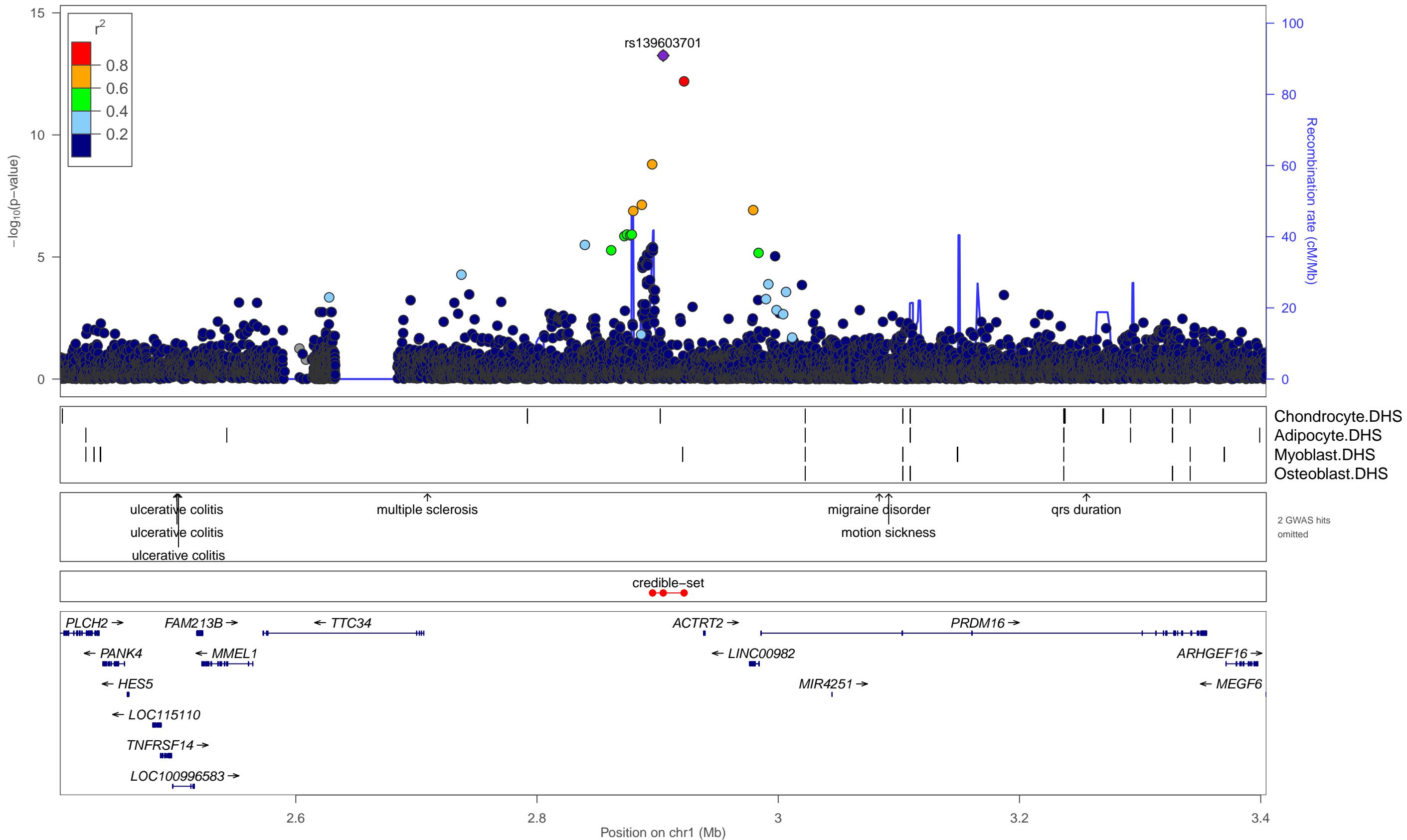


eBMD SNP INDEX 001



date: Wed Jun 28 21:15:35 2017

build: hg19

display range: chr1:2404634–3404634 [2404634–3404634]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:2904634

number of SNPs plotted: 7973

min P-value: 5.6E-14 [chr1:2904634]

max P-value: 1E0 [chr1:2432749]

omitted GWAS Hits: chr1:2.709164–multiple sclerosis, chr1:3.083712–migraine disorder

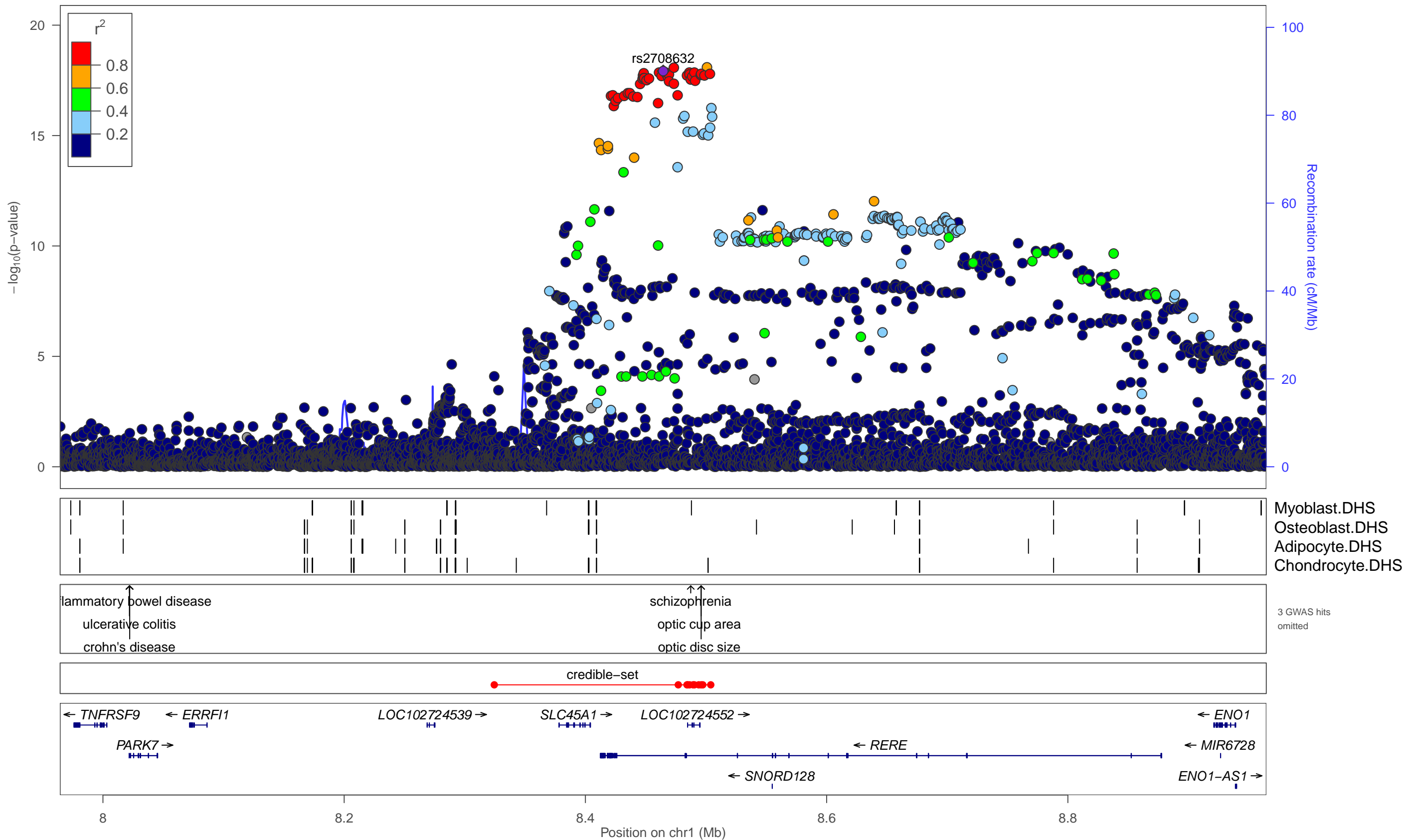
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	2.501338	ulcerative colitis	Jostins L	1/11/2012	Nature	23128233	rs10797432	EFO_0000729	GCST001728
1	2.501516	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs10910092	EFO_0000729	GCST003045
1	2.502780	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs6667605	EFO_0000729	GCST003045
1	2.513216	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs734999	EFO_0000729	GCST000964
1	2.526746	celiac disease	Dubois PC	28/02/2010	Nat Genet	20190752	rs3748816	EFO_0001060	GCST000612
1	2.709164	multiple sclerosis	Sawcer S	11/08/2011	Nature	21833088	rs4648356	EFO_0003885	GCST001198
1	3.083712	migraine disorder	Anttila V	23/06/2013	Nat Genet	23793025	rs2651899	EFO_0003821	GCST002081
1	3.083712	migraine disorder	Chasman DI	12/06/2011	Nat Genet	21666692	rs2651899	EFO_0003821	GCST001105
1	3.091587	motion sickness	Hromatka BS	26/01/2015	Hum Mol Genet	25628336	rs61759167	EFO_0006928	GCST002759
1	3.255539	qrs duration	Hong KW	17/07/2014	Hum Mol Genet	25035420	rs2483280	EFO_0005055	GCST002533

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12746525	1	2.895806	2.6273	credible-set	red
rs139603701	1	2.904634	4.7384	credible-set	red
rs371314656	1	2.921939	2.6608	credible-set	red

eBMD SNP INDEX 002



date: Wed Jun 28 21:15:31 2017

build: hg19

display range: chr1:7964509–8964509 [7964509–8964509]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:8464509

number of SNPs plotted: 5084

min P-value: 8.1E–19 [chr1:8500791]

max P-value: 1E0 [chr1:7968288]

omitted GWAS Hits: chr1:8.487323–schizophrenia, chr1:8.495945–optic cup area

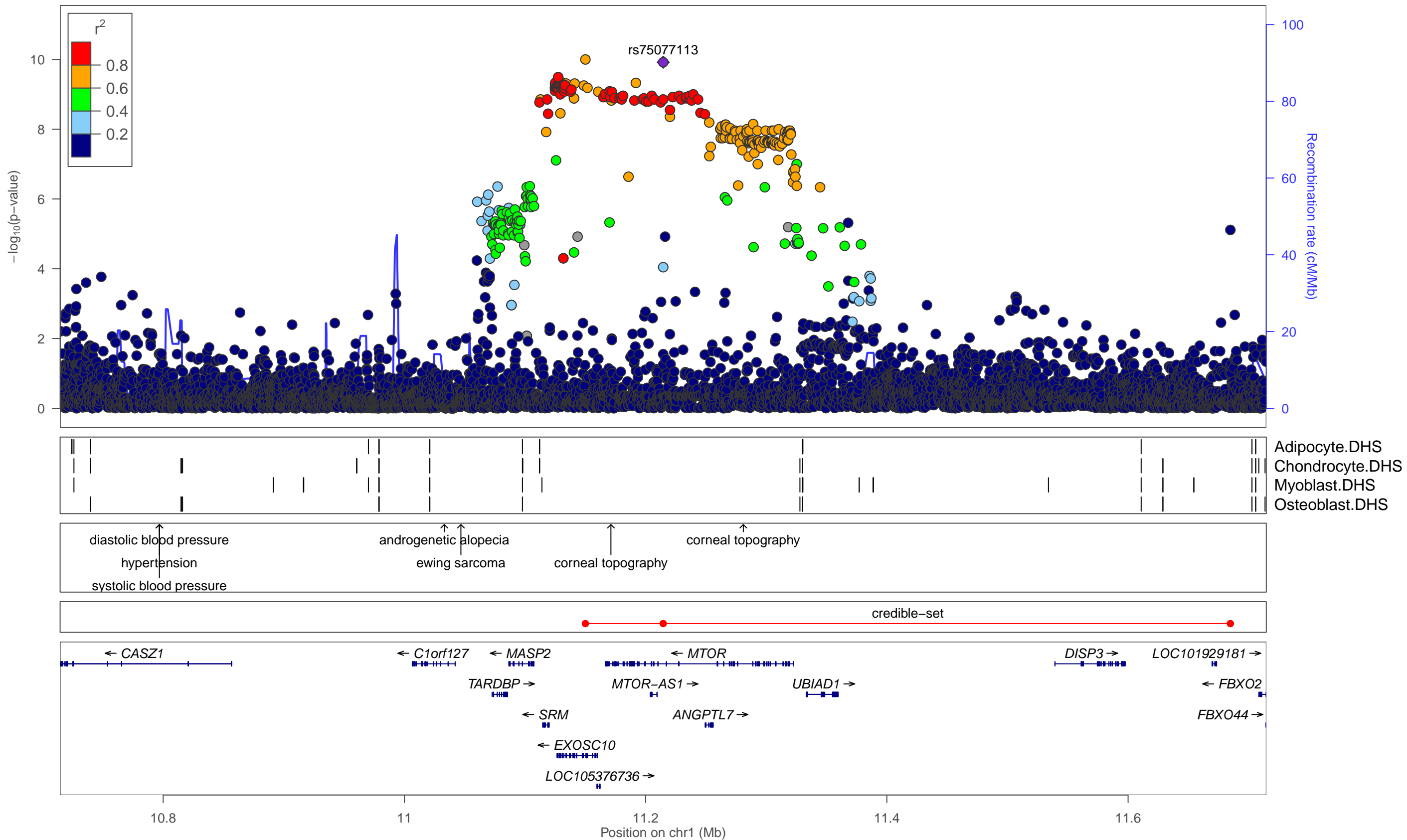
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	8.021973	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs35675666	EFO_0003767	GCST001725
1	8.021973	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs35675666	EFO_0000729	GCST000964
1	8.022197	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs3766606	EFO_0000384	GCST003044
1	8.022197	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs3766606	EFO_0000729	GCST003045
1	8.150638	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs72634258	EFO_0003767	GCST003043
1	8.487323	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs301797	EFO_0000692	GCST003048
1	8.495945	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs301801	EFO_0006940	GCST002762
1	8.495945	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs301801	EFO_0004832	GCST002626
1	8.526142	vitiligo	Jin Y	21/04/2010	N Engl J Med	20410501	rs4908760	EFO_0004208	GCST000662

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs545286513	1	8.324439	2.5585	credible-set	red
rs11121181	1	8.477006	2.7320	credible-set	red
rs159961	1	8.484228	2.1819	credible-set	red
rs301807	1	8.484823	2.7876	credible-set	red
rs301808	1	8.486341	2.7874	credible-set	red
rs301799	1	8.489302	3.8284	credible-set	red
rs302719	1	8.490320	3.6858	credible-set	red
rs12047377	1	8.493933	3.8456	credible-set	red
rs301801	1	8.495945	2.0791	credible-set	red
rs301802	1	8.497307	2.1556	credible-set	red
rs145986089	1	8.503935	2.1817	credible-set	red

eBMD SNP INDEX 003



date: Wed Jun 28 21:15:32 2017

build: hg19

display range: chr1:10714582–11714582 [10714582–11714582]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:11214582

number of SNPs plotted: 6324

min P-value: 1E-10 [chr1:11150053]

max P-value: 1E0 [chr1:10728264]

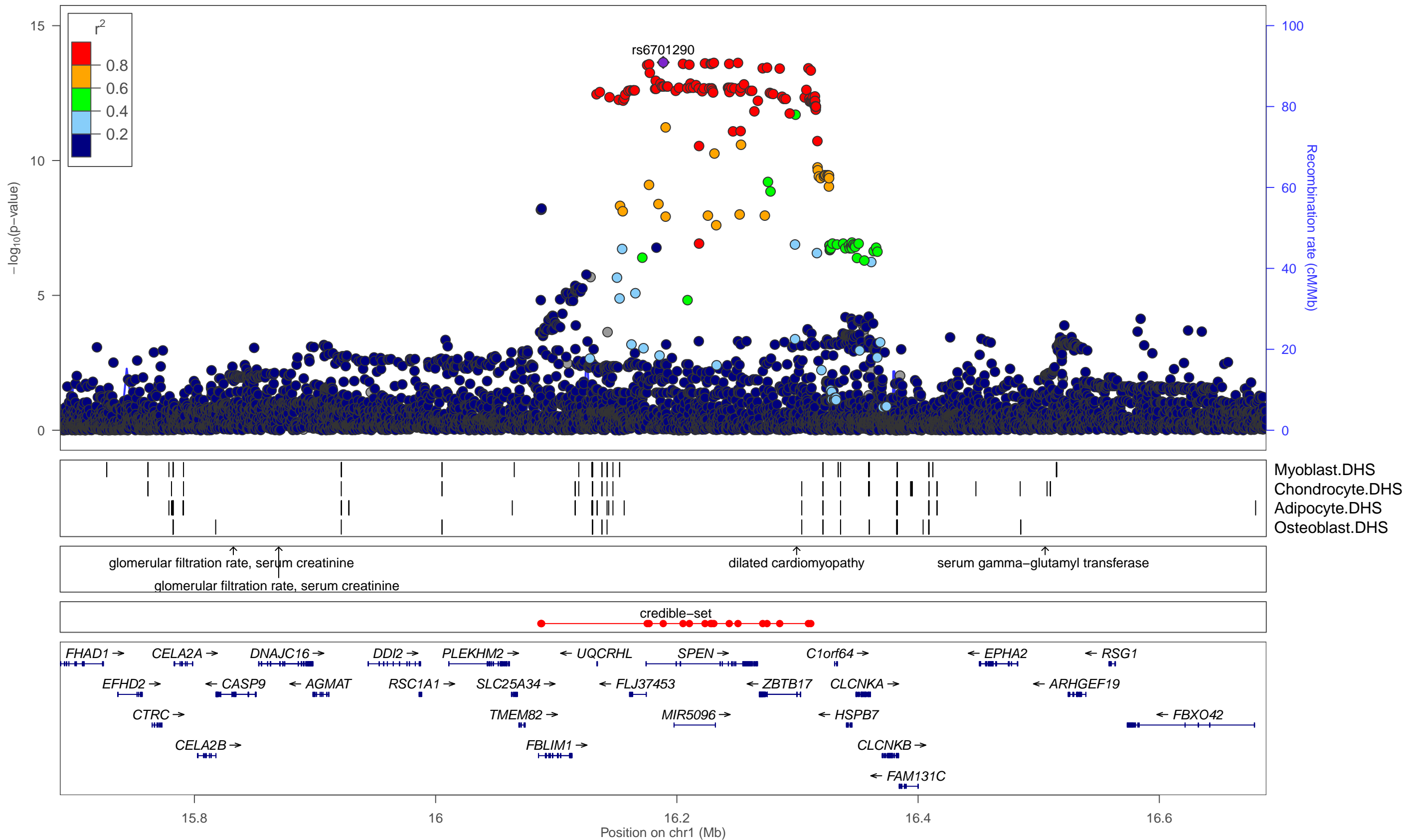
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	10.79687	diastolic blood pressure	Kato N	15/05/2011	Nat Genet	21572416	rs880315	EFO_0006336	GCST001074
1	10.79687	hypertension	Lu X	23/09/2014	Hum Mol Genet	25249183	rs880315	EFO_0000537	GCST002627
1	10.79687	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs880315	EFO_0006335	GCST002630
1	11.03308	androgenetic alopecia	Li R	31/05/2012	PLoS Genet	22693459	rs12565727	EFO_0004191	GCST001548
1	11.04686	ewing sarcoma	Postel-Vinay S	12/02/2012	Nat Genet	22327514	rs9430161	EFO_0000174	GCST001407
1	11.17123	corneal topography	Han S	10/06/2011	Hum Mol Genet	21665993	rs17036350	EFO_0004345	GCST001101
1	11.28099	corneal topography	Chen P	24/06/2014	Hum Mol Genet	24963161	rs74225573	EFO_0004345	GCST002502

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs70977545	1	11.15005	2.4998	credible-set	red
rs75077113	1	11.21458	2.4069	credible-set	red
rs199518409	1	11.68479	2.9944	credible-set	red

eBMD SNP INDEX 004



date: Wed Jun 28 21:15:35 2017

build: hg19

display range: chr1:15688681–16688681 [15688681–16688681]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:16188681

number of SNPs plotted: 6831

min P-value: 2.3E-14 [chr1:16188681]

max P-value: 1E0 [chr1:15691390]

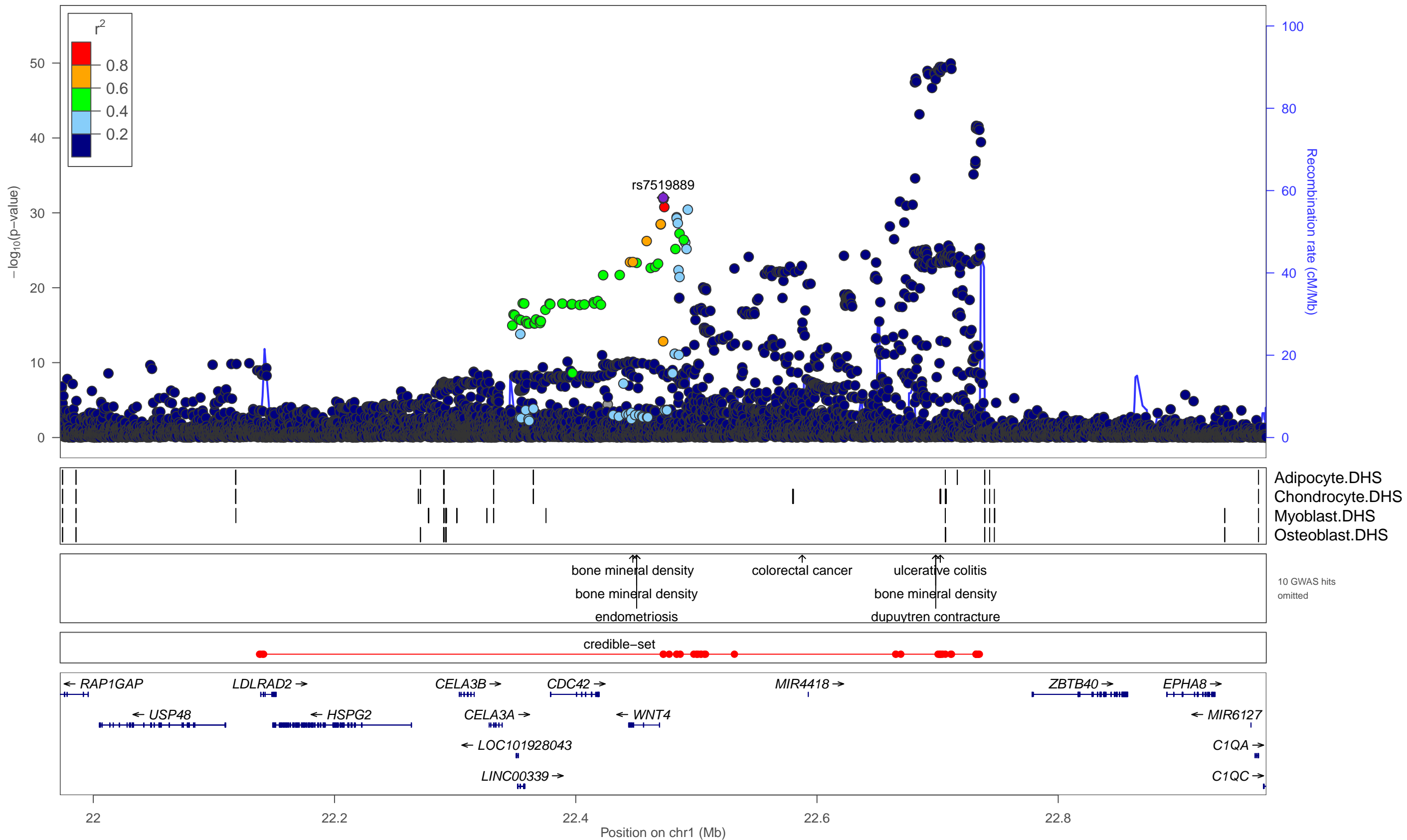
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	15.83228	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs1800615	EFO_0005208, EFO_0004518	GCST003372
1	15.86990	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs12124078	EFO_0005208, EFO_0004518	GCST003401
1	16.29931	dilated cardiomyopathy	Villard E	1/04/2011	Eur Heart J	21459883	rs10927875	EFO_0000407	GCST001023
1	16.50532	serum gamma-glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs1497406	EFO_0004532	GCST001277
1	16.50532	serum gamma-glutamyl transferase	Middelberg RP	1/11/2011	Hum Mol Genet	22010049	rs1497406	EFO_0004532	GCST001307

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs938295	1	16.08726	2.7018	credible-set	red
rs12081206	1	16.08773	2.7089	credible-set	red
rs12091731	1	16.08782	2.7427	credible-set	red
rs61782190	1	16.17539	2.2594	credible-set	red
rs2062592	1	16.17701	2.2909	credible-set	red
rs6701290	1	16.18868	2.3628	credible-set	red
rs6665768	1	16.20510	2.3079	credible-set	red
rs6429786	1	16.21037	2.2752	credible-set	red
rs556290	1	16.22333	2.3252	credible-set	red
rs12077944	1	16.22801	2.3079	credible-set	red
rs35401929	1	16.22896	2.3079	credible-set	red
rs6429787	1	16.23066	2.3438	credible-set	red
rs2235740	1	16.24342	2.3078	credible-set	red
rs848203	1	16.25067	2.3434	credible-set	red
rs848216	1	16.27118	2.1433	credible-set	red
rs698891	1	16.27477	2.1665	credible-set	red
rs848193	1	16.28527	2.1327	credible-set	red
rs848310	1	16.30907	2.1455	credible-set	red
rs1739812	1	16.31103	2.0640	credible-set	red

eBMD SNP INDEX 005



date: Wed Jun 28 21:15:16 2017

build: hg19

display range: chr1:21972506–22972506 [21972506–22972506]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:22472506

number of SNPs plotted: 7354

min P-value: 1.1E-50 [chr1:22710877]

max P-value: 1E0 [chr1:21989432]

omitted GWAS Hits: chr1:22.587728–colorectal cancer, chr1:22.698447–bone mineral density

omitted GWAS Hits: chr1:22.702231–ulcerative colitis, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002492
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002494
1	22.45049	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2235529	EFO_0003923	GCST002496
1	22.45049	endometriosis	Albertsen HM	5/03/2013	PLoS One	23472165	rs2235529	EFO_0001065	GCST001894
1	22.46822	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs3820282	Orphanet_398934	GCST002748
1	22.49072	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7521902	EFO_0003923	GCST001482
1	22.49072	endometriosis	Nyholt DR	28/10/2012	Nat Genet	23104006	rs7521902	EFO_0001065	GCST001720
1	22.49289	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3920498	EFO_0003923	GCST002493
1	22.58773	colorectal cancer	Al-Tassan NA	20/05/2015	Sci Rep	25990418	rs72647484	EFO_0005842	GCST002919
1	22.69845	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7524102	EFO_0003923	GCST000494
1	22.69845	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs7524102	EFO_0003923	GCST000297
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000180
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000181
1	22.69845	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7524102	EFO_0004339	NA
1	22.69845	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs7524102	EFO_0004229	GCST001144
1	22.69845	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs7524102	EFO_0000729	GCST000964
1	22.70035	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs34920465	EFO_0003923	GCST002276
1	22.70035	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs34920465	EFO_0003767	GCST003043
1	22.70223	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs12568930	EFO_0003767	GCST001725
1	22.70223	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs12568930	EFO_0000729	GCST003045
1	22.70286	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6696981	EFO_0003923	GCST000295
1	22.71147	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6426749	EFO_0003923	GCST001482

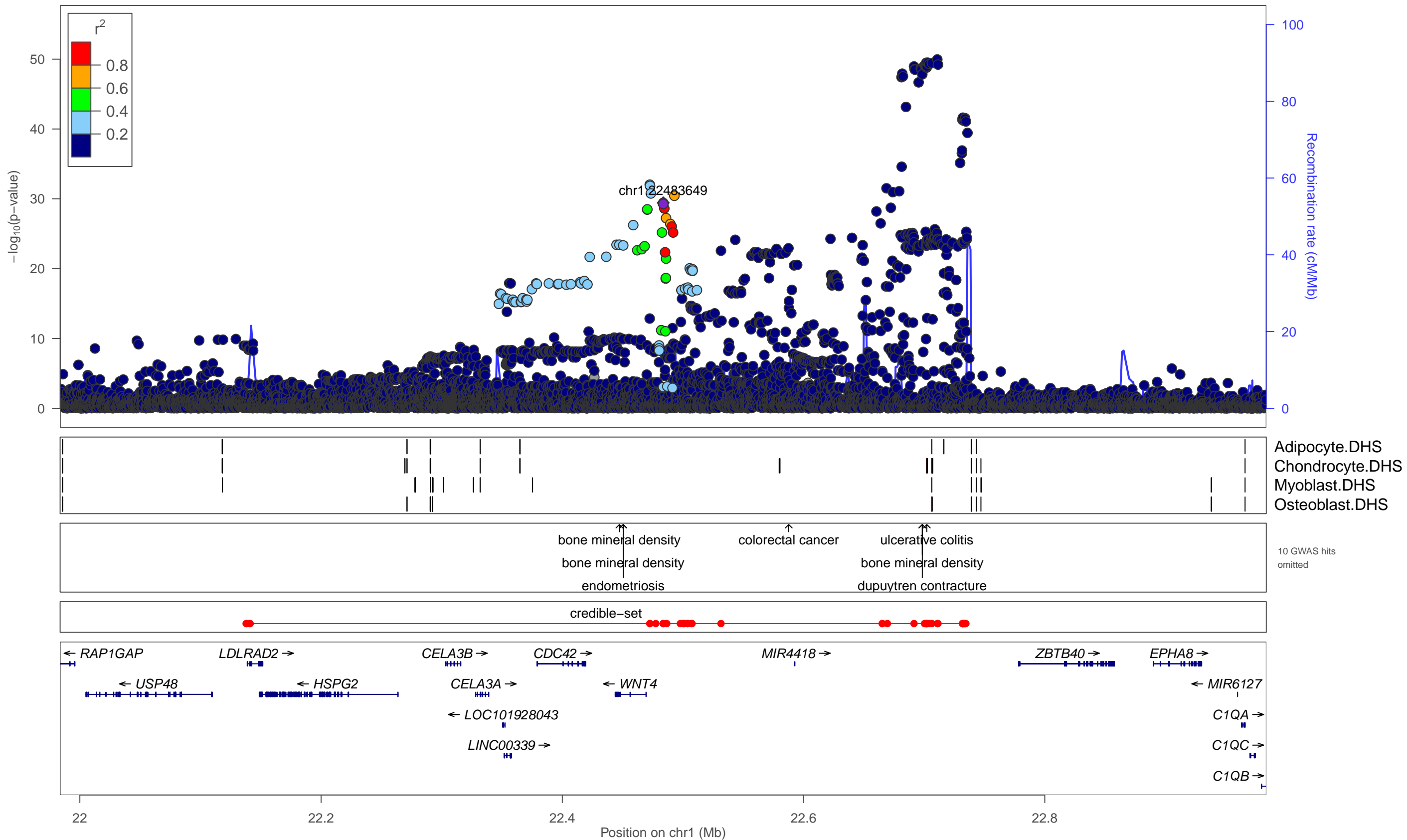
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10737461	1	22.13786	2.6343	credible-set	red
rs6656070	1	22.13847	2.6278	credible-set	red
rs35652739	1	22.14037	3.7998	credible-set	red
rs10917051	1	22.14121	2.2804	credible-set	red
rs7519889	1	22.47251	3.8596	credible-set	red
rs12042083	1	22.47273	3.4539	credible-set	red
rs7542242	1	22.47749	2.0025	credible-set	red
1:22483649_T_TG	1	22.48365	2.8786	credible-set	red
1:22483649_T_TGGGGGG	1	22.48365	3.0851	credible-set	red
rs72865212	1	22.48658	2.0005	credible-set	red
rs116592100	1	22.49786	2.1992	credible-set	red
rs12568557	1	22.50023	2.5700	credible-set	red
rs10489158	1	22.50040	2.3234	credible-set	red
rs141919903	1	22.50136	2.5800	credible-set	red
rs78395981	1	22.50356	2.5467	credible-set	red
rs35431795	1	22.50402	2.3192	credible-set	red
rs733662	1	22.50671	2.1851	credible-set	red
rs11803232	1	22.50758	2.2094	credible-set	red
rs79364962	1	22.53154	3.8616	credible-set	red
rs1934478	1	22.66521	3.4085	credible-set	red
rs10917216	1	22.66540	3.0696	credible-set	red
rs10917217	1	22.66947	3.1016	credible-set	red
rs34920465	1	22.70035	2.1584	credible-set	red
rs11802513	1	22.70115	2.3015	credible-set	red
rs34568051	1	22.70172	2.4131	credible-set	red
rs12751610	1	22.70176	2.7289	credible-set	red
rs34553872	1	22.70219	2.1949	credible-set	red
rs12568930	1	22.70223	2.4037	credible-set	red
rs10493013	1	22.70303	2.6776	credible-set	red
rs11799474	1	22.70419	2.5500	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6684375	1	22.70643	2.6631	credible-set	red
rs34963268	1	22.71088	3.3126	credible-set	red
rs6426749	1	22.71147	2.3679	credible-set	red
rs367874952	1	22.73188	2.6499	credible-set	red
rs371650934	1	22.73188	2.6110	credible-set	red
rs35800687	1	22.73189	2.6390	credible-set	red
rs12132122	1	22.73202	2.8590	credible-set	red
rs12128778	1	22.73207	2.9397	credible-set	red
rs10917225	1	22.73314	2.6064	credible-set	red
rs4654799	1	22.73385	2.8683	credible-set	red
rs4654800	1	22.73388	2.9425	credible-set	red
rs10799749	1	22.73459	2.4213	credible-set	red

eBMD SNP INDEX 006



date: Wed Jun 28 16:22:58 2017

build: hg19

display range: chr1:21983649–22983649 [21983649–22983649]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:22483649

number of SNPs plotted: 7369

min P-value: 1.1E-50 [chr1:22710877]

max P-value: 1E0 [chr1:21989432]

omitted GWAS Hits: chr1:22.587728–colorectal cancer, chr1:22.698447–bone mineral density

omitted GWAS Hits: chr1:22.702231–ulcerative colitis, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002492
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002494
1	22.45049	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2235529	EFO_0003923	GCST002496
1	22.45049	endometriosis	Albertsen HM	5/03/2013	PLoS One	23472165	rs2235529	EFO_0001065	GCST001894
1	22.46822	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs3820282	Orphanet_398934	GCST002748
1	22.49072	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7521902	EFO_0003923	GCST001482
1	22.49072	endometriosis	Nyholt DR	28/10/2012	Nat Genet	23104006	rs7521902	EFO_0001065	GCST001720
1	22.49289	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3920498	EFO_0003923	GCST002493
1	22.58773	colorectal cancer	Al-Tassan NA	20/05/2015	Sci Rep	25990418	rs72647484	EFO_0005842	GCST002919
1	22.69845	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7524102	EFO_0003923	GCST000494
1	22.69845	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs7524102	EFO_0003923	GCST000297
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000180
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000181
1	22.69845	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7524102	EFO_0004339	NA
1	22.69845	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs7524102	EFO_0004229	GCST001144
1	22.69845	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs7524102	EFO_0000729	GCST000964
1	22.70035	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs34920465	EFO_0003923	GCST002276
1	22.70035	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs34920465	EFO_0003767	GCST003043
1	22.70223	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs12568930	EFO_0003767	GCST001725
1	22.70223	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs12568930	EFO_0000729	GCST003045
1	22.70286	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6696981	EFO_0003923	GCST000295
1	22.71147	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6426749	EFO_0003923	GCST001482

