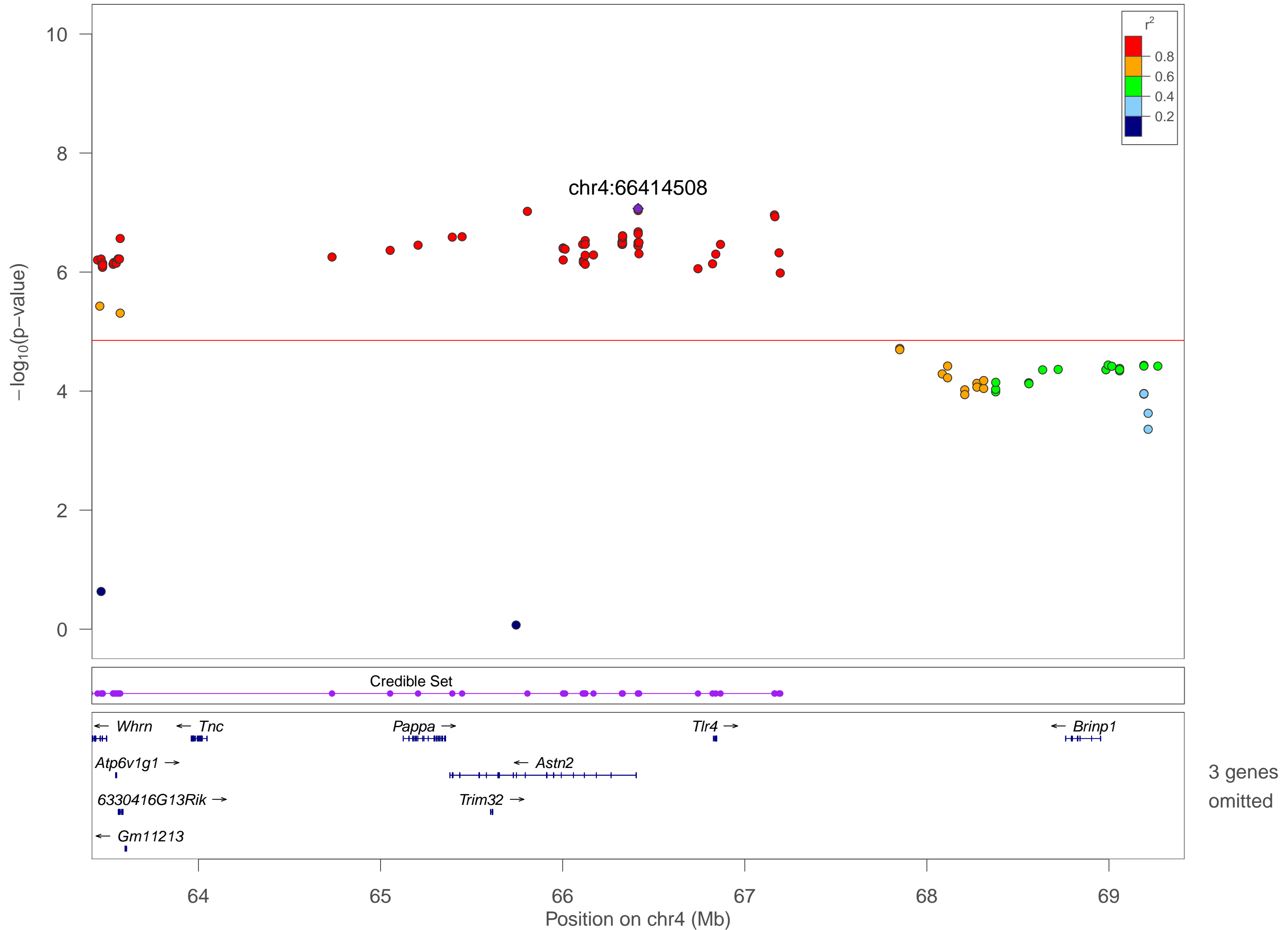
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:84265410	7	84.26541	0.001183419	Credible Set	purple
chr7:84265685	7	84.26569	0.001509007	Credible Set	purple
chr7:84327288	7	84.32729	0.001401618	Credible Set	purple
chr7:84327808	7	84.32781	0.001552073	Credible Set	purple
chr7:84327850	7	84.32785	0.001545965	Credible Set	purple
chr7:84338595	7	84.33859	0.002998816	Credible Set	purple
chr7:84343118	7	84.34312	0.005858123	Credible Set	purple
chr7:84344805	7	84.34480	0.004029253	Credible Set	purple
chr7:84347423	7	84.34742	0.004526111	Credible Set	purple
chr7:84360038	7	84.36004	0.003963513	Credible Set	purple
chr7:84360626	7	84.36063	0.001553613	Credible Set	purple
chr7:84360642	7	84.36064	0.001525472	Credible Set	purple
chr7:84360703	7	84.36070	0.050889386	Credible Set	purple
chr7:84360714	7	84.36071	0.053201226	Credible Set	purple
chr7:84360716	7	84.36072	0.053201226	Credible Set	purple
chr7:84375526	7	84.37553	0.044215699	Credible Set	purple
chr7:84375577	7	84.37558	0.047425076	Credible Set	purple
chr7:84375642	7	84.37564	0.048536816	Credible Set	purple
chr7:84397575	7	84.39758	0.017691865	Credible Set	purple
chr7:84397597	7	84.39760	0.019455578	Credible Set	purple
chr7:84430102	7	84.43010	0.014131985	Credible Set	purple
chr7:84501082	7	84.50108	0.015769948	Credible Set	purple
chr7:84514082	7	84.51408	0.020790519	Credible Set	purple
chr7:84514444	7	84.51444	0.006400261	Credible Set	purple
chr7:84514505	7	84.51450	0.006094613	Credible Set	purple
chr7:84514564	7	84.51456	0.006123336	Credible Set	purple
chr7:84514575	7	84.51457	0.005391904	Credible Set	purple
chr7:84514734	7	84.51473	0.020708261	Credible Set	purple
chr7:84543346	7	84.54335	0.030263351	Credible Set	purple
chr7:84543355	7	84.54336	0.029230233	Credible Set	purple
chr7:84543782	7	84.54378	0.089896894	Credible Set	purple
chr7:84619632	7	84.61963	0.207457240	Credible Set	purple
chr7:84636759	7	84.63676	0.030910316	Credible Set	purple
chr7:84653095	7	84.65309	0.031909170	Credible Set	purple
chr7:84733186	7	84.73319	0.027921200	Credible Set	purple
chr7:85533207	7	85.53321	0.009769245	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr7:85543843	7	85.54384	0.0110083725	Credible Set	purple
chr7:85656243	7	85.65624	0.0030240920	Credible Set	purple
chr7:85677494	7	85.67749	0.0045119519	Credible Set	purple
chr7:85712663	7	85.71266	0.0050950184	Credible Set	purple
chr7:85712975	7	85.71298	0.0045901339	Credible Set	purple
chr7:85840665	7	85.84067	0.0051785105	Credible Set	purple
chr7:86053386	7	86.05339	0.0023920905	Credible Set	purple
chr7:86237374	7	86.23737	0.0011361793	Credible Set	purple
chr7:86582139	7	86.58214	0.0007483074	Credible Set	purple
chr7:86645719	7	86.64572	0.0015866035	Credible Set	purple
chr7:86645792	7	86.64579	0.0016436241	Credible Set	purple
chr7:86645947	7	86.64595	0.0007312383	Credible Set	purple
chr7:86645990	7	86.64599	0.0007466666	Credible Set	purple
chr7:86685507	7	86.68551	0.0007236343	Credible Set	purple
chr7:87246786	7	87.24679	0.0042594462	Credible Set	purple
chr7:87255156	7	87.25516	0.0021102153	Credible Set	purple
chr7:87554961	7	87.55496	0.0085326206	Credible Set	purple
chr7:87642045	7	87.64204	0.0057800749	Credible Set	purple
chr7:87665727	7	87.66573	0.0072430847	Credible Set	purple

F34 GBS, QT body weight



date: Tue Sep 17 12:15:21 2019

build: F34GBS

display range: chr4:63414508–69414508 [63414508–69414508]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:66414508

number of SNPs plotted: 108

min P-value: 8.58E–8 [chr4:66414508]

max P-value: 8.51E–1 [chr4:65744347]

omitted Genes: 1700018C11Rik, Tnfsf15, Tnfsf8

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:63143387	4	63.14339	0.004698956	Credible Set	purple
chr4:63270812	4	63.27081	0.005040961	Credible Set	purple
chr4:63291699	4	63.29170	0.003757469	Credible Set	purple
chr4:63291735	4	63.29174	0.003734994	Credible Set	purple
chr4:63292002	4	63.29200	0.003505914	Credible Set	purple
chr4:63292021	4	63.29202	0.003518227	Credible Set	purple
chr4:63331035	4	63.33103	0.003082134	Credible Set	purple
chr4:63403594	4	63.40359	0.005856435	Credible Set	purple
chr4:63445899	4	63.44590	0.007522469	Credible Set	purple
chr4:63465528	4	63.46553	0.007796089	Credible Set	purple
chr4:63471028	4	63.47103	0.006501989	Credible Set	purple
chr4:63471086	4	63.47109	0.006402085	Credible Set	purple
chr4:63473150	4	63.47315	0.005766033	Credible Set	purple
chr4:63473181	4	63.47318	0.005728894	Credible Set	purple
chr4:63473231	4	63.47323	0.006446737	Credible Set	purple
chr4:63473937	4	63.47394	0.006653827	Credible Set	purple
chr4:63474009	4	63.47401	0.006165647	Credible Set	purple
chr4:63531405	4	63.53140	0.006501680	Credible Set	purple
chr4:63531436	4	63.53144	0.006415148	Credible Set	purple
chr4:63535096	4	63.53510	0.006852821	Credible Set	purple
chr4:63548238	4	63.54824	0.007112637	Credible Set	purple
chr4:63548572	4	63.54857	0.006674177	Credible Set	purple
chr4:63558825	4	63.55882	0.007839267	Credible Set	purple
chr4:63565618	4	63.56562	0.007796089	Credible Set	purple
chr4:63565712	4	63.56571	0.007796089	Credible Set	purple
chr4:63570198	4	63.57020	0.016797286	Credible Set	purple
chr4:64733521	4	64.73352	0.008412236	Credible Set	purple
chr4:65052703	4	65.05270	0.010785097	Credible Set	purple
chr4:65205920	4	65.20592	0.013083789	Credible Set	purple
chr4:65393970	4	65.39397	0.017661657	Credible Set	purple
chr4:65447841	4	65.44784	0.017937452	Credible Set	purple
chr4:65806420	4	65.80642	0.046293956	Credible Set	purple
chr4:66002530	4	66.00253	0.011799225	Credible Set	purple
chr4:66003029	4	66.00303	0.007531875	Credible Set	purple
chr4:66003164	4	66.00316	0.011529106	Credible Set	purple
chr4:66013512	4	66.01351	0.011260430	Credible Set	purple

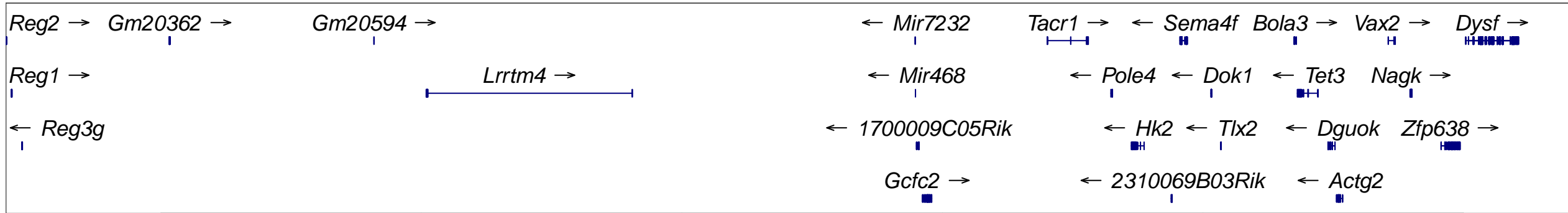
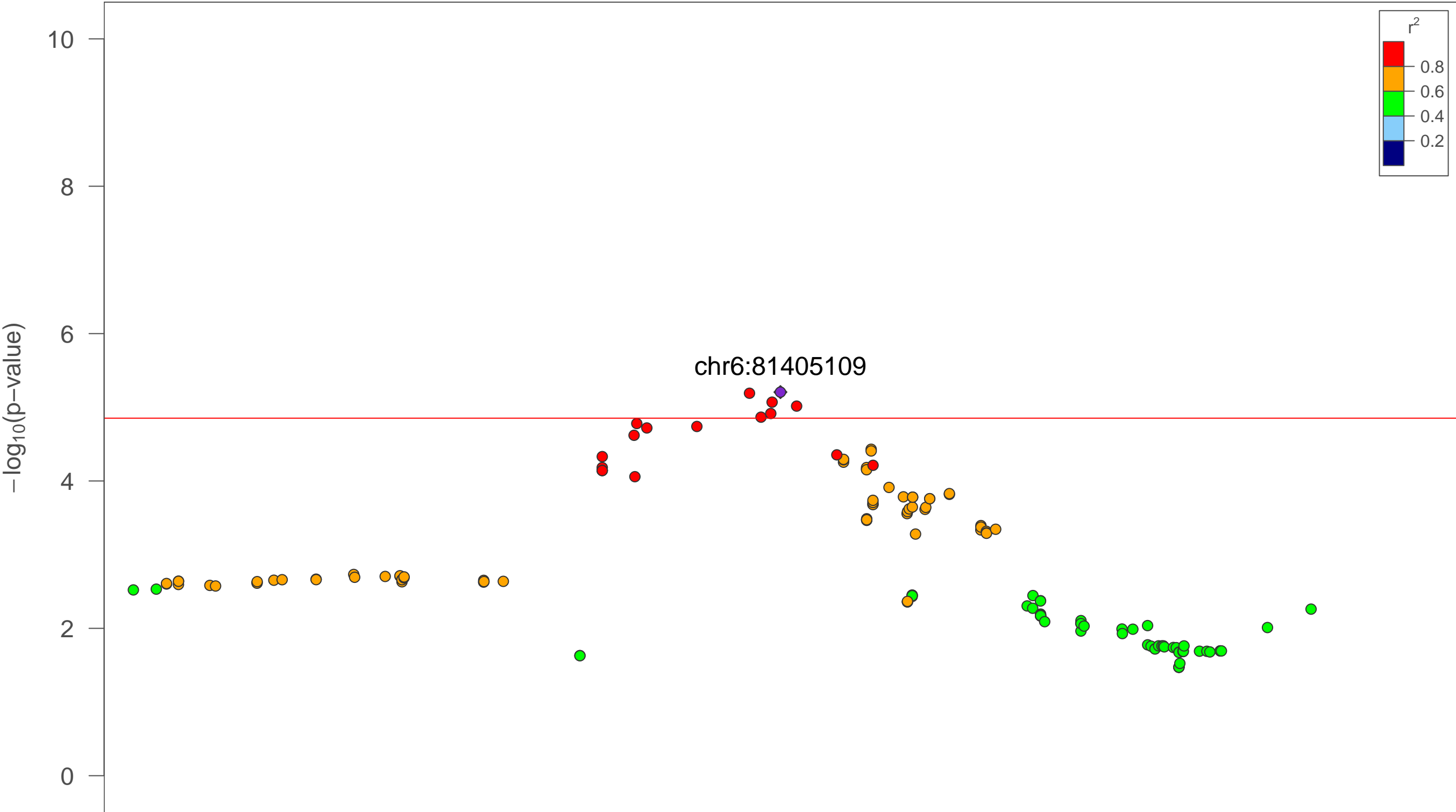
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:66110072	4	66.11007	0.013528196	Credible Set	purple
chr4:66114163	4	66.11416	0.007406093	Credible Set	purple
chr4:66114164	4	66.11416	0.006854775	Credible Set	purple
chr4:66114176	4	66.11418	0.006886572	Credible Set	purple
chr4:66123765	4	66.12377	0.008972603	Credible Set	purple
chr4:66123768	4	66.12377	0.006411278	Credible Set	purple
chr4:66123832	4	66.12383	0.015524883	Credible Set	purple
chr4:66124242	4	66.12424	0.013533366	Credible Set	purple
chr4:66169378	4	66.16938	0.009068305	Credible Set	purple
chr4:66325857	4	66.32586	0.014571718	Credible Set	purple
chr4:66325987	4	66.32599	0.013479473	Credible Set	purple
chr4:66328189	4	66.32819	0.013467463	Credible Set	purple
chr4:66328195	4	66.32819	0.013481919	Credible Set	purple
chr4:66328436	4	66.32844	0.014284943	Credible Set	purple
chr4:66328528	4	66.32853	0.015626906	Credible Set	purple
chr4:66328560	4	66.32856	0.014235844	Credible Set	purple
chr4:66329044	4	66.32904	0.017382742	Credible Set	purple
chr4:66329065	4	66.32906	0.018584246	Credible Set	purple
chr4:66329095	4	66.32909	0.018431976	Credible Set	purple
chr4:66414332	4	66.41433	0.013042819	Credible Set	purple
chr4:66414345	4	66.41434	0.013287998	Credible Set	purple
chr4:66414373	4	66.41437	0.012769120	Credible Set	purple
chr4:66414374	4	66.41437	0.012774098	Credible Set	purple
chr4:66414384	4	66.41438	0.014456612	Credible Set	purple
chr4:66414387	4	66.41439	0.020187785	Credible Set	purple
chr4:66414451	4	66.41445	0.021543054	Credible Set	purple
chr4:66414476	4	66.41448	0.048583419	Credible Set	purple
chr4:66414508	4	66.41451	0.051366043	Credible Set	purple
chr4:66414513	4	66.41451	0.047774352	Credible Set	purple
chr4:66414963	4	66.41496	0.019886022	Credible Set	purple
chr4:66419064	4	66.41906	0.009487990	Credible Set	purple
chr4:66419126	4	66.41913	0.014482327	Credible Set	purple
chr4:66743103	4	66.74310	0.005437830	Credible Set	purple
chr4:66823255	4	66.82326	0.006529644	Credible Set	purple
chr4:66840696	4	66.84070	0.009358951	Credible Set	purple
chr4:66866758	4	66.86676	0.013470804	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr4:67163007	4	67.16301	0.040530974	Credible Set	purple
chr4:67165680	4	67.16568	0.037882958	Credible Set	purple
chr4:67188375	4	67.18837	0.009834075	Credible Set	purple
chr4:67194875	4	67.19487	0.004629093	Credible Set	purple

F34 GBS, QT body weight



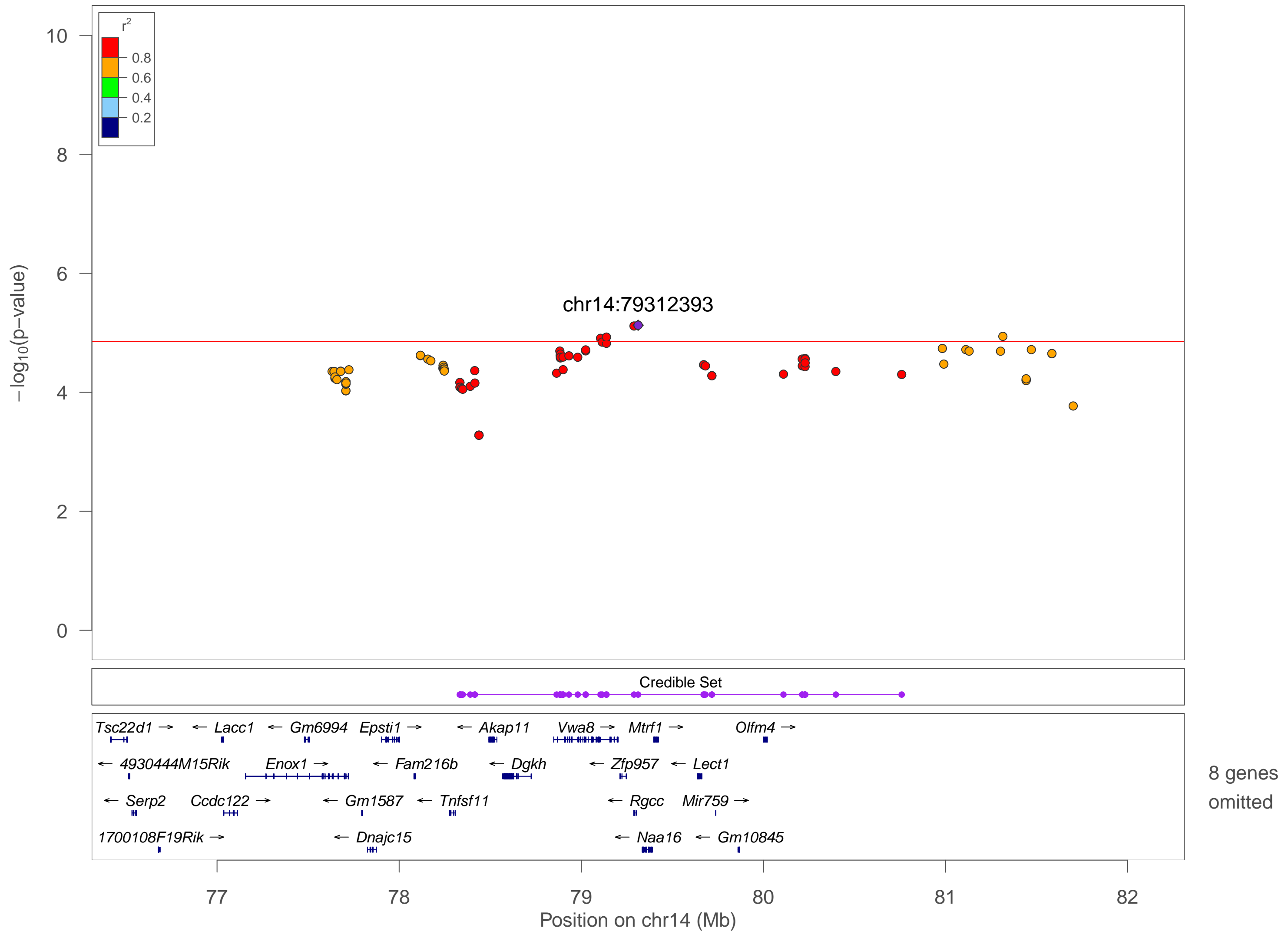
36 genes
omitted

date: Tue Sep 17 12:15:30 2019
build: F34GBS
display range: chr6:78405109–84405109 [78405109–84405109]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr6:81405109
number of SNPs plotted: 147
min P-value: 6.22E–6 [chr6:81405109]
max P-value: 3.39E–2 [chr6:83172379]
omitted Genes: Mrpl19, Eva1a, M1ap
omitted Genes: Loxl3, Mir7040, Htra2
omitted Genes: Aup1, Dqx1, Pcgf1
omitted Genes: Lbx2, Mir3470a, Ccdc142
omitted Genes: Mrpl53, Mogs, Wbp1
omitted Genes: Ino80b, Rtkn, Wdr54
omitted Genes: 1700003E16Rik, Dctn1, Slc4a5
omitted Genes: Mthfd2, Mob1a, Mir6374
omitted Genes: B230319C09Rik, Stambp, Gm21284
omitted Genes: Clec4f, Cd207, Vax2os
omitted Genes: Atp6v1b1, 1700124L16Rik, Ankrd53
omitted Genes: Tex261, Gm7443, Paip2b

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr6:80614710	6	80.61471	0.01598174	Credible Set	purple
chr6:80614725	6	80.61473	0.01462716	Credible Set	purple
chr6:80614740	6	80.61474	0.01468902	Credible Set	purple
chr6:80614750	6	80.61475	0.01462716	Credible Set	purple
chr6:80614907	6	80.61491	0.02212035	Credible Set	purple
chr6:80755939	6	80.75594	0.04162389	Credible Set	purple
chr6:80759589	6	80.75959	0.01220744	Credible Set	purple
chr6:80767933	6	80.76793	0.05907562	Credible Set	purple
chr6:80812582	6	80.81258	0.05177016	Credible Set	purple
chr6:81034488	6	81.03449	0.05412722	Credible Set	purple
chr6:81267890	6	81.26789	0.14586070	Credible Set	purple
chr6:81318989	6	81.31899	0.07142104	Credible Set	purple
chr6:81362217	6	81.36222	0.07960154	Credible Set	purple
chr6:81368112	6	81.36811	0.11174636	Credible Set	purple
chr6:81405109	6	81.40511	0.15081646	Credible Set	purple
chr6:81476902	6	81.47690	0.09933430	Credible Set	purple
chr6:81655195	6	81.65520	0.02328372	Credible Set	purple
chr6:81815817	6	81.81582	0.01708610	Credible Set	purple

F34 GBS, QT body weight



date: Tue Sep 17 12:15:37 2019

build: F34GBS

display range: chr14:76312393–82312393 [76312393–82312393]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:79312393

number of SNPs plotted: 90

min P-value: 7.45E–6 [chr14:79312393]

max P-value: 5.27E–4 [chr14:78438397]