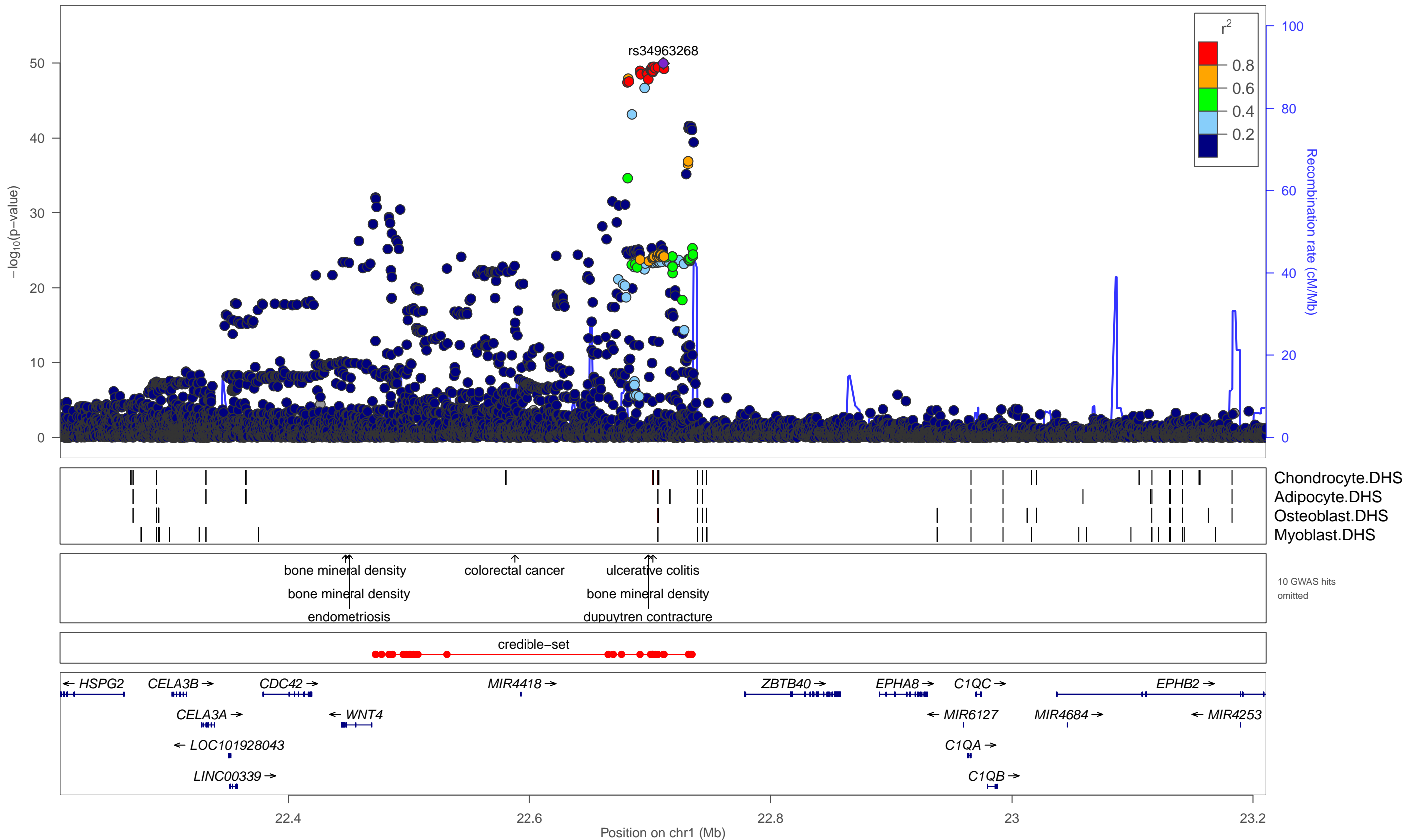
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10737461	1	22.13786	2.5934	credible-set	red
rs6656070	1	22.13847	2.6739	credible-set	red
rs35652739	1	22.14037	3.7895	credible-set	red
rs10917051	1	22.14121	2.2410	credible-set	red
rs7519889	1	22.47251	3.8566	credible-set	red
rs12042083	1	22.47273	3.4576	credible-set	red
rs7542242	1	22.47749	2.2321	credible-set	red
1:22483649_T_TG	1	22.48365	2.8194	credible-set	red
1:22483649_T_TGGGGGG	1	22.48365	3.0562	credible-set	red
rs72865212	1	22.48658	2.2307	credible-set	red
rs116592100	1	22.49786	2.1655	credible-set	red
rs12568557	1	22.50023	2.5781	credible-set	red
rs10489158	1	22.50040	2.2883	credible-set	red
rs141919903	1	22.50136	2.6278	credible-set	red
rs78395981	1	22.50356	2.5611	credible-set	red
rs35431795	1	22.50402	2.3678	credible-set	red
rs733662	1	22.50671	2.1920	credible-set	red
rs11803232	1	22.50758	2.2270	credible-set	red
rs79364962	1	22.53154	3.9062	credible-set	red
rs1934478	1	22.66521	3.3902	credible-set	red
rs10917216	1	22.66540	3.1062	credible-set	red
rs10917217	1	22.66947	3.0997	credible-set	red
rs11810751	1	22.69160	2.0029	credible-set	red
rs34920465	1	22.70035	2.2130	credible-set	red
rs11802513	1	22.70115	2.3497	credible-set	red
rs34568051	1	22.70172	2.4131	credible-set	red
rs12751610	1	22.70176	2.7216	credible-set	red
rs34553872	1	22.70219	2.2186	credible-set	red
rs12568930	1	22.70223	2.4106	credible-set	red
rs10493013	1	22.70303	2.6755	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11799474	1	22.70419	2.5402	credible-set	red
rs6684375	1	22.70643	2.6355	credible-set	red
rs34963268	1	22.71088	3.3024	credible-set	red
rs6426749	1	22.71147	2.3848	credible-set	red
rs367874952	1	22.73188	2.6312	credible-set	red
rs371650934	1	22.73188	2.6416	credible-set	red
rs35800687	1	22.73189	2.6330	credible-set	red
rs12132122	1	22.73202	2.8695	credible-set	red
rs12128778	1	22.73207	2.9369	credible-set	red
rs10917225	1	22.73314	2.5908	credible-set	red
rs4654799	1	22.73385	2.8877	credible-set	red
rs4654800	1	22.73388	2.9228	credible-set	red
rs10799749	1	22.73459	2.4385	credible-set	red

eBMD SNP INDEX 007



date: Wed Jun 28 21:15:44 2017

build: hg19

display range: chr1:22210877–23210877 [22210877–23210877]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:22710877

number of SNPs plotted: 7127

min P-value: 1.1E-50 [chr1:22710877]

max P-value: 1E0 [chr1:22295337]

omitted GWAS Hits: chr1:22.587728–colorectal cancer, chr1:22.698447–bone mineral density

omitted GWAS Hits: chr1:22.702231–ulcerative colitis, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002492
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002494
1	22.45049	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2235529	EFO_0003923	GCST002496
1	22.45049	endometriosis	Albertsen HM	5/03/2013	PLoS One	23472165	rs2235529	EFO_0001065	GCST001894
1	22.46822	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs3820282	Orphanet_398934	GCST002748
1	22.49072	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7521902	EFO_0003923	GCST001482
1	22.49072	endometriosis	Nyholt DR	28/10/2012	Nat Genet	23104006	rs7521902	EFO_0001065	GCST001720
1	22.49289	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3920498	EFO_0003923	GCST002493
1	22.58773	colorectal cancer	Al-Tassan NA	20/05/2015	Sci Rep	25990418	rs72647484	EFO_0005842	GCST002919
1	22.69845	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7524102	EFO_0003923	GCST000494
1	22.69845	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs7524102	EFO_0003923	GCST000297
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000180
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000181
1	22.69845	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7524102	EFO_0004339	NA
1	22.69845	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs7524102	EFO_0004229	GCST001144
1	22.69845	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs7524102	EFO_0000729	GCST000964
1	22.70035	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs34920465	EFO_0003923	GCST002276
1	22.70035	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs34920465	EFO_0003767	GCST003043
1	22.70223	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs12568930	EFO_0003767	GCST001725
1	22.70223	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs12568930	EFO_0000729	GCST003045
1	22.70286	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6696981	EFO_0003923	GCST000295
1	22.71147	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6426749	EFO_0003923	GCST001482

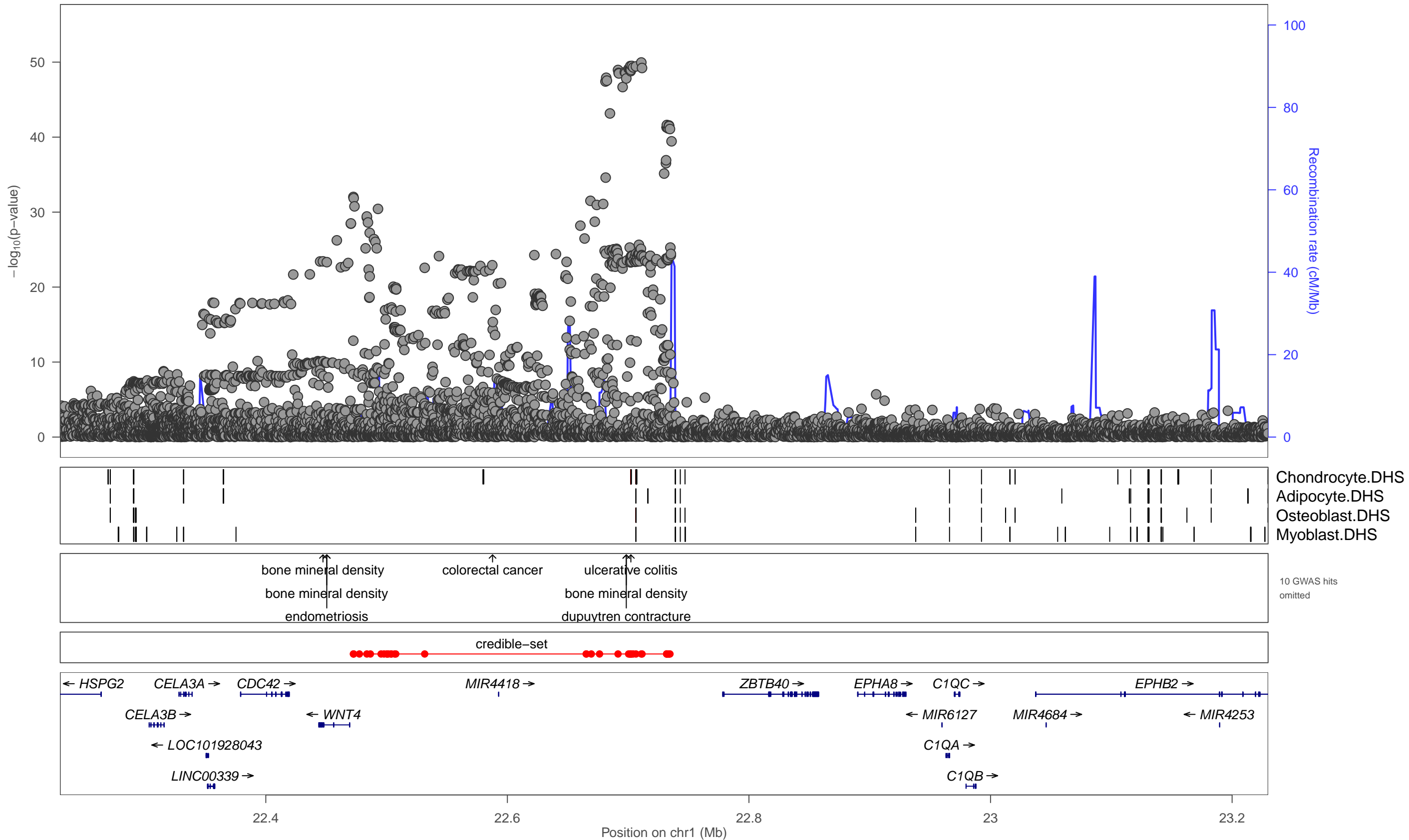
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7519889	1	22.47251	3.7930	credible-set	red
rs12042083	1	22.47273	3.4732	credible-set	red
rs7542242	1	22.47749	2.1698	credible-set	red
1:22483649_T_TG	1	22.48365	2.1567	credible-set	red
1:22483649_T_TGGGGGG	1	22.48365	2.2990	credible-set	red
rs72865212	1	22.48658	2.1406	credible-set	red
rs71925233	1	22.49544	2.0588	credible-set	red
rs116592100	1	22.49786	2.4657	credible-set	red
rs12568557	1	22.50023	2.6762	credible-set	red
rs10489158	1	22.50040	2.4286	credible-set	red
rs141919903	1	22.50136	2.8269	credible-set	red
rs78395981	1	22.50356	2.7638	credible-set	red
rs35431795	1	22.50402	2.5805	credible-set	red
rs733662	1	22.50671	2.4382	credible-set	red
rs11803232	1	22.50758	2.4653	credible-set	red
rs79364962	1	22.53154	4.6340	credible-set	red
rs1934478	1	22.66521	3.4977	credible-set	red
rs10917216	1	22.66540	3.2200	credible-set	red
rs10917217	1	22.66947	3.1258	credible-set	red
rs4233285	1	22.67629	2.0179	credible-set	red
rs11810751	1	22.69160	2.0624	credible-set	red
rs34920465	1	22.70035	2.2370	credible-set	red
rs11802513	1	22.70115	2.3349	credible-set	red
rs34568051	1	22.70172	2.4394	credible-set	red
rs12751610	1	22.70176	2.6789	credible-set	red
rs12563939	1	22.70208	2.0300	credible-set	red
rs34553872	1	22.70219	2.2685	credible-set	red
rs12568930	1	22.70223	2.4065	credible-set	red
rs10493013	1	22.70303	2.6577	credible-set	red
rs11799474	1	22.70419	2.5618	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6684375	1	22.70643	2.6341	credible-set	red
rs34963268	1	22.71088	3.1773	credible-set	red
rs6426749	1	22.71147	2.4005	credible-set	red
rs367874952	1	22.73188	2.6314	credible-set	red
rs371650934	1	22.73188	2.6184	credible-set	red
rs35800687	1	22.73189	2.6303	credible-set	red
rs12132122	1	22.73202	2.8360	credible-set	red
rs12128778	1	22.73207	2.8928	credible-set	red
rs10917225	1	22.73314	2.5927	credible-set	red
rs4654799	1	22.73385	2.8736	credible-set	red
rs4654800	1	22.73388	2.9191	credible-set	red
rs10799749	1	22.73459	2.4923	credible-set	red

eBMD SNP INDEX 008



date: Wed Jun 28 21:15:41 2017

build: hg19

display range: chr1:22229793–23229793 [22229793–23229793]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:22729793

number of SNPs plotted: 7114

min P-value: 1.1E-50 [chr1:22710877]

max P-value: 1E0 [chr1:22295337]

omitted GWAS Hits: chr1:22.587728–colorectal cancer, chr1:22.698447–bone mineral density

omitted GWAS Hits: chr1:22.702231–ulcerative colitis, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002492
1	22.44732	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3765350	EFO_0003923	GCST002494
1	22.45049	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2235529	EFO_0003923	GCST002496
1	22.45049	endometriosis	Albertsen HM	5/03/2013	PLoS One	23472165	rs2235529	EFO_0001065	GCST001894
1	22.46822	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs3820282	Orphanet_398934	GCST002748
1	22.49072	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7521902	EFO_0003923	GCST001482
1	22.49072	endometriosis	Nyholt DR	28/10/2012	Nat Genet	23104006	rs7521902	EFO_0001065	GCST001720
1	22.49289	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3920498	EFO_0003923	GCST002493
1	22.58773	colorectal cancer	Al-Tassan NA	20/05/2015	Sci Rep	25990418	rs72647484	EFO_0005842	GCST002919
1	22.69845	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7524102	EFO_0003923	GCST000494
1	22.69845	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs7524102	EFO_0003923	GCST000297
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000180
1	22.69845	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs7524102	EFO_0003923	GCST000181
1	22.69845	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7524102	EFO_0004339	NA
1	22.69845	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs7524102	EFO_0004229	GCST001144
1	22.69845	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs7524102	EFO_0000729	GCST000964
1	22.70035	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs34920465	EFO_0003923	GCST002276
1	22.70035	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs34920465	EFO_0003767	GCST003043
1	22.70223	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs12568930	EFO_0003767	GCST001725
1	22.70223	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs12568930	EFO_0000729	GCST003045
1	22.70286	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6696981	EFO_0003923	GCST000295
1	22.71147	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6426749	EFO_0003923	GCST001482

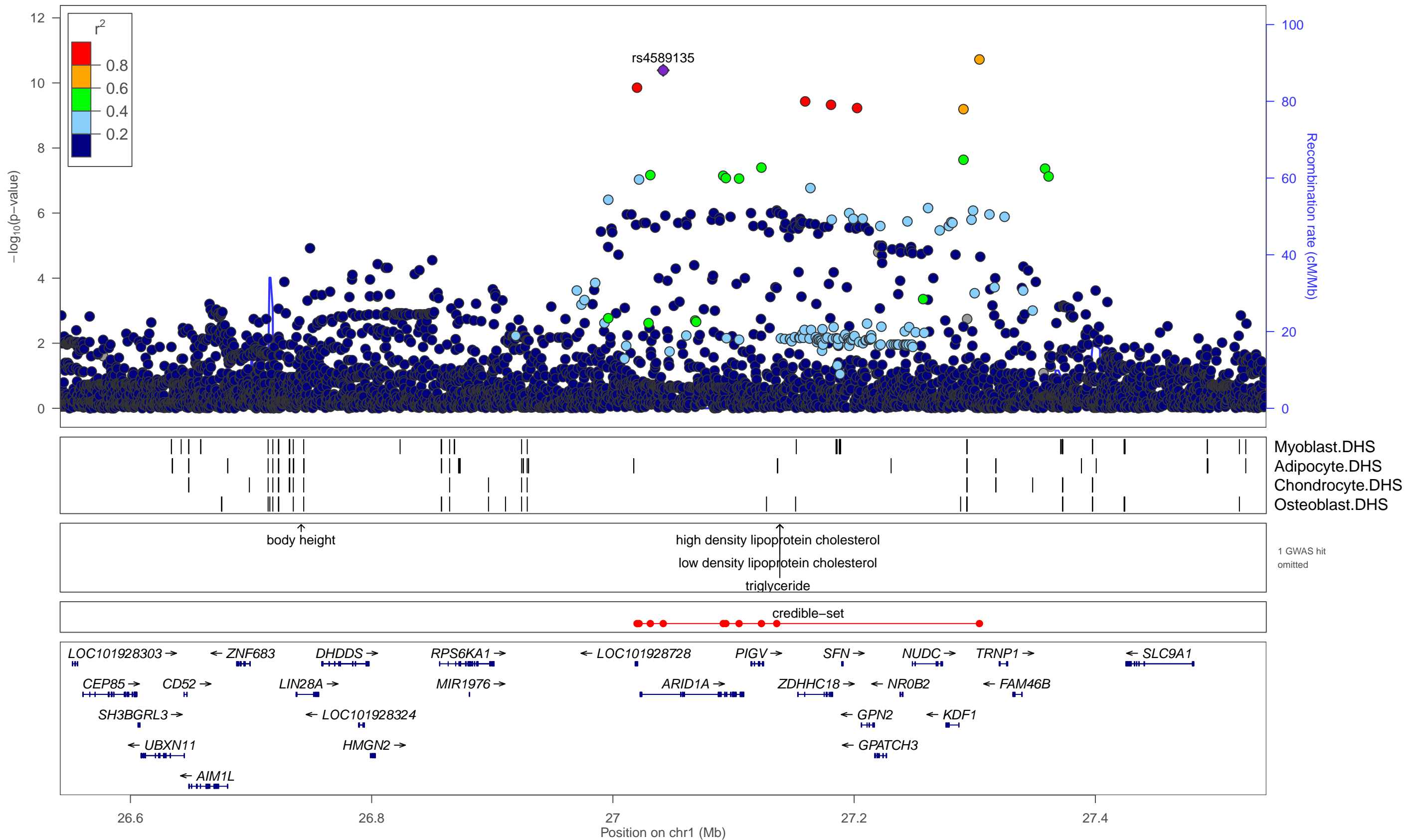
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7519889	1	22.47251	3.7884	credible-set	red
rs12042083	1	22.47273	3.4712	credible-set	red
rs7542242	1	22.47749	2.0709	credible-set	red
1:22483649_T_TGGGGGG	1	22.48365	2.2835	credible-set	red
rs72865212	1	22.48658	2.0338	credible-set	red
rs71925233	1	22.49544	2.0608	credible-set	red
rs116592100	1	22.49786	2.4768	credible-set	red
rs12568557	1	22.50023	2.6983	credible-set	red
rs10489158	1	22.50040	2.4502	credible-set	red
rs141919903	1	22.50136	2.8422	credible-set	red
rs78395981	1	22.50356	2.7725	credible-set	red
rs35431795	1	22.50402	2.5968	credible-set	red
rs733662	1	22.50671	2.4414	credible-set	red
rs11803232	1	22.50758	2.4778	credible-set	red
rs79364962	1	22.53154	4.7256	credible-set	red
rs1934478	1	22.66521	3.5060	credible-set	red
rs10917216	1	22.66540	3.2228	credible-set	red
rs10917217	1	22.66947	3.1264	credible-set	red
rs4233285	1	22.67629	2.0080	credible-set	red
rs11810751	1	22.69160	2.0713	credible-set	red
rs34920465	1	22.70035	2.2281	credible-set	red
rs11802513	1	22.70115	2.3416	credible-set	red
rs34568051	1	22.70172	2.4351	credible-set	red
rs12751610	1	22.70176	2.6909	credible-set	red
rs12563939	1	22.70208	2.0238	credible-set	red
rs34553872	1	22.70219	2.2504	credible-set	red
rs12568930	1	22.70223	2.4006	credible-set	red
rs10493013	1	22.70303	2.6667	credible-set	red
rs11799474	1	22.70419	2.5660	credible-set	red
rs6684375	1	22.70643	2.6215	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34963268	1	22.71088	3.1682	credible-set	red
rs6426749	1	22.71147	2.4091	credible-set	red
rs367874952	1	22.73188	2.6239	credible-set	red
rs371650934	1	22.73188	2.6295	credible-set	red
rs35800687	1	22.73189	2.6359	credible-set	red
rs12132122	1	22.73202	2.8317	credible-set	red
rs12128778	1	22.73207	2.8880	credible-set	red
rs10917225	1	22.73314	2.5873	credible-set	red
rs4654799	1	22.73385	2.8755	credible-set	red
rs4654800	1	22.73388	2.9215	credible-set	red
rs10799749	1	22.73459	2.4906	credible-set	red

eBMD SNP INDEX 009



date: Wed Jun 28 21:15:43 2017

build: hg19

display range: chr1:26541714–27541714 [26541714–27541714]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:27041714

number of SNPs plotted: 4906

min P-value: 1.9E-11 [chr1:27303884]

max P-value: 1E0 [chr1:26549510]

omitted GWAS Hits: NA

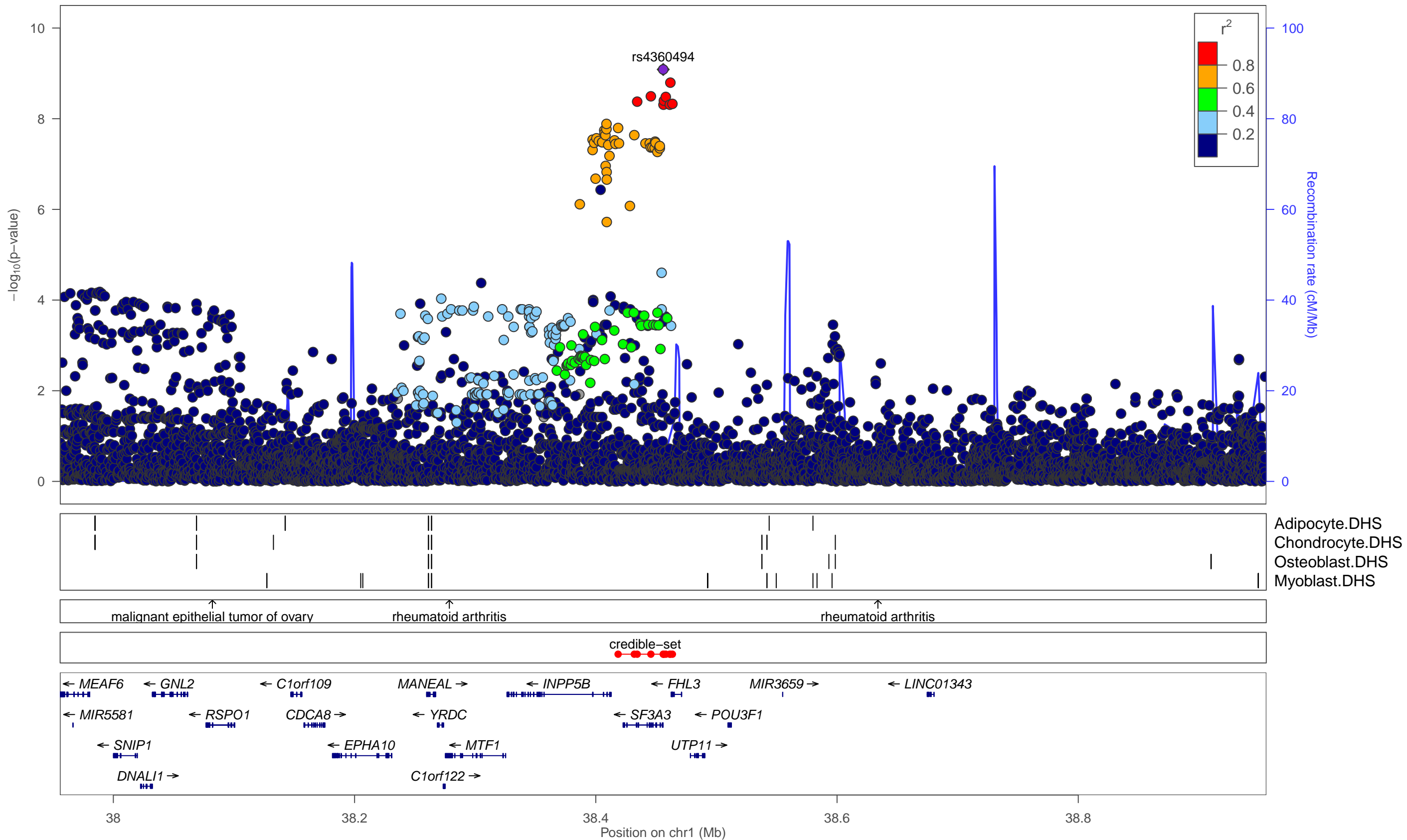
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	26.74154	body height	Lango Allen H	29/09/2010	Nature	20881960	rs7532866	EFO_0004339	GCST000817
1	27.13839	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs12748152	EFO_0004612	GCST002223
1	27.13839	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs12748152	EFO_0004611	GCST002222
1	27.13839	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs12748152	EFO_0004530	GCST002216
1	27.28491	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs79598313	EFO_0004611	GCST002898

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4466675	1	27.02001	2.3012	credible-set	red
rs6598860	1	27.02168	2.4299	credible-set	red
rs72651559	1	27.03103	2.5264	credible-set	red
rs4589135	1	27.04171	2.8844	credible-set	red
rs201261997	1	27.09150	2.5042	credible-set	red
rs11247596	1	27.09366	2.2823	credible-set	red
rs11802776	1	27.10461	2.3781	credible-set	red
rs76388446	1	27.12314	2.7406	credible-set	red
rs140972778	1	27.13584	2.0229	credible-set	red
rs3010106	1	27.30388	2.3914	credible-set	red

eBMD SNP INDEX 010



date: Wed Jun 28 21:15:51 2017

build: hg19

display range: chr1:37955891–38955891 [37955891–38955891]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:38455891

number of SNPs plotted: 5932

min P-value: 8.2E-10 [chr1:38455891]

max P-value: 1E0 [chr1:38045326]

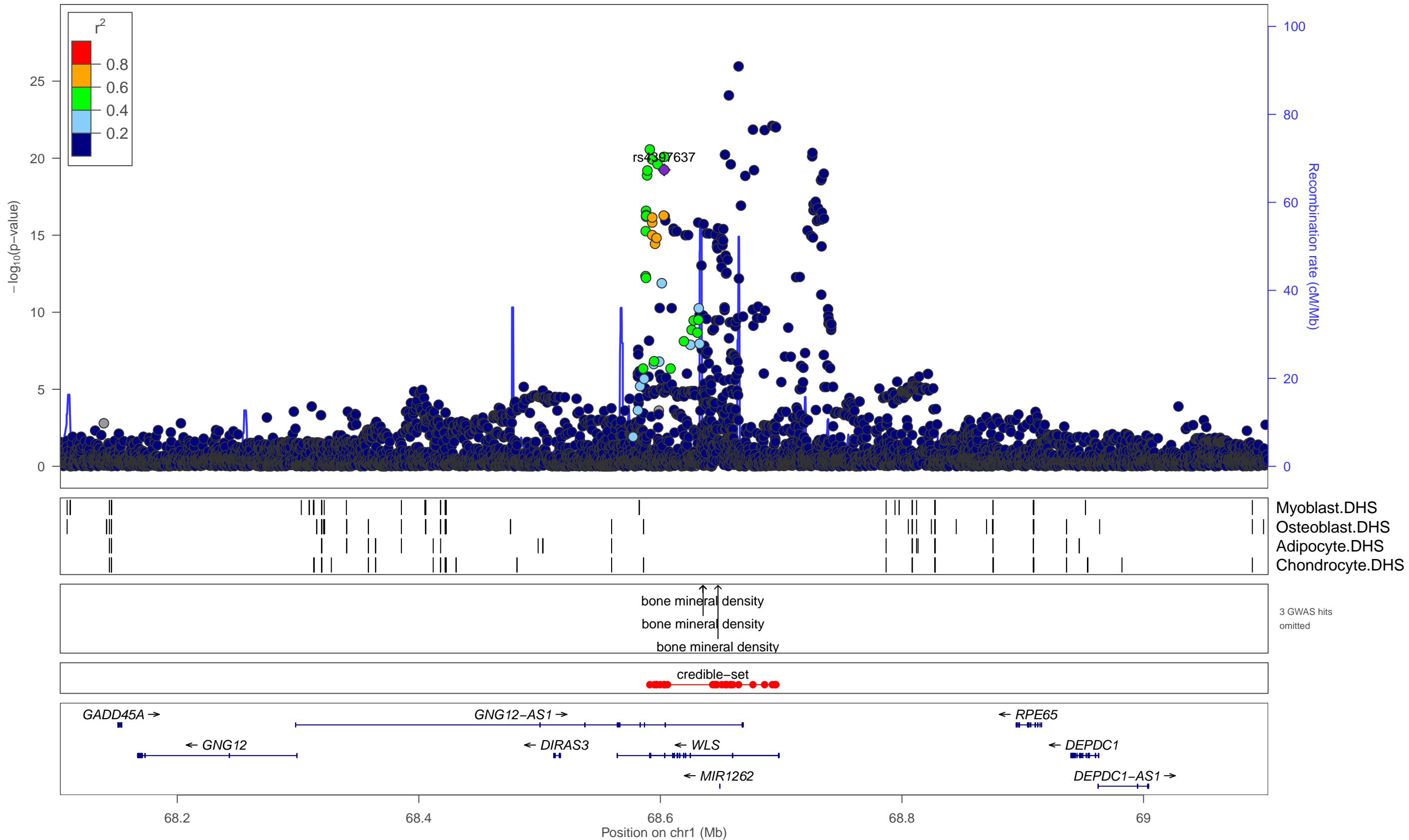
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	38.08212	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs12039431	Orphanet_398934	GCST002748
1	38.27858	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs28411352	EFO_0000685	GCST002318
1	38.63388	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs12140275	EFO_0000685	GCST002318

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17465651	1	38.41850	2.2793	credible-set	red
rs67524417	1	38.43191	2.1131	credible-set	red
rs28428561	1	38.43431	2.3578	credible-set	red
rs10890238	1	38.44565	2.4868	credible-set	red
rs4360494	1	38.45589	2.8415	credible-set	red
rs4072980	1	38.45611	2.1793	credible-set	red
rs150361750	1	38.45644	2.2736	credible-set	red
rs67963450	1	38.45802	2.1757	credible-set	red
rs61776719	1	38.46132	2.0058	credible-set	red
rs67631072	1	38.46182	2.5142	credible-set	red
rs7366048	1	38.46350	2.1649	credible-set	red

eBMD SNP INDEX 011



date: Wed Jun 28 21:15:49 2017

build: hg19

display range: chr1:68103131–69103131 [68103131–69103131]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:68603131

number of SNPs plotted: 6362

min P-value: 1.1E-26 [chr1:68664755]

max P-value: 1E0 [chr1:68111544]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	68.63508	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1430742	EFO_0003923	GCST000494
1	68.63539	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2566755	EFO_0003923	GCST000495
1	68.64772	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs12407028	EFO_0003923	GCST001482
1	68.65670	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2566752	EFO_0004339	NA
1	68.65670	spine bone mineral density	Mullin BH	25/02/2016	BMC Genomics	26911590	rs2566752	EFO_0007701	GCST003380
1	68.65751	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1430740	EFO_0003923	GCST002276