omitted Genes: Mir1971, Kbtbd7, Kbtbd6

omitted Genes: Wbp4, Elf1, Sugt1

omitted Genes: 4930452G13Rik, Pcdh8

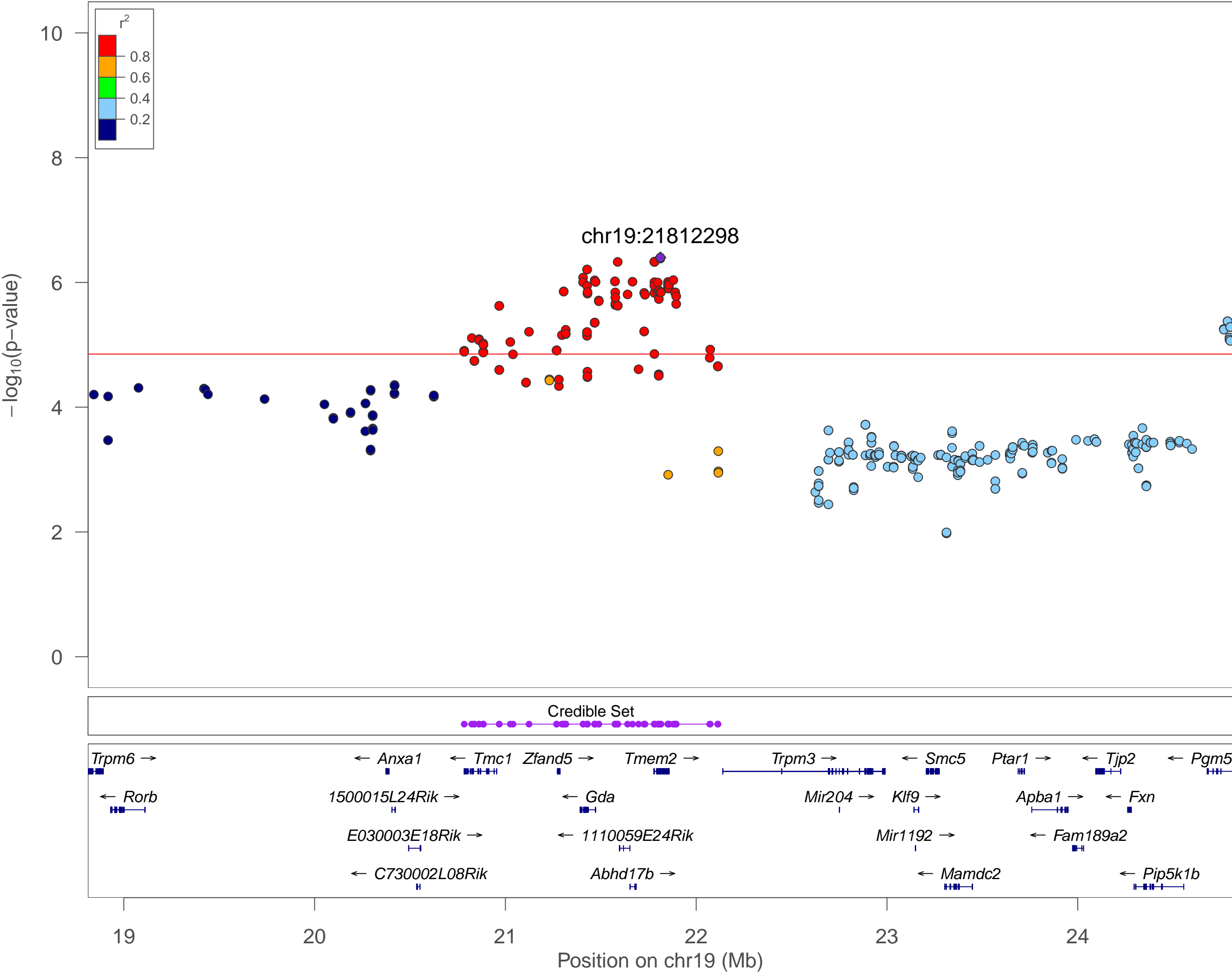
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:78333693	14	78.33369	0.009736836	Credible Set	purple
chr14:78333727	14	78.33373	0.009757823	Credible Set	purple
chr14:78334235	14	78.33424	0.008241041	Credible Set	purple
chr14:78334352	14	78.33435	0.008179089	Credible Set	purple
chr14:78342935	14	78.34293	0.007796679	Credible Set	purple
chr14:78349294	14	78.34929	0.007611153	Credible Set	purple
chr14:78390714	14	78.39071	0.008475172	Credible Set	purple
chr14:78415035	14	78.41504	0.015052412	Credible Set	purple
chr14:78415900	14	78.41590	0.009551020	Credible Set	purple
chr14:78864748	14	78.86475	0.013714030	Credible Set	purple
chr14:78882395	14	78.88240	0.030962917	Credible Set	purple
chr14:78884278	14	78.88428	0.026168306	Credible Set	purple
chr14:78885403	14	78.88540	0.024016891	Credible Set	purple
chr14:78885542	14	78.88554	0.027637951	Credible Set	purple
chr14:78885909	14	78.88591	0.024689942	Credible Set	purple
chr14:78900265	14	78.90027	0.015581625	Credible Set	purple
chr14:78900272	14	78.90027	0.024780263	Credible Set	purple
chr14:78932384	14	78.93238	0.025942948	Credible Set	purple
chr14:78980736	14	78.98074	0.024638346	Credible Set	purple
chr14:79024151	14	79.02415	0.031153636	Credible Set	purple
chr14:79024207	14	79.02421	0.032275634	Credible Set	purple
chr14:79105928	14	79.10593	0.049575651	Credible Set	purple
chr14:79115207	14	79.11521	0.043003580	Credible Set	purple
chr14:79138261	14	79.13826	0.041142709	Credible Set	purple
chr14:79138486	14	79.13849	0.051797878	Credible Set	purple
chr14:79289663	14	79.28966	0.078037680	Credible Set	purple
chr14:79312393	14	79.31239	0.080352681	Credible Set	purple
chr14:79672373	14	79.67237	0.018570303	Credible Set	purple
chr14:79672387	14	79.67239	0.018479544	Credible Set	purple
chr14:79672589	14	79.67259	0.018736116	Credible Set	purple
chr14:79682220	14	79.68222	0.017917803	Credible Set	purple
chr14:79717330	14	79.71733	0.012518788	Credible Set	purple
chr14:79717420	14	79.71742	0.012480112	Credible Set	purple
chr14:80110393	14	80.11039	0.013236302	Credible Set	purple
chr14:80213369	14	80.21337	0.023028068	Credible Set	purple
chr14:80214058	14	80.21406	0.017941184	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:80228969	14	80.22897	0.01739179	Credible Set	purple
chr14:80229277	14	80.22928	0.02350404	Credible Set	purple
chr14:80229281	14	80.22928	0.02296019	Credible Set	purple
chr14:80229399	14	80.22940	0.01996628	Credible Set	purple
chr14:80397940	14	80.39794	0.01458523	Credible Set	purple
chr14:80759627	14	80.75963	0.01307705	Credible Set	purple

F34 GBS, QT locomotor test day 1, total distance travelled in 30min (cm)



date: Thu Sep 12 15:18:00 2019

build: F34GBS

display range: chr19:18812298–24812298 [18812298–24812298]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:21812298

number of SNPs plotted: 371

min P-value: 3.98E–7 [chr19:21812298]

max P-value: 1.05E–2 [chr19:23311837]

omitted Genes: Aldh1a1, Aldh1a7, 4930554I06Rik

omitted Genes: 1700028P14Rik, Fam122a, Tmem252

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:20784050	19	20.78405	0.0008575744	Credible Set	purple
chr19:20824062	19	20.82406	0.0017631532	Credible Set	purple
chr19:20837340	19	20.83734	0.0008477193	Credible Set	purple
chr19:20837342	19	20.83734	0.0008550116	Credible Set	purple
chr19:20861811	19	20.86181	0.0017989964	Credible Set	purple
chr19:20861821	19	20.86182	0.0017635560	Credible Set	purple
chr19:20883962	19	20.88396	0.0014192917	Credible Set	purple
chr19:20883975	19	20.88397	0.0009483827	Credible Set	purple
chr19:20883979	19	20.88398	0.0009443153	Credible Set	purple
chr19:20883980	19	20.88398	0.0009357623	Credible Set	purple
chr19:20884530	19	20.88453	0.0013516529	Credible Set	purple
chr19:20967742	19	20.96774	0.0048671332	Credible Set	purple
chr19:20967772	19	20.96777	0.0048468227	Credible Set	purple
chr19:21025668	19	21.02567	0.0015561525	Credible Set	purple
chr19:21039744	19	21.03974	0.0011386689	Credible Set	purple
chr19:21123769	19	21.12377	0.0026073988	Credible Set	purple
chr19:21268525	19	21.26853	0.0014289010	Credible Set	purple
chr19:21268527	19	21.26853	0.0014233889	Credible Set	purple
chr19:21268550	19	21.26855	0.0014171209	Credible Set	purple
chr19:21296098	19	21.29610	0.0020595921	Credible Set	purple
chr19:21305518	19	21.30552	0.0094310297	Credible Set	purple
chr19:21305568	19	21.30557	0.0093437328	Credible Set	purple
chr19:21316234	19	21.31623	0.0024708025	Credible Set	purple
chr19:21316268	19	21.31627	0.0021016489	Credible Set	purple
chr19:21316305	19	21.31630	0.0021428589	Credible Set	purple
chr19:21407108	19	21.40711	0.0171505129	Credible Set	purple
chr19:21407182	19	21.40718	0.0152360325	Credible Set	purple
chr19:21427800	19	21.42780	0.0030679701	Credible Set	purple
chr19:21427805	19	21.42780	0.0027185817	Credible Set	purple
chr19:21427851	19	21.42785	0.0031361135	Credible Set	purple
chr19:21428151	19	21.42815	0.0132551245	Credible Set	purple
chr19:21428338	19	21.42834	0.0212974817	Credible Set	purple
chr19:21428343	19	21.42834	0.0212974817	Credible Set	purple
chr19:21429788	19	21.42979	0.0008538701	Credible Set	purple
chr19:21430361	19	21.43036	0.0093972193	Credible Set	purple
chr19:21430412	19	21.43041	0.0098977365	Credible Set	purple

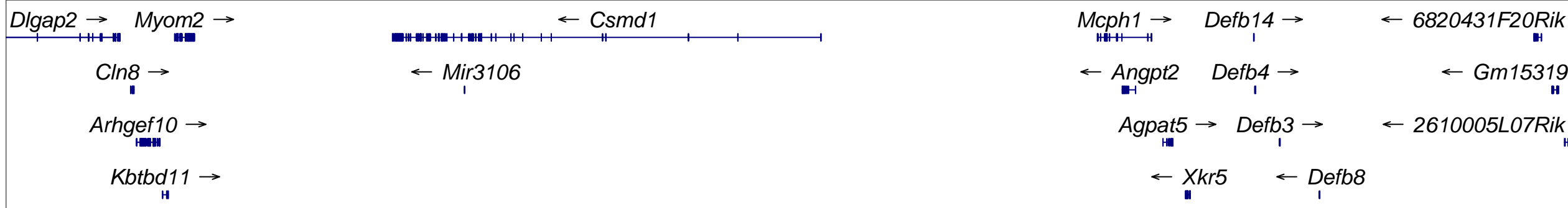
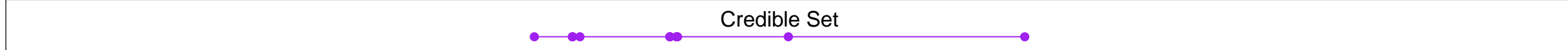
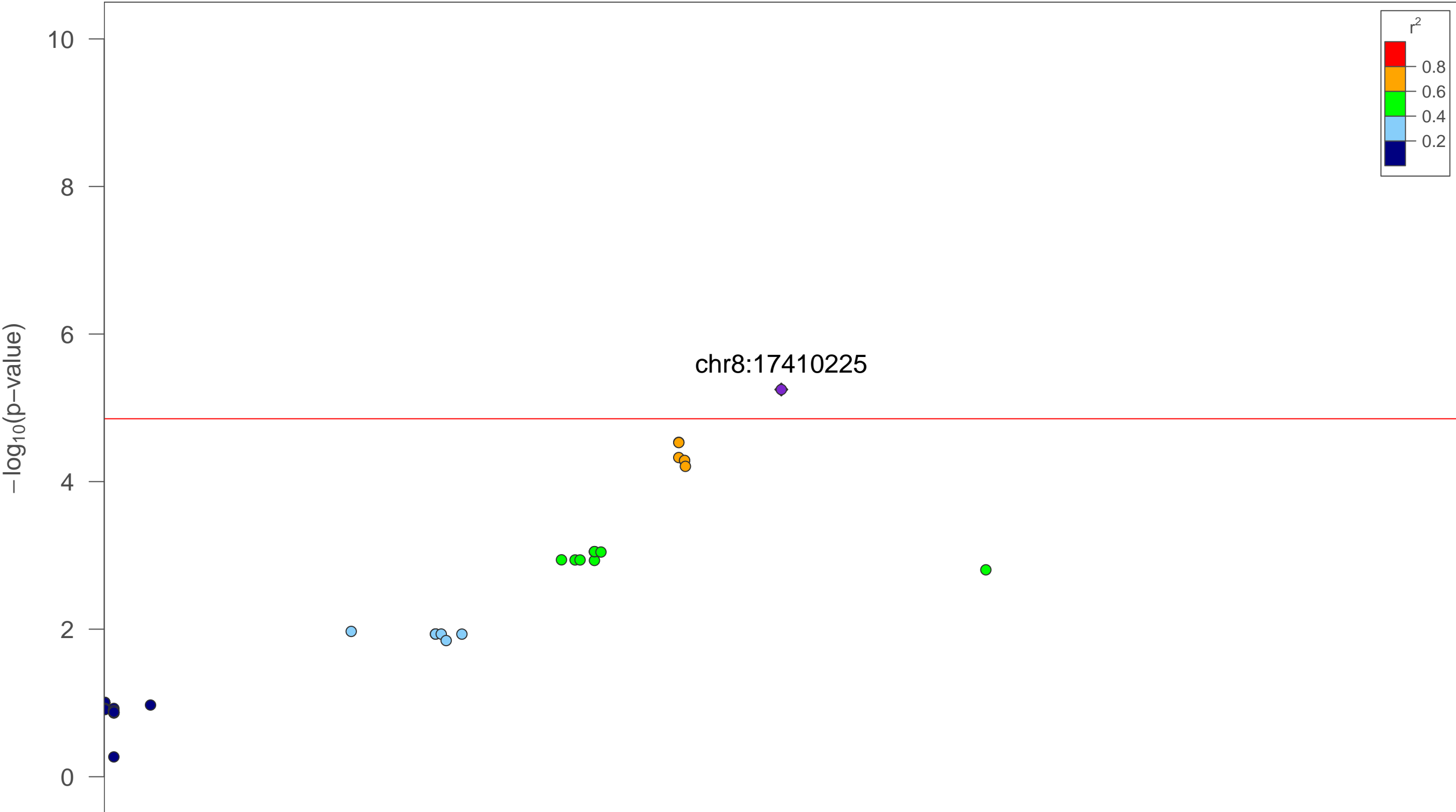
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21467882	19	21.46788	0.015916999	Credible Set	purple
chr19:21467967	19	21.46797	0.003881881	Credible Set	purple
chr19:21467982	19	21.46798	0.003848132	Credible Set	purple
chr19:21467985	19	21.46798	0.003848132	Credible Set	purple
chr19:21467987	19	21.46799	0.003864992	Credible Set	purple
chr19:21472509	19	21.47251	0.015753988	Credible Set	purple
chr19:21472526	19	21.47253	0.015736656	Credible Set	purple
chr19:21489550	19	21.48955	0.007944807	Credible Set	purple
chr19:21489579	19	21.48958	0.007768965	Credible Set	purple
chr19:21574198	19	21.57420	0.015664155	Credible Set	purple
chr19:21574202	19	21.57420	0.015711862	Credible Set	purple
chr19:21575782	19	21.57578	0.010887006	Credible Set	purple
chr19:21576364	19	21.57636	0.006823849	Credible Set	purple
chr19:21576365	19	21.57636	0.007376882	Credible Set	purple
chr19:21576374	19	21.57637	0.009225902	Credible Set	purple
chr19:21588462	19	21.58846	0.006900006	Credible Set	purple
chr19:21588470	19	21.58847	0.006915342	Credible Set	purple
chr19:21588527	19	21.58853	0.006932985	Credible Set	purple
chr19:21588528	19	21.58853	0.006909748	Credible Set	purple
chr19:21588608	19	21.58861	0.033306155	Credible Set	purple
chr19:21640403	19	21.64040	0.010152296	Credible Set	purple
chr19:21666239	19	21.66624	0.015131543	Credible Set	purple
chr19:21697884	19	21.69788	0.001092607	Credible Set	purple
chr19:21727318	19	21.72732	0.003843232	Credible Set	purple
chr19:21727391	19	21.72739	0.003849484	Credible Set	purple
chr19:21727561	19	21.72756	0.011568827	Credible Set	purple
chr19:21731633	19	21.73163	0.009253184	Credible Set	purple
chr19:21780788	19	21.78079	0.010749976	Credible Set	purple
chr19:21780850	19	21.78085	0.001195091	Credible Set	purple
chr19:21780922	19	21.78092	0.030944937	Credible Set	purple
chr19:21780928	19	21.78093	0.031035982	Credible Set	purple
chr19:21780934	19	21.78093	0.030765141	Credible Set	purple
chr19:21780935	19	21.78093	0.030765141	Credible Set	purple
chr19:21781005	19	21.78101	0.015622049	Credible Set	purple
chr19:21781019	19	21.78102	0.013312350	Credible Set	purple
chr19:21798450	19	21.79845	0.011426543	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:21798541	19	21.79854	0.0148347311	Credible Set	purple
chr19:21804356	19	21.80436	0.0087286799	Credible Set	purple
chr19:21804420	19	21.80442	0.0117585684	Credible Set	purple
chr19:21804582	19	21.80458	0.0117048301	Credible Set	purple
chr19:21812258	19	21.81226	0.0433759596	Credible Set	purple
chr19:21812298	19	21.81230	0.0449085516	Credible Set	purple
chr19:21812594	19	21.81259	0.0110099016	Credible Set	purple
chr19:21814790	19	21.81479	0.0115511008	Credible Set	purple
chr19:21814806	19	21.81481	0.0114467944	Credible Set	purple
chr19:21851795	19	21.85179	0.0135051504	Credible Set	purple
chr19:21852236	19	21.85224	0.0115738553	Credible Set	purple
chr19:21852273	19	21.85227	0.0119862730	Credible Set	purple
chr19:21852296	19	21.85230	0.0144178984	Credible Set	purple
chr19:21857059	19	21.85706	0.0121471605	Credible Set	purple
chr19:21857128	19	21.85713	0.0113671320	Credible Set	purple
chr19:21857704	19	21.85770	0.0132910933	Credible Set	purple
chr19:21857707	19	21.85771	0.0132159157	Credible Set	purple
chr19:21880097	19	21.88010	0.0148131804	Credible Set	purple
chr19:21889764	19	21.88976	0.0110062165	Credible Set	purple
chr19:21889768	19	21.88977	0.0109696553	Credible Set	purple
chr19:21889777	19	21.88978	0.0110062165	Credible Set	purple
chr19:21889831	19	21.88983	0.0110444924	Credible Set	purple
chr19:21889832	19	21.88983	0.0110861872	Credible Set	purple
chr19:21889838	19	21.88984	0.0110388679	Credible Set	purple
chr19:21895163	19	21.89516	0.0067982382	Credible Set	purple
chr19:21895174	19	21.89517	0.0119068788	Credible Set	purple
chr19:22070939	19	22.07094	0.0013923552	Credible Set	purple
chr19:22073618	19	22.07362	0.0017489510	Credible Set	purple
chr19:22113626	19	22.11363	0.0009938296	Credible Set	purple
chr19:22113628	19	22.11363	0.0009799201	Credible Set	purple
chr19:22113687	19	22.11369	0.0009804823	Credible Set	purple