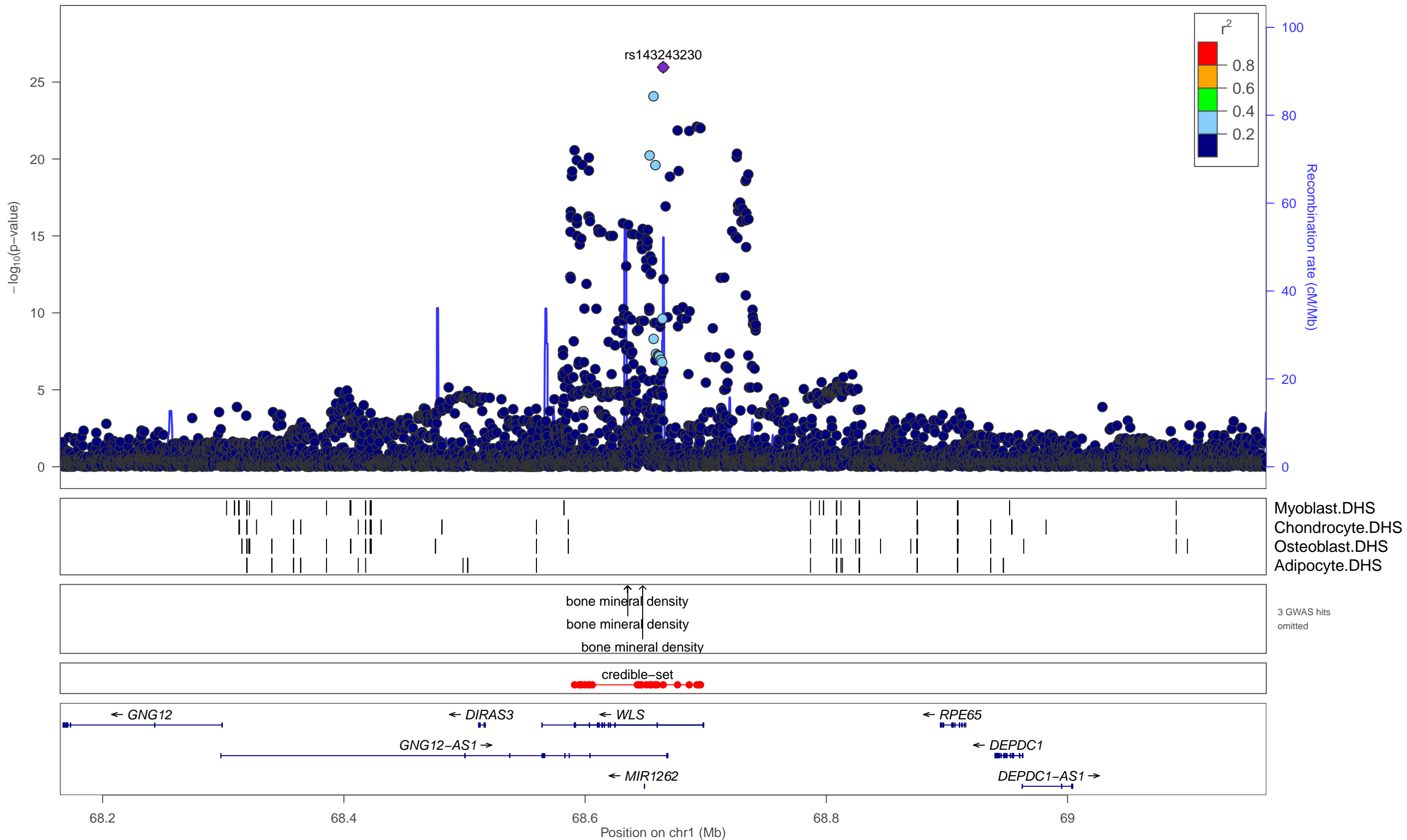
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7062	1	68.59125	2.1609	credible-set	red
rs140577719	1	68.59501	2.5898	credible-set	red
rs2566779	1	68.59673	3.0005	credible-set	red
rs67485371	1	68.59678	2.1191	credible-set	red
rs5774913	1	68.59689	3.2548	credible-set	red
rs2566783	1	68.59989	2.6547	credible-set	red
rs714281	1	68.60292	2.7358	credible-set	red
rs4397637	1	68.60313	4.6457	credible-set	red
rs983034	1	68.60359	2.2910	credible-set	red
rs2566787	1	68.60596	2.1914	credible-set	red
rs59795853	1	68.64327	2.0991	credible-set	red
rs17542364	1	68.64392	2.0369	credible-set	red
rs729885	1	68.64549	2.1613	credible-set	red
rs17130550	1	68.64576	2.1179	credible-set	red
rs113034101	1	68.64634	2.5887	credible-set	red
rs17130551	1	68.64675	2.1469	credible-set	red
rs80062389	1	68.65072	2.1886	credible-set	red
rs75433566	1	68.65361	2.2154	credible-set	red
rs1430741	1	68.65428	2.0356	credible-set	red
rs1835456	1	68.65437	2.2540	credible-set	red
rs139643021	1	68.65501	3.2608	credible-set	red
rs77489034	1	68.65794	2.4381	credible-set	red
rs141947484	1	68.65827	2.2534	credible-set	red
rs3748703	1	68.65998	2.3582	credible-set	red
rs143243230	1	68.66475	5.7975	credible-set	red
rs12031253	1	68.67665	2.6643	credible-set	red
rs11209233	1	68.68631	2.6380	credible-set	red
rs1430753	1	68.69264	3.0571	credible-set	red
rs2566774	1	68.69488	3.0526	credible-set	red
rs4655578	1	68.69524	2.9341	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4655579	1	68.69572	2.9489	credible-set	red

eBMD SNP INDEX 012



date: Wed Jun 28 21:15:53 2017

build: hg19

display range: chr1:68164755–69164755 [68164755–69164755]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:68664755

number of SNPs plotted: 6367

min P-value: 1.1E-26 [chr1:68664755]

max P-value: 1E0 [chr1:68170470]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	68.63508	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1430742	EFO_0003923	GCST000494
1	68.63539	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2566755	EFO_0003923	GCST000495
1	68.64772	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs12407028	EFO_0003923	GCST001482
1	68.65670	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2566752	EFO_0004339	NA
1	68.65670	spine bone mineral density	Mullin BH	25/02/2016	BMC Genomics	26911590	rs2566752	EFO_0007701	GCST003380
1	68.65751	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1430740	EFO_0003923	GCST002276

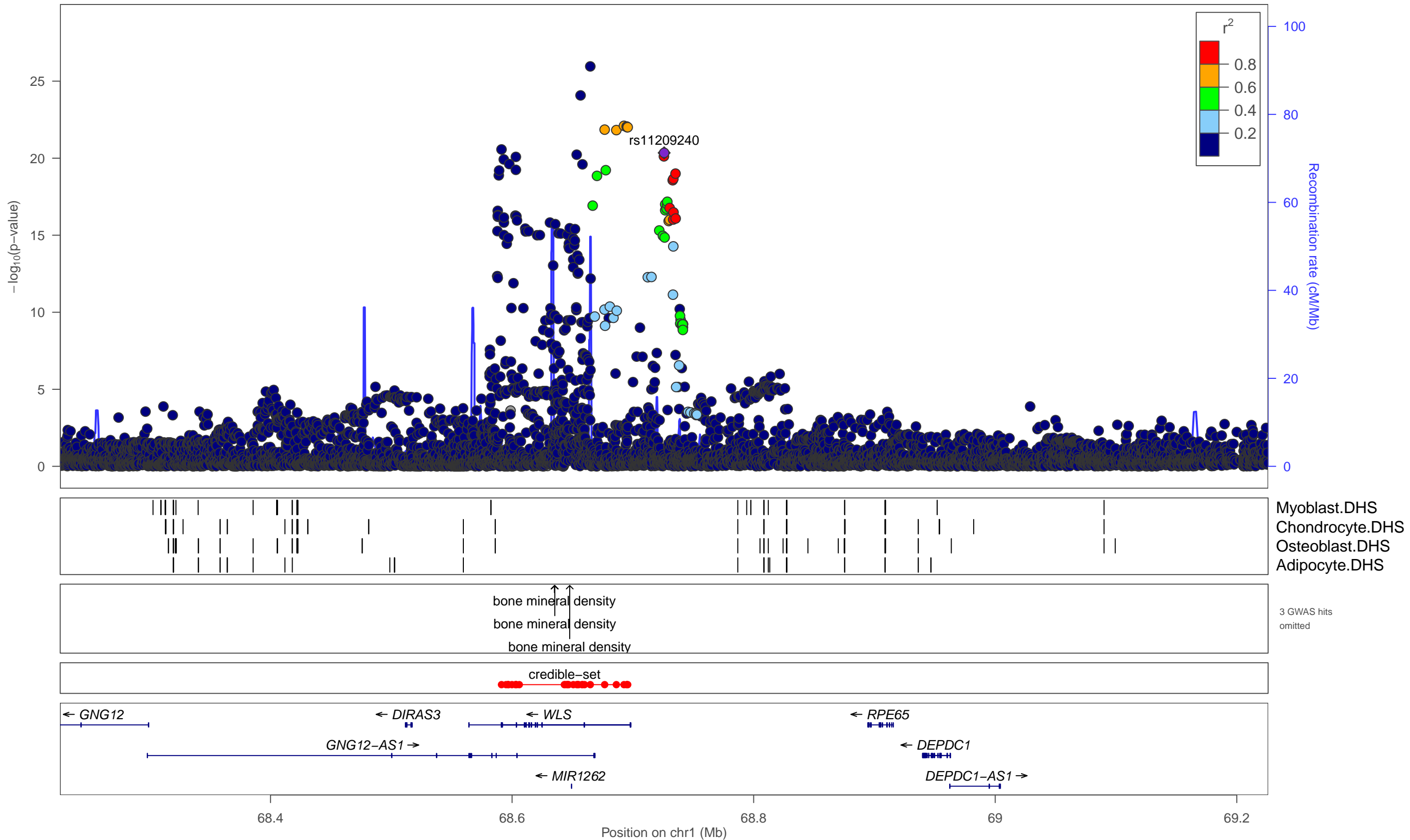
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7062	1	68.59125	2.1572	credible-set	red
rs140577719	1	68.59501	2.5906	credible-set	red
rs2566779	1	68.59673	3.0002	credible-set	red
rs67485371	1	68.59678	2.1140	credible-set	red
rs5774913	1	68.59689	3.2545	credible-set	red
rs2566783	1	68.59989	2.6544	credible-set	red
rs714281	1	68.60292	2.7541	credible-set	red
rs4397637	1	68.60313	4.6558	credible-set	red
rs983034	1	68.60359	2.2714	credible-set	red
rs2566787	1	68.60596	2.1879	credible-set	red
rs59795853	1	68.64327	2.0894	credible-set	red
rs17542364	1	68.64392	2.0534	credible-set	red
rs729885	1	68.64549	2.1636	credible-set	red
rs17130550	1	68.64576	2.1349	credible-set	red
rs113034101	1	68.64634	2.5685	credible-set	red
rs17130551	1	68.64675	2.1737	credible-set	red
rs80062389	1	68.65072	2.1914	credible-set	red
rs75433566	1	68.65361	2.2322	credible-set	red
rs1430741	1	68.65428	2.0488	credible-set	red
rs1835456	1	68.65437	2.2631	credible-set	red
rs139643021	1	68.65501	3.2508	credible-set	red
rs77489034	1	68.65794	2.4561	credible-set	red
rs141947484	1	68.65827	2.2547	credible-set	red
rs3748703	1	68.65998	2.3691	credible-set	red
rs143243230	1	68.66475	5.7965	credible-set	red
rs12031253	1	68.67665	2.6751	credible-set	red
rs11209233	1	68.68631	2.6391	credible-set	red
rs1430753	1	68.69264	3.0695	credible-set	red
rs2566774	1	68.69488	3.0452	credible-set	red
rs4655578	1	68.69524	2.9272	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4655579	1	68.69572	2.9449	credible-set	red

eBMD SNP INDEX 013



date: Wed Jun 28 21:15:58 2017

build: hg19

display range: chr1:68225907–69225907 [68225907–69225907]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:68725907

number of SNPs plotted: 6343

min P-value: 1.1E-26 [chr1:68664755]

max P-value: 1E0 [chr1:68274868]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	68.63508	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1430742	EFO_0003923	GCST000494
1	68.63539	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2566755	EFO_0003923	GCST000495
1	68.64772	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs12407028	EFO_0003923	GCST001482
1	68.65670	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2566752	EFO_0004339	NA
1	68.65670	spine bone mineral density	Mullin BH	25/02/2016	BMC Genomics	26911590	rs2566752	EFO_0007701	GCST003380
1	68.65751	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1430740	EFO_0003923	GCST002276

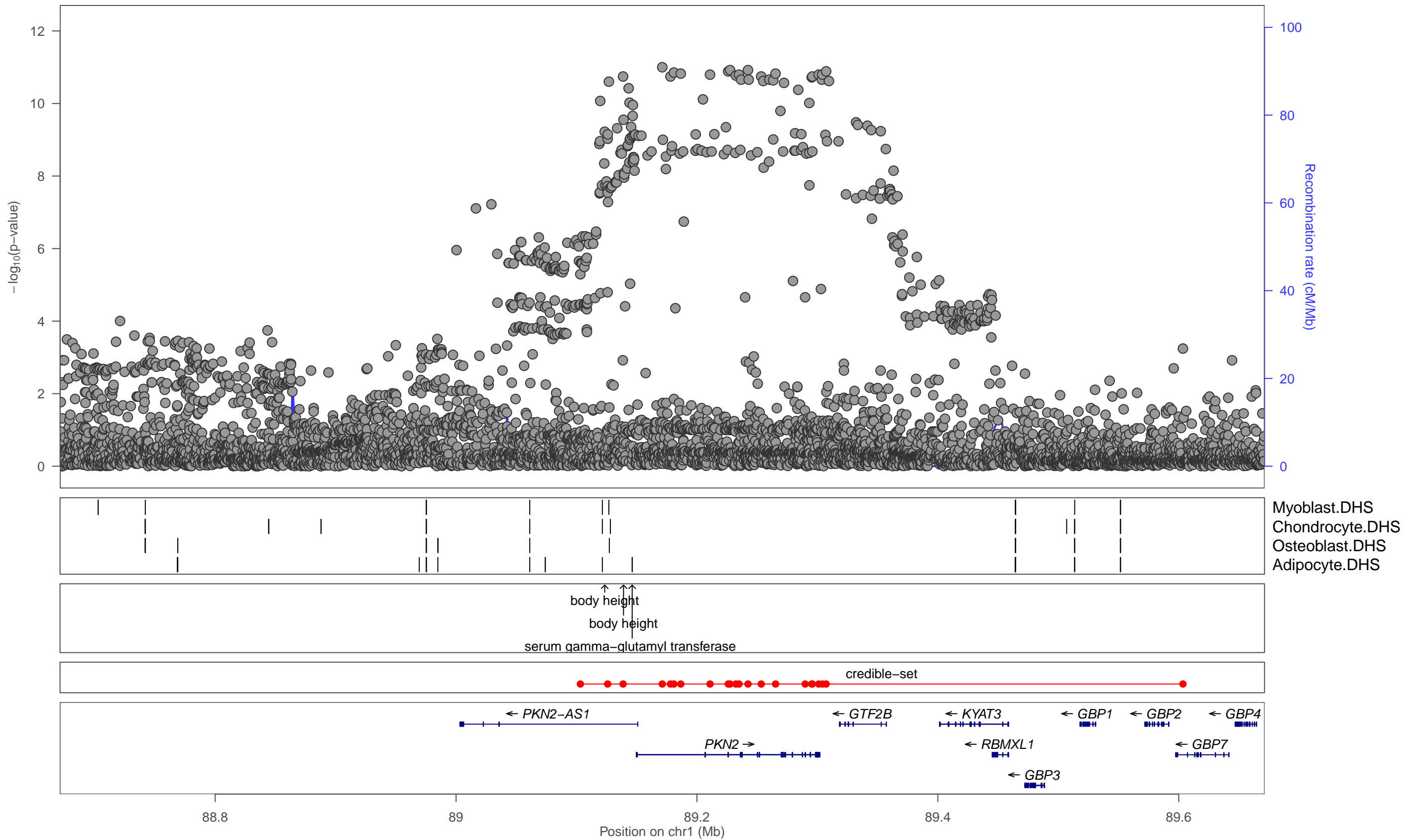
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7062	1	68.59125	2.1525	credible-set	red
rs140577719	1	68.59501	2.5950	credible-set	red
rs2566779	1	68.59673	2.9830	credible-set	red
rs67485371	1	68.59678	2.1162	credible-set	red
rs5774913	1	68.59689	3.2545	credible-set	red
rs2566783	1	68.59989	2.6454	credible-set	red
rs714281	1	68.60292	2.7590	credible-set	red
rs4397637	1	68.60313	4.6337	credible-set	red
rs983034	1	68.60359	2.3134	credible-set	red
rs2566787	1	68.60596	2.1760	credible-set	red
rs59795853	1	68.64327	2.0893	credible-set	red
rs17542364	1	68.64392	2.0384	credible-set	red
rs729885	1	68.64549	2.1635	credible-set	red
rs17130550	1	68.64576	2.1065	credible-set	red
rs113034101	1	68.64634	2.5745	credible-set	red
rs17130551	1	68.64675	2.1705	credible-set	red
rs80062389	1	68.65072	2.1898	credible-set	red
rs75433566	1	68.65361	2.2124	credible-set	red
rs1430741	1	68.65428	2.0337	credible-set	red
rs1835456	1	68.65437	2.2786	credible-set	red
rs139643021	1	68.65501	3.2560	credible-set	red
rs77489034	1	68.65794	2.4507	credible-set	red
rs141947484	1	68.65827	2.2490	credible-set	red
rs3748703	1	68.65998	2.3391	credible-set	red
rs143243230	1	68.66475	5.7824	credible-set	red
rs12031253	1	68.67665	2.6646	credible-set	red
rs11209233	1	68.68631	2.6352	credible-set	red
rs1430753	1	68.69264	3.0643	credible-set	red
rs2566774	1	68.69488	3.0475	credible-set	red
rs4655578	1	68.69524	2.9365	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4655579	1	68.69572	2.939	credible-set	red

eBMD SNP INDEX 014



date: Wed Jun 28 21:15:55 2017

build: hg19

display range: chr1:88671221–89671221 [88671221–89671221]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:89171221

number of SNPs plotted: 5602

min P-value: 1E-11 [chr1:89171220]

max P-value: 1E0 [chr1:88673105]

Warning: No usable LD information for reference SNP.

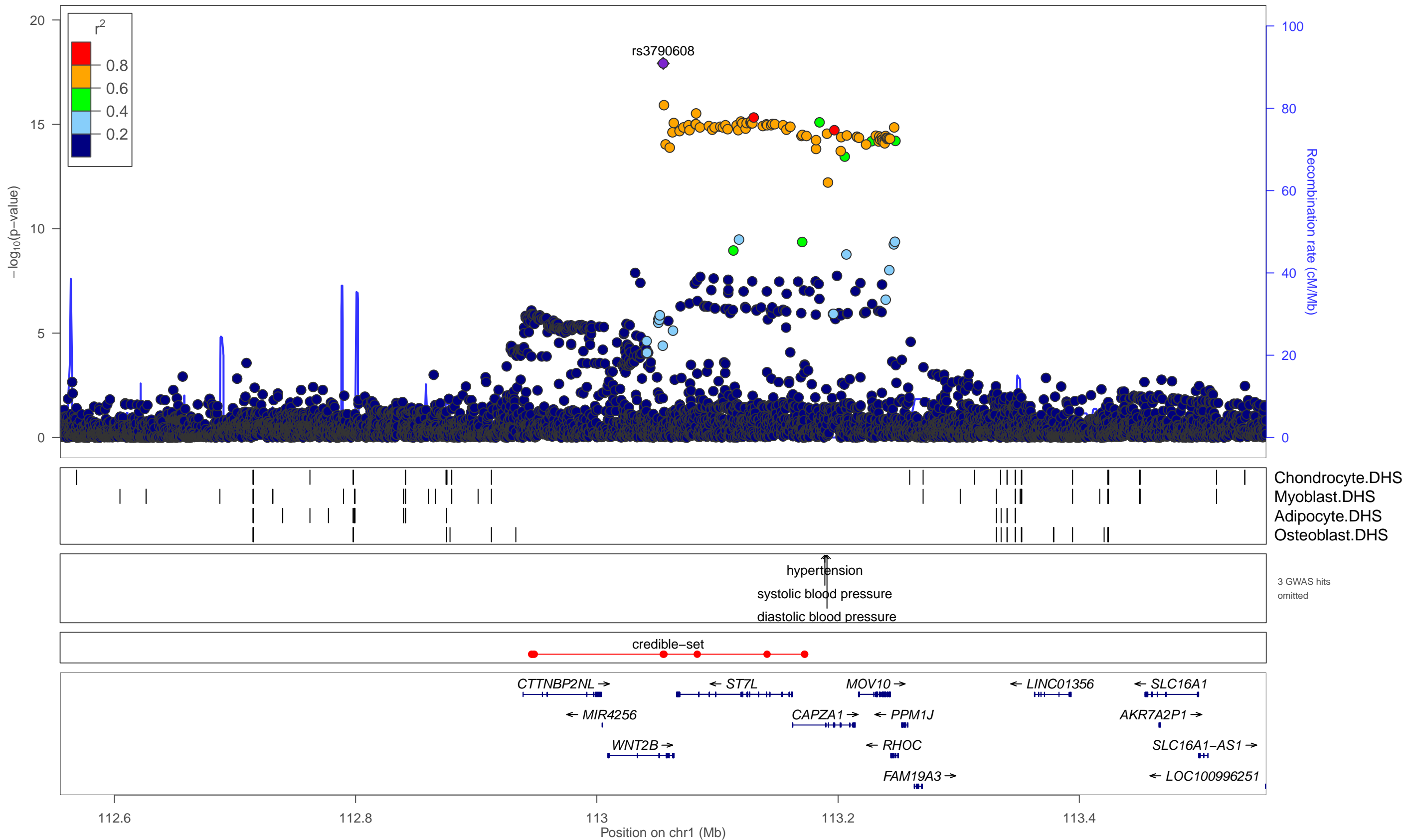
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	89.12344	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6699417	EFO_0004339	GCST000817
1	89.13904	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs7551732	EFO_0004339	GCST002647
1	89.14623	serum gamma-glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs12145922	EFO_0004532	GCST001277

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs184835307	1	89.10322	3.3581	credible-set	red
1:89125875_C_A	1	89.12587	2.5882	credible-set	red
rs57688553	1	89.13869	2.0544	credible-set	red
rs56969212	1	89.17122	2.3268	credible-set	red
rs305227	1	89.17800	2.0580	credible-set	red
rs167365	1	89.18085	2.1722	credible-set	red
rs305226	1	89.18657	2.1405	credible-set	red
rs305219	1	89.21086	2.1072	credible-set	red
rs430600	1	89.22598	2.2058	credible-set	red
rs384804	1	89.22751	2.2426	credible-set	red
rs634683	1	89.23234	2.0820	credible-set	red
rs444329	1	89.23491	2.1107	credible-set	red
rs805047	1	89.24237	2.2399	credible-set	red
rs786908	1	89.25336	2.0570	credible-set	red
rs786911	1	89.26525	2.1400	credible-set	red
rs185836391	1	89.28984	2.4649	credible-set	red
rs786913	1	89.29533	2.0321	credible-set	red
rs786914	1	89.29577	2.0569	credible-set	red
rs786912	1	89.30112	2.1105	credible-set	red
rs10922492	1	89.30406	2.1105	credible-set	red
rs10801687	1	89.30726	2.2058	credible-set	red
rs200801681	1	89.60350	2.0616	credible-set	red

eBMD SNP INDEX 015



date: Wed Jun 28 21:16:05 2017

build: hg19

display range: chr1:112555023–113555023 [112555023–113555023]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:113055023

number of SNPs plotted: 6034

min P-value: 1.2E-18 [chr1:113055023]

max P-value: 1E0 [chr1:112560174]

omitted GWAS Hits: NA, NA

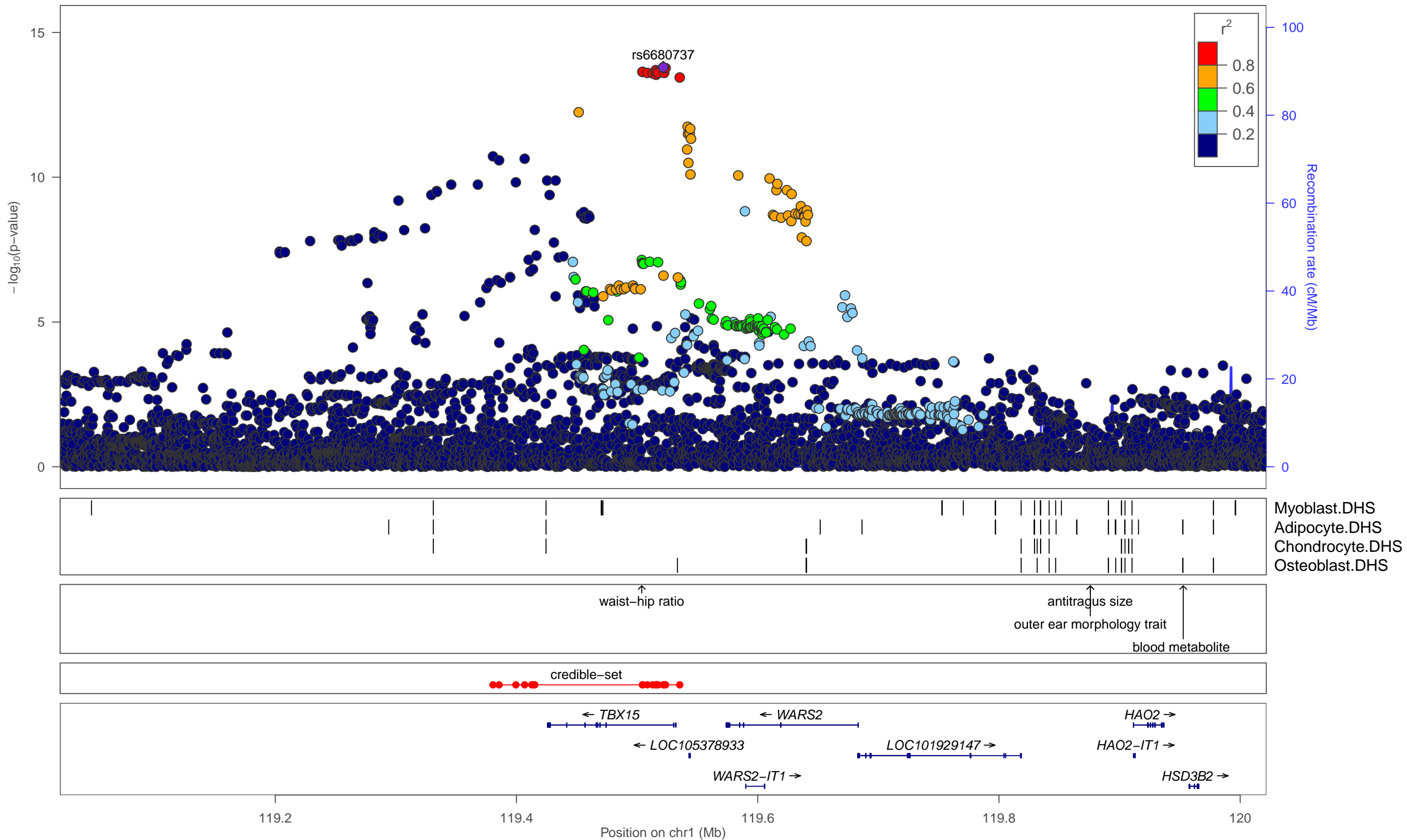
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	113.1891	hypertension	Lu X	23/09/2014	Hum Mol Genet	25249183	rs10745332	EFO_0000537	GCST002627
1	113.1891	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs10745332	EFO_0006335	GCST002630
1	113.1908	diastolic blood pressure	Kato N	15/05/2011	Nat Genet	21572416	rs17030613	EFO_0006336	GCST001074
1	113.2026	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs12120956	EFO_0004339	GCST002647
1	113.2165	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs2932538	EFO_0006336	GCST001228
1	113.2165	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs2932538	EFO_0006335	GCST001227

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2488758	1	112.9460	2.0587	credible-set	red
rs10634071	1	112.9460	2.0294	credible-set	red
rs2999476	1	112.9475	2.0256	credible-set	red
rs3122287	1	112.9481	2.0094	credible-set	red
rs3790608	1	113.0550	3.6543	credible-set	red
rs12138754	1	113.0557	3.4935	credible-set	red
rs77369880	1	113.0832	2.0347	credible-set	red
rs74806438	1	113.1411	2.3618	credible-set	red
rs78610603	1	113.1723	2.6425	credible-set	red
rs113862784	1	113.1723	2.5906	credible-set	red

eBMD SNP INDEX 016



date: Wed Jun 28 21:16:05 2017

build: hg19

display range: chr1:119021631–120021631 [119021631–120021631]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:119521631

number of SNPs plotted: 5793

min P-value: 1.6E-14 [chr1:119521631]

max P-value: 1E0 [chr1:119097362]

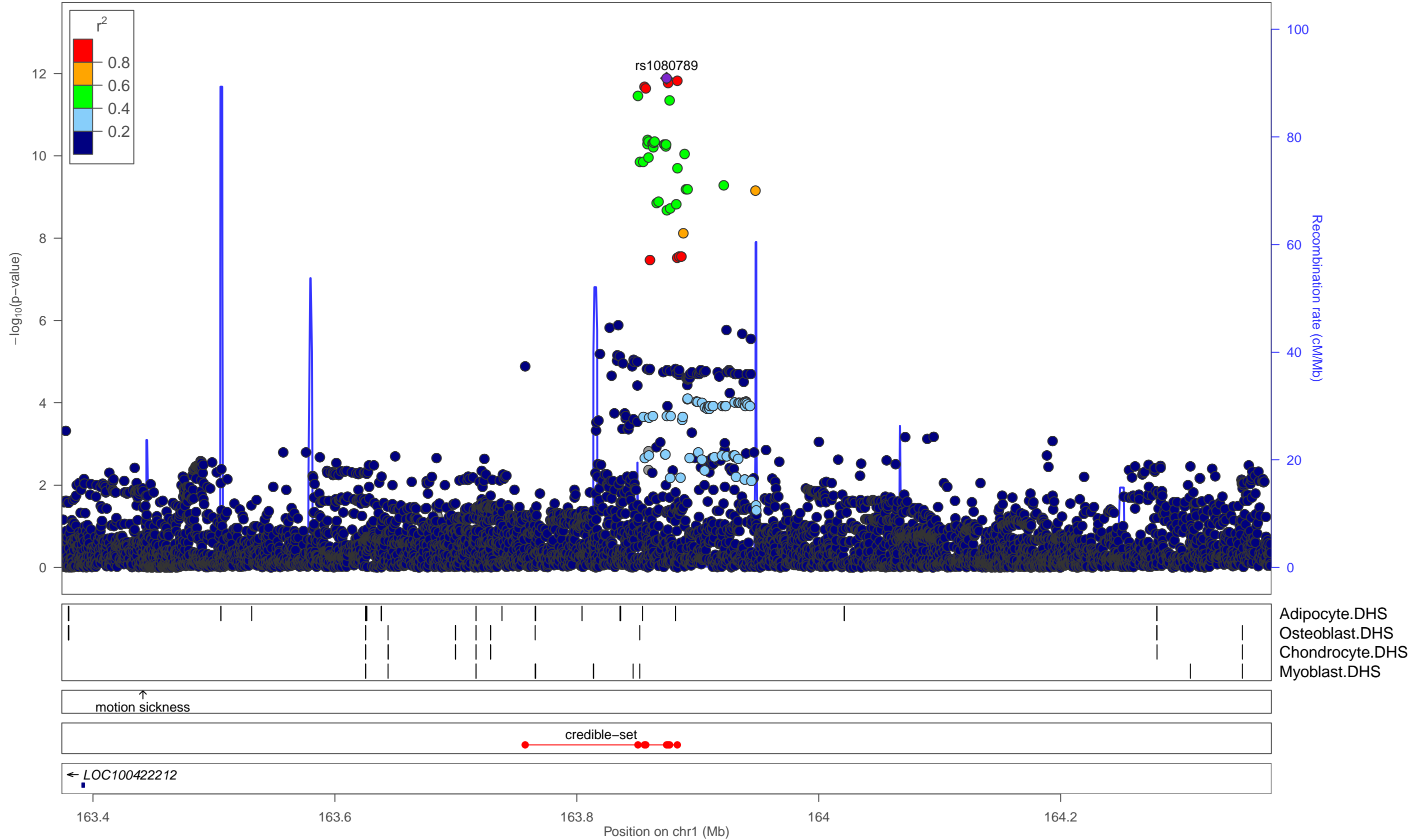
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	119.5038	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs984222	EFO_0004343	GCST000829
1	119.8757	antitragus size	Adhikari K	24/06/2015	Nat Commun	26105758	rs17023457	EFO_0007669	GCST003003
1	119.8757	outer ear morphology trait	Adhikari K	24/06/2015	Nat Commun	26105758	rs17023457	EFO_0007664	GCST003001
1	119.9528	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs12141041	EFO_0005664	GCST002443

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1779415	1	119.3805	2.5406	credible-set	red
rs1779413	1	119.3855	2.4210	credible-set	red
rs61806176	1	119.3995	2.0430	credible-set	red
rs1766807	1	119.4068	2.5347	credible-set	red
rs1779449	1	119.4126	2.2304	credible-set	red
rs946207	1	119.4140	2.1339	credible-set	red
rs36187272	1	119.4151	3.3867	credible-set	red
rs9659323	1	119.5044	2.5128	credible-set	red
rs9658899	1	119.5045	2.5101	credible-set	red
rs12073056	1	119.5084	2.4779	credible-set	red
rs10923714	1	119.5129	2.4587	credible-set	red
rs57231072	1	119.5154	2.5788	credible-set	red
rs56897173	1	119.5157	2.4205	credible-set	red
rs6700415	1	119.5162	2.5079	credible-set	red
rs11584380	1	119.5174	2.4758	credible-set	red
rs6680737	1	119.5216	2.6723	credible-set	red
rs113197996	1	119.5224	2.4811	credible-set	red
rs12088206	1	119.5236	2.6444	credible-set	red
rs10923715	1	119.5353	2.4163	credible-set	red

eBMD SNP INDEX 017



date: Wed Jun 28 21:16:05 2017

build: hg19

display range: chr1:163374234–164374234 [163374234–164374234]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:163874234

number of SNPs plotted: 6318

min P-value: 1.3E-12 [chr1:163874234]

max P-value: 1E0 [chr1:163455387]

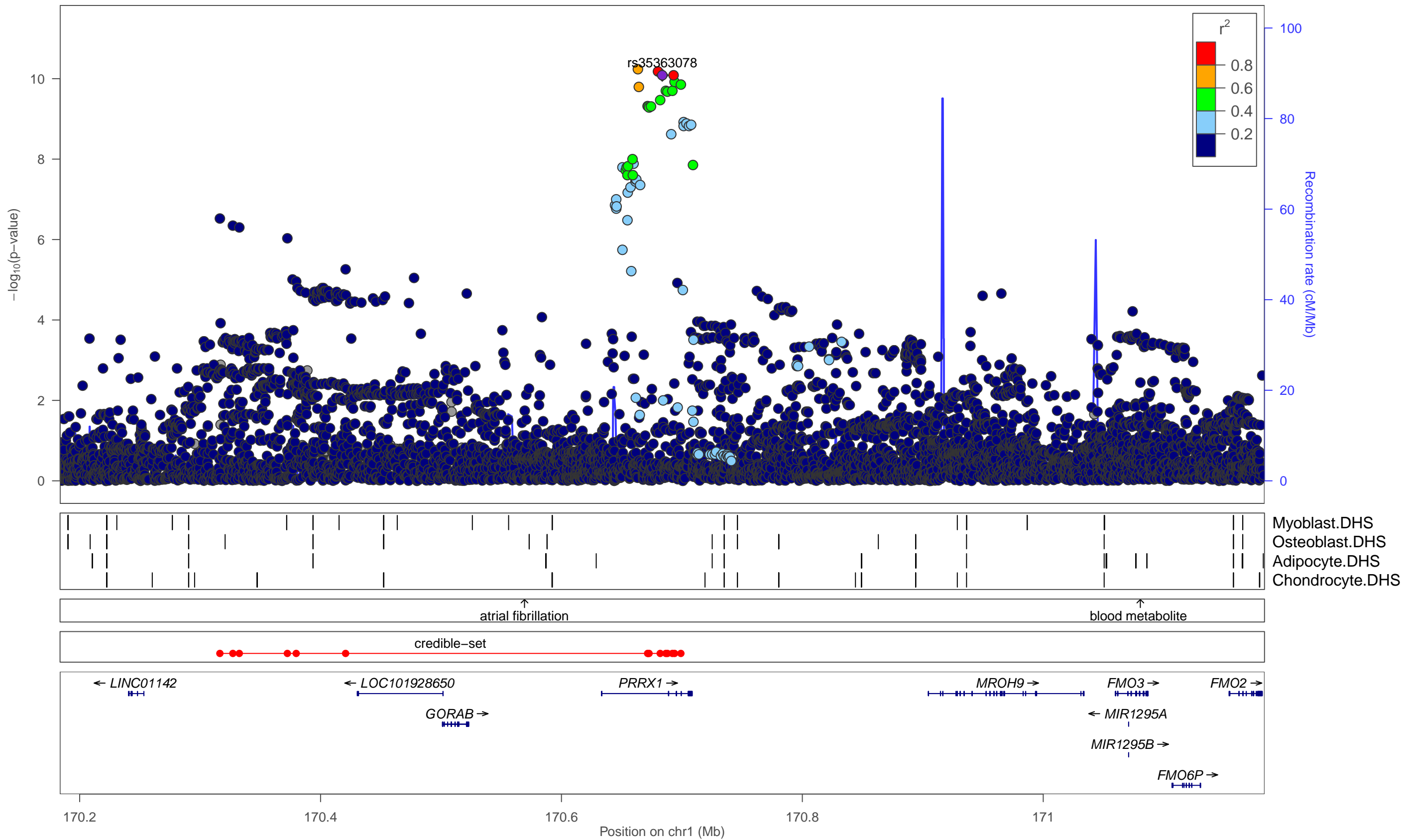
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	163.4413	motion sickness	Hromatka BS	26/01/2015	Hum Mol Genet	25628336	rs4076764	EFO_0006928	GCST002759

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs564925959	1	163.7573	2.0146	credible-set	red
rs6696966	1	163.8505	2.4935	credible-set	red
rs10917872	1	163.8560	2.7483	credible-set	red
rs6669526	1	163.8570	2.7040	credible-set	red
rs1080789	1	163.8742	2.9982	credible-set	red
rs7550321	1	163.8755	2.8539	credible-set	red
rs552512551	1	163.8767	2.3786	credible-set	red
rs7556434	1	163.8831	2.9195	credible-set	red

eBMD SNP INDEX 018



date: Wed Jun 28 21:16:06 2017

build: hg19

display range: chr1:170183707–171183707 [170183707–171183707]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:170683707

number of SNPs plotted: 6242

min P-value: 5.8E-11 [chr1:170663475]

max P-value: 1E0 [chr1:170221833]

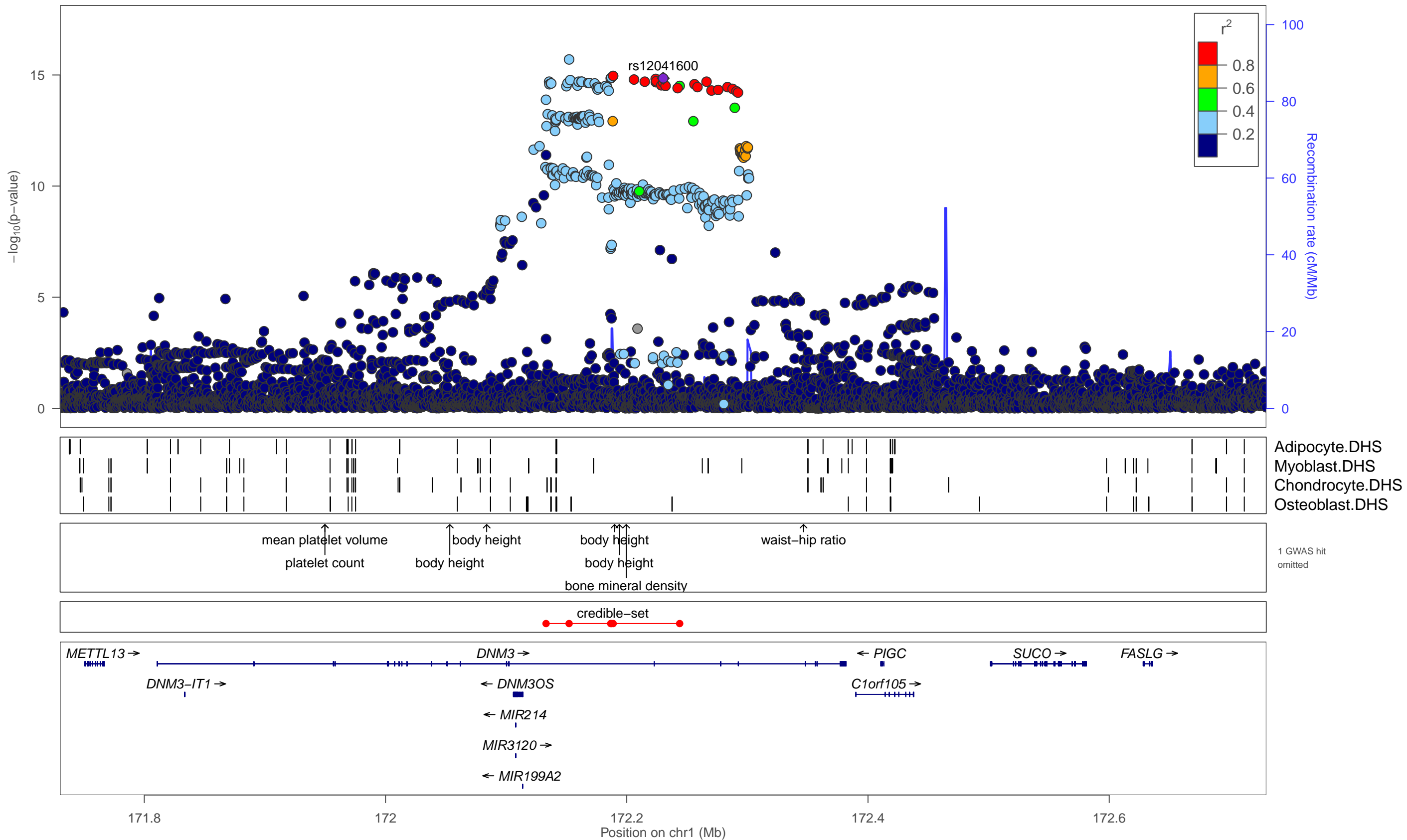
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	170.5693	atrial fibrillation	Ellinor PT	29/04/2012	Nat Genet	22544366	rs3903239	EFO_0000275	GCST001499
1	171.0806	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs7061710	EFO_0005664	GCST002443

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10753804	1	170.3164	2.7368	credible-set	red
rs1360588	1	170.3272	2.5422	credible-set	red
rs4481907	1	170.3325	2.4668	credible-set	red
rs10919387	1	170.3724	2.3814	credible-set	red
rs4656768	1	170.3798	2.0846	credible-set	red
1:170420792_A_AAACAACAAC	1	170.4208	2.2794	credible-set	red
rs61817384	1	170.6715	2.1864	credible-set	red
rs17551016	1	170.6720	2.1652	credible-set	red
rs113880067	1	170.6727	2.1444	credible-set	red
rs61817386	1	170.6820	2.3577	credible-set	red
rs59188802	1	170.6867	2.6459	credible-set	red
rs736022	1	170.6880	2.6262	credible-set	red
rs17551172	1	170.6921	2.6581	credible-set	red
rs2421491	1	170.6939	2.9918	credible-set	red
rs12409048	1	170.6991	2.8392	credible-set	red

eBMD SNP INDEX 019



date: Wed Jun 28 21:16:06 2017

build: hg19

display range: chr1:171730229–172730229 [171730229–172730229]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:172230229

number of SNPs plotted: 5131

min P-value: 2E-16 [chr1:172152202]

max P-value: 1E0 [chr1:171812468]

omitted GWAS Hits: chr1:172.346548–waist–hip ratio

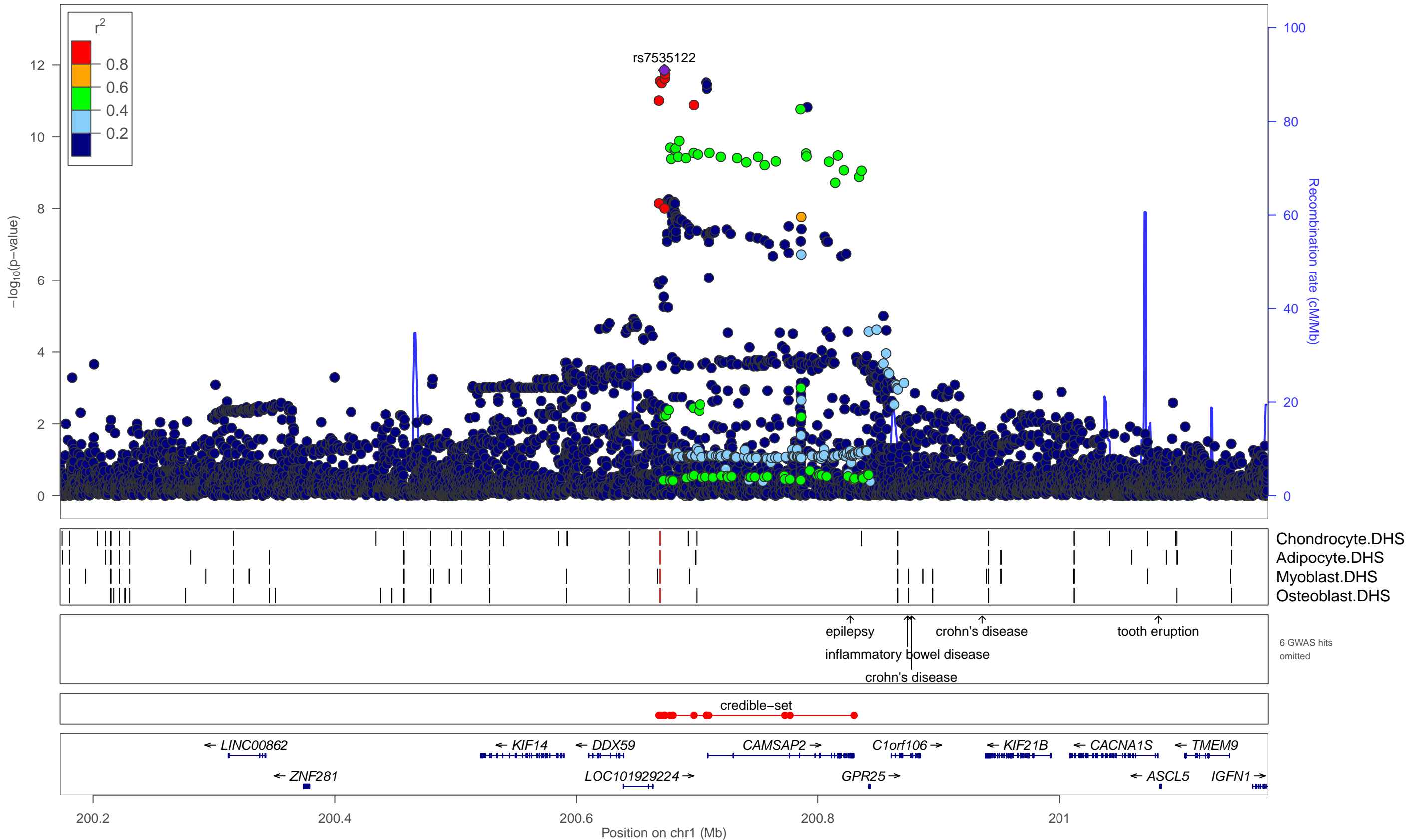
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	171.9497	mean platelet volume	Gieger C	30/11/2011	Nature	22139419	rs10914144	EFO_0004584	GCST001335
1	171.9497	mean platelet volume	Shameer K	12/09/2013	Hum Genet	24026423	rs10914144	EFO_0004584	GCST002184
1	171.9497	mean platelet volume	Soranzo N	11/10/2009	Nat Genet	19820697	rs10914144	EFO_0004584	GCST000497
1	171.9497	platelet count	Gieger C	30/11/2011	Nature	22139419	rs10914144	EFO_0004309	GCST001337
1	172.0533	body height	Lango Allen H	29/09/2010	Nature	20881960	rs17346452	EFO_0004339	GCST000817
1	172.0839	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs6694089	EFO_0004339	GCST002647
1	172.1899	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs678962	EFO_0004339	GCST000175
1	172.1938	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs12410416	EFO_0004339	GCST002702
1	172.1996	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs479336	EFO_0003923	GCST001482
1	172.2200	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs12075079	EFO_0004339	GCST001956
1	172.3465	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs1011731	EFO_0004343	GCST000829

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs66518209	1	172.1331	2.7998	credible-set	red
rs484686	1	172.1522	2.7478	credible-set	red
rs633995	1	172.1867	2.0331	credible-set	red
rs912299	1	172.1873	2.0563	credible-set	red
rs520918	1	172.1887	2.1238	credible-set	red
rs35149378	1	172.2439	2.7859	credible-set	red

eBMD SNP INDEX 020



date: Wed Jun 28 21:16:11 2017

build: hg19

display range: chr1:200172699–201172699 [200172699–201172699]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:200672699

number of SNPs plotted: 6465

min P-value: 1.4E-12 [chr1:200672699]

max P-value: 1E0 [chr1:200176068]

omitted GWAS Hits: chr1:200.935866–crohn's disease, chr1:201.081943–tooth eruption

omitted GWAS Hits: NA, NA

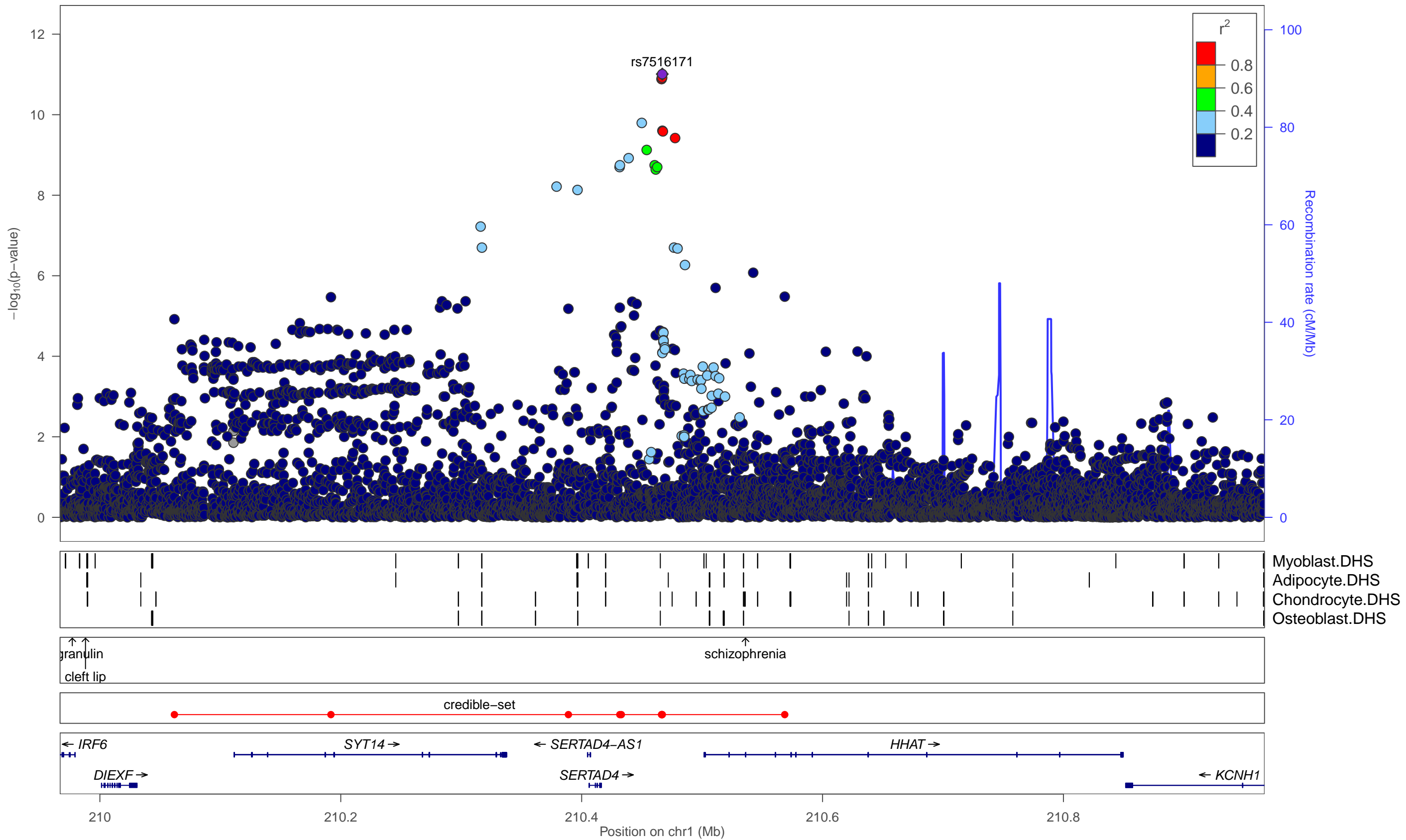
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	200.8268	epilepsy	Guo Y	24/11/2011	Hum Mol Genet	22116939	rs2292096	EFO_0000474	GCST001329
1	200.8742	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs35730213	EFO_0003767	GCST003043
1	200.8776	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs7554511	EFO_0000384	GCST003044
1	200.8776	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs7554511	EFO_0003767	GCST001725
1	200.8776	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs7554511	EFO_0000729	GCST000964
1	200.8776	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs7554511	EFO_0000729	GCST003045
1	200.8816	multiple sclerosis	Sawcer S	11/08/2011	Nature	21833088	rs7522462	EFO_0003885	GCST001198
1	200.8921	celiac disease	Dubois PC	28/02/2010	Nat Genet	20190752	rs296547	EFO_0001060	GCST000612
1	200.9359	crohn's disease	Barrett JC	29/06/2008	Nat Genet	18587394	rs11584383	EFO_0000384	GCST000207
1	200.9603	ankylosing spondylitis	Evans DM	10/07/2011	Nat Genet	21743469	rs2297909	EFO_0003898	GCST001149
1	201.0163	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs3850625	EFO_0005208, EFO_0004518	GCST003401
1	201.0819	tooth eruption	Geller F	8/09/2011	PLoS Genet	21931568	rs2281845	GO_0044691	GCST001221

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11297070	1	200.6682	2.1567	credible-set	red
rs6427847	1	200.6692	2.6219	credible-set	red
rs6427848	1	200.6704	2.5249	credible-set	red
rs9628674	1	200.6720	2.1488	credible-set	red
rs7535122	1	200.6727	3.1474	credible-set	red
rs6684083	1	200.6731	2.7284	credible-set	red
rs6427851	1	200.6733	2.9622	credible-set	red
rs4915452	1	200.6774	2.1143	credible-set	red
rs12137256	1	200.6796	2.1168	credible-set	red
rs7530159	1	200.6799	2.1476	credible-set	red
rs7518368	1	200.6972	2.0526	credible-set	red
rs58397787	1	200.7075	2.4317	credible-set	red
rs111861862	1	200.7080	2.2687	credible-set	red
rs537301220	1	200.7081	2.3713	credible-set	red
rs7517998	1	200.7098	2.1361	credible-set	red
rs58865089	1	200.7727	2.1750	credible-set	red
rs10800737	1	200.7770	2.1250	credible-set	red
rs7514015	1	200.8300	2.0070	credible-set	red

eBMD SNP INDEX 021



date: Wed Jun 28 21:16:17 2017

build: hg19

display range: chr1:209966932–210966932 [209966932–210966932]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:210466932

number of SNPs plotted: 6485

min P-value: 9.8E-12 [chr1:210466932]

max P-value: 1E0 [chr1:209983739]

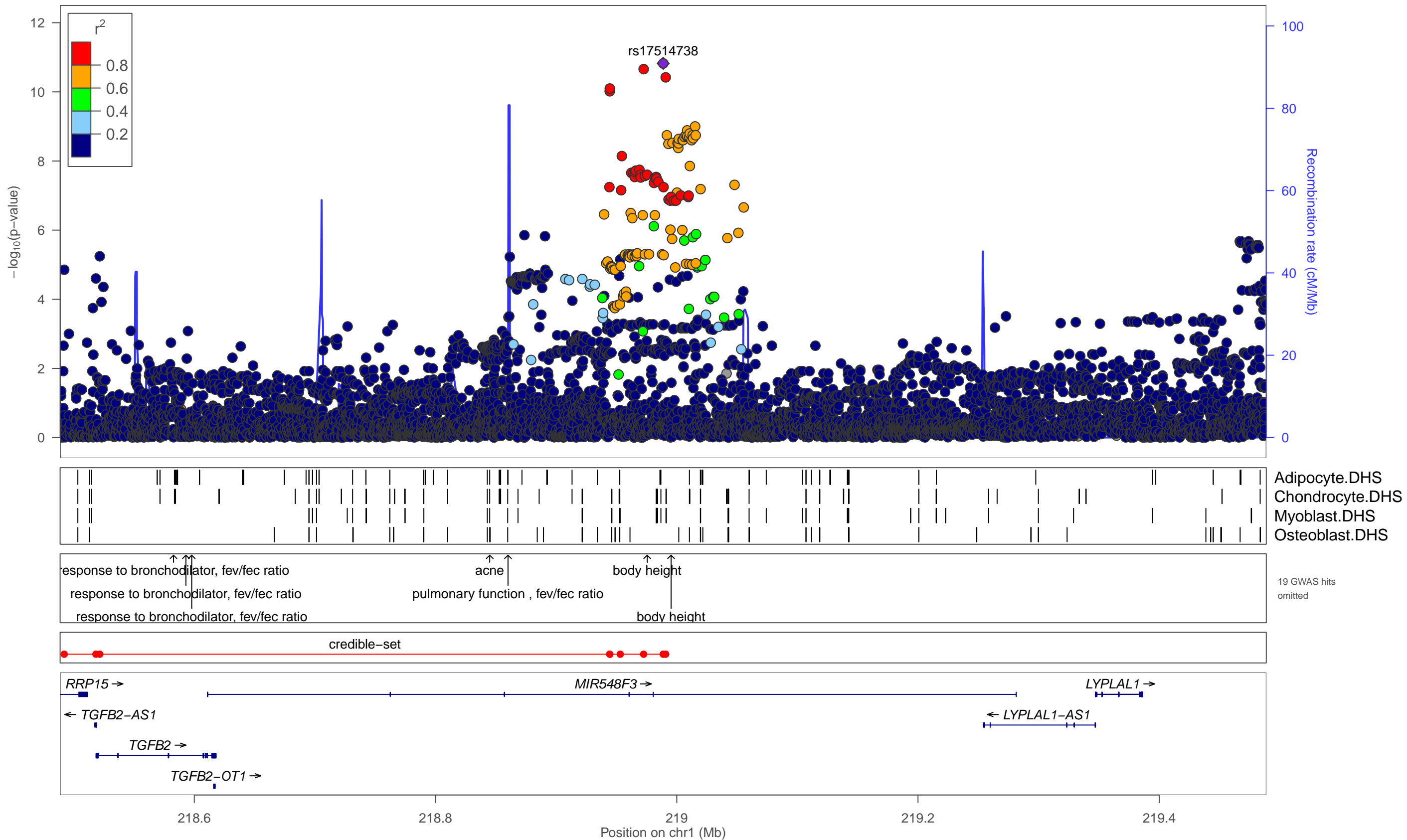
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	209.9771	progranulin	Ludwig KU	5/08/2012	Nat Genet	22863734	rs861020	EFO_0004625	GCST001628
1	209.9880	cleft lip	Beaty TH	2/05/2010	Nat Genet	20436469	rs10863790	EFO_0003959	GCST000673
1	210.5360	schizophrenia	Betcheva ET	7/11/2012	Psychiatr Genet	23142968	rs7527939	EFO_0000692	GCST001733

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs541987051	1	210.0619	2.1182	credible-set	red
rs190172822	1	210.1918	2.7193	credible-set	red
rs550983339	1	210.3890	2.4985	credible-set	red
1:210431682_GACA_G	1	210.4317	2.5130	credible-set	red
rs569220545	1	210.4329	2.0896	credible-set	red
rs636374	1	210.4664	2.9334	credible-set	red
rs6672768	1	210.4664	2.9328	credible-set	red
rs635084	1	210.4666	2.9838	credible-set	red
rs639095	1	210.4668	2.9778	credible-set	red
rs7516171	1	210.4669	3.0889	credible-set	red
rs75995232	1	210.5686	2.7703	credible-set	red

eBMD SNP INDEX 022



date: Wed Jun 28 21:16:18 2017

build: hg19

display range: chr1:218488754–219488754 [218488754–219488754]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:218988754

number of SNPs plotted: 6164

min P-value: 1.5E-11 [chr1:218988754]

max P-value: 1E0 [chr1:218625463]

omitted GWAS Hits: chr1:218.844906–acne, chr1:218.860068–pulmonary function , fev/fec ratio

omitted GWAS Hits: chr1:218.995273–body height, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

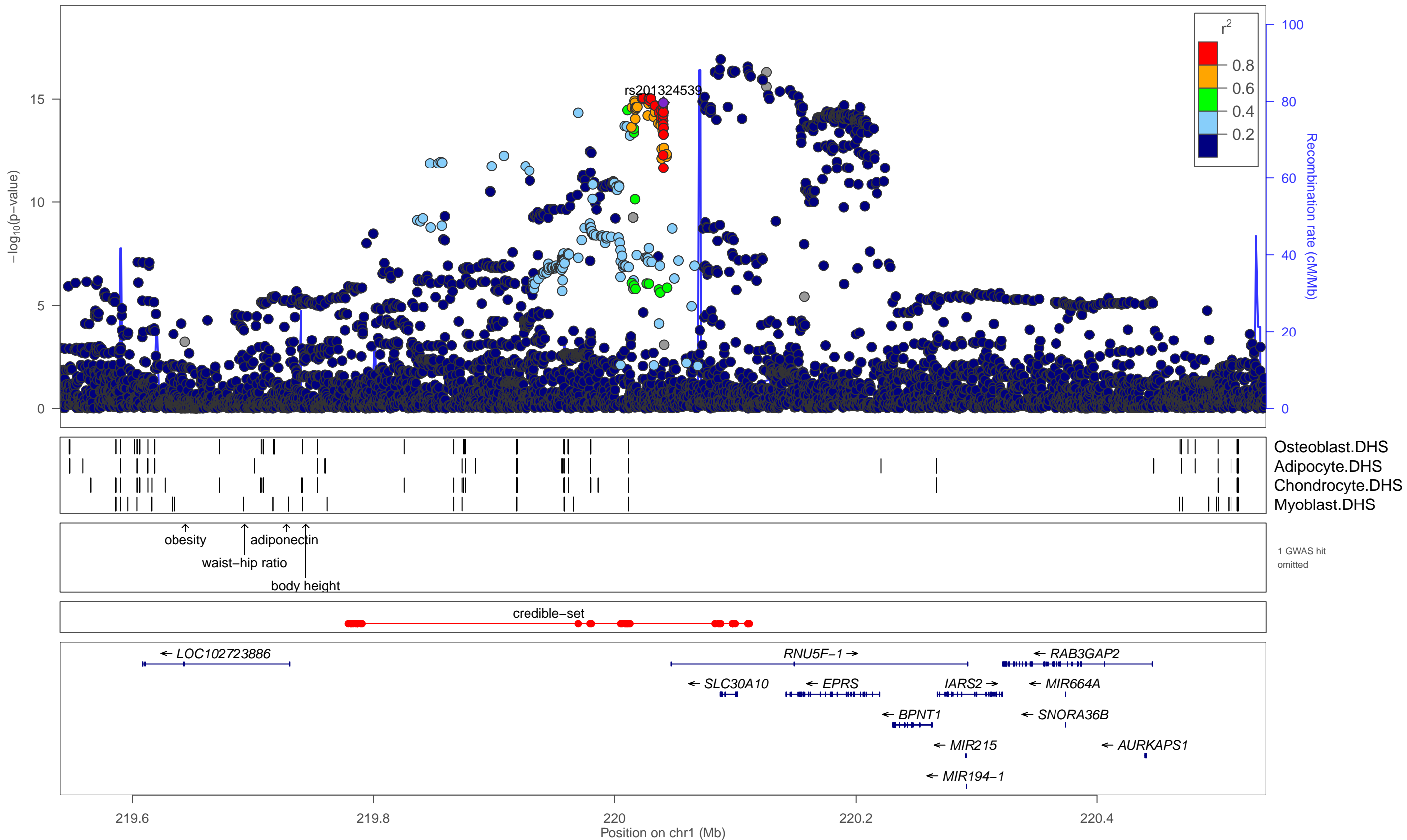
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	218.5828	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs17047804	GO_0097366, EFO_0004713	GCST003264
1	218.5930	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs12048582	GO_0097366, EFO_0004713	GCST003264
1	218.5979	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs1342586	GO_0097366, EFO_0004713	GCST003264
1	218.5983	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs4846478	GO_0097366, EFO_0004713	GCST003264
1	218.5984	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs4846479	GO_0097366, EFO_0004713	GCST003264
1	218.5985	chronic obstructive pulmonary disease	Cho MH	7/02/2014	Lancet Respir Med	24621683	rs4846480	EFO_0000341	GCST002350
1	218.5985	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs4846480	GO_0097366, EFO_0004713	GCST003264
1	218.6004	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs6658473	GO_0097366, EFO_0004713	GCST003264
1	218.6047	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs1890995	EFO_0004339	GCST002702
1	218.6047	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs1890995	GO_0097366, EFO_0004713	GCST003264
1	218.6055	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs10482792	GO_0097366, EFO_0004713	GCST003264
1	218.6056	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs10482796	GO_0097366, EFO_0004713	GCST003264
1	218.6097	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6684205	EFO_0004339	GCST000817
1	218.6149	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs900	GO_0097366, EFO_0004713	GCST003264
1	218.6155	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs991967	EFO_0004339	GCST002647
1	218.6207	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs1473526	GO_0097366, EFO_0004713	GCST003264
1	218.6226	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs12023953	GO_0097366, EFO_0004713	GCST003264
1	218.6239	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs72738834	GO_0097366, EFO_0004713	GCST003264
1	218.6245	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs10429950	GO_0097366, EFO_0004713	GCST003264
1	218.6266	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs7515360	GO_0097366, EFO_0004713	GCST003264
1	218.6273	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs7549303	GO_0097366, EFO_0004713	GCST003264
1	218.6980	emphysema pattern	Castaldi PJ	9/07/2014	Am J Respir Crit Care Med	25006744	rs1690789	EFO_0005850	GCST002525
1	218.8449	acne	Navarini AA	13/06/2014	Nat Commun	24927181	rs1159268	EFO_0003894	GCST002481
1	218.8601	pulmonary function , fev/fec ratio	Soler Artigas M	25/09/2011	Nat Genet	21946350	rs993925	EFO_0003892, EFO_0004713	GCST001248
1	218.9755	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs12411277	EFO_0004339	GCST002647
1	218.9953	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs7552186	EFO_0004339	GCST001956

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs3121580	1	218.4921	2.3970	credible-set	red
rs35685795	1	218.5184	2.1741	credible-set	red
rs2799098	1	218.5216	2.6762	credible-set	red
rs2378006	1	218.9444	2.3995	credible-set	red
rs10863407	1	218.9445	2.4819	credible-set	red
rs539666957	1	218.9531	2.0550	credible-set	red
rs12081079	1	218.9726	3.1185	credible-set	red
rs17514738	1	218.9888	3.3547	credible-set	red
rs2378022	1	218.9908	2.8299	credible-set	red

eBMD SNP INDEX 023



date: Wed Jun 28 21:16:17 2017

build: hg19

display range: chr1:219540220–220540220 [219540220–220540220]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:220040220

number of SNPs plotted: 5881

min P-value: 1.2E-17 [chr1:220088047]

max P-value: 1E0 [chr1:219572586]

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	219.6442	obesity	Lindgren CM	26/06/2009	PLoS Genet	19557161	rs2605100	EFO_0001073	GCST000428
1	219.6932	waist-hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs2820464	EFO_0004343	GCST001954
1	219.7278	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs3001032	EFO_0004502	GCST001465
1	219.7437	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11118346	EFO_0004339	GCST000817
1	219.7507	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs4846567	EFO_0004343	GCST000829

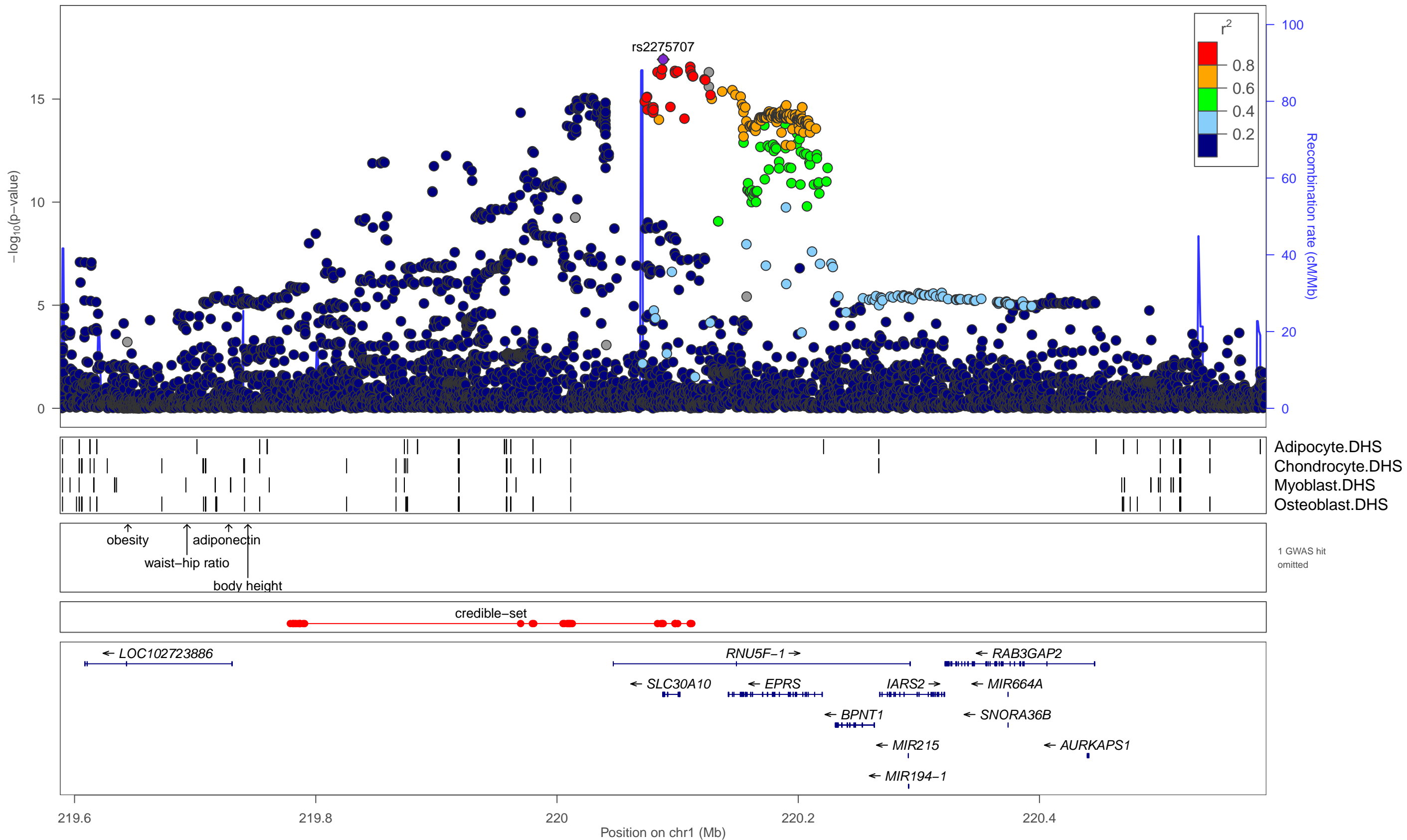
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs181057043	1	219.7789	2.1735	credible-set	red
rs555701846	1	219.7811	2.0813	credible-set	red
rs572026822	1	219.7812	2.1349	credible-set	red
rs572384605	1	219.7826	2.0685	credible-set	red
rs550141293	1	219.7837	2.1109	credible-set	red
rs559888723	1	219.7855	2.0923	credible-set	red
rs78344190	1	219.7868	2.0552	credible-set	red
rs80247577	1	219.7868	2.0720	credible-set	red
rs75232667	1	219.7870	2.1034	credible-set	red
rs79696432	1	219.7896	2.1034	credible-set	red
rs77525922	1	219.7907	2.1027	credible-set	red
rs55870096	1	219.9698	2.1691	credible-set	red
rs6672682	1	219.9796	2.9903	credible-set	red
rs17006687	1	219.9807	2.8577	credible-set	red
rs10863504	1	220.0050	2.7628	credible-set	red
rs6541105	1	220.0061	3.0833	credible-set	red
rs6664521	1	220.0083	2.5208	credible-set	red
rs6667735	1	220.0091	2.3598	credible-set	red
rs12143315	1	220.0100	2.5231	credible-set	red
rs34758645	1	220.0106	2.8292	credible-set	red
rs1614982	1	220.0116	2.2445	credible-set	red
rs35898151	1	220.0127	2.0087	credible-set	red
rs1776030	1	220.0833	2.3490	credible-set	red
rs5781151	1	220.0862	2.5935	credible-set	red
rs947517	1	220.0872	2.8748	credible-set	red
rs2275707	1	220.0880	3.0124	credible-set	red
rs1776052	1	220.0977	2.1899	credible-set	red
rs6663745	1	220.0979	2.3765	credible-set	red
rs6663638	1	220.0980	2.3959	credible-set	red
rs7525274	1	220.1001	2.1609	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1694592	1	220.1105	2.4911	credible-set	red
rs1776046	1	220.1106	2.1971	credible-set	red
rs1694593	1	220.1117	2.0087	credible-set	red

eBMD SNP INDEX 024



date: Wed Jun 28 21:16:18 2017

build: hg19

display range: chr1:219588047–220588047 [219588047–220588047]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:220088047

number of SNPs plotted: 5860

min P-value: 1.2E-17 [chr1:220088047]

max P-value: 1E0 [chr1:219640680]