F34 GBS, QT locomotor test day 2, total distance travelled in 30min (cm)



16 genes
omitted

date: Thu Sep 12 15:41:31 2019

build: F34GBS

display range: chr8:14410225–20410225 [14410225–20410225]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:17410225

number of SNPs plotted: 44

min P-value: 5.65E–6 [chr8:17410225]

max P-value: 5.38E–1 [chr8:14453253]

omitted Genes: BB014433, Defb40, Defb37

omitted Genes: Defb38, Defb39, Defb12

omitted Genes: Defb34, Spag11b, Spag11a

omitted Genes: Defa-ps12, Defb6, Defb46

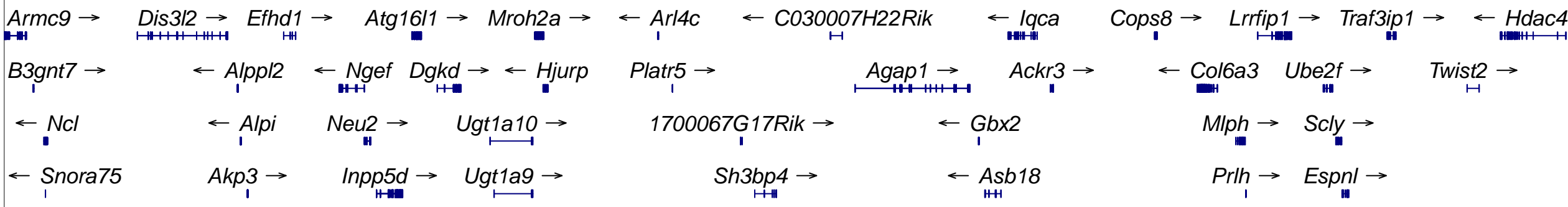
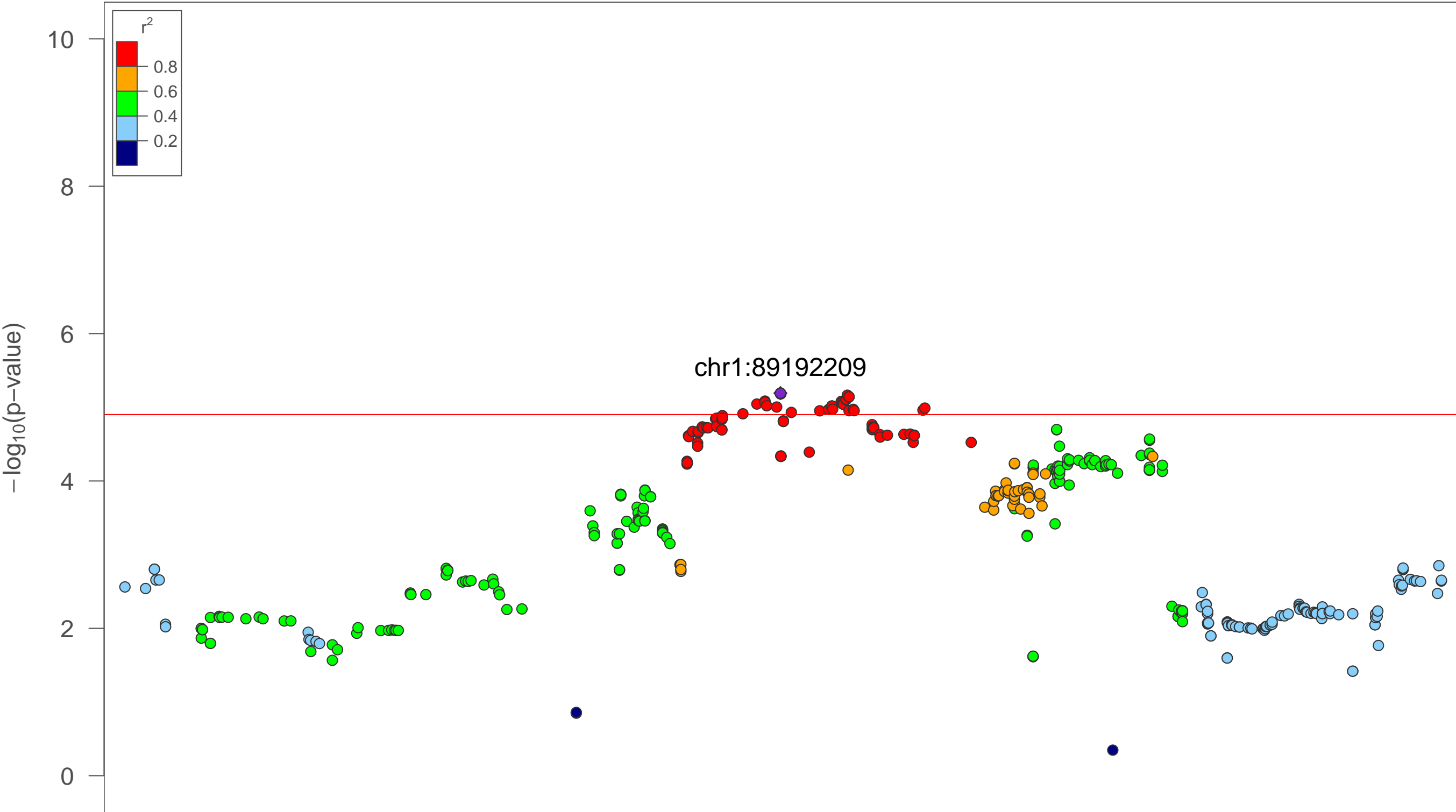
omitted Genes: Defb5, Defa-ps13, Defb7

omitted Genes: 4930467E23Rik

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr8:16436293	8	16.43629	0.002657112	Credible Set	purple
chr8:16582489	8	16.58249	0.002843833	Credible Set	purple
chr8:16582510	8	16.58251	0.002837932	Credible Set	purple
chr8:16582563	8	16.58256	0.002866557	Credible Set	purple
chr8:16611215	8	16.61122	0.003196429	Credible Set	purple
chr8:16955937	8	16.95594	0.040591511	Credible Set	purple
chr8:16956175	8	16.95618	0.087794857	Credible Set	purple
chr8:16956241	8	16.95624	0.086960946	Credible Set	purple
chr8:16981604	8	16.98160	0.035117708	Credible Set	purple
chr8:16981765	8	16.98176	0.035617812	Credible Set	purple
chr8:16985325	8	16.98532	0.030632307	Credible Set	purple
chr8:17410225	8	17.41023	0.651734254	Credible Set	purple
chr8:18316447	8	18.31645	0.009281197	Credible Set	purple

F39–43 GBS, QT body weight



43 genes
omitted

date: Tue Sep 17 11:45:02 2019
build: F3943GBS
display range: chr1:86192209–92192209 [86192209–92192209]
hilite range: 0 – 0 [0 – 0]
reference SNP: chr1:89192209
number of SNPs plotted: 414
min P-value: 6.42E–6 [chr1:89192209]
max P-value: 4.49E–1 [chr1:90666257]
omitted Genes: Gm24148, Snord82, C130036L24Rik
omitted Genes: Nmur1, 1700019O17Rik, Ptma
omitted Genes: Pde6d, Cops7b, Nppc
omitted Genes: Ecel1, Prss56, Chrnd
omitted Genes: Chrng, Eif4e2, Gigyf2
omitted Genes: Kcnj13, 3110079O15Rik, Scarna6
omitted Genes: Sag, Gm19582, Usp40
omitted Genes: Ugt1a7c, Ugt1a6b, Ugt1a6a
omitted Genes: Ugt1a5, Ugt1a2, Dnajb3
omitted Genes: Ugt1a1, Trpm8, Spp2
omitted Genes: Glrp1, Gm19589, 4933400F21Rik
omitted Genes: Rab17, Rbm44, Ramp1
omitted Genes: Klhl30, Fam132b, Ilkap
omitted Genes: 1700020N18Rik, Hes6, Per2
omitted Genes: Asb1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:88777876	1	88.77788	0.003079780	Credible Set	purple
chr1:88784388	1	88.78439	0.006592937	Credible Set	purple
chr1:88785582	1	88.78558	0.006400571	Credible Set	purple
chr1:88802998	1	88.80300	0.007487706	Credible Set	purple
chr1:88824885	1	88.82488	0.005293982	Credible Set	purple
chr1:88824890	1	88.82489	0.004812662	Credible Set	purple
chr1:88827360	1	88.82736	0.007199568	Credible Set	purple
chr1:88827377	1	88.82738	0.007493551	Credible Set	purple
chr1:88845338	1	88.84534	0.008562724	Credible Set	purple
chr1:88851773	1	88.85177	0.008305175	Credible Set	purple
chr1:88865215	1	88.86522	0.008369292	Credible Set	purple
chr1:88871514	1	88.87151	0.008309671	Credible Set	purple
chr1:88904681	1	88.90468	0.010875677	Credible Set	purple
chr1:88908914	1	88.90891	0.011076981	Credible Set	purple
chr1:88909213	1	88.90921	0.008660438	Credible Set	purple
chr1:88932450	1	88.93245	0.007875014	Credible Set	purple
chr1:88932455	1	88.93246	0.007805471	Credible Set	purple
chr1:88932532	1	88.93253	0.010661921	Credible Set	purple
chr1:88934810	1	88.93481	0.011970719	Credible Set	purple
chr1:88934861	1	88.93486	0.011089817	Credible Set	purple
chr1:89025632	1	89.02563	0.012641196	Credible Set	purple
chr1:89087603	1	89.08760	0.016912470	Credible Set	purple
chr1:89121837	1	89.12184	0.017987079	Credible Set	purple
chr1:89123610	1	89.12361	0.018474930	Credible Set	purple
chr1:89123797	1	89.12380	0.017908149	Credible Set	purple
chr1:89131448	1	89.13145	0.016045139	Credible Set	purple
chr1:89175511	1	89.17551	0.015465386	Credible Set	purple
chr1:89192209	1	89.19221	0.023417018	Credible Set	purple
chr1:89192251	1	89.19225	0.023412984	Credible Set	purple
chr1:89192320	1	89.19232	0.022863202	Credible Set	purple
chr1:89194144	1	89.19414	0.022972675	Credible Set	purple
chr1:89194192	1	89.19419	0.003587467	Credible Set	purple
chr1:89194214	1	89.19421	0.003608949	Credible Set	purple
chr1:89194218	1	89.19422	0.003571682	Credible Set	purple
chr1:89194220	1	89.19422	0.003556536	Credible Set	purple
chr1:89194232	1	89.19423	0.003581347	Credible Set	purple