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	219.6442	obesity	Lindgren CM	26/06/2009	PLoS Genet	19557161	rs2605100	EFO_0001073	GCST000428
1	219.6932	waist-hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs2820464	EFO_0004343	GCST001954
1	219.7278	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs3001032	EFO_0004502	GCST001465
1	219.7437	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11118346	EFO_0004339	GCST000817
1	219.7507	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs4846567	EFO_0004343	GCST000829

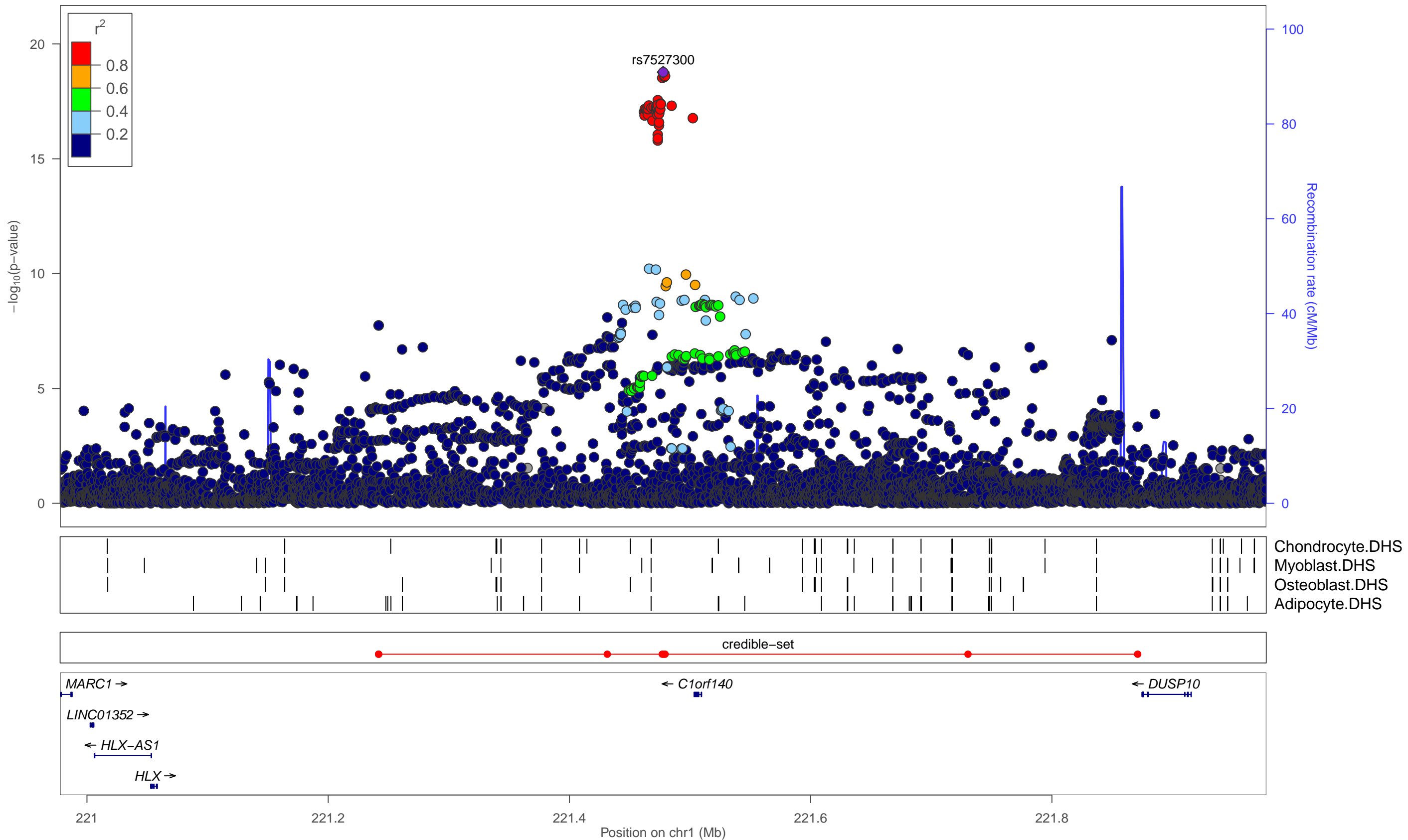
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs181057043	1	219.7789	2.1799	credible-set	red
rs555701846	1	219.7811	2.0851	credible-set	red
rs572026822	1	219.7812	2.1366	credible-set	red
rs572384605	1	219.7826	2.0651	credible-set	red
rs550141293	1	219.7837	2.1148	credible-set	red
rs559888723	1	219.7855	2.0937	credible-set	red
rs78344190	1	219.7868	2.0718	credible-set	red
rs80247577	1	219.7868	2.0714	credible-set	red
rs75232667	1	219.7870	2.1135	credible-set	red
rs79696432	1	219.7896	2.0901	credible-set	red
rs77525922	1	219.7907	2.1012	credible-set	red
rs55870096	1	219.9698	2.1678	credible-set	red
rs6672682	1	219.9796	2.9750	credible-set	red
rs17006687	1	219.9807	2.8450	credible-set	red
rs10863504	1	220.0050	2.7632	credible-set	red
rs6541105	1	220.0061	3.0847	credible-set	red
rs6664521	1	220.0083	2.5124	credible-set	red
rs6667735	1	220.0091	2.3299	credible-set	red
rs12143315	1	220.0100	2.5003	credible-set	red
rs34758645	1	220.0106	2.8296	credible-set	red
rs1614982	1	220.0116	2.2331	credible-set	red
rs35898151	1	220.0127	2.0073	credible-set	red
rs1776030	1	220.0833	2.3523	credible-set	red
rs5781151	1	220.0862	2.5995	credible-set	red
rs947517	1	220.0872	2.8725	credible-set	red
rs2275707	1	220.0880	3.0138	credible-set	red
rs1776052	1	220.0977	2.1592	credible-set	red
rs6663745	1	220.0979	2.3911	credible-set	red
rs6663638	1	220.0980	2.3959	credible-set	red
rs7525274	1	220.1001	2.1254	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1694592	1	220.1105	2.4828	credible-set	red
rs1776046	1	220.1106	2.1969	credible-set	red
rs1694593	1	220.1117	2.0166	credible-set	red

eBMD SNP INDEX 025



date: Wed Jun 28 21:16:21 2017

build: hg19

display range: chr1:220977744–221977744 [220977744–221977744]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:221477744

number of SNPs plotted: 5902

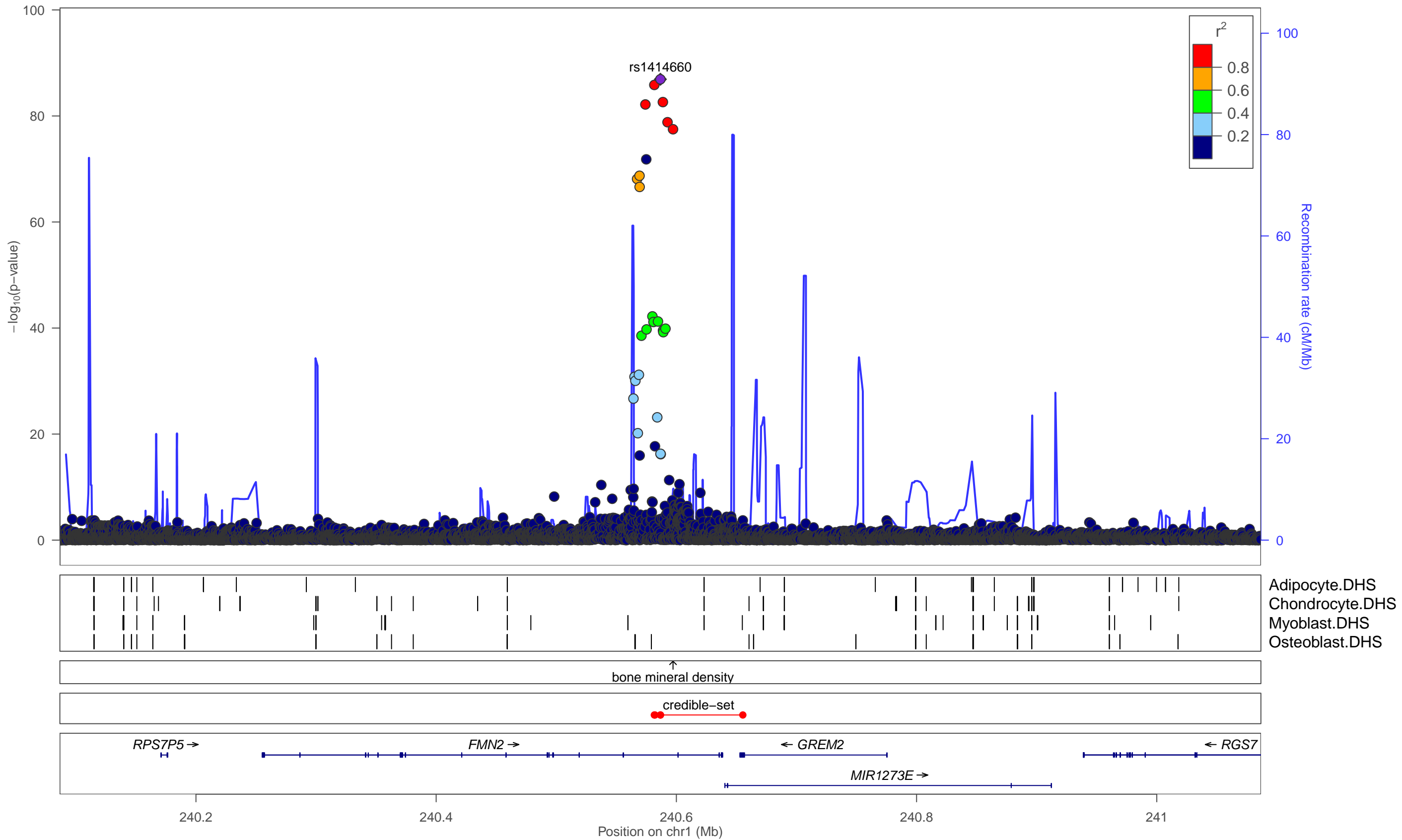
min P-value: 1.7E–19 [chr1:221477744]

max P-value: 1E0 [chr1:221022545]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs370943579	1	221.2418	2.7229	credible-set	red
rs200860118	1	221.2418	2.7205	credible-set	red
rs140994052	1	221.4314	2.5251	credible-set	red
rs4304588	1	221.4770	2.7634	credible-set	red
rs7527300	1	221.4777	3.0719	credible-set	red
rs6541187	1	221.4788	2.8247	credible-set	red
rs6694328	1	221.4793	2.8620	credible-set	red
rs11576923	1	221.7304	2.0529	credible-set	red
rs566770134	1	221.8711	2.4485	credible-set	red

eBMD SNP INDEX 026



date: Wed Jun 28 21:16:26 2017

build: hg19

display range: chr1:240086695–241086695 [240086695–241086695]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr1:240586695

number of SNPs plotted: 7645

min P-value: 1.2E-87 [chr1:240586695]

max P-value: 1E0 [chr1:240087582]

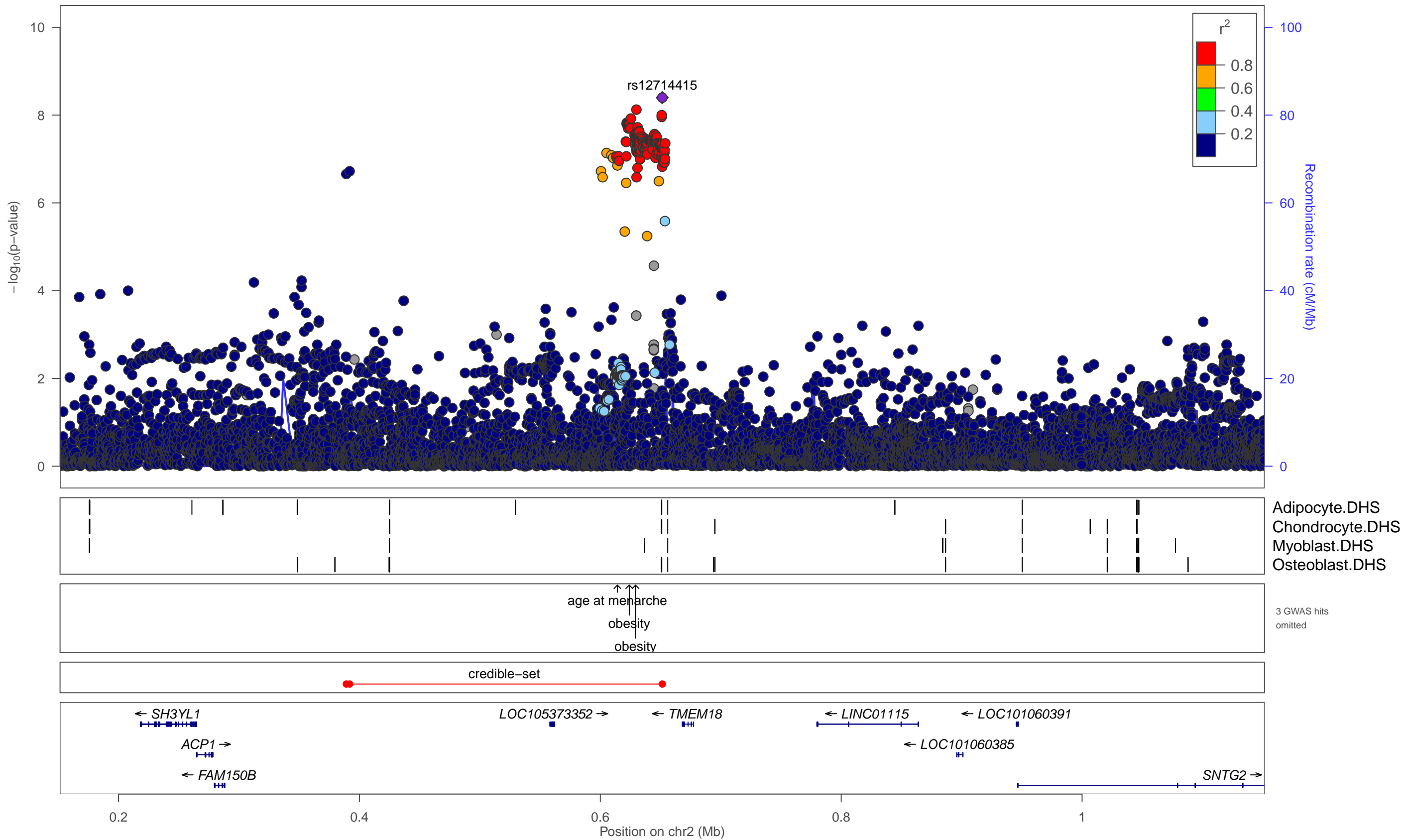
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
1	240.5972	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs9287237	EFO_0003923	GCST001870

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12044944	1	240.5817	2.6026	credible-set	red
rs140175040	1	240.5822	2.2264	credible-set	red
rs1414660	1	240.5867	4.5986	credible-set	red
rs1414659	1	240.5868	2.2032	credible-set	red
rs9287248	1	240.6553	2.4558	credible-set	red

eBMD SNP INDEX 027



date: Wed Jun 28 21:16:54 2017

build: hg19

display range: chr2:151430–1151430 [151430–1151430]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:651430

number of SNPs plotted: 7937

min P-value: 4E-9 [chr2:651430]

max P-value: 1E0 [chr2:1006755]

omitted GWAS Hits: NA, NA

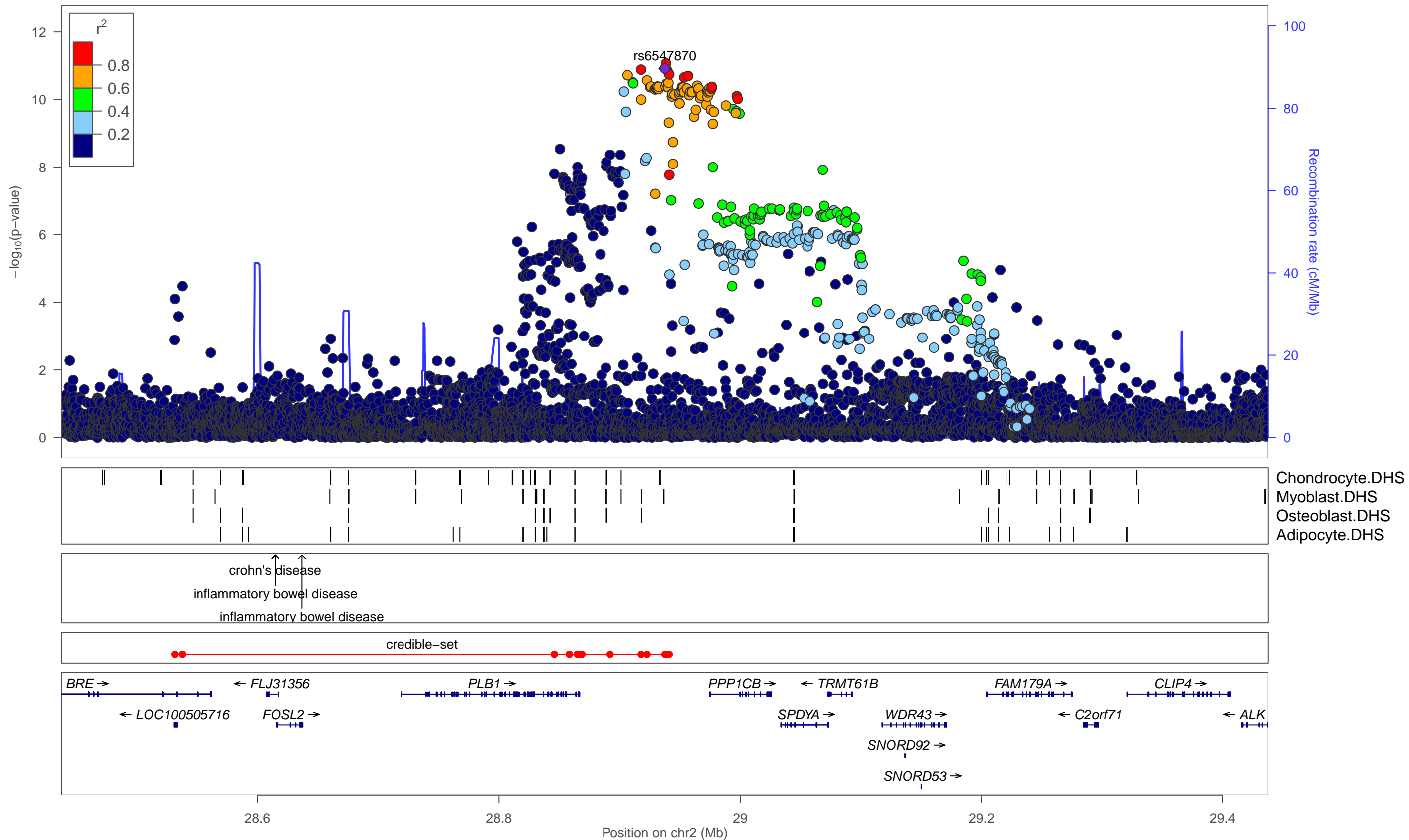
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	0.614168	age at menarche	Elks CE	21/11/2010	Nat Genet	21102462	rs2947411	EFO_0004703	GCST000880
2	0.614168	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs2947411	EFO_0004703	GCST002541
2	0.624034	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs6711012	EFO_0001073	GCST001953
2	0.629244	obesity	Wheeler E	7/04/2013	Nat Genet	23563609	rs12463617	EFO_0001073	GCST001957
2	0.635721	body fat percent	Lu Y	1/02/2016	Nat Commun	26833246	rs6755502	NA	GCST003435
2	0.644953	body weight	Thorleifsson G	14/12/2008	Nat Genet	19079260	rs7561317	EFO_0004338	GCST000299
2	0.646364	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs10189761	EFO_0001073	GCST001953

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs114823860	2	0.389102	3.4367	credible-set	red
rs75664785	2	0.391833	3.5200	credible-set	red
rs12714415	2	0.651430	2.2843	credible-set	red

eBMD SNP INDEX 028



date: Wed Jun 28 21:16:55 2017

build: hg19

display range: chr2:28437601–29437601 [28437601–29437601]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:28937601

number of SNPs plotted: 6373

min P-value: 8.5E-12 [chr2:28938544]

max P-value: 1E0 [chr2:28467254]

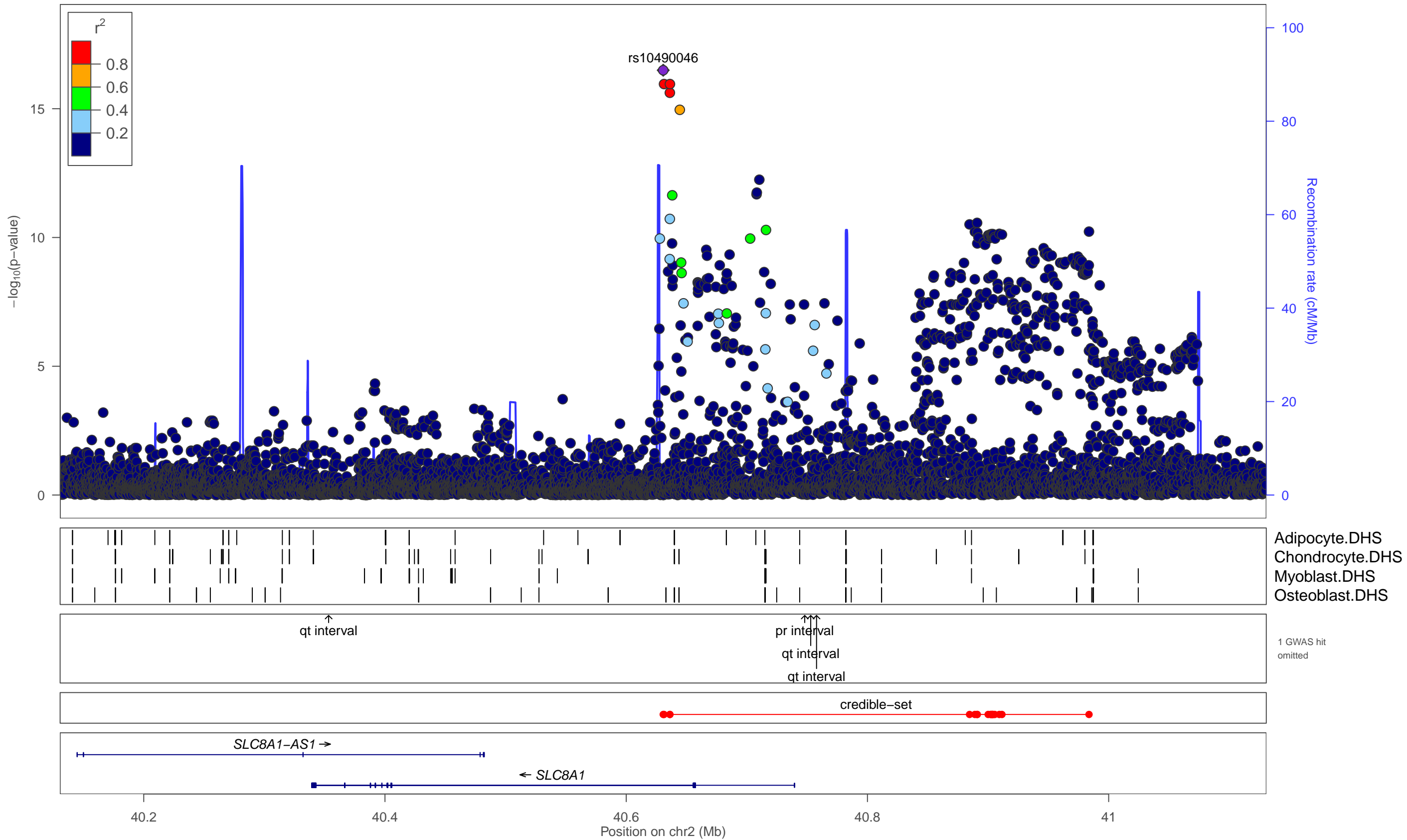
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	28.61479	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs925255	EFO_0000384	GCST003044
2	28.61479	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs925255	EFO_0003767	GCST001725
2	28.63674	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2279990	EFO_0003767	GCST003043

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs187034428	2	28.53135	2.1106	credible-set	red
rs570248283	2	28.53755	2.6870	credible-set	red
rs11427722	2	28.84591	2.3013	credible-set	red
rs6729802	2	28.85836	2.0505	credible-set	red
rs34780912	2	28.86510	2.3051	credible-set	red
rs138961429	2	28.86521	2.3739	credible-set	red
rs34424799	2	28.86524	2.2312	credible-set	red
rs2272387	2	28.86576	2.0094	credible-set	red
rs398042384	2	28.86883	2.1607	credible-set	red
rs10192375	2	28.89212	2.2486	credible-set	red
rs7594363	2	28.91788	2.0306	credible-set	red
rs55836936	2	28.92283	2.0889	credible-set	red
rs6547870	2	28.93760	2.0277	credible-set	red
rs11333986	2	28.93854	2.2039	credible-set	red
rs12714240	2	28.94115	2.0378	credible-set	red

eBMD SNP INDEX 029



date: Wed Jun 28 21:16:56 2017

build: hg19

display range: chr2:40130678–41130678 [40130678–41130678]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:40630678

number of SNPs plotted: 7583

min P-value: 3.2E-17 [chr2:40630678]

max P-value: 1E0 [chr2:40159712]

omitted GWAS Hits: NA

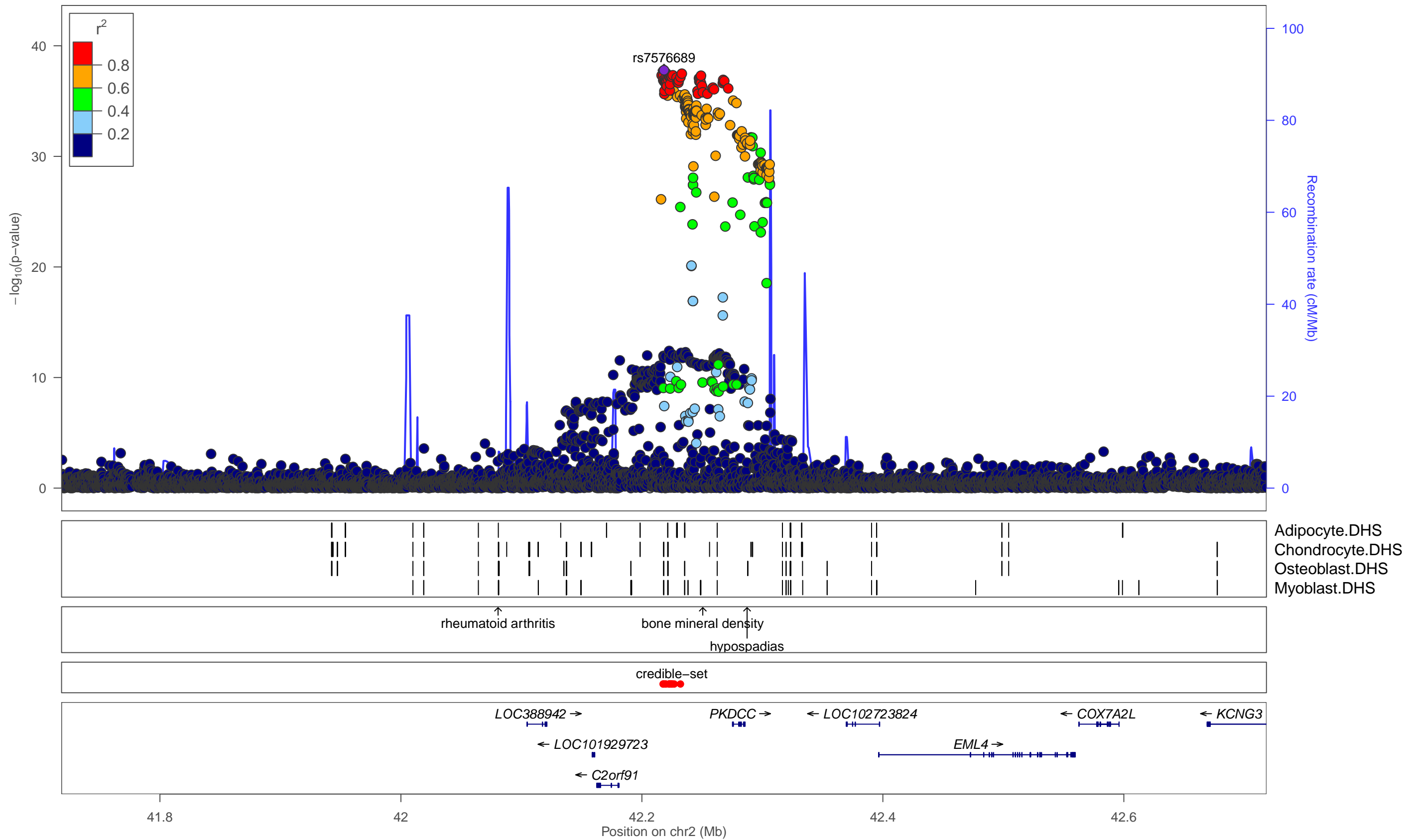
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	40.35328	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs6544311	EFO_0004682	GCST002500
2	40.74800	pr interval	Sano M	23/07/2014	Hum Mol Genet	25055868	rs4952632	EFO_0004462	GCST002542
2	40.75298	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs12997023	EFO_0004682	GCST002500
2	40.75779	qt interval	Kim JW	20/06/2012	Am J Hum Genet	22726844	rs13017846	EFO_0004682	GCST001580
2	40.76096	pr interval	Hong KW	17/07/2014	Hum Mol Genet	25035420	rs17026156	EFO_0004462	GCST002535

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10490046	2	40.63068	3.7475	credible-set	red
rs10490045	2	40.63135	2.9939	credible-set	red
rs6726855	2	40.63618	2.5967	credible-set	red
rs6755144	2	40.63624	3.0847	credible-set	red
rs17026460	2	40.88465	2.3496	credible-set	red
rs6544344	2	40.88906	2.1386	credible-set	red
rs6717047	2	40.89090	2.4343	credible-set	red
rs4567996	2	40.89109	2.1207	credible-set	red
rs62139488	2	40.90008	2.0332	credible-set	red
rs58977033	2	40.90214	2.0603	credible-set	red
rs58287825	2	40.90225	2.0368	credible-set	red
rs34359856	2	40.90334	2.0045	credible-set	red
rs12474457	2	40.90337	2.0739	credible-set	red
rs12474560	2	40.90351	2.0568	credible-set	red
rs56336113	2	40.90434	2.0591	credible-set	red
rs55878022	2	40.90553	2.0142	credible-set	red
rs7584710	2	40.90933	2.0763	credible-set	red
rs150754099	2	40.91151	2.0566	credible-set	red
rs148138552	2	40.98369	2.3454	credible-set	red

eBMD SNP INDEX 030



date: Wed Jun 28 21:16:58 2017

build: hg19

display range: chr2:41718358–42718358 [41718358–42718358]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:42218358

number of SNPs plotted: 7292

min P-value: 1.6E-38 [chr2:42218358]

max P-value: 1E0 [chr2:41795246]

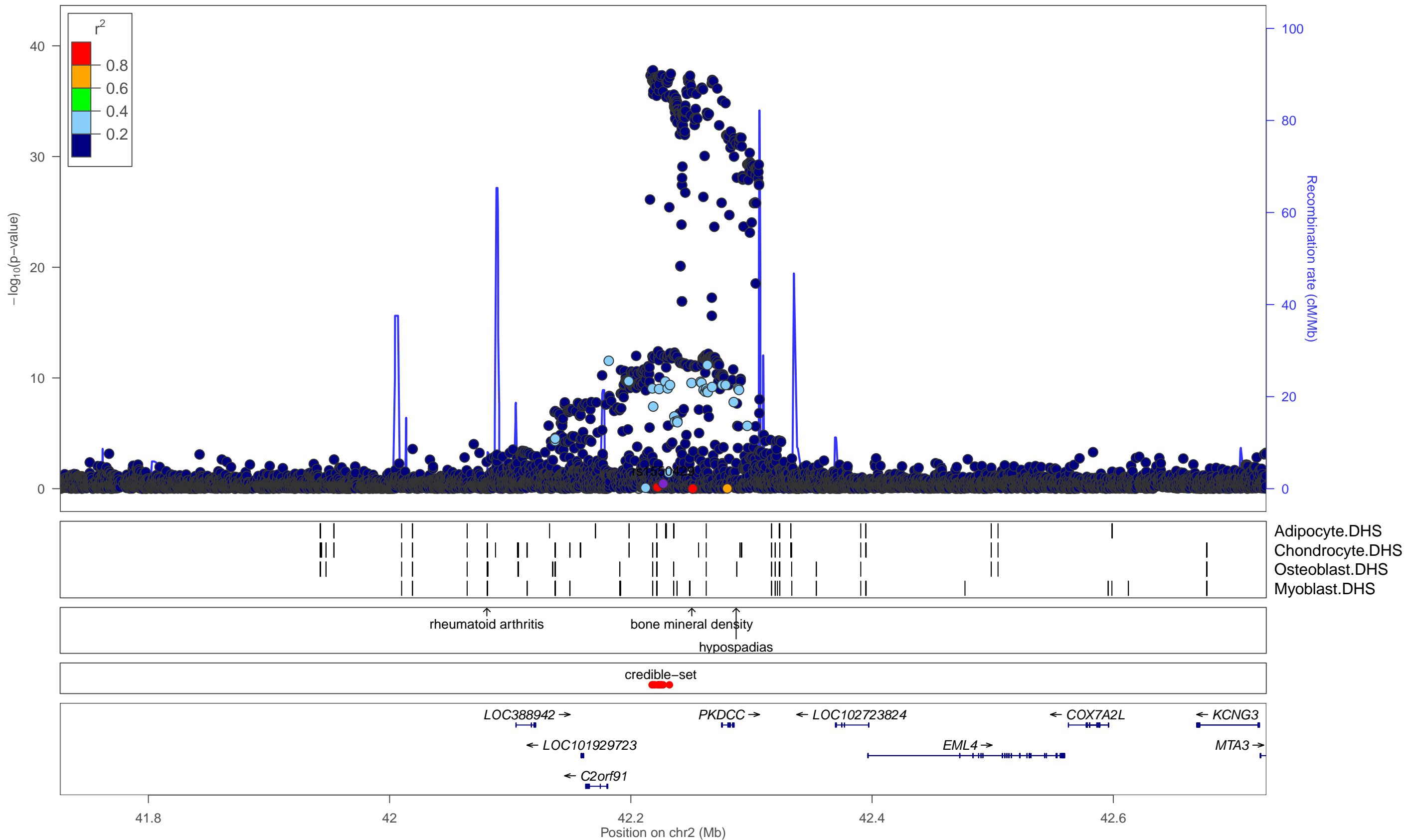
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	42.08062	rheumatoid arthritis	Padyukov L	14/12/2010	Ann Rheum Dis	21156761	rs4305317	EFO_0000685	GCST000917
2	42.25055	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7584262	EFO_0003923	GCST001482
2	42.28731	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs988958	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34863191	2	42.21762	2.8217	credible-set	red
rs35637955	2	42.21769	2.3458	credible-set	red
rs7576689	2	42.21836	3.0422	credible-set	red
rs67710195	2	42.21938	2.0103	credible-set	red
rs7595175	2	42.22001	2.2586	credible-set	red
rs13426845	2	42.22253	2.2825	credible-set	red
rs13426871	2	42.22268	2.3403	credible-set	red
rs13426883	2	42.22273	2.3503	credible-set	red
rs10208815	2	42.22313	2.3875	credible-set	red
rs12712815	2	42.22402	2.4170	credible-set	red
rs12712816	2	42.22405	2.4418	credible-set	red
rs35297530	2	42.22483	2.3604	credible-set	red
rs10171410	2	42.22484	2.0498	credible-set	red
rs7583681	2	42.22570	2.4557	credible-set	red
rs1550429	2	42.22684	5.3625	credible-set	red
rs6758518	2	42.23202	2.1606	credible-set	red

eBMD SNP INDEX 031



date: Wed Jun 28 21:16:46 2017

build: hg19

display range: chr2:41726844–42726844 [41726844–42726844]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:42226844

number of SNPs plotted: 7245

min P-value: 1.6E-38 [chr2:42218358]

max P-value: 1E0 [chr2:41795246]

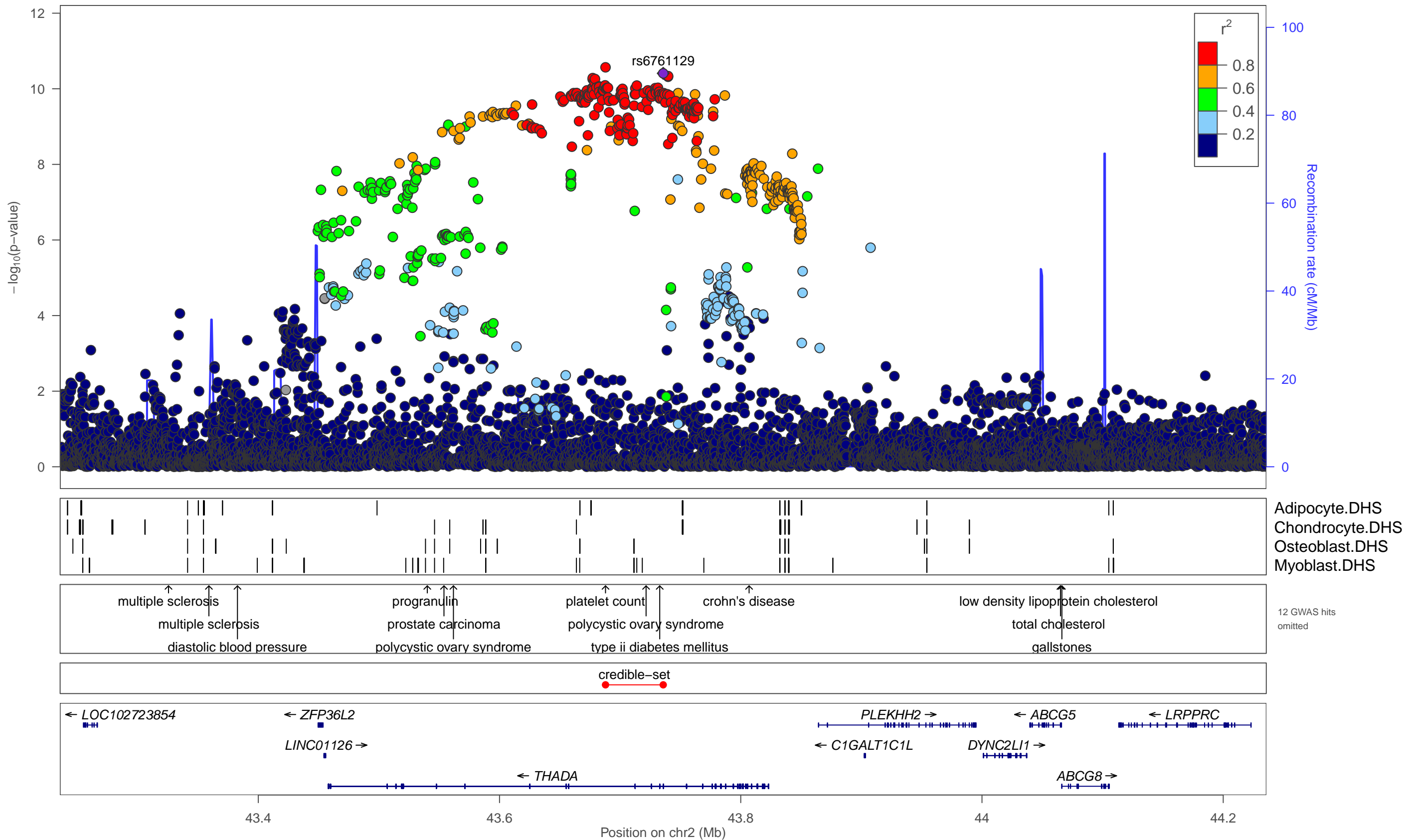
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	42.08062	rheumatoid arthritis	Padyukov L	14/12/2010	Ann Rheum Dis	21156761	rs4305317	EFO_0000685	GCST000917
2	42.25055	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7584262	EFO_0003923	GCST001482
2	42.28731	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs988958	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34863191	2	42.21762	2.8189	credible-set	red
rs35637955	2	42.21769	2.3431	credible-set	red
rs7576689	2	42.21836	3.0393	credible-set	red
rs67710195	2	42.21938	2.0079	credible-set	red
rs7595175	2	42.22001	2.2559	credible-set	red
rs13426845	2	42.22253	2.2799	credible-set	red
rs13426871	2	42.22268	2.3377	credible-set	red
rs13426883	2	42.22273	2.3476	credible-set	red
rs10208815	2	42.22313	2.3847	credible-set	red
rs12712815	2	42.22402	2.4143	credible-set	red
rs12712816	2	42.22405	2.4390	credible-set	red
rs35297530	2	42.22483	2.3577	credible-set	red
rs10171410	2	42.22484	2.0473	credible-set	red
rs7583681	2	42.22570	2.4530	credible-set	red
rs1550429	2	42.22684	5.3596	credible-set	red
rs6758518	2	42.23202	2.1580	credible-set	red

eBMD SNP INDEX 032



date: Wed Jun 28 21:20:39 2017

build: hg19

display range: chr2:43235713–44235713 [43235713–44235713]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:43735713

number of SNPs plotted: 7212

min P-value: 2.7E-11 [chr2:43687879]

max P-value: 1E0 [chr2:43315839]

omitted GWAS Hits: chr2:43.687879–platelet count, chr2:44.06509–total cholesterol

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

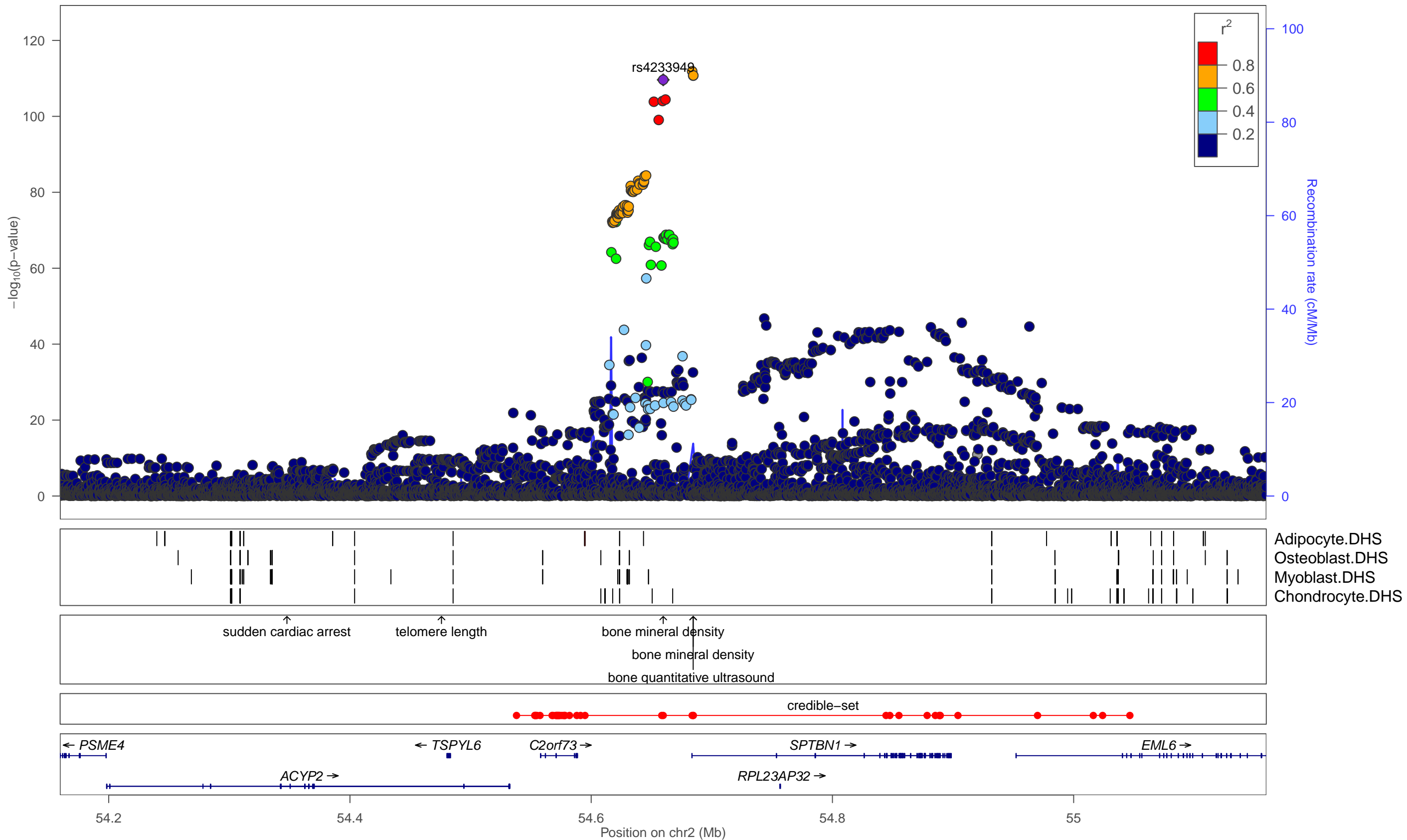
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	43.32557	multiple sclerosis	Patsopoulos NA	1/12/2011	Ann Neurol	22190364	rs6718520	EFO_0003885	GCST001341
2	43.35906	multiple sclerosis	Sawcer S	11/08/2011	Nature	21833088	rs12466022	EFO_0003885	GCST001198
2	43.38274	diastolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs7604423	EFO_0006336	GCST003273
2	43.54013	progranulin	Ludwig KU	5/08/2012	Nat Genet	22863734	rs7590268	EFO_0004625	GCST001628
2	43.55395	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs1465618	EFO_0001663	GCST000488
2	43.56178	polycystic ovary syndrome	Day FR	29/09/2015	Nat Commun	26416764	rs7563201	EFO_0000660	GCST003144
2	43.63884	polycystic ovary syndrome	Chen ZJ	12/12/2010	Nat Genet	21151128	rs13429458	EFO_0000660	GCST000914
2	43.63884	polycystic ovary syndrome	Shi Y	12/08/2012	Nat Genet	22885925	rs13429458	EFO_0000660	GCST001634
2	43.68788	platelet count	Gieger C	30/11/2011	Nature	22139419	rs17030845	EFO_0004309	GCST001337
2	43.72151	polycystic ovary syndrome	Chen ZJ	12/12/2010	Nat Genet	21151128	rs12478601	EFO_0000660	GCST000914
2	43.73282	type ii diabetes mellitus	Zeggini E	30/03/2008	Nat Genet	18372903	rs7578597	EFO_0001360	GCST000167
2	43.80692	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs10495903	EFO_0000384	GCST000879
2	43.80692	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs10495903	EFO_0000384	GCST003044
2	43.80692	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs10495903	EFO_0003767	GCST001725
2	43.80935	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs78487399	EFO_0003767	GCST003043
2	44.06509	low density lipoprotein cholesterol	Aulchenko YS	7/12/2008	Nat Genet	19060911	rs6756629	EFO_0004611	GCST000282
2	44.06509	total cholesterol	Aulchenko YS	7/12/2008	Nat Genet	19060911	rs6756629	EFO_0004574	GCST000285
2	44.06625	gallstones	Buch S	15/07/2007	Nat Genet	17632509	rs11887534	EFO_0004210	GCST000055
2	44.07258	lipid	Chasman DI	20/11/2009	PLoS Genet	19936222	rs4299376	EFO_0004529	GCST000533
2	44.07258	low density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs4299376	EFO_0004611	GCST000759
2	44.07258	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4299376	EFO_0004611	GCST002222
2	44.07258	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs4299376	EFO_0004574	GCST000760
2	44.07258	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4299376	EFO_0004574	GCST002221
2	44.07366	phytosterol	Teupser D	7/06/2010	Circ Cardiovasc Genet	20529992	rs41360247	EFO_0004862	GCST000694
2	44.07388	low density lipoprotein cholesterol	Kathiresan S	7/12/2008	Nat Genet	19060906	rs6544713	EFO_0004611	GCST000287
2	44.07443	lipid	Coram MA	29/05/2013	Am J Hum Genet	23726366	rs4245791	EFO_0004529	GCST002042
2	44.07443	phytosterol	Teupser D	7/06/2010	Circ Cardiovasc Genet	20529992	rs4245791	EFO_0004862	GCST000694
2	44.07548	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs76866386	EFO_0004574	GCST002896
2	44.07931	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs72875462	EFO_0004611	GCST002898

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17030845	2	43.68788	2.1822	credible-set	red
rs6761129	2	43.73571	2.0194	credible-set	red

eBMD SNP INDEX 033



date: Wed Jun 28 21:20:38 2017

build: hg19

display range: chr2:54159707–55159707 [54159707–55159707]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:54659707

number of SNPs plotted: 6732

min P-value: 1.3E-112 [chr2:54683711]

max P-value: 1E0 [chr2:54205353]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	54.34775	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs1559040	EFO_0004278	GCST001099
2	54.47587	telomere length	Codd V	1/04/2013	Nat Genet	23535734	rs11125529	EFO_0004505	GCST001936
2	54.65971	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4233949	EFO_0003923	GCST001482
2	54.68456	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs11898505	EFO_0003923	GCST000494
2	54.68456	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs11898505	EFO_0004514	GCST002335

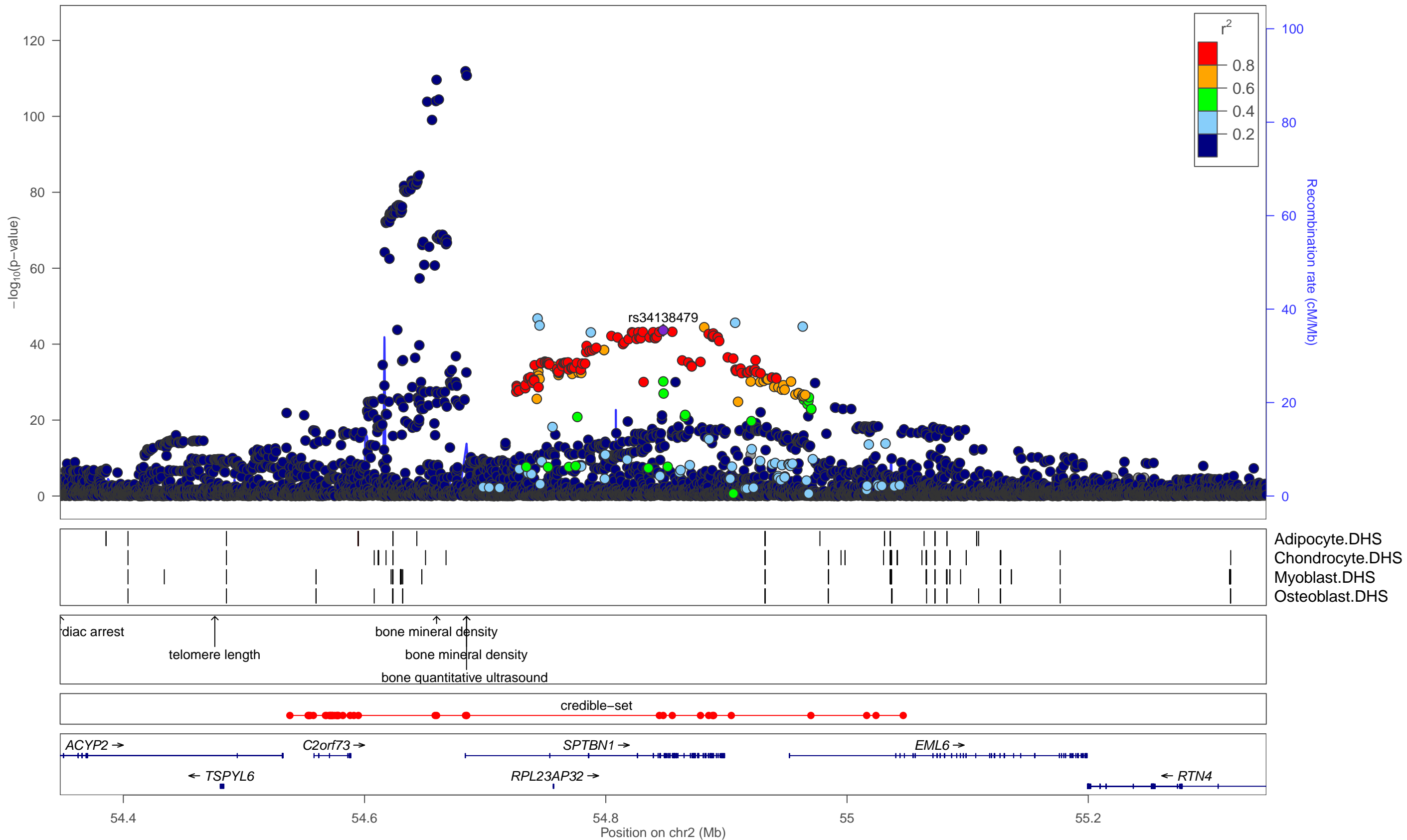
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13004355	2	54.53808	2.0346	credible-set	red
rs2204628	2	54.55322	2.4326	credible-set	red
rs1727532	2	54.55338	2.2829	credible-set	red
rs1385275	2	54.55400	2.6302	credible-set	red
rs1385276	2	54.55411	2.4763	credible-set	red
rs1682138	2	54.55500	2.6263	credible-set	red
rs1727528	2	54.55758	2.0963	credible-set	red
rs12713256	2	54.56759	2.4256	credible-set	red
rs10196726	2	54.56829	2.5884	credible-set	red
rs4567978	2	54.57056	2.2939	credible-set	red
rs3813463	2	54.57115	2.2785	credible-set	red
rs7566819	2	54.57164	2.1922	credible-set	red
rs112578436	2	54.57185	2.4120	credible-set	red
rs1405832	2	54.57215	2.2922	credible-set	red
rs4606970	2	54.57318	2.4254	credible-set	red
rs6751866	2	54.57321	2.3807	credible-set	red
rs941351	2	54.57349	2.1040	credible-set	red
rs1405833	2	54.57494	2.0422	credible-set	red
rs10182366	2	54.57655	2.3840	credible-set	red
rs12617259	2	54.57756	2.5079	credible-set	red
rs10201089	2	54.57811	2.1067	credible-set	red
rs10165083	2	54.57831	2.2721	credible-set	red
rs7584922	2	54.58202	2.2182	credible-set	red
rs2280721	2	54.58805	2.2212	credible-set	red
rs6748355	2	54.59116	2.2602	credible-set	red
rs4459768	2	54.59488	2.0066	credible-set	red
rs79900205	2	54.65850	2.2016	credible-set	red
rs4233949	2	54.65971	6.0898	credible-set	red
rs4305309	2	54.68371	3.7317	credible-set	red
rs11898505	2	54.68456	3.0395	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4024576	2	54.68467	3.0153	credible-set	red
rs2941595	2	54.84442	2.3439	credible-set	red
rs34138479	2	54.84761	3.1297	credible-set	red
rs2971887	2	54.85514	2.2777	credible-set	red
rs11412911	2	54.87852	2.4912	credible-set	red
rs2941586	2	54.88531	2.9883	credible-set	red
rs2971879	2	54.88853	2.1299	credible-set	red
rs2971877	2	54.88914	3.0313	credible-set	red
rs1047499	2	54.88939	2.3191	credible-set	red
rs78857342	2	54.90406	3.0985	credible-set	red
rs75394800	2	54.97005	2.5809	credible-set	red
2:55016284_C_G	2	55.01628	2.7337	credible-set	red
2:55024023_C_G	2	55.02402	2.1534	credible-set	red
rs112112610	2	55.04660	2.2834	credible-set	red

eBMD SNP INDEX 034



date: Wed Jun 28 21:18:07 2017

build: hg19

display range: chr2:54347613–55347613 [54347613–55347613]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:54847613

number of SNPs plotted: 6832

min P-value: 1.3E-112 [chr2:54683711]

max P-value: 1E0 [chr2:54412914]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	54.34775	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs1559040	EFO_0004278	GCST001099
2	54.47587	telomere length	Codd V	1/04/2013	Nat Genet	23535734	rs11125529	EFO_0004505	GCST001936
2	54.65971	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4233949	EFO_0003923	GCST001482
2	54.68456	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs11898505	EFO_0003923	GCST000494
2	54.68456	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs11898505	EFO_0004514	GCST002335

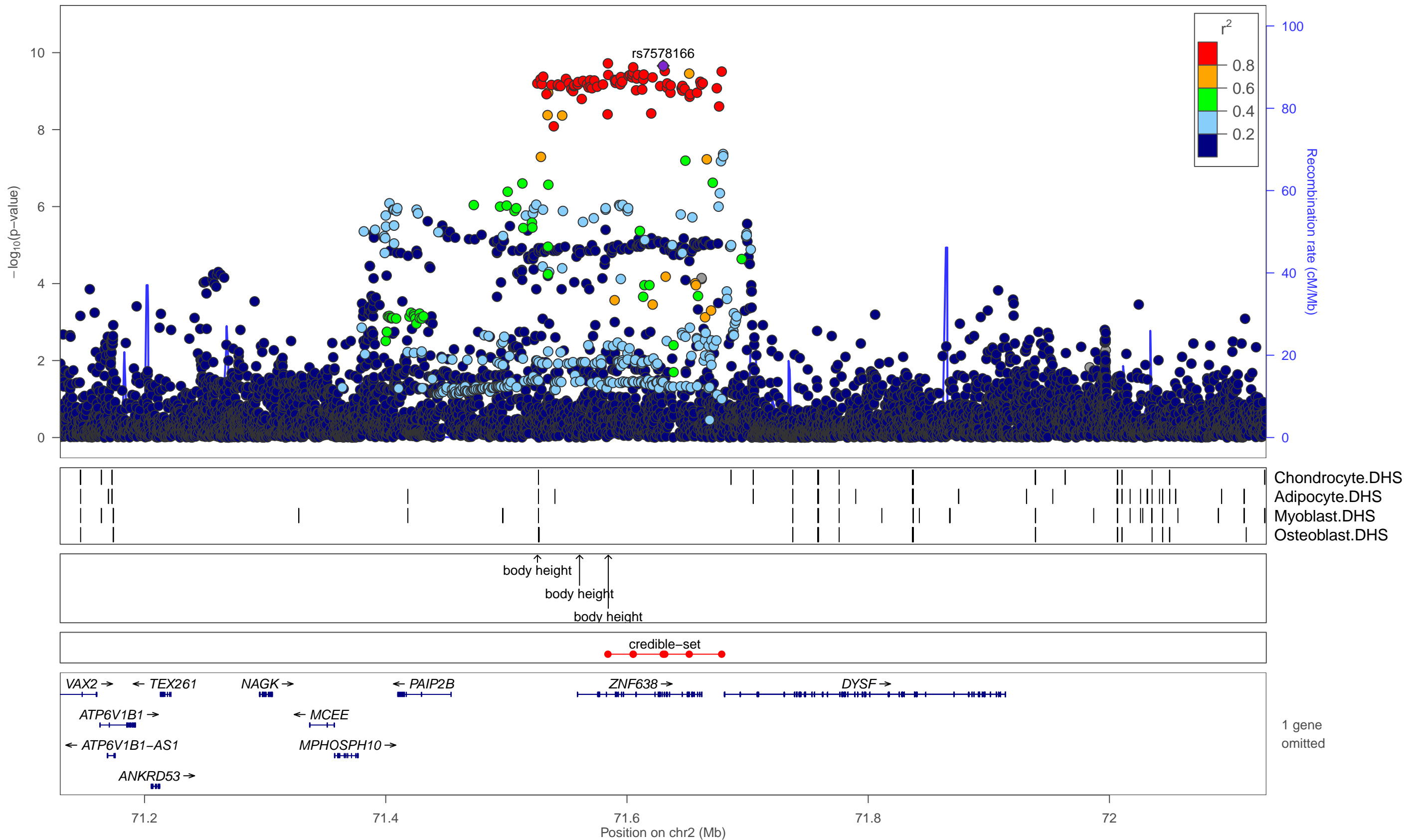
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13004355	2	54.53808	2.0546	credible-set	red
rs2204628	2	54.55322	2.4430	credible-set	red
rs1727532	2	54.55338	2.2753	credible-set	red
rs1385275	2	54.55400	2.6276	credible-set	red
rs1385276	2	54.55411	2.4773	credible-set	red
rs1682138	2	54.55500	2.6314	credible-set	red
rs1727528	2	54.55758	2.1110	credible-set	red
rs12713256	2	54.56759	2.4494	credible-set	red
rs10196726	2	54.56829	2.5750	credible-set	red
rs4567978	2	54.57056	2.3057	credible-set	red
rs3813463	2	54.57115	2.2629	credible-set	red
rs7566819	2	54.57164	2.2374	credible-set	red
rs112578436	2	54.57185	2.4215	credible-set	red
rs1405832	2	54.57215	2.3003	credible-set	red
rs4606970	2	54.57318	2.4004	credible-set	red
rs6751866	2	54.57321	2.3970	credible-set	red
rs941351	2	54.57349	2.1139	credible-set	red
rs1405833	2	54.57494	2.0690	credible-set	red
rs10182366	2	54.57655	2.3936	credible-set	red
rs5831298	2	54.57733	2.0265	credible-set	red
rs12617259	2	54.57756	2.5085	credible-set	red
rs10201089	2	54.57811	2.1405	credible-set	red
rs10165083	2	54.57831	2.2696	credible-set	red
rs7584922	2	54.58202	2.1992	credible-set	red
rs2280721	2	54.58805	2.2319	credible-set	red
rs6748355	2	54.59116	2.2580	credible-set	red
rs4459768	2	54.59488	2.0004	credible-set	red
rs79900205	2	54.65850	2.1794	credible-set	red
rs4233949	2	54.65971	6.1999	credible-set	red
rs4305309	2	54.68371	3.7711	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11898505	2	54.68456	3.0117	credible-set	red
rs4024576	2	54.68467	3.0028	credible-set	red
rs2941595	2	54.84442	2.3682	credible-set	red
rs34138479	2	54.84761	3.1363	credible-set	red
rs2971887	2	54.85514	2.2738	credible-set	red
rs11412911	2	54.87852	2.4723	credible-set	red
rs2941586	2	54.88531	3.0001	credible-set	red
rs2971879	2	54.88853	2.1613	credible-set	red
rs2971877	2	54.88914	3.0286	credible-set	red
rs1047499	2	54.88939	2.3041	credible-set	red
rs78857342	2	54.90406	3.0765	credible-set	red
rs75394800	2	54.97005	2.5925	credible-set	red
2:55016284_C_G	2	55.01628	2.7302	credible-set	red
2:55024023_C_G	2	55.02402	2.1545	credible-set	red
rs112112610	2	55.04660	2.2739	credible-set	red

eBMD SNP INDEX 035



date: Wed Jun 28 21:18:14 2017

build: hg19

display range: chr2:71130041–72130041 [71130041–72130041]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:71630041

number of SNPs plotted: 7130

min P-value: 1.9E-10 [chr2:71584201]

max P-value: 1E0 [chr2:71166706]

omitted Genes: OR7E91P

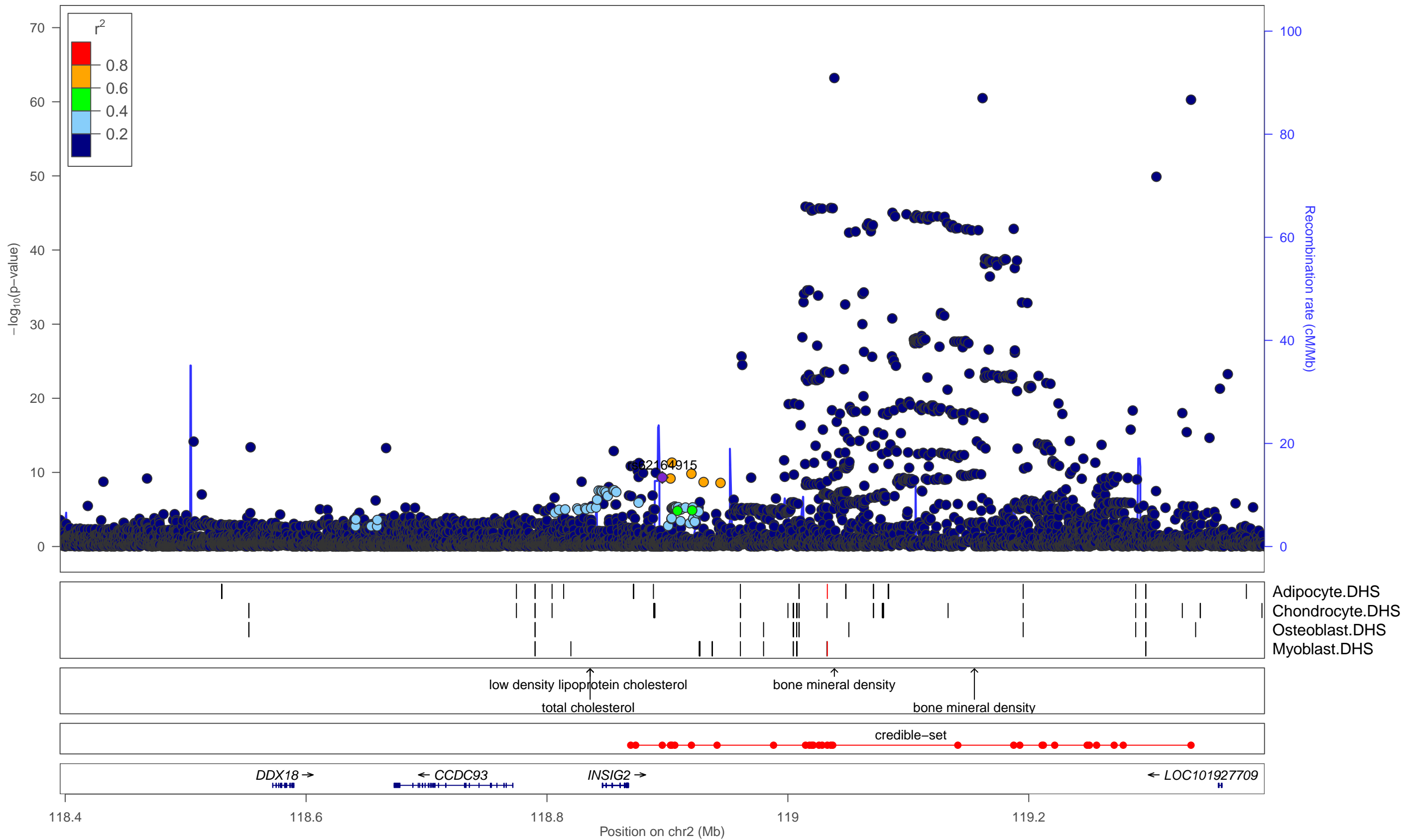
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	71.52578	body height	Hao Y	3/03/2013	Hum Genet	23456168	rs12612930	EFO_0004339	GCST001885
2	71.56067	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs3771381	EFO_0004339	GCST002702
2	71.58449	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs7568069	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs56408212	2	71.58420	2.2723	credible-set	red
rs17749725	2	71.60513	2.0300	credible-set	red
rs17749748	2	71.60514	2.1720	credible-set	red
rs7578166	2	71.63004	2.1961	credible-set	red
rs4852256	2	71.63134	2.0703	credible-set	red
rs7593986	2	71.65160	2.0103	credible-set	red
rs4852257	2	71.67852	2.0575	credible-set	red

eBMD SNP INDEX 036



date: Wed Jun 28 21:23:26 2017

build: hg19

display range: chr2:118395728–119395728 [118395728–119395728]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:118895728

number of SNPs plotted: 6131

min P-value: 6.2E-64 [chr2:119038598]

max P-value: 1E0 [chr2:118472194]