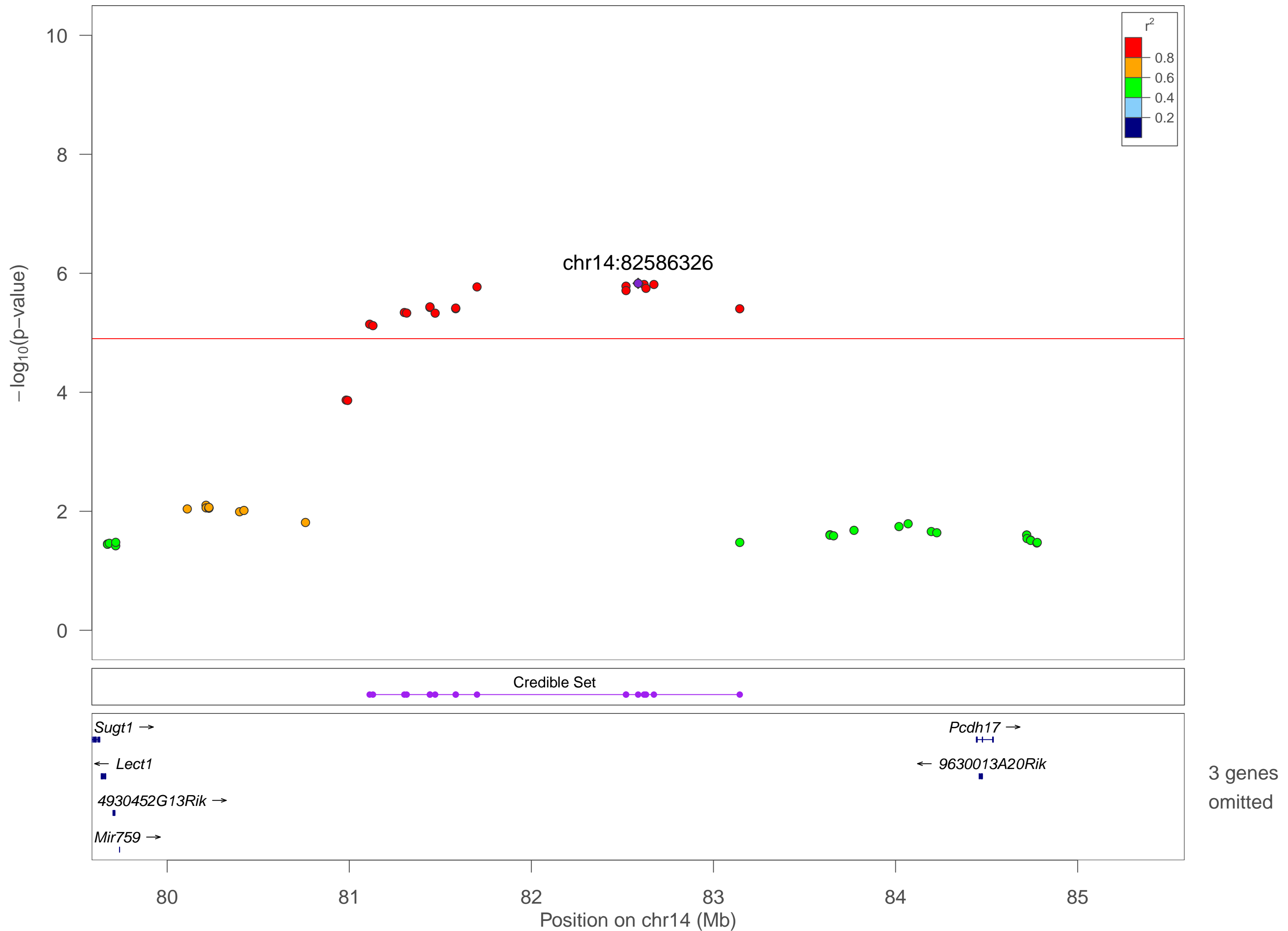
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:89205191	1	89.20519	0.010056485	Credible Set	purple
chr1:89205195	1	89.20520	0.010249331	Credible Set	purple
chr1:89205255	1	89.20525	0.010069232	Credible Set	purple
chr1:89240557	1	89.24056	0.013178969	Credible Set	purple
chr1:89320129	1	89.32013	0.004038684	Credible Set	purple
chr1:89366363	1	89.36636	0.013818955	Credible Set	purple
chr1:89405937	1	89.40594	0.014390594	Credible Set	purple
chr1:89419875	1	89.41988	0.015664568	Credible Set	purple
chr1:89419992	1	89.41999	0.015563792	Credible Set	purple
chr1:89420342	1	89.42034	0.015926613	Credible Set	purple
chr1:89420838	1	89.42084	0.015906362	Credible Set	purple
chr1:89420960	1	89.42096	0.015938756	Credible Set	purple
chr1:89423865	1	89.42387	0.014505785	Credible Set	purple
chr1:89462222	1	89.46222	0.018068530	Credible Set	purple
chr1:89462289	1	89.46229	0.018255121	Credible Set	purple
chr1:89462343	1	89.46234	0.018250358	Credible Set	purple
chr1:89468744	1	89.46874	0.018056971	Credible Set	purple
chr1:89468745	1	89.46874	0.016885074	Credible Set	purple
chr1:89471737	1	89.47174	0.016734935	Credible Set	purple
chr1:89483309	1	89.48331	0.019153309	Credible Set	purple
chr1:89483313	1	89.48331	0.019542521	Credible Set	purple
chr1:89488944	1	89.48894	0.022023145	Credible Set	purple
chr1:89496208	1	89.49621	0.021115132	Credible Set	purple
chr1:89496266	1	89.49627	0.020826723	Credible Set	purple
chr1:89496279	1	89.49628	0.020985079	Credible Set	purple
chr1:89496489	1	89.49649	0.013870823	Credible Set	purple
chr1:89515318	1	89.51532	0.014444145	Credible Set	purple
chr1:89519229	1	89.51923	0.013873445	Credible Set	purple
chr1:89598858	1	89.59886	0.009149485	Credible Set	purple
chr1:89599692	1	89.59969	0.008446572	Credible Set	purple
chr1:89599832	1	89.59983	0.007877855	Credible Set	purple
chr1:89599871	1	89.59987	0.007954455	Credible Set	purple
chr1:89600374	1	89.60037	0.008470314	Credible Set	purple
chr1:89605836	1	89.60584	0.008354275	Credible Set	purple
chr1:89605944	1	89.60594	0.008331962	Credible Set	purple
chr1:89605946	1	89.60595	0.008316411	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:89606348	1	89.60635	0.008316099	Credible Set	purple
chr1:89633220	1	89.63322	0.006804854	Credible Set	purple
chr1:89634450	1	89.63445	0.006316662	Credible Set	purple
chr1:89666611	1	89.66661	0.006671425	Credible Set	purple
chr1:89739820	1	89.73982	0.006856863	Credible Set	purple
chr1:89767259	1	89.76726	0.006909506	Credible Set	purple
chr1:89781142	1	89.78114	0.005399895	Credible Set	purple
chr1:89785438	1	89.78544	0.006690848	Credible Set	purple
chr1:89785617	1	89.78562	0.006597891	Credible Set	purple
chr1:89824300	1	89.82430	0.014088735	Credible Set	purple
chr1:89832514	1	89.83251	0.014987232	Credible Set	purple
chr1:90038291	1	90.03829	0.005395642	Credible Set	purple

F39–43 GBS, QT body weight



date: Tue Sep 17 11:45:11 2019

build: F3943GBS

display range: chr14:79586326–85586326 [79586326–85586326]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:82586326

number of SNPs plotted: 53

min P-value: 1.48E–6 [chr14:82586326]

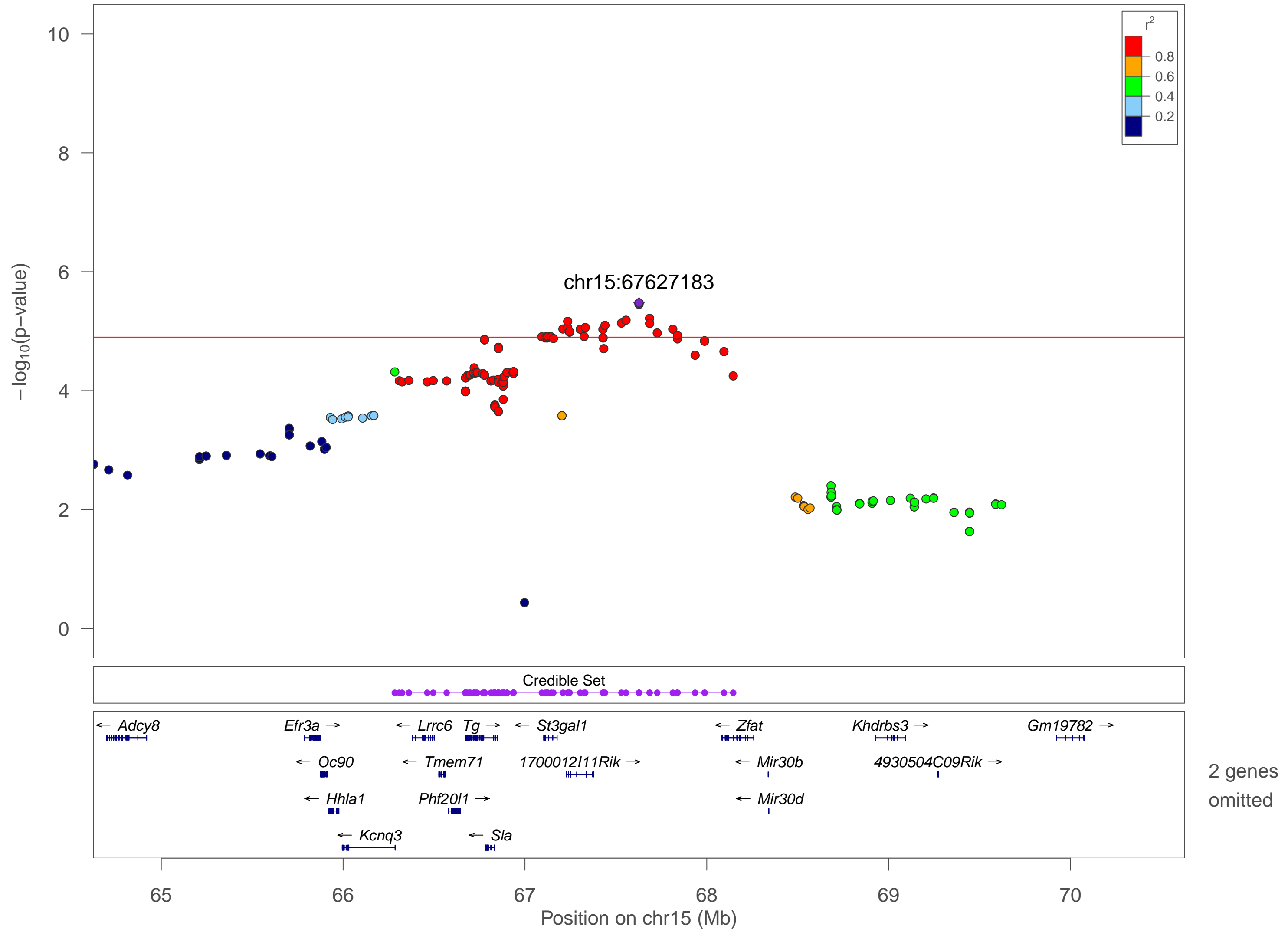
max P-value: 3.8E–2 [chr14:79717330]

omitted Genes: Pcdh8, Gm10845, Olfm4

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr14:81112053	14	81.11205	0.02160319	Credible Set	purple
chr14:81129931	14	81.12993	0.02048231	Credible Set	purple
chr14:81302522	14	81.30252	0.03331979	Credible Set	purple
chr14:81315250	14	81.31525	0.03263550	Credible Set	purple
chr14:81443053	14	81.44305	0.04015311	Credible Set	purple
chr14:81443088	14	81.44309	0.04074869	Credible Set	purple
chr14:81443103	14	81.44310	0.04108474	Credible Set	purple
chr14:81471656	14	81.47166	0.03249544	Credible Set	purple
chr14:81584557	14	81.58456	0.03835536	Credible Set	purple
chr14:81584584	14	81.58458	0.03925128	Credible Set	purple
chr14:81701500	14	81.70150	0.08618979	Credible Set	purple
chr14:82519671	14	82.51967	0.08861495	Credible Set	purple
chr14:82519834	14	82.51983	0.07519610	Credible Set	purple
chr14:82586326	14	82.58633	0.09837695	Credible Set	purple
chr14:82618916	14	82.61892	0.09444686	Credible Set	purple
chr14:82629334	14	82.62933	0.08172418	Credible Set	purple
chr14:82672838	14	82.67284	0.09438980	Credible Set	purple
chr14:83144282	14	83.14428	0.03829432	Credible Set	purple

F39–43 GBS, QT locomotor test day 2, total distance travelled in 30min (cm)



date: Thu Sep 12 16:09:56 2019

build: F3943GBS

display range: chr15:64627183–70627183 [64627183–70627183]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:67627183

number of SNPs plotted: 186

min P-value: 3.33E–6 [chr15:67627183]

max P-value: 3.68E–1 [chr15:66997733]

omitted Genes: Wisp1, Ndr1

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66284046	15	66.28405	0.009095061	Credible Set	purple
chr15:66309070	15	66.30907	0.004174069	Credible Set	purple
chr15:66324506	15	66.32451	0.003806316	Credible Set	purple
chr15:66361813	15	66.36181	0.003486355	Credible Set	purple
chr15:66462727	15	66.46273	0.002862574	Credible Set	purple
chr15:66495529	15	66.49553	0.003048382	Credible Set	purple
chr15:66569471	15	66.56947	0.002912550	Credible Set	purple
chr15:66672984	15	66.67298	0.002339349	Credible Set	purple
chr15:66672997	15	66.67300	0.002370813	Credible Set	purple
chr15:66673010	15	66.67301	0.002356478	Credible Set	purple
chr15:66673015	15	66.67302	0.002280457	Credible Set	purple
chr15:66673436	15	66.67344	0.003306487	Credible Set	purple
chr15:66673541	15	66.67354	0.003337212	Credible Set	purple
chr15:66673940	15	66.67394	0.003349784	Credible Set	purple
chr15:66685097	15	66.68510	0.003628270	Credible Set	purple
chr15:66696518	15	66.69652	0.003644474	Credible Set	purple
chr15:66699723	15	66.69972	0.003690170	Credible Set	purple
chr15:66719126	15	66.71913	0.003856961	Credible Set	purple
chr15:66719241	15	66.71924	0.004096199	Credible Set	purple
chr15:66720772	15	66.72077	0.004077460	Credible Set	purple
chr15:66730424	15	66.73042	0.003522765	Credible Set	purple
chr15:66737376	15	66.73738	0.003482118	Credible Set	purple
chr15:66768701	15	66.76870	0.003306505	Credible Set	purple
chr15:66777400	15	66.77740	0.003146166	Credible Set	purple
chr15:66777425	15	66.77742	0.003094446	Credible Set	purple
chr15:66777461	15	66.77746	0.003105183	Credible Set	purple
chr15:66777706	15	66.77771	0.004844574	Credible Set	purple
chr15:66777728	15	66.77773	0.004765452	Credible Set	purple
chr15:66777729	15	66.77773	0.004792520	Credible Set	purple
chr15:66777730	15	66.77773	0.004758596	Credible Set	purple
chr15:66777731	15	66.77773	0.004713320	Credible Set	purple
chr15:66777743	15	66.77774	0.004751663	Credible Set	purple
chr15:66812941	15	66.81294	0.002344944	Credible Set	purple
chr15:66826934	15	66.82693	0.002362889	Credible Set	purple
chr15:66834506	15	66.83451	0.002718278	Credible Set	purple
chr15:66834532	15	66.83453	0.002726612	Credible Set	purple