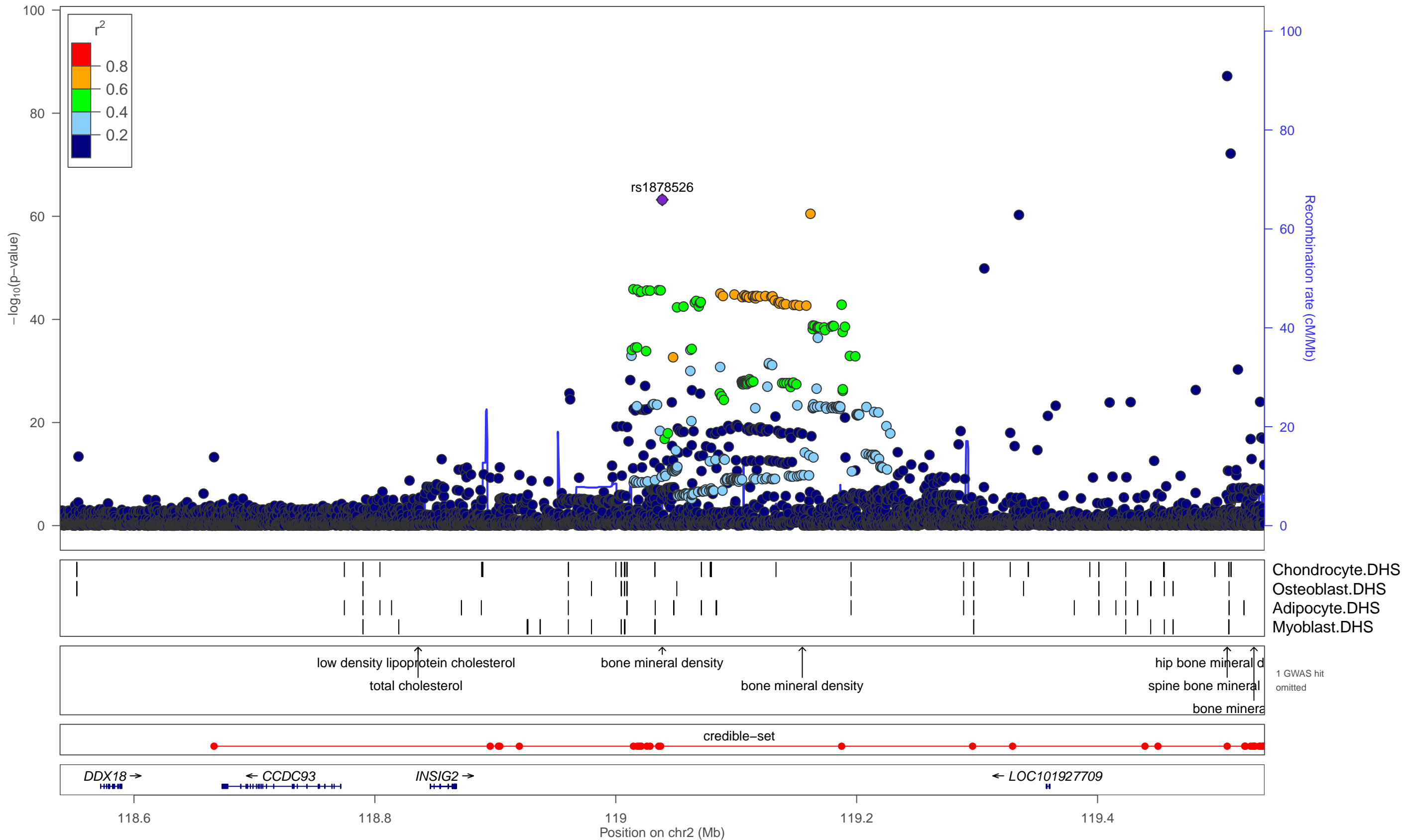
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	118.8358	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs10490626	EFO_0004611	GCST002222
2	118.8358	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs10490626	EFO_0004574	GCST002221
2	119.0386	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1878526	EFO_0003923	GCST001482
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17047773	2	118.8695	3.0654	credible-set	red
rs11681903	2	118.8736	2.5467	credible-set	red
rs62164915	2	118.8957	2.4789	credible-set	red
rs55858069	2	118.9026	2.3152	credible-set	red
rs62165280	2	118.9037	2.9489	credible-set	red
rs78349210	2	118.9061	2.0222	credible-set	red
rs56413400	2	118.9199	2.6312	credible-set	red
rs78223033	2	118.9412	2.2011	credible-set	red
rs537292553	2	118.9881	2.3787	credible-set	red
rs11892153	2	119.0147	2.7161	credible-set	red
rs12619302	2	119.0179	2.7592	credible-set	red
rs80185390	2	119.0197	3.4205	credible-set	red
rs11890425	2	119.0211	2.2493	credible-set	red
2:119025830_G_T	2	119.0258	2.6168	credible-set	red
rs77969699	2	119.0285	2.4822	credible-set	red
rs111480579	2	119.0328	3.0700	credible-set	red
rs78567423	2	119.0357	2.4795	credible-set	red
rs10197878	2	119.0373	2.4015	credible-set	red
rs189355256	2	119.1411	2.4071	credible-set	red
rs78587638	2	119.1875	5.0442	credible-set	red
rs200788287	2	119.1926	3.5034	credible-set	red
rs114555270	2	119.2111	2.3807	credible-set	red
rs6752712	2	119.2121	5.2258	credible-set	red
rs138459817	2	119.2215	3.0287	credible-set	red
rs77662273	2	119.2485	2.2981	credible-set	red
rs147710543	2	119.2503	2.6410	credible-set	red
rs539037155	2	119.2563	2.0004	credible-set	red
rs149941259	2	119.2709	5.3288	credible-set	red
rs140713924	2	119.2785	2.7252	credible-set	red
rs148285156	2	119.3347	13.5872	credible-set	red

eBMD SNP INDEX 037



date: Wed Jun 28 21:23:51 2017

build: hg19

display range: chr2:118538598–119538598 [118538598–119538598]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:119038598

number of SNPs plotted: 5927

min P-value: 6.2E-88 [chr2:119507607]

max P-value: 1E0 [chr2:118550929]

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	118.8358	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs10490626	EFO_0004611	GCST002222
2	118.8358	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs10490626	EFO_0004574	GCST002221
2	119.0386	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1878526	EFO_0003923	GCST001482
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA
2	119.5076	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007702	GCST003389
2	119.5076	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007701	GCST003388
2	119.5298	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs55983207	EFO_0004339	NA
2	119.5298	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs55983207	EFO_0007702	GCST003389

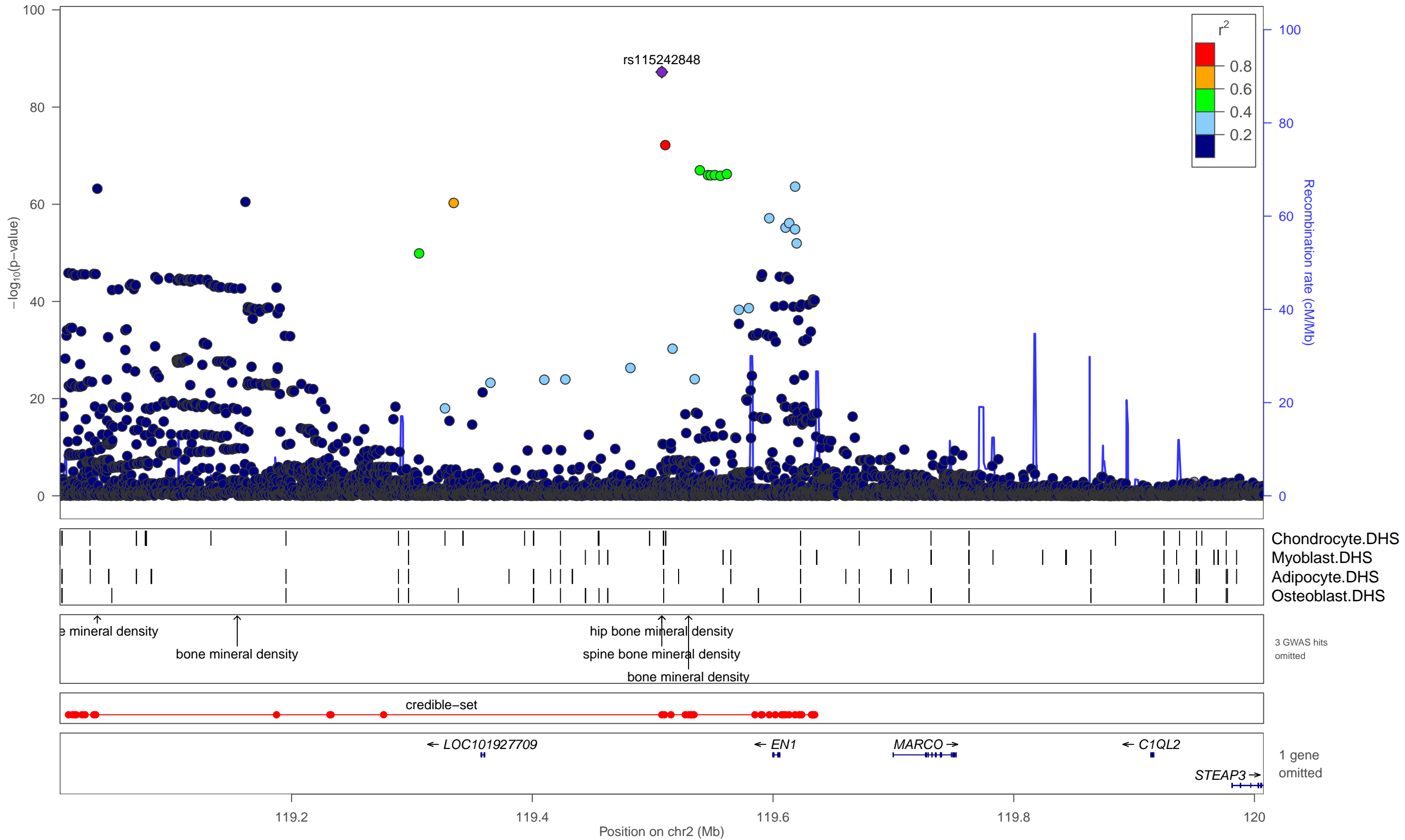
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs74544420	2	118.6664	2.3734	credible-set	red
rs62164915	2	118.8957	2.2043	credible-set	red
rs55858069	2	118.9026	2.6766	credible-set	red
rs62165280	2	118.9037	3.7886	credible-set	red
rs56413400	2	118.9199	2.8651	credible-set	red
rs11892153	2	119.0147	2.7685	credible-set	red
rs12619302	2	119.0179	2.8697	credible-set	red
rs80185390	2	119.0197	3.3794	credible-set	red
rs11890425	2	119.0211	2.3237	credible-set	red
2:119025830_G_T	2	119.0258	2.7003	credible-set	red
rs77969699	2	119.0285	2.2878	credible-set	red
rs78567423	2	119.0357	2.2685	credible-set	red
rs10197878	2	119.0373	2.1874	credible-set	red
rs78587638	2	119.1875	5.0063	credible-set	red
rs7424391	2	119.2963	2.0987	credible-set	red
rs6542472	2	119.3294	2.0210	credible-set	red
rs140770612	2	119.4393	2.2243	credible-set	red
rs145972645	2	119.4501	2.6518	credible-set	red
rs115242848	2	119.5076	13.5723	credible-set	red
rs4848521	2	119.5222	2.5711	credible-set	red
rs35575172	2	119.5225	2.7719	credible-set	red
rs10177490	2	119.5227	2.9214	credible-set	red
rs10199437	2	119.5271	4.7495	credible-set	red
2:119528976_AC_A	2	119.5290	3.4868	credible-set	red
rs55983207	2	119.5298	13.5723	credible-set	red
rs13382772	2	119.5306	2.0109	credible-set	red
rs7592930	2	119.5343	2.6144	credible-set	red
rs11123493	2	119.5351	2.5934	credible-set	red
rs10192385	2	119.5372	2.5046	credible-set	red
rs72834486	2	119.5373	2.0610	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6760283	2	119.5384	4.3705	credible-set	red

eBMD SNP INDEX 038



date: Wed Jun 28 21:24:22 2017

build: hg19

display range: chr2:119007607–120007607 [119007607–120007607]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:119507607

number of SNPs plotted: 6319

min P-value: 6.2E-88 [chr2:119507607]

max P-value: 1E0 [chr2:119121553]

omitted Genes: STEAP3-AS1

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	119.0386	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1878526	EFO_0003923	GCST001482
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA
2	119.5076	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007702	GCST003389
2	119.5076	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007701	GCST003388
2	119.5298	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs55983207	EFO_0004339	NA
2	119.5298	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs55983207	EFO_0007702	GCST003389
2	119.5460	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11692564	EFO_0004339	NA
2	119.6134	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs188303909	EFO_0004339	NA

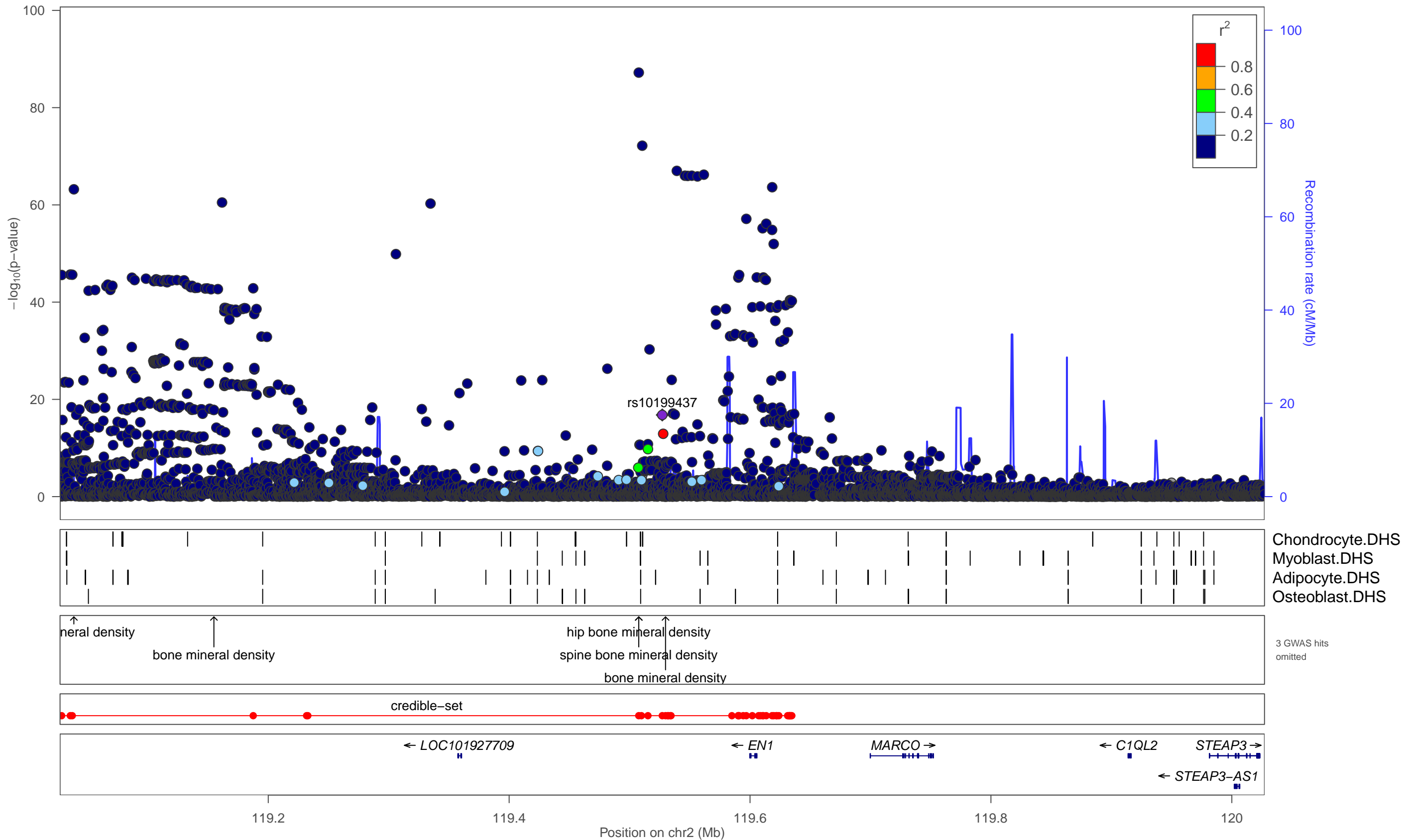
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11892153	2	119.0147	2.6194	credible-set	red
rs12619302	2	119.0179	2.7625	credible-set	red
rs80185390	2	119.0197	3.6050	credible-set	red
rs11890425	2	119.0211	2.0778	credible-set	red
2:119025830_G_T	2	119.0258	2.4384	credible-set	red
rs77969699	2	119.0285	2.4096	credible-set	red
rs78567423	2	119.0357	2.4897	credible-set	red
rs10197878	2	119.0373	2.3171	credible-set	red
rs78587638	2	119.1875	5.6499	credible-set	red
rs72840868	2	119.2318	2.6403	credible-set	red
rs148262827	2	119.2328	2.5561	credible-set	red
rs56202641	2	119.2765	2.0387	credible-set	red
rs115242848	2	119.5076	13.6003	credible-set	red
rs162742	2	119.5098	4.9273	credible-set	red
rs332674	2	119.5152	3.8252	credible-set	red
rs10199437	2	119.5271	3.3267	credible-set	red
rs55983207	2	119.5298	13.6003	credible-set	red
rs55794114	2	119.5317	2.8492	credible-set	red
rs56055003	2	119.5321	2.7201	credible-set	red
rs10196575	2	119.5338	2.8057	credible-set	red
rs7605039	2	119.5344	2.6825	credible-set	red
rs67800871	2	119.5849	2.1003	credible-set	red
rs56358111	2	119.5901	2.1356	credible-set	red
rs62159863	2	119.5903	2.3114	credible-set	red
rs62159864	2	119.5910	2.7663	credible-set	red
rs192508258	2	119.5969	2.8406	credible-set	red
rs4144782	2	119.6019	3.1220	credible-set	red
rs62159866	2	119.6071	3.0251	credible-set	red
rs3754855	2	119.6086	3.8227	credible-set	red
rs144832051	2	119.6104	2.1318	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs188303909	2	119.6134	2.6351	credible-set	red
rs537474121	2	119.6183	2.1033	credible-set	red
rs17007470	2	119.6217	2.1699	credible-set	red
rs66677656	2	119.6223	2.1226	credible-set	red
rs67731576	2	119.6239	2.1152	credible-set	red
rs12618885	2	119.6320	2.0510	credible-set	red
rs34441013	2	119.6327	3.4708	credible-set	red
rs56061010	2	119.6330	2.3036	credible-set	red
rs34323836	2	119.6331	3.3588	credible-set	red
rs67606735	2	119.6342	2.1977	credible-set	red
rs11693846	2	119.6347	2.4202	credible-set	red

eBMD SNP INDEX 039



date: Wed Jun 28 21:26:06 2017

build: hg19

display range: chr2:119027123–120027123 [119027123–120027123]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:119527123

number of SNPs plotted: 6358

min P-value: 6.2E-88 [chr2:119507607]

max P-value: 1E0 [chr2:119121553]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	119.0386	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1878526	EFO_0003923	GCST001482
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA
2	119.5076	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007702	GCST003389
2	119.5076	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007701	GCST003388
2	119.5298	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs55983207	EFO_0004339	NA
2	119.5298	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs55983207	EFO_0007702	GCST003389
2	119.5460	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11692564	EFO_0004339	NA
2	119.6134	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs188303909	EFO_0004339	NA

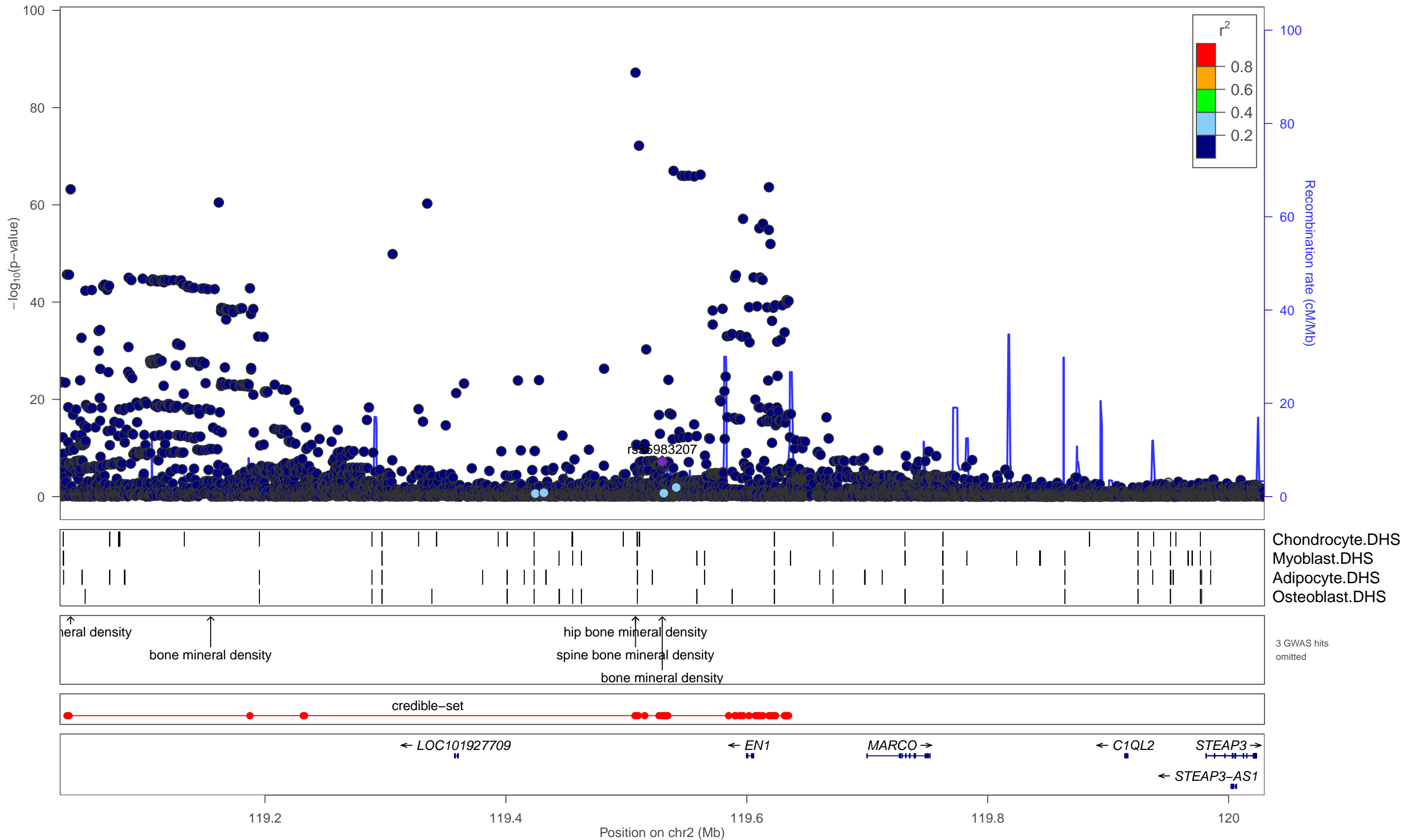
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs77969699	2	119.0285	3.3109	credible-set	red
rs78567423	2	119.0357	3.3974	credible-set	red
rs10197878	2	119.0373	3.1883	credible-set	red
rs78587638	2	119.1875	4.9604	credible-set	red
rs72840868	2	119.2318	2.4183	credible-set	red
rs148262827	2	119.2328	2.3401	credible-set	red
rs115242848	2	119.5076	13.6028	credible-set	red
rs162742	2	119.5098	5.3168	credible-set	red
rs332674	2	119.5152	4.1322	credible-set	red
rs10199437	2	119.5271	3.0692	credible-set	red
rs55983207	2	119.5298	13.6028	credible-set	red
rs55794114	2	119.5317	2.9637	credible-set	red
rs56055003	2	119.5321	2.8001	credible-set	red
rs10196575	2	119.5338	2.8878	credible-set	red
rs7605039	2	119.5344	2.7693	credible-set	red
rs67800871	2	119.5849	2.2311	credible-set	red
rs56358111	2	119.5901	2.2469	credible-set	red
rs62159863	2	119.5903	2.4496	credible-set	red
rs62159864	2	119.5910	2.8767	credible-set	red
rs56245258	2	119.5943	2.1301	credible-set	red
rs192508258	2	119.5969	2.8577	credible-set	red
rs4144782	2	119.6019	3.0712	credible-set	red
rs62159866	2	119.6071	3.0951	credible-set	red
rs3754855	2	119.6086	3.7866	credible-set	red
rs144832051	2	119.6104	2.2079	credible-set	red
rs62159867	2	119.6110	2.0624	credible-set	red
rs188303909	2	119.6134	2.6897	credible-set	red
rs537474121	2	119.6183	2.1897	credible-set	red
rs116564013	2	119.6196	2.0296	credible-set	red
rs17007470	2	119.6217	2.2134	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs66677656	2	119.6223	2.1751	credible-set	red
rs67731576	2	119.6239	2.1549	credible-set	red
rs56266357	2	119.6312	2.0771	credible-set	red
rs12618885	2	119.6320	2.1319	credible-set	red
rs34441013	2	119.6327	3.3385	credible-set	red
rs56061010	2	119.6330	2.3801	credible-set	red
rs34323836	2	119.6331	3.2499	credible-set	red
rs67606735	2	119.6342	2.2891	credible-set	red
rs11693846	2	119.6347	2.2854	credible-set	red

eBMD SNP INDEX 040



date: Wed Jun 28 21:26:35 2017

build: hg19

display range: chr2:119029829–120029829 [119029829–120029829]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:119529829

number of SNPs plotted: 6361

min P-value: 6.2E-88 [chr2:119507607]

max P-value: 1E0 [chr2:119121553]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	119.0386	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1878526	EFO_0003923	GCST001482
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA
2	119.5076	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007702	GCST003389
2	119.5076	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007701	GCST003388
2	119.5298	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs55983207	EFO_0004339	NA
2	119.5298	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs55983207	EFO_0007702	GCST003389
2	119.5460	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11692564	EFO_0004339	NA
2	119.6134	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs188303909	EFO_0004339	NA

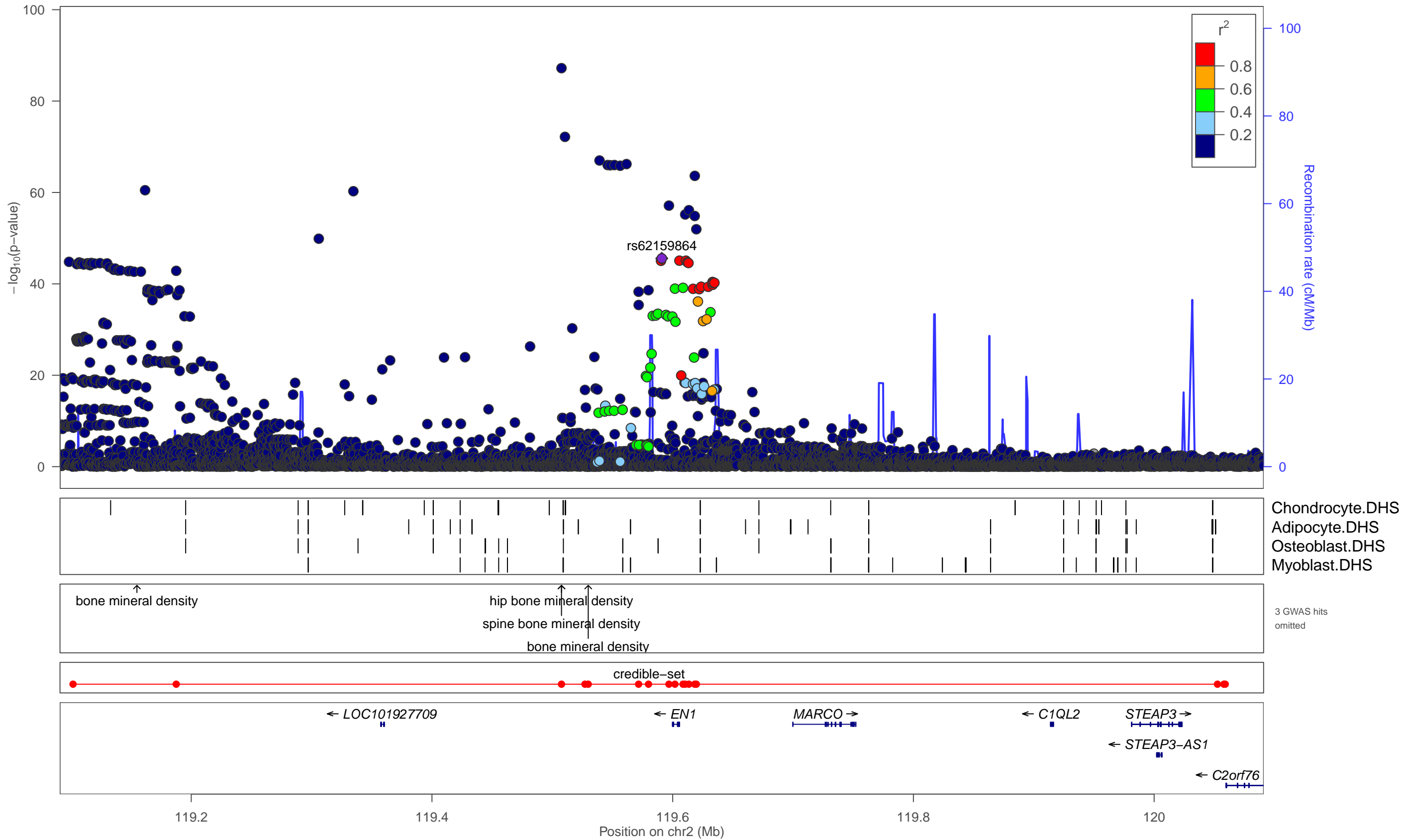
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs78567423	2	119.0357	3.7286	credible-set	red
rs10197878	2	119.0373	3.4773	credible-set	red
rs78587638	2	119.1875	5.0524	credible-set	red
rs72840868	2	119.2318	2.4459	credible-set	red
rs148262827	2	119.2328	2.3603	credible-set	red
rs332074	2	119.5072	2.2835	credible-set	red
rs115242848	2	119.5076	13.6028	credible-set	red
rs162742	2	119.5098	4.8242	credible-set	red
rs332674	2	119.5152	4.0608	credible-set	red
rs10199437	2	119.5271	3.0299	credible-set	red
rs55983207	2	119.5298	13.6028	credible-set	red
rs55794114	2	119.5317	2.9468	credible-set	red
rs56055003	2	119.5321	2.8019	credible-set	red
rs10196575	2	119.5338	2.8937	credible-set	red
rs7605039	2	119.5344	2.7752	credible-set	red
rs67800871	2	119.5849	2.2062	credible-set	red
rs56358111	2	119.5901	2.2818	credible-set	red
rs62159863	2	119.5903	2.4251	credible-set	red
rs62159864	2	119.5910	2.8953	credible-set	red
rs56245258	2	119.5943	2.1189	credible-set	red
rs192508258	2	119.5969	2.8900	credible-set	red
rs4144782	2	119.6019	3.0765	credible-set	red
rs62159866	2	119.6071	3.0964	credible-set	red
rs3754855	2	119.6086	3.7818	credible-set	red
rs144832051	2	119.6104	2.2353	credible-set	red
rs62159867	2	119.6110	2.0579	credible-set	red
rs188303909	2	119.6134	2.7207	credible-set	red
rs537474121	2	119.6183	2.2128	credible-set	red
rs116564013	2	119.6196	2.0587	credible-set	red
rs17007470	2	119.6217	2.2132	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs66677656	2	119.6223	2.1698	credible-set	red
rs67731576	2	119.6239	2.1379	credible-set	red
rs56266357	2	119.6312	2.0290	credible-set	red
rs12618885	2	119.6320	2.1107	credible-set	red
rs34441013	2	119.6327	3.3101	credible-set	red
rs56061010	2	119.6330	2.3759	credible-set	red
rs34323836	2	119.6331	3.2454	credible-set	red
rs67606735	2	119.6342	2.2707	credible-set	red
rs11693846	2	119.6347	2.1419	credible-set	red

eBMD SNP INDEX 041



date: Wed Jun 28 21:24:13 2017

build: hg19

display range: chr2:119090951–120090951 [119090951–120090951]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:119590951

number of SNPs plotted: 6419

min P-value: 6.2E-88 [chr2:119507607]

max P-value: 1E0 [chr2:119121553]

omitted GWAS Hits: NA, NA

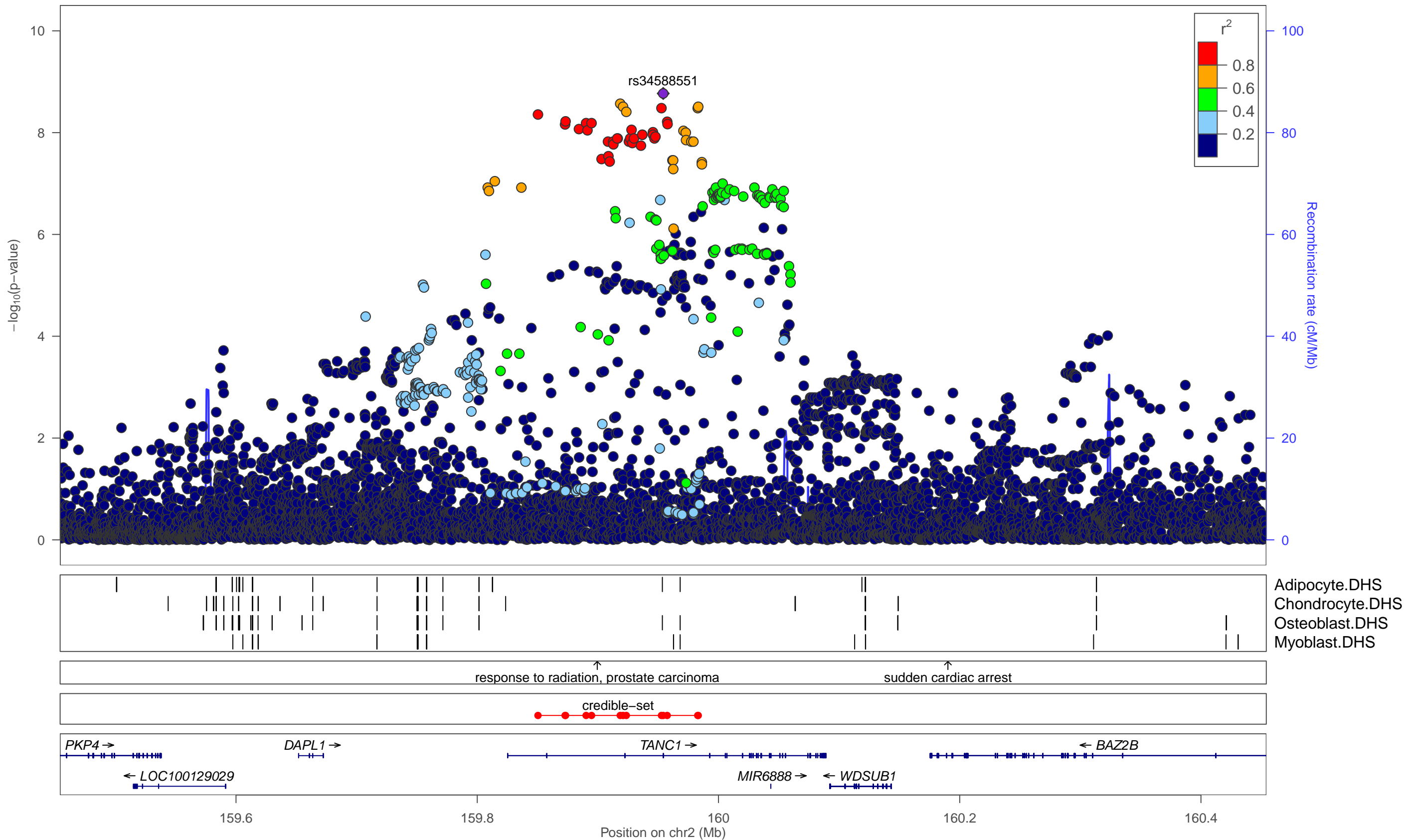
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	119.1549	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6542457	EFO_0004339	NA
2	119.5076	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007702	GCST003389
2	119.5076	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs115242848	EFO_0007701	GCST003388
2	119.5298	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs55983207	EFO_0004339	NA
2	119.5298	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs55983207	EFO_0007702	GCST003389
2	119.5460	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11692564	EFO_0004339	NA
2	119.6134	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs188303909	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs114830995	2	119.1018	5.1585	credible-set	red
rs78587638	2	119.1875	6.7654	credible-set	red
rs115242848	2	119.5076	12.8490	credible-set	red
rs10199437	2	119.5271	6.4059	credible-set	red
rs55983207	2	119.5298	13.6066	credible-set	red
rs76946110	2	119.5717	2.3368	credible-set	red
rs112483073	2	119.5799	2.1795	credible-set	red
rs192508258	2	119.5969	3.4124	credible-set	red
rs4144782	2	119.6019	3.3356	credible-set	red
rs3754855	2	119.6086	3.8725	credible-set	red
rs144832051	2	119.6104	2.5756	credible-set	red
rs188303909	2	119.6134	3.1409	credible-set	red
rs537474121	2	119.6183	2.5473	credible-set	red
rs116564013	2	119.6196	2.2956	credible-set	red
rs72840959	2	120.0526	9.5527	credible-set	red
rs7593313	2	120.0580	13.6066	credible-set	red
rs7571381	2	120.0591	13.6066	credible-set	red

eBMD SNP INDEX 042



date: Wed Jun 28 21:24:47 2017

build: hg19

display range: chr2:159454175–160454175 [159454175–160454175]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:159954175

number of SNPs plotted: 6623

min P-value: 1.7E-9 [chr2:159954175]

max P-value: 1E0 [chr2:159485785]