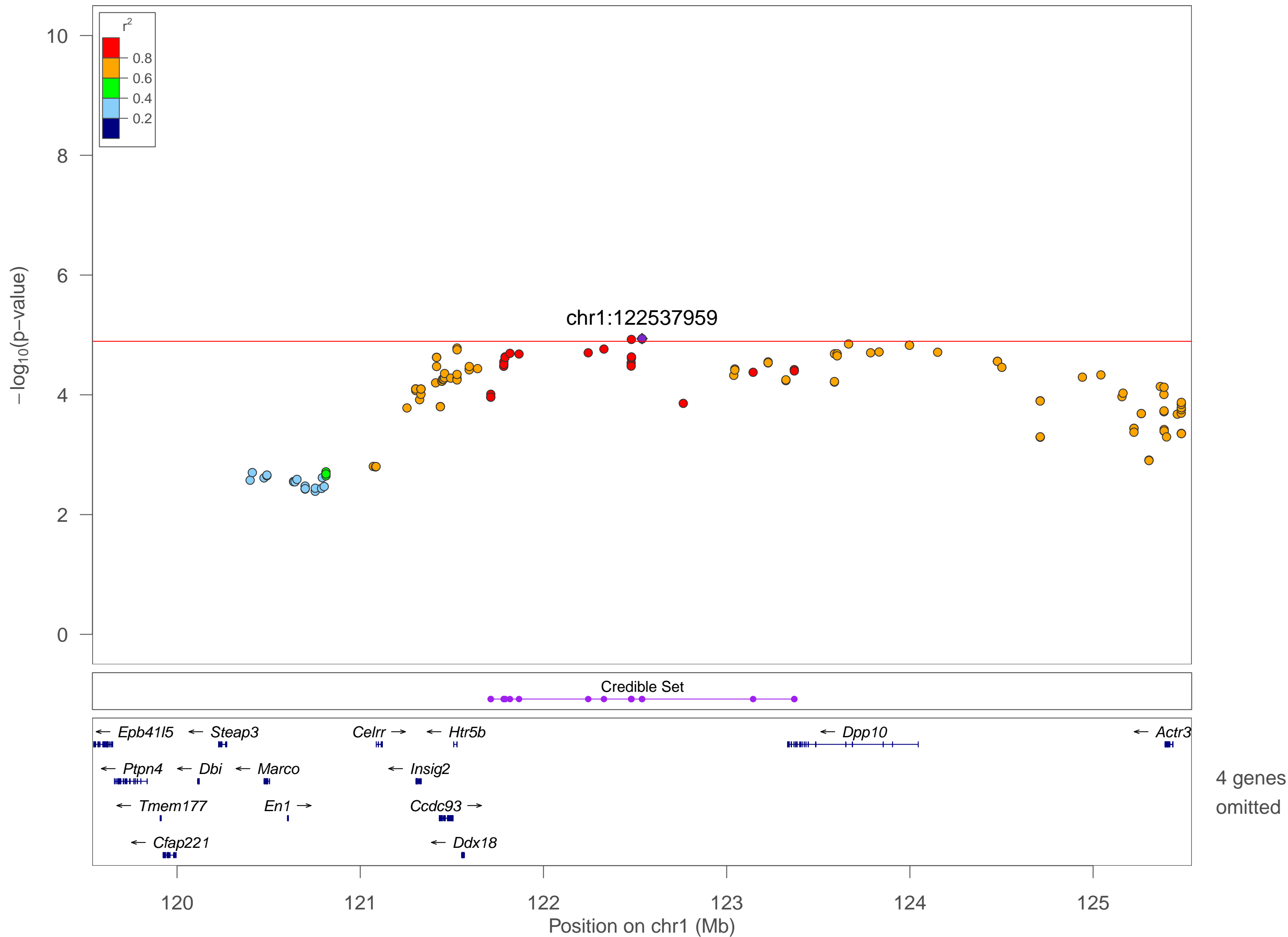
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:66834574	15	66.83457	0.002737624	Credible Set	purple
chr15:66834575	15	66.83458	0.002776346	Credible Set	purple
chr15:66834600	15	66.83460	0.002301835	Credible Set	purple
chr15:66834621	15	66.83462	0.002364886	Credible Set	purple
chr15:66834624	15	66.83462	0.002311512	Credible Set	purple
chr15:66834637	15	66.83464	0.002248665	Credible Set	purple
chr15:66853166	15	66.85317	0.002533244	Credible Set	purple
chr15:66853439	15	66.85344	0.002400159	Credible Set	purple
chr15:66853460	15	66.85346	0.002386901	Credible Set	purple
chr15:66853489	15	66.85349	0.002402281	Credible Set	purple
chr15:66853520	15	66.85352	0.002161535	Credible Set	purple
chr15:66853893	15	66.85389	0.009434574	Credible Set	purple
chr15:66853894	15	66.85389	0.009332540	Credible Set	purple
chr15:66853923	15	66.85392	0.009386891	Credible Set	purple
chr15:66853954	15	66.85395	0.009336174	Credible Set	purple
chr15:66872519	15	66.87252	0.002113078	Credible Set	purple
chr15:66880635	15	66.88063	0.001901124	Credible Set	purple
chr15:66880638	15	66.88064	0.001900495	Credible Set	purple
chr15:66886219	15	66.88622	0.002960970	Credible Set	purple
chr15:66886266	15	66.88627	0.002949433	Credible Set	purple
chr15:66901528	15	66.90153	0.004157208	Credible Set	purple
chr15:66901548	15	66.90155	0.004157208	Credible Set	purple
chr15:66901593	15	66.90159	0.004157208	Credible Set	purple
chr15:66935376	15	66.93538	0.004214125	Credible Set	purple
chr15:66935390	15	66.93539	0.004214125	Credible Set	purple
chr15:66935391	15	66.93539	0.004214125	Credible Set	purple
chr15:66935405	15	66.93541	0.004214125	Credible Set	purple
chr15:66937231	15	66.93723	0.004302561	Credible Set	purple
chr15:66937423	15	66.93742	0.004280379	Credible Set	purple
chr15:67092666	15	67.09267	0.023149492	Credible Set	purple
chr15:67111279	15	67.11128	0.021946184	Credible Set	purple
chr15:67121570	15	67.12157	0.021434297	Credible Set	purple
chr15:67121571	15	67.12157	0.021473471	Credible Set	purple
chr15:67121756	15	67.12176	0.022932326	Credible Set	purple
chr15:67126159	15	67.12616	0.022904561	Credible Set	purple
chr15:67144054	15	67.14405	0.023385776	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr15:67156480	15	67.15648	0.021732059	Credible Set	purple
chr15:67208761	15	67.20876	0.028902789	Credible Set	purple
chr15:67234910	15	67.23491	0.030170101	Credible Set	purple
chr15:67235072	15	67.23507	0.039641188	Credible Set	purple
chr15:67245093	15	67.24509	0.020275431	Credible Set	purple
chr15:67245123	15	67.24512	0.020764487	Credible Set	purple
chr15:67304194	15	67.30419	0.020854847	Credible Set	purple
chr15:67325463	15	67.32546	0.014392780	Credible Set	purple
chr15:67331738	15	67.33174	0.026049506	Credible Set	purple
chr15:67428857	15	67.42886	0.021620813	Credible Set	purple
chr15:67429407	15	67.42941	0.017152161	Credible Set	purple
chr15:67429420	15	67.42942	0.016116054	Credible Set	purple
chr15:67433395	15	67.43340	0.023512753	Credible Set	purple
chr15:67439974	15	67.43997	0.023375125	Credible Set	purple
chr15:67530570	15	67.53057	0.023834869	Credible Set	purple
chr15:67555683	15	67.55568	0.026833500	Credible Set	purple
chr15:67627161	15	67.62716	0.027107727	Credible Set	purple
chr15:67627183	15	67.62718	0.028412895	Credible Set	purple
chr15:67627194	15	67.62719	0.028227699	Credible Set	purple
chr15:67685224	15	67.68522	0.019457727	Credible Set	purple
chr15:67685781	15	67.68578	0.016032399	Credible Set	purple
chr15:67727448	15	67.72745	0.013306608	Credible Set	purple
chr15:67812971	15	67.81297	0.014392987	Credible Set	purple
chr15:67838708	15	67.83871	0.011158339	Credible Set	purple
chr15:67838720	15	67.83872	0.010791534	Credible Set	purple
chr15:67838721	15	67.83872	0.012174787	Credible Set	purple
chr15:67935812	15	67.93581	0.006072829	Credible Set	purple
chr15:67987913	15	67.98791	0.009246112	Credible Set	purple
chr15:67987932	15	67.98793	0.009117363	Credible Set	purple
chr15:68094377	15	68.09438	0.006342155	Credible Set	purple
chr15:68145325	15	68.14532	0.003513975	Credible Set	purple

F34, F39–43 GBS, QT locomotor test day 1, total distance travelled in 30min (cm)



date: Thu Sep 12 17:16:14 2019

build: F3443GBS

display range: chr1:119537959–125537959 [119537959–125537959]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:122537959

number of SNPs plotted: 141

min P-value: 1.15E–5 [chr1:122537959]

max P-value: 4.08E–3 [chr1:120754192]

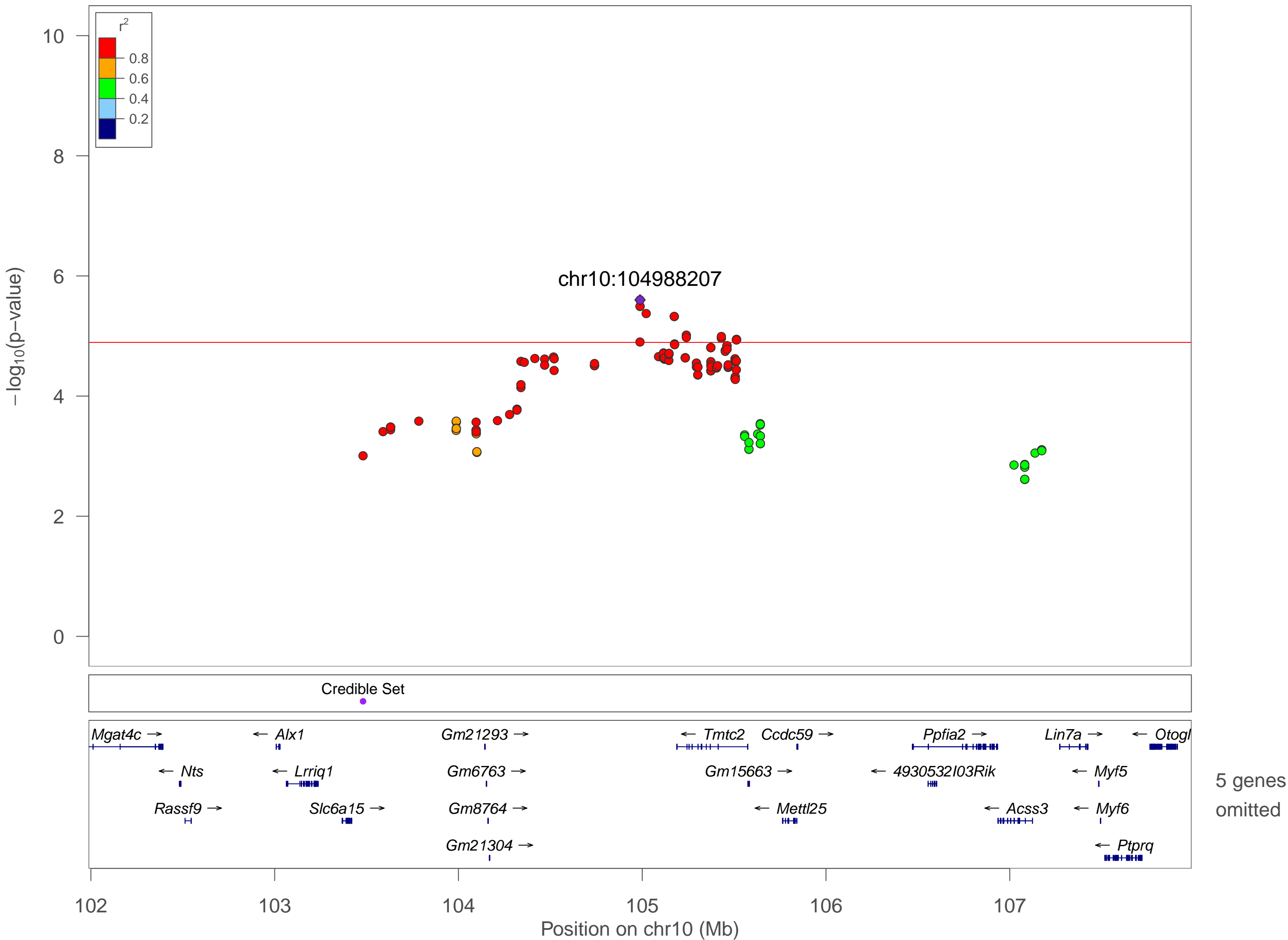
omitted Genes: Sctr, Tmem37, 3110009E18Rik

omitted Genes: C1ql2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:121712291	1	121.7123	0.01048633	Credible Set	purple
chr1:121712326	1	121.7123	0.01167864	Credible Set	purple
chr1:121712327	1	121.7123	0.01050811	Credible Set	purple
chr1:121783108	1	121.7831	0.03228209	Credible Set	purple
chr1:121783777	1	121.7838	0.03803749	Credible Set	purple
chr1:121783797	1	121.7838	0.03451248	Credible Set	purple
chr1:121790517	1	121.7905	0.04559009	Credible Set	purple
chr1:121790555	1	121.7906	0.04472153	Credible Set	purple
chr1:121817004	1	121.8170	0.05187528	Credible Set	purple
chr1:121866576	1	121.8666	0.05059906	Credible Set	purple
chr1:122244126	1	122.2441	0.05290792	Credible Set	purple
chr1:122329939	1	122.3299	0.06065876	Credible Set	purple
chr1:122478661	1	122.4787	0.03646178	Credible Set	purple
chr1:122478665	1	122.4787	0.03249151	Credible Set	purple
chr1:122479820	1	122.4798	0.08637499	Credible Set	purple
chr1:122480027	1	122.4800	0.04496138	Credible Set	purple
chr1:122480078	1	122.4801	0.04345934	Credible Set	purple
chr1:122480093	1	122.4801	0.04552479	Credible Set	purple
chr1:122537959	1	122.5380	0.08897290	Credible Set	purple
chr1:122537965	1	122.5380	0.08770913	Credible Set	purple
chr1:123144261	1	123.1443	0.02594387	Credible Set	purple
chr1:123368825	1	123.3688	0.02861575	Credible Set	purple
chr1:123369170	1	123.3692	0.02724266	Credible Set	purple

F34, F39–43 GBS, QT locomotor test day 1, total distance travelled in 30min (cm)



date: Thu Sep 12 16:47:12 2019

build: F3443GBS

display range: chr10:101988207–107988207 [101988207–107988207]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:104988207

number of SNPs plotted: 142

min P-value: 2.51E–6 [chr10:104988207]

max P-value: 2.44E–3 [chr10:107081609]

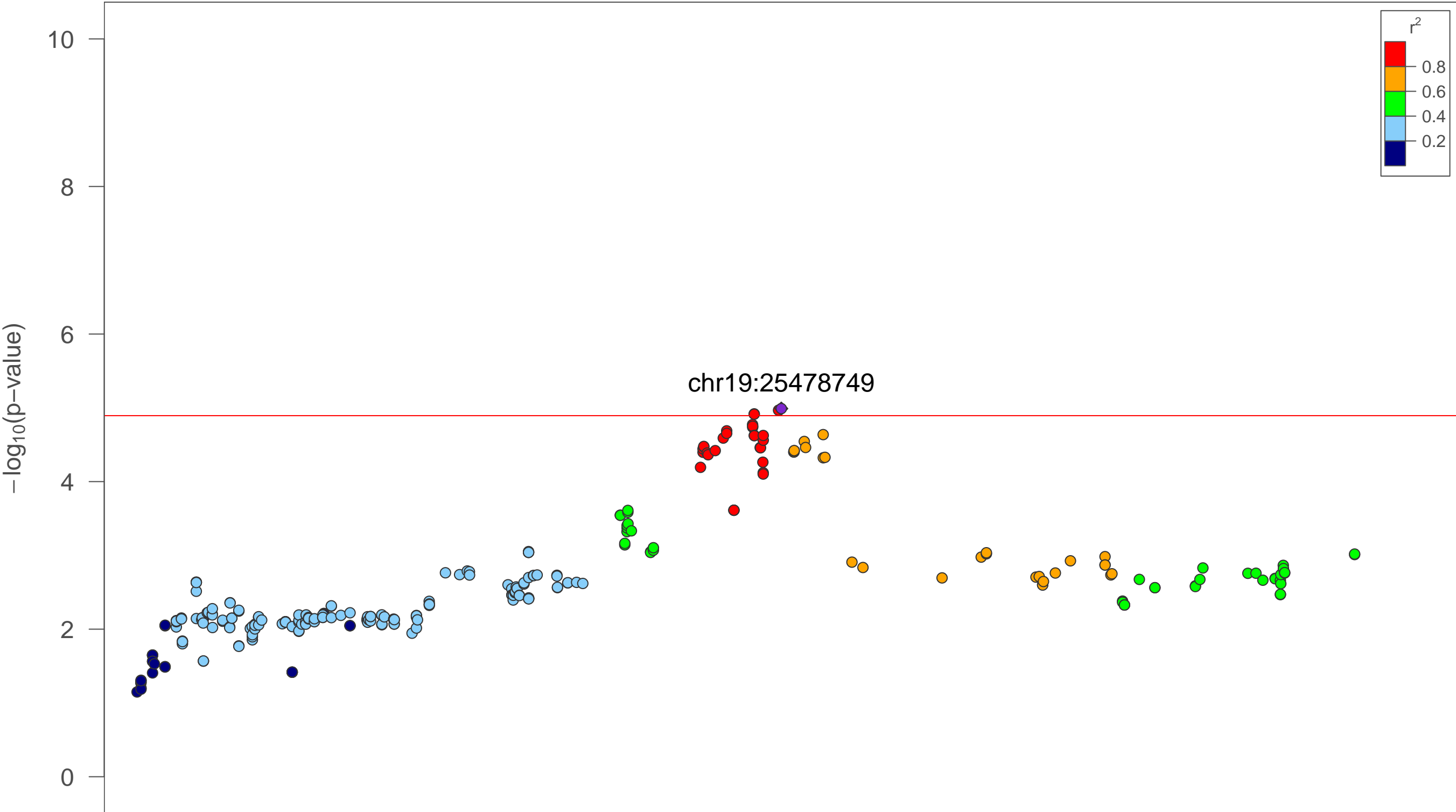
omitted Genes: Gm21312, Gm20765, Gm4340

omitted Genes: Mir6411, Gm29685

Fine-mapping Regions

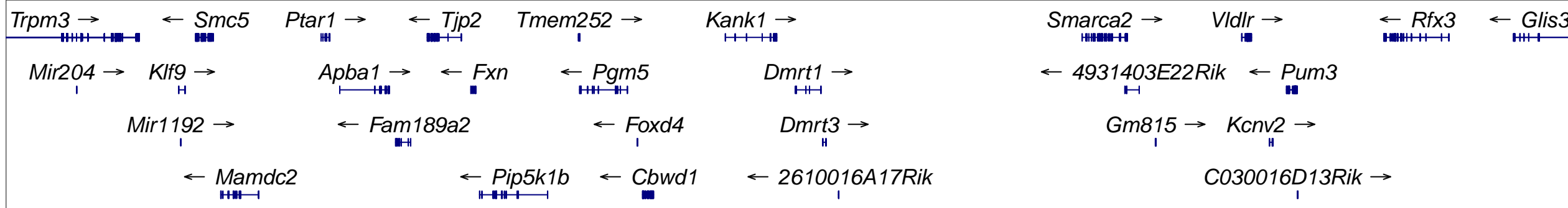
snp	chr	pos (Mb)	pp	group	color
chr10:103480830	10	103.4808	0	Credible Set	purple

F34, F39–43 GBS, QT locomotor test day 1, total distance travelled in 30min (cm)



Credible Set

chr19:25478749



5 genes
omitted

date: Thu Sep 12 17:17:02 2019

build: F3443GBS

display range: chr19:22478749–28478749 [22478749–28478749]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:25478749

number of SNPs plotted: 295

min P-value: 1.02E–5 [chr19:25478749]

max P-value: 7.09E–2 [chr19:22624639]

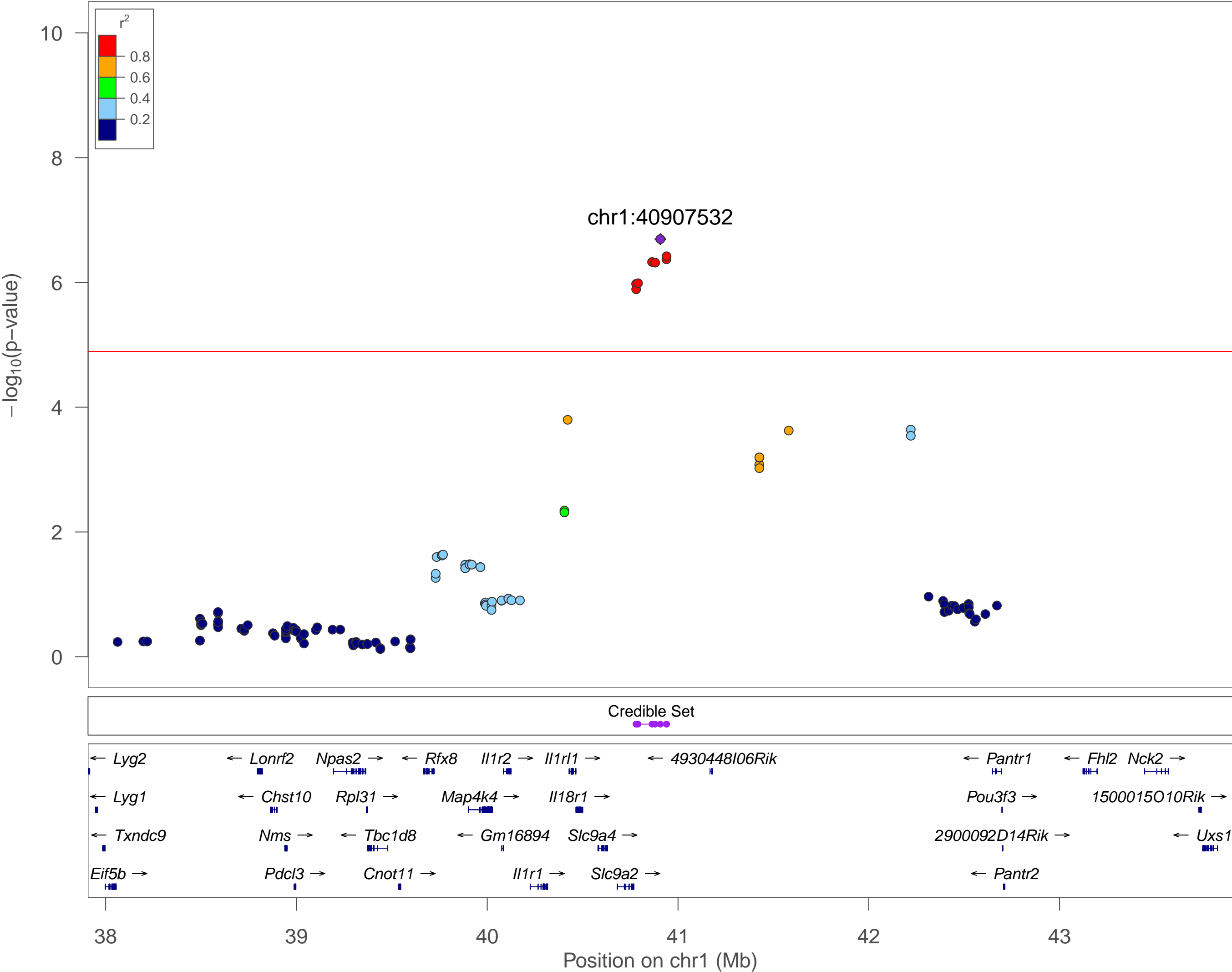
omitted Genes: 1700028P14Rik, Fam122a, Mir3084–1

omitted Genes: Dock8, Dmrt2

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr19:25120764	19	25.12076	0.014504037	Credible Set	purple
chr19:25131980	19	25.13198	0.022628604	Credible Set	purple
chr19:25132073	19	25.13207	0.025026763	Credible Set	purple
chr19:25135354	19	25.13535	0.026728192	Credible Set	purple
chr19:25135364	19	25.13536	0.026935500	Credible Set	purple
chr19:25150355	19	25.15036	0.022135925	Credible Set	purple
chr19:25154435	19	25.15443	0.021024980	Credible Set	purple
chr19:25185988	19	25.18599	0.023788222	Credible Set	purple
chr19:25221638	19	25.22164	0.034466211	Credible Set	purple
chr19:25236799	19	25.23680	0.042784666	Credible Set	purple
chr19:25236833	19	25.23683	0.039667952	Credible Set	purple
chr19:25268827	19	25.26883	0.004111366	Credible Set	purple
chr19:25351464	19	25.35146	0.051472220	Credible Set	purple
chr19:25351973	19	25.35197	0.047575828	Credible Set	purple
chr19:25351999	19	25.35200	0.049083731	Credible Set	purple
chr19:25358713	19	25.35871	0.070870564	Credible Set	purple
chr19:25358747	19	25.35875	0.070158182	Credible Set	purple
chr19:25359143	19	25.35914	0.037367601	Credible Set	purple
chr19:25359220	19	25.35922	0.036969093	Credible Set	purple
chr19:25385103	19	25.38510	0.026025842	Credible Set	purple
chr19:25386713	19	25.38671	0.025836550	Credible Set	purple
chr19:25397059	19	25.39706	0.016879120	Credible Set	purple
chr19:25398520	19	25.39852	0.012358205	Credible Set	purple
chr19:25398528	19	25.39853	0.011890533	Credible Set	purple
chr19:25398751	19	25.39875	0.032357754	Credible Set	purple
chr19:25398757	19	25.39876	0.037266089	Credible Set	purple
chr19:25466545	19	25.46654	0.078989179	Credible Set	purple
chr19:25478749	19	25.47875	0.082894984	Credible Set	purple

F34, F39–43 GBS, QT locomotor test day 2, total distance travelled in 30min (cm)



date: Thu Sep 12 16:49:12 2019

build: F3443GBS

display range: chr1:37907532–43907532 [37907532–43907532]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:40907532

number of SNPs plotted: 151

min P-value: 2.02E–7 [chr1:40907532]

max P-value: 7.53E–1 [chr1:39439521]

omitted Genes: Rev1, Aff3, Mir6349

omitted Genes: Snord89, Rnf149, Creg2

omitted Genes: Gm3646, 1700066B17Rik, Il1rl2

omitted Genes: Il18rap, Mfsd9, Tmem182

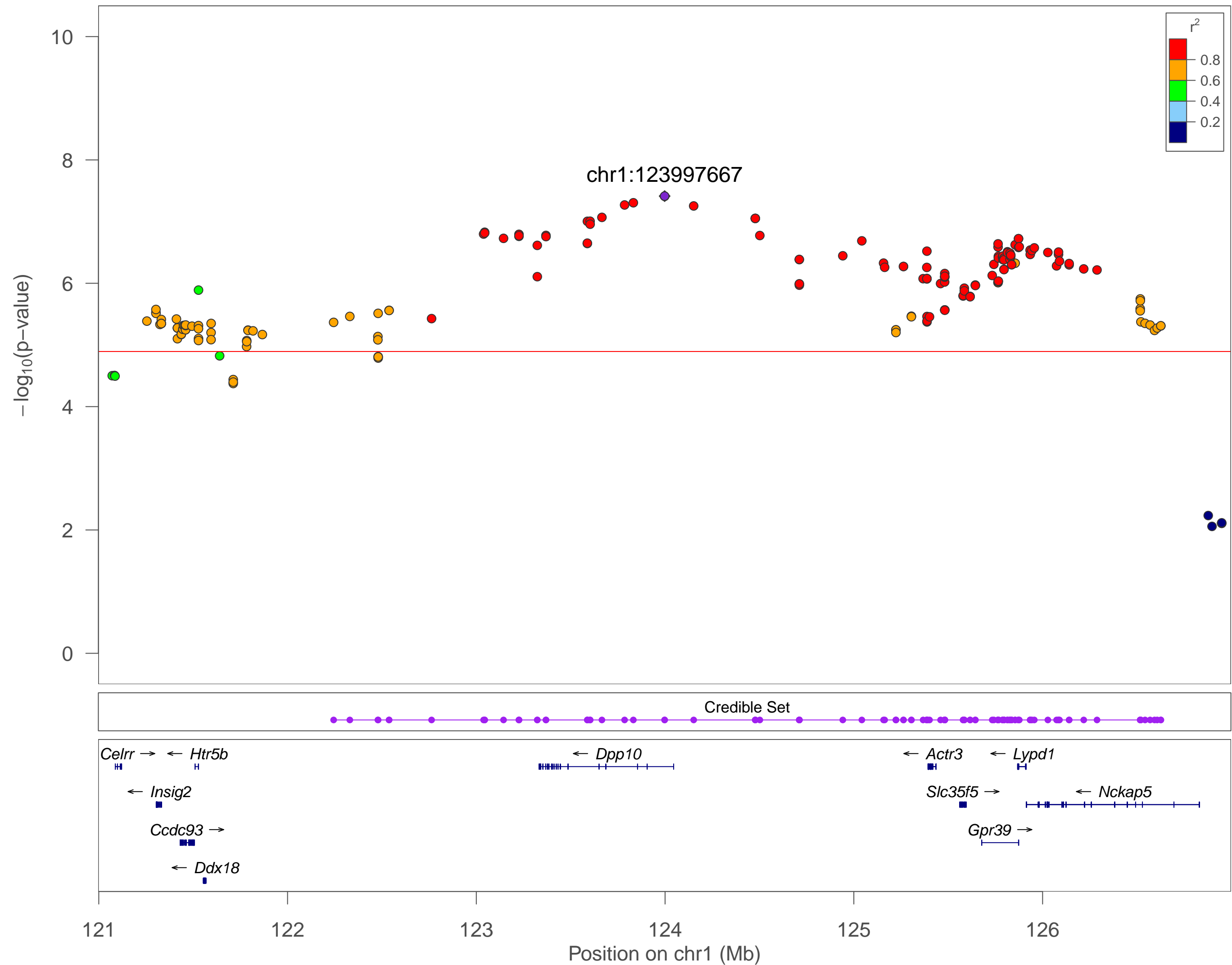
omitted Genes: Dalir, Mrps9, Gpr45

omitted Genes: Tgfbrap1, Al597479

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:40780351	1	40.78035	0.06172370	Credible Set	purple
chr1:40780677	1	40.78068	0.05986715	Credible Set	purple
chr1:40790450	1	40.79045	0.07064687	Credible Set	purple
chr1:40863930	1	40.86393	0.11882693	Credible Set	purple
chr1:40880208	1	40.88021	0.11529661	Credible Set	purple
chr1:40907532	1	40.90753	0.30791953	Credible Set	purple
chr1:40939551	1	40.93955	0.12326001	Credible Set	purple
chr1:40939963	1	40.93996	0.14075209	Credible Set	purple

F34, F39–43 GBS, QT locomotor test day 2, total distance travelled in 30min (cm)



date: Thu Sep 12 16:48:23 2019

build: F3443GBS

display range: chr1:120997667–126997667 [120997667–126997667]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:123997667

number of SNPs plotted: 192

min P-value: 3.86E–8 [chr1:123997667]

max P-value: 8.75E–3 [chr1:126897506]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:122244126	1	122.2441	0.0004903082	Credible Set	purple
chr1:122329939	1	122.3299	0.0008148947	Credible Set	purple
chr1:122478661	1	122.4787	0.0004268443	Credible Set	purple
chr1:122479820	1	122.4798	0.0009423059	Credible Set	purple
chr1:122537959	1	122.5380	0.0009876355	Credible Set	purple
chr1:122537965	1	122.5380	0.0009820829	Credible Set	purple
chr1:122763062	1	122.7631	0.0006076905	Credible Set	purple
chr1:123038644	1	123.0386	0.0105359940	Credible Set	purple
chr1:123044323	1	123.0443	0.0108297003	Credible Set	purple
chr1:123044326	1	123.0443	0.0105701772	Credible Set	purple
chr1:123144261	1	123.1443	0.0092520042	Credible Set	purple
chr1:123225956	1	123.2260	0.0143077783	Credible Set	purple
chr1:123225957	1	123.2260	0.0153422625	Credible Set	purple
chr1:123225968	1	123.2260	0.0147604770	Credible Set	purple
chr1:123322958	1	123.3230	0.0071220973	Credible Set	purple
chr1:123323170	1	123.3232	0.0033211934	Credible Set	purple
chr1:123368825	1	123.3688	0.0103264600	Credible Set	purple
chr1:123369170	1	123.3692	0.0099007839	Credible Set	purple
chr1:123588206	1	123.5882	0.0088544693	Credible Set	purple
chr1:123588207	1	123.5882	0.0089696864	Credible Set	purple
chr1:123588436	1	123.5884	0.0161548047	Credible Set	purple
chr1:123602768	1	123.6028	0.0162473028	Credible Set	purple
chr1:123603027	1	123.6030	0.0148698308	Credible Set	purple
chr1:123665450	1	123.6655	0.0166282059	Credible Set	purple
chr1:123785564	1	123.7856	0.0292567643	Credible Set	purple
chr1:123831927	1	123.8319	0.0312091390	Credible Set	purple
chr1:123997640	1	123.9976	0.0399908086	Credible Set	purple
chr1:123997667	1	123.9977	0.0402157526	Credible Set	purple
chr1:124151549	1	124.1515	0.0283530813	Credible Set	purple
chr1:124477860	1	124.4779	0.0155127462	Credible Set	purple
chr1:124477885	1	124.4779	0.0155113663	Credible Set	purple
chr1:124477894	1	124.4779	0.0155030859	Credible Set	purple
chr1:124501960	1	124.5020	0.0101347481	Credible Set	purple
chr1:124711052	1	124.7111	0.0045281643	Credible Set	purple
chr1:124711083	1	124.7111	0.0045825212	Credible Set	purple
chr1:124711275	1	124.7113	0.0024175564	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:124711325	1	124.7113	0.0023088137	Credible Set	purple
chr1:124711335	1	124.7113	0.0024196556	Credible Set	purple
chr1:124941492	1	124.9415	0.0054660111	Credible Set	purple
chr1:125042386	1	125.0424	0.0087226482	Credible Set	purple
chr1:125157478	1	125.1575	0.0063609133	Credible Set	purple
chr1:125163273	1	125.1633	0.0062276759	Credible Set	purple
chr1:125223006	1	125.2230	0.0005088348	Credible Set	purple
chr1:125223009	1	125.2230	0.0005088348	Credible Set	purple
chr1:125223046	1	125.2230	0.0005021901	Credible Set	purple
chr1:125263025	1	125.2630	0.0040982744	Credible Set	purple
chr1:125263026	1	125.2630	0.0041004478	Credible Set	purple
chr1:125304903	1	125.3049	0.0007813838	Credible Set	purple
chr1:125304912	1	125.3049	0.0007676780	Credible Set	purple
chr1:125367002	1	125.3670	0.0034692504	Credible Set	purple
chr1:125386497	1	125.3865	0.0055058241	Credible Set	purple
chr1:125387017	1	125.3870	0.0040882844	Credible Set	purple
chr1:125387048	1	125.3870	0.0041482947	Credible Set	purple
chr1:125387071	1	125.3871	0.0041235193	Credible Set	purple
chr1:125387095	1	125.3871	0.0079296964	Credible Set	purple
chr1:125387647	1	125.3876	0.0012946389	Credible Set	purple
chr1:125387695	1	125.3877	0.0010148964	Credible Set	purple
chr1:125387731	1	125.3877	0.0010996618	Credible Set	purple
chr1:125400951	1	125.4010	0.0011622511	Credible Set	purple
chr1:125459470	1	125.4595	0.0039806373	Credible Set	purple
chr1:125481066	1	125.4811	0.0043636840	Credible Set	purple
chr1:125481498	1	125.4815	0.0052983069	Credible Set	purple
chr1:125481527	1	125.4815	0.0058011130	Credible Set	purple
chr1:125481552	1	125.4816	0.0059309355	Credible Set	purple
chr1:125481575	1	125.4816	0.0061860407	Credible Set	purple
chr1:125481715	1	125.4817	0.0018744570	Credible Set	purple
chr1:125481739	1	125.4817	0.0018663804	Credible Set	purple
chr1:125481758	1	125.4818	0.0018478106	Credible Set	purple
chr1:125578885	1	125.5789	0.0027072511	Credible Set	purple
chr1:125579353	1	125.5794	0.0025801466	Credible Set	purple
chr1:125585192	1	125.5852	0.0033353646	Credible Set	purple
chr1:125585252	1	125.5853	0.0030090719	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:125615959	1	125.6160	0.002143989	Credible Set	purple
chr1:125616002	1	125.6160	0.002105905	Credible Set	purple
chr1:125643547	1	125.6435	0.003029906	Credible Set	purple
chr1:125643933	1	125.6439	0.002981420	Credible Set	purple
chr1:125733123	1	125.7331	0.004132891	Credible Set	purple
chr1:125741798	1	125.7418	0.005594995	Credible Set	purple
chr1:125763925	1	125.7639	0.001064615	Credible Set	purple
chr1:125763932	1	125.7639	0.001047431	Credible Set	purple
chr1:125763954	1	125.7640	0.001036705	Credible Set	purple
chr1:125764061	1	125.7641	0.005186193	Credible Set	purple
chr1:125764120	1	125.7641	0.005863553	Credible Set	purple
chr1:125765305	1	125.7653	0.002961500	Credible Set	purple
chr1:125765343	1	125.7653	0.003030144	Credible Set	purple
chr1:125765591	1	125.7656	0.005999995	Credible Set	purple
chr1:125765595	1	125.7656	0.005596416	Credible Set	purple
chr1:125787309	1	125.7873	0.008358578	Credible Set	purple
chr1:125789544	1	125.7895	0.007507642	Credible Set	purple
chr1:125789598	1	125.7896	0.008249921	Credible Set	purple
chr1:125795230	1	125.7952	0.008084976	Credible Set	purple
chr1:125795318	1	125.7953	0.007765262	Credible Set	purple
chr1:125795437	1	125.7954	0.005770947	Credible Set	purple
chr1:125795438	1	125.7954	0.005722316	Credible Set	purple
chr1:125813871	1	125.8139	0.010016287	Credible Set	purple
chr1:125813926	1	125.8139	0.009620435	Credible Set	purple
chr1:125826985	1	125.8270	0.007989308	Credible Set	purple
chr1:125827492	1	125.8275	0.010567789	Credible Set	purple
chr1:125831250	1	125.8312	0.009440007	Credible Set	purple
chr1:125831282	1	125.8313	0.009222145	Credible Set	purple
chr1:125831293	1	125.8313	0.009417136	Credible Set	purple
chr1:125836037	1	125.8360	0.006652284	Credible Set	purple
chr1:125836053	1	125.8361	0.006663062	Credible Set	purple
chr1:125854611	1	125.8546	0.002404758	Credible Set	purple
chr1:125854689	1	125.8547	0.015798016	Credible Set	purple
chr1:125872500	1	125.8725	0.022506677	Credible Set	purple
chr1:125872503	1	125.8725	0.022568951	Credible Set	purple
chr1:125872524	1	125.8725	0.016672525	Credible Set	purple

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
chr1:125876478	1	125.8765	0.0170061955	Credible Set	purple
chr1:125934259	1	125.9343	0.0102824615	Credible Set	purple
chr1:125934293	1	125.9343	0.0105250827	Credible Set	purple
chr1:125934498	1	125.9345	0.0104563469	Credible Set	purple
chr1:125943250	1	125.9433	0.0120878356	Credible Set	purple
chr1:125956049	1	125.9560	0.0131811482	Credible Set	purple
chr1:126027899	1	126.0279	0.0110656412	Credible Set	purple
chr1:126074088	1	126.0741	0.0063421823	Credible Set	purple
chr1:126084400	1	126.0844	0.0100321636	Credible Set	purple
chr1:126084494	1	126.0845	0.0113075009	Credible Set	purple
chr1:126089361	1	126.0894	0.0077924465	Credible Set	purple
chr1:126140625	1	126.1406	0.0076302682	Credible Set	purple
chr1:126140679	1	126.1407	0.0081340241	Credible Set	purple
chr1:126217882	1	126.2179	0.0068068419	Credible Set	purple
chr1:126288256	1	126.2883	0.0053548894	Credible Set	purple
chr1:126517088	1	126.5171	0.0015054299	Credible Set	purple
chr1:126517103	1	126.5171	0.0014040618	Credible Set	purple
chr1:126517612	1	126.5176	0.0023518924	Credible Set	purple
chr1:126517625	1	126.5176	0.0021296618	Credible Set	purple
chr1:126520773	1	126.5208	0.0009017474	Credible Set	purple
chr1:126542829	1	126.5428	0.0009419753	Credible Set	purple
chr1:126569602	1	126.5696	0.0008551592	Credible Set	purple
chr1:126593029	1	126.5930	0.0007262267	Credible Set	purple
chr1:126607175	1	126.6072	0.0008477031	Credible Set	purple
chr1:126626338	1	126.6263	0.0010380136	Credible Set	purple
chr1:126626341	1	126.6263	0.0010228407	Credible Set	purple