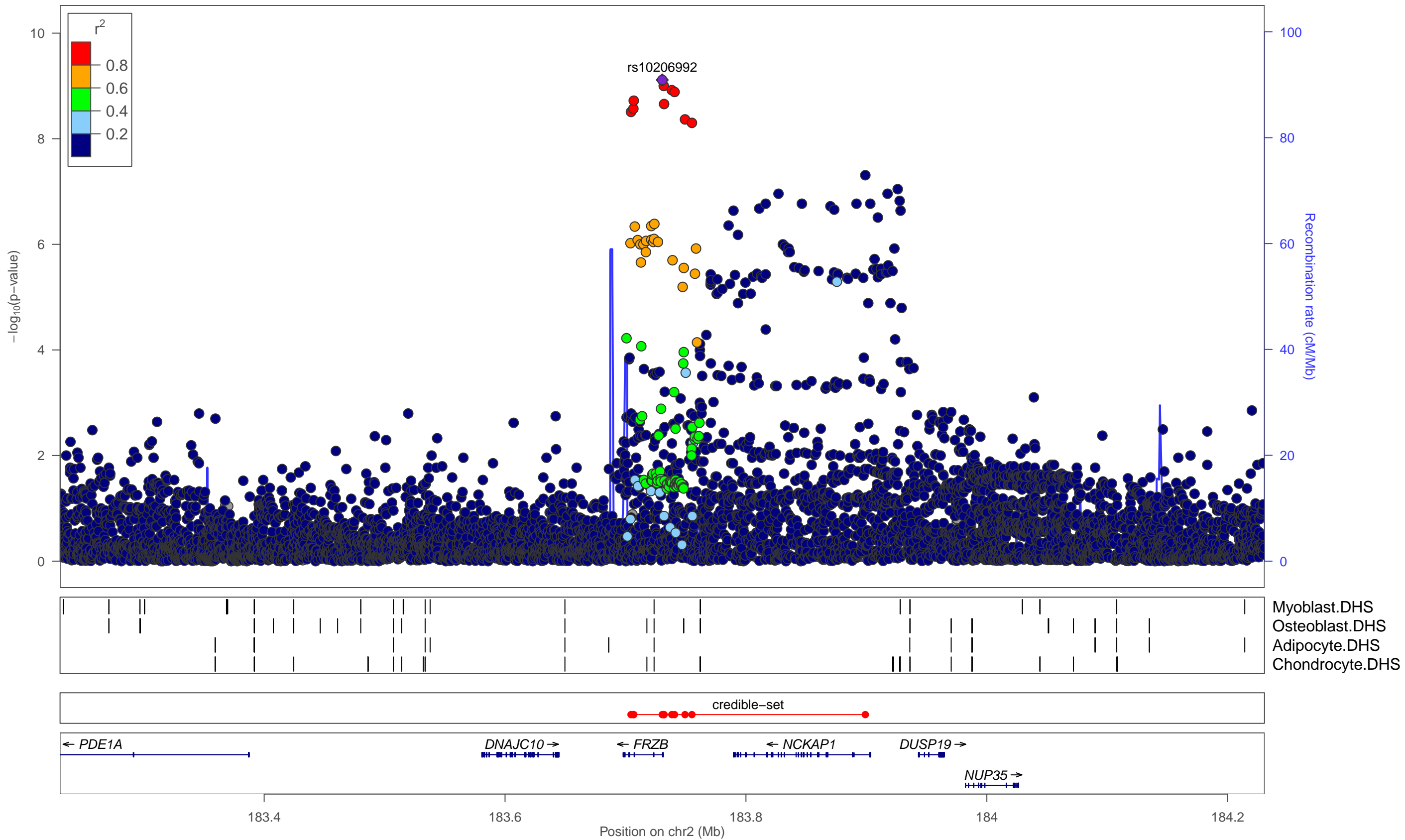
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	159.8995	response to radiation, prostate carcinoma	Fachal L	29/06/2014	Nat Genet	24974847	rs7582141	GO_0009314, EFO_0001663	GCST002511
2	160.1902	sudden cardiac arrest	Arking DE	30/06/2011	PLoS Genet	21738491	rs4665058	EFO_0004278	GCST001132

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs55639815	2	159.8503	2.2124	credible-set	red
rs55745044	2	159.8728	2.0129	credible-set	red
rs13012488	2	159.8732	2.0748	credible-set	red
rs56226193	2	159.8902	2.0383	credible-set	red
rs55812913	2	159.8947	2.0388	credible-set	red
rs56131553	2	159.9186	2.4090	credible-set	red
rs264658	2	159.9209	2.3454	credible-set	red
rs264656	2	159.9236	2.2377	credible-set	red
rs11692042	2	159.9527	2.3319	credible-set	red
rs34588551	2	159.9542	2.6462	credible-set	red
rs13021664	2	159.9575	2.0462	credible-set	red
rs56340157	2	159.9828	2.3283	credible-set	red
rs34324915	2	159.9832	2.3564	credible-set	red

eBMD SNP INDEX 043



date: Wed Jun 28 21:24:46 2017

build: hg19

display range: chr2:183230527–184230527 [183230527–184230527]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:183730527

number of SNPs plotted: 6380

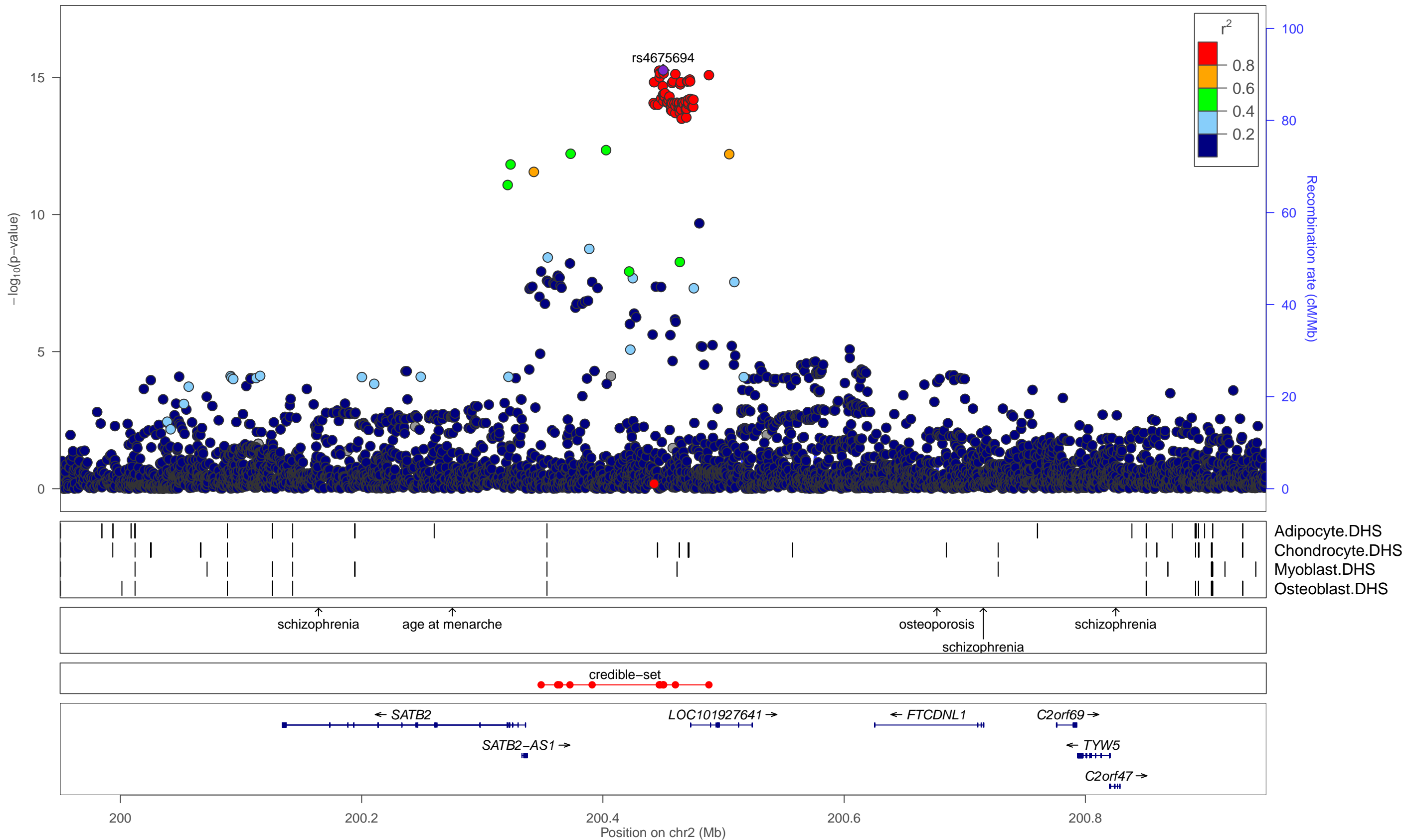
min P-value: 7.7E-10 [chr2:183730527]

max P-value: 1E0 [chr2:183281396]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs3768842	2	183.7046	2.3038	credible-set	red
rs10931042	2	183.7065	2.3604	credible-set	red
rs2242070	2	183.7069	2.5326	credible-set	red
rs10206992	2	183.7305	2.9452	credible-set	red
rs36090522	2	183.7318	2.8160	credible-set	red
rs9288087	2	183.7320	2.4474	credible-set	red
rs9973853	2	183.7384	2.7290	credible-set	red
rs28796879	2	183.7407	2.6912	credible-set	red
rs6753522	2	183.7494	2.1424	credible-set	red
rs10177372	2	183.7551	2.0721	credible-set	red
rs71405501	2	183.8991	2.0019	credible-set	red

eBMD SNP INDEX 044



date: Wed Jun 28 21:24:53 2017

build: hg19

display range: chr2:199950012–200950012 [199950012–200950012]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:200450012

number of SNPs plotted: 4343

min P-value: 5.5E–16 [chr2:200450012]

max P-value: 1E0 [chr2:199952992]

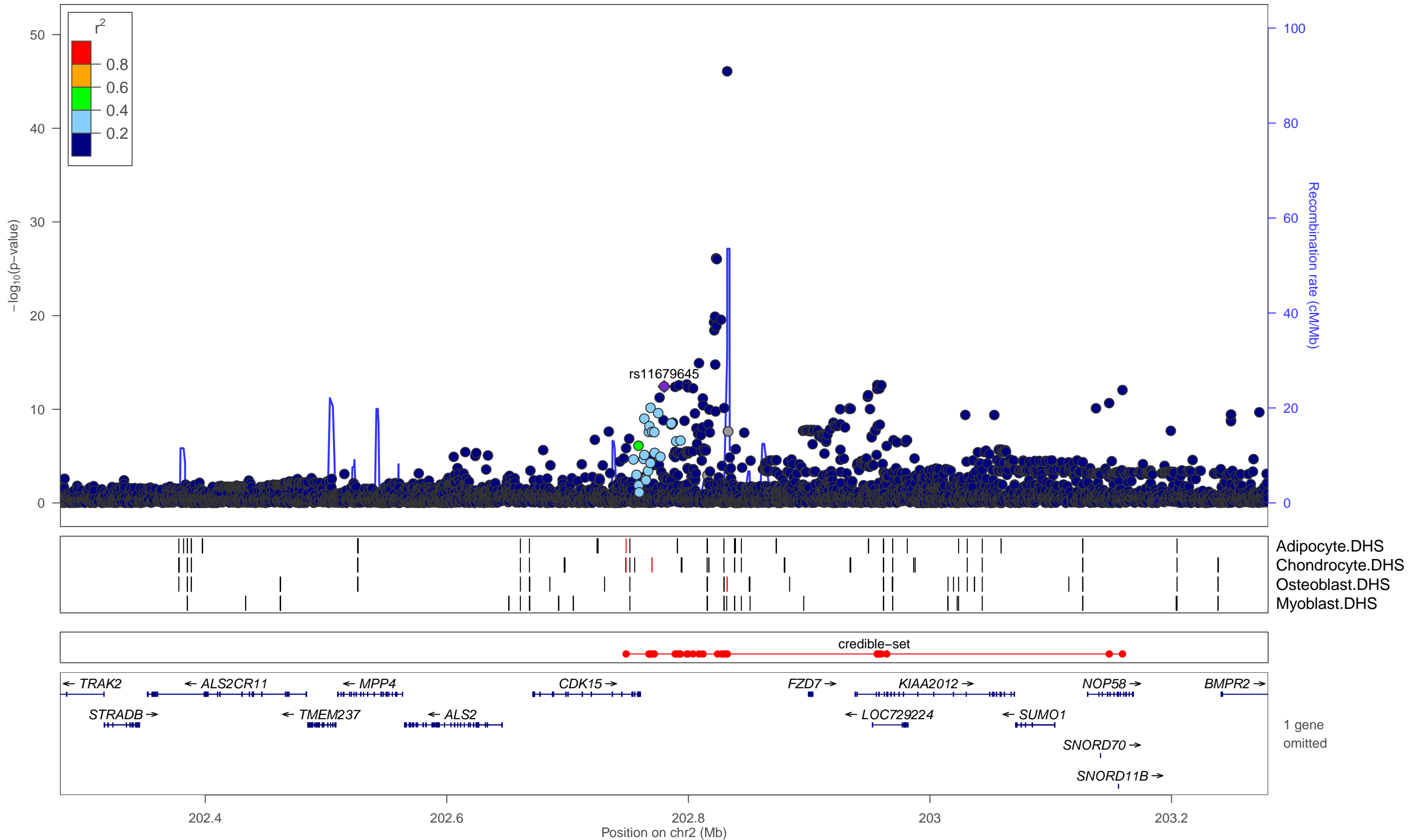
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	200.1643	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs6704641	EFO_0000692	GCST003048
2	200.1643	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs6704641	EFO_0000692	GCST002539
2	200.2752	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs17266097	EFO_0004703	GCST002541
2	200.6769	osteoporosis	Kou I	15/05/2011	PLoS One	21573128	rs7605378	EFO_0003882	GCST001071
2	200.7154	schizophrenia	Ripke S	25/08/2013	Nat Genet	23974872	rs2949006	EFO_0000692	GCST002149
2	200.8252	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs281768	EFO_0000692	GCST003048

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13013628	2	200.3488	2.1926	credible-set	red
rs11903853	2	200.3625	2.1064	credible-set	red
rs35539112	2	200.3627	2.1295	credible-set	red
rs113876523	2	200.3641	2.0723	credible-set	red
rs35667705	2	200.3727	2.3006	credible-set	red
rs6704623	2	200.3911	2.0565	credible-set	red
rs1450568	2	200.4467	2.2526	credible-set	red
rs13020883	2	200.4470	2.0094	credible-set	red
rs5837683	2	200.4473	2.1509	credible-set	red
rs2346107	2	200.4474	2.1571	credible-set	red
rs4675694	2	200.4500	2.3902	credible-set	red
rs4675695	2	200.4500	2.3656	credible-set	red
rs971324	2	200.4504	2.1413	credible-set	red
rs4234082	2	200.4601	2.1170	credible-set	red
rs1961468	2	200.4879	2.0739	credible-set	red

eBMD SNP INDEX 045



date: Wed Jun 28 21:24:54 2017

build: hg19

display range: chr2:202279950–203279950 [202279950–203279950]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:202779950

number of SNPs plotted: 5329

min P-value: 8.3E-47 [chr2:202832130]

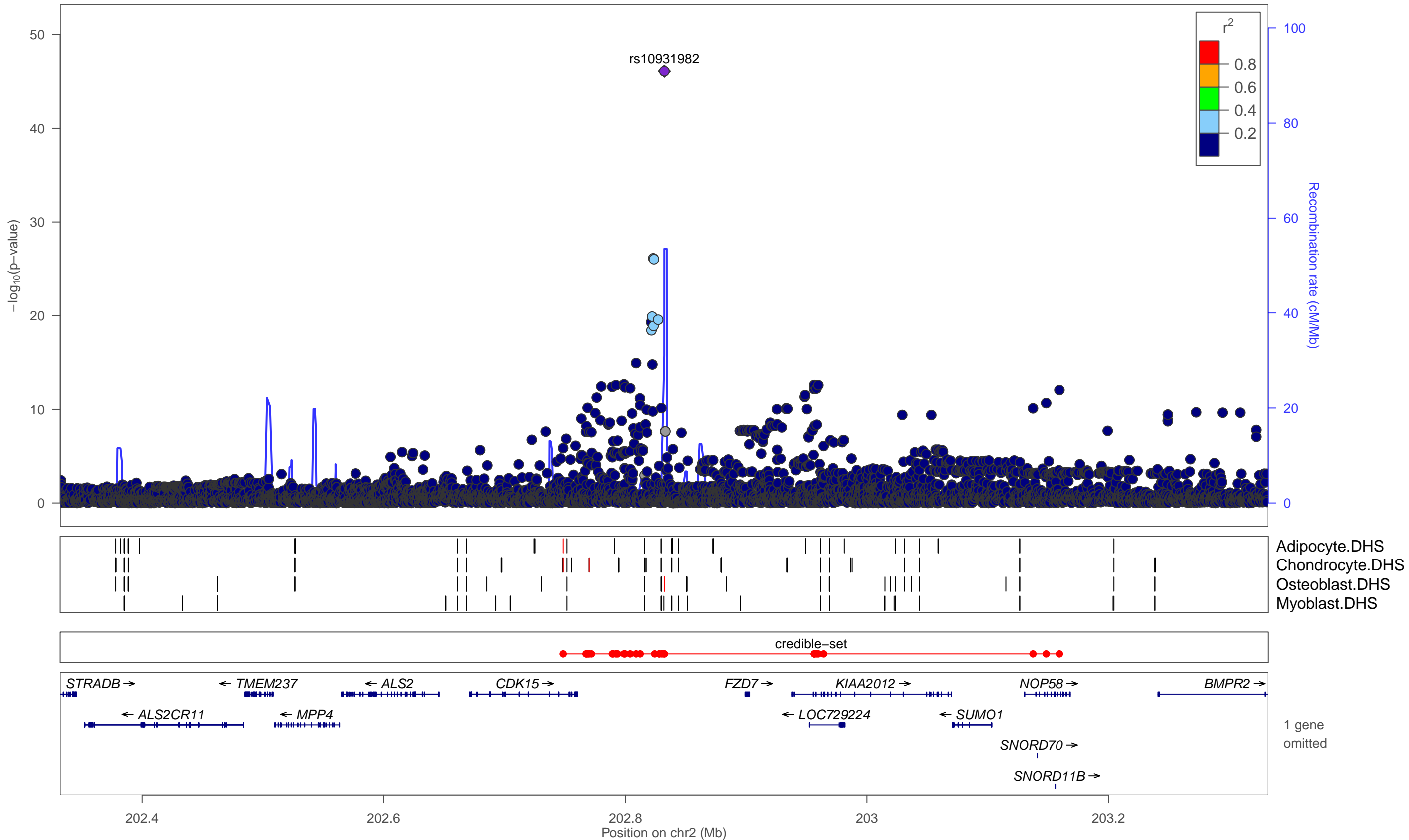
max P-value: 1E0 [chr2:202346153]

omitted Genes: SNORD11

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112621228	2	202.7484	2.4690	credible-set	red
rs7561261	2	202.7673	2.0521	credible-set	red
rs7604971	2	202.7677	2.6087	credible-set	red
rs60064718	2	202.7687	2.1502	credible-set	red
rs11897954	2	202.7699	2.2769	credible-set	red
rs2350083	2	202.7718	2.0502	credible-set	red
rs56263538	2	202.7891	2.7380	credible-set	red
rs76941894	2	202.7899	3.1599	credible-set	red
rs35593225	2	202.7921	2.9253	credible-set	red
rs7573217	2	202.7935	3.0877	credible-set	red
rs16838452	2	202.7988	2.8244	credible-set	red
rs2350085	2	202.7996	2.5058	credible-set	red
rs6716216	2	202.8039	2.4033	credible-set	red
rs34941717	2	202.8088	2.3231	credible-set	red
rs71406927	2	202.8121	2.9344	credible-set	red
rs539191788	2	202.8241	2.0898	credible-set	red
rs72932639	2	202.8279	3.2914	credible-set	red
rs72932640	2	202.8281	2.1606	credible-set	red
rs55814619	2	202.8301	2.0770	credible-set	red
rs16838527	2	202.8321	2.0306	credible-set	red
rs10931982	2	202.8321	13.5242	credible-set	red
rs13035978	2	202.9564	2.5814	credible-set	red
rs12986494	2	202.9564	2.9802	credible-set	red
rs13013323	2	202.9565	2.9505	credible-set	red
rs949782	2	202.9582	2.4306	credible-set	red
rs62195575	2	202.9598	2.9742	credible-set	red
rs12474421	2	202.9642	2.6365	credible-set	red
rs13012978	2	203.1484	2.5131	credible-set	red
rs138347090	2	203.1594	3.4118	credible-set	red

eBMD SNP INDEX 046



date: Wed Jun 28 21:25:13 2017

build: hg19

display range: chr2:202332130–203332130 [202332130–203332130]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:202832130

number of SNPs plotted: 5319

min P-value: 8.3E-47 [chr2:202832130]

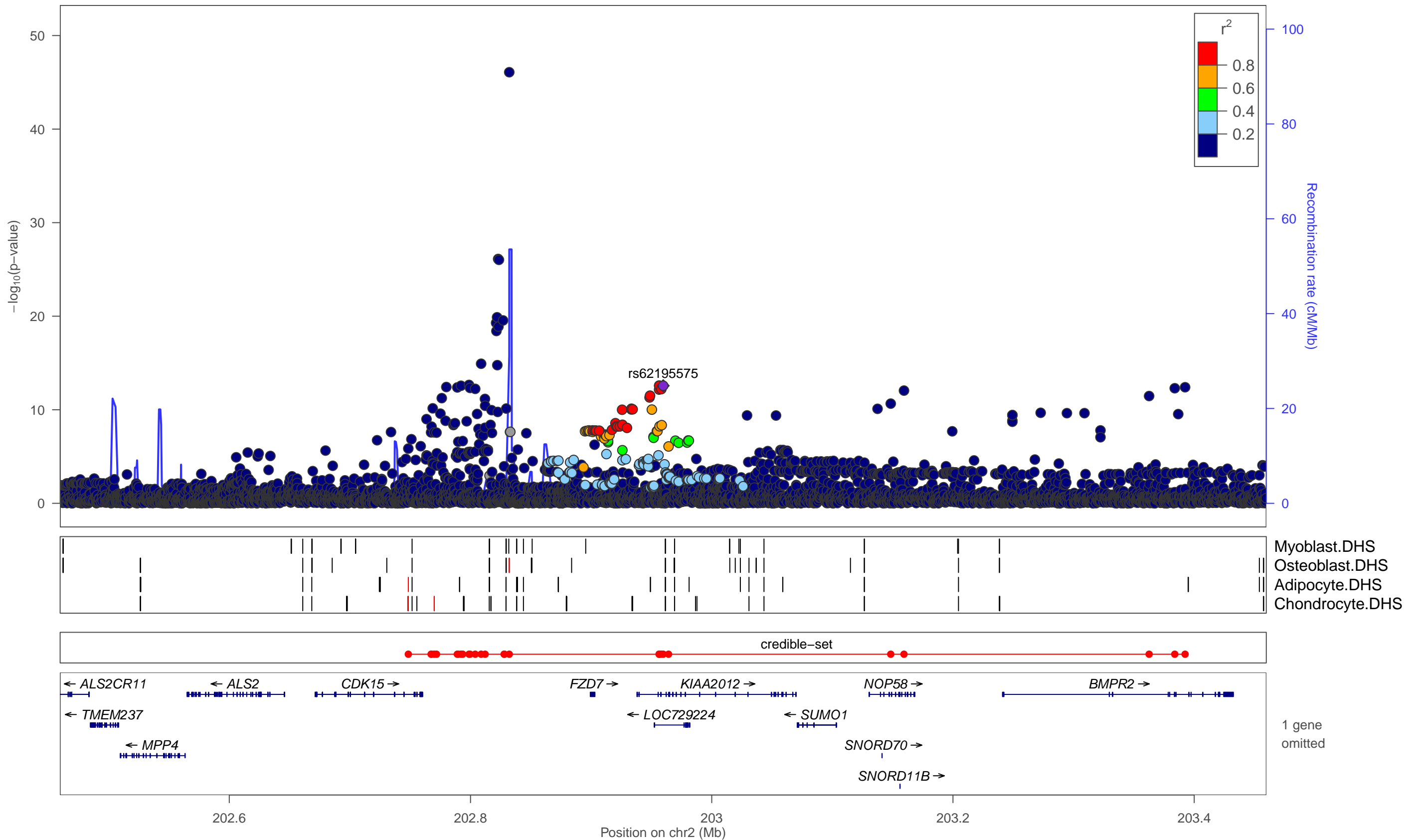
max P-value: 1E0 [chr2:202346153]

omitted Genes: SNORD11

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112621228	2	202.7484	2.4931	credible-set	red
rs7561261	2	202.7673	2.0251	credible-set	red
rs7604971	2	202.7677	2.5811	credible-set	red
rs60064718	2	202.7687	2.1190	credible-set	red
rs11897954	2	202.7699	2.2538	credible-set	red
rs2350083	2	202.7718	2.0202	credible-set	red
rs56263538	2	202.7891	2.7396	credible-set	red
rs76941894	2	202.7899	3.1639	credible-set	red
rs35593225	2	202.7921	2.9415	credible-set	red
rs7573217	2	202.7935	3.1163	credible-set	red
rs16838452	2	202.7988	2.8232	credible-set	red
rs2350085	2	202.7996	2.5194	credible-set	red
rs6716216	2	202.8039	2.4292	credible-set	red
rs34941717	2	202.8088	2.3104	credible-set	red
rs71406927	2	202.8121	2.8988	credible-set	red
rs539191788	2	202.8241	2.1148	credible-set	red
rs72932639	2	202.8279	3.3011	credible-set	red
rs72932640	2	202.8281	2.2068	credible-set	red
rs55814619	2	202.8301	2.1017	credible-set	red
rs16838527	2	202.8321	2.0545	credible-set	red
rs10931982	2	202.8321	13.5234	credible-set	red
rs13035978	2	202.9564	2.5956	credible-set	red
rs12986494	2	202.9564	2.9717	credible-set	red
rs13013323	2	202.9565	2.9441	credible-set	red
rs949782	2	202.9582	2.4306	credible-set	red
rs62195575	2	202.9598	2.9787	credible-set	red
rs12474421	2	202.9642	2.6330	credible-set	red
rs13022208	2	203.1375	2.0228	credible-set	red
rs13012978	2	203.1484	2.5555	credible-set	red
rs138347090	2	203.1594	3.3645	credible-set	red

eBMD SNP INDEX 047



date: Wed Jun 28 21:25:13 2017

build: hg19

display range: chr2:202459762–203459762 [202459762–203459762]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:202959762

number of SNPs plotted: 5212

min P-value: 8.3E-47 [chr2:202832130]

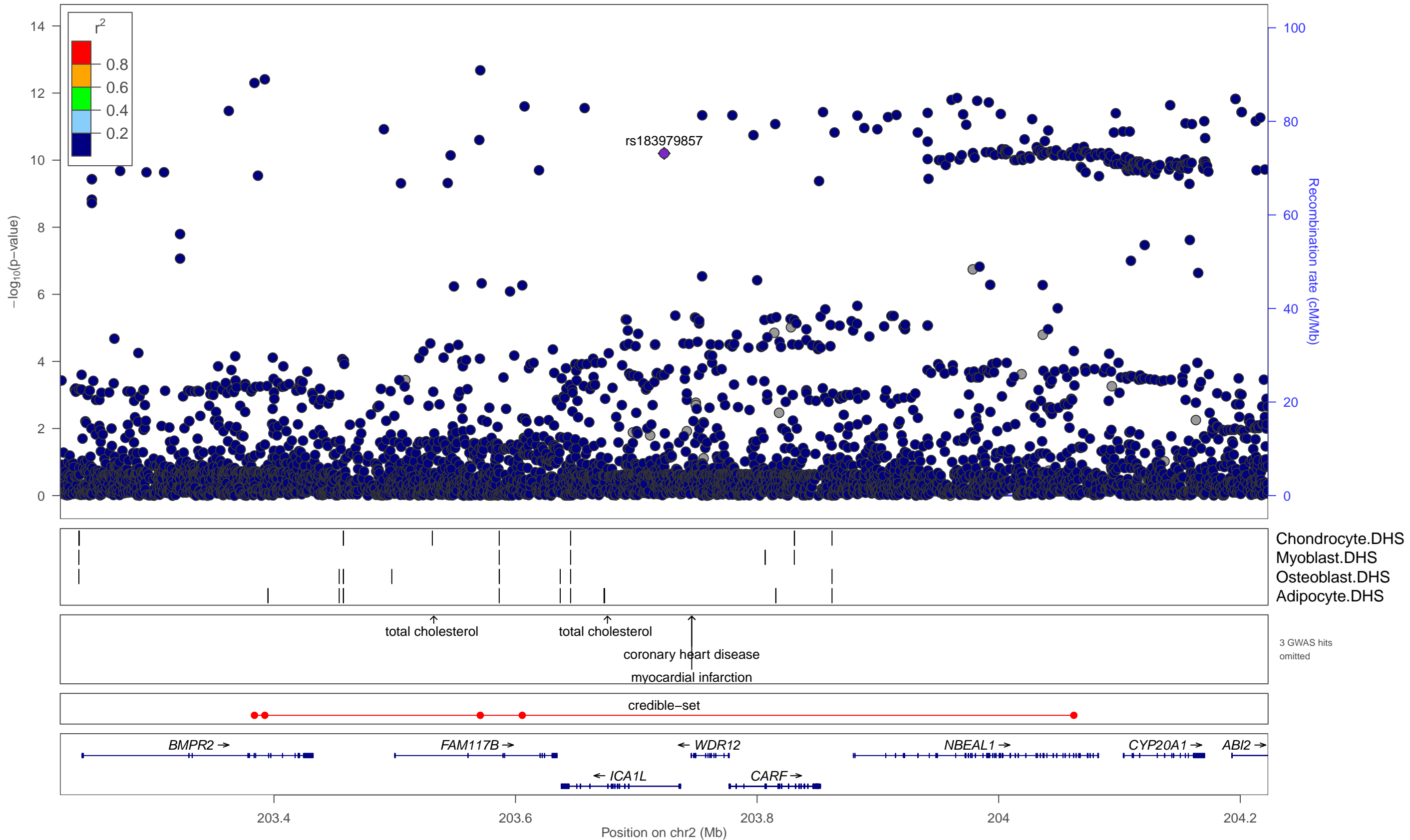
max P-value: 1E0 [chr2:202469660]

omitted Genes: SNORD11

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112621228	2	202.7484	2.5619	credible-set	red
rs7561261	2	202.7673	2.1841	credible-set	red
rs7604971	2	202.7677	2.7510	credible-set	red
rs11897954	2	202.7699	2.4007	credible-set	red
rs2350083	2	202.7718	2.1710	credible-set	red
rs56263538	2	202.7891	2.6721	credible-set	red
rs76941894	2	202.7899	3.0627	credible-set	red
rs35593225	2	202.7921	2.8889	credible-set	red
rs7573217	2	202.7935	3.0170	credible-set	red
rs16838452	2	202.7988	2.7660	credible-set	red
rs2350085	2	202.7996	2.4575	credible-set	red
rs6716216	2	202.8039	2.4026	credible-set	red
rs34941717	2	202.8088	2.2244	credible-set	red
rs71406927	2	202.8121	3.0928	credible-set	red
rs72932639	2	202.8279	3.2190	credible-set	red
rs72932640	2	202.8281	2.1077	credible-set	red
rs10931982	2	202.8321	13.5147	credible-set	red
rs13035978	2	202.9564	2.5386	credible-set	red
rs12986494	2	202.9564	2.9240	credible-set	red
rs13013323	2	202.9565	2.8884	credible-set	red
rs949782	2	202.9582	2.4287	credible-set	red
rs62195575	2	202.9598	2.9237	credible-set	red
rs12474421	2	202.9642	2.7957	credible-set	red
rs13012978	2	203.1484	2.0774	credible-set	red
rs138347090	2	203.1594	2.7973	credible-set	red
rs188895667	2	203.3626	2.3258	credible-set	red
rs41271467	2	203.3839	3.0510	credible-set	red
rs534340017	2	203.3924	3.1283	credible-set	red

eBMD SNP INDEX 048



date: Wed Jun 28 21:25:09 2017

build: hg19

display range: chr2:203223050–204223050 [203223050–204223050]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:203723050

number of SNPs plotted: 4186

min P-value: 2.1E-13 [chr2:203570821]

max P-value: 1E0 [chr2:203288619]

omitted GWAS Hits: NA, NA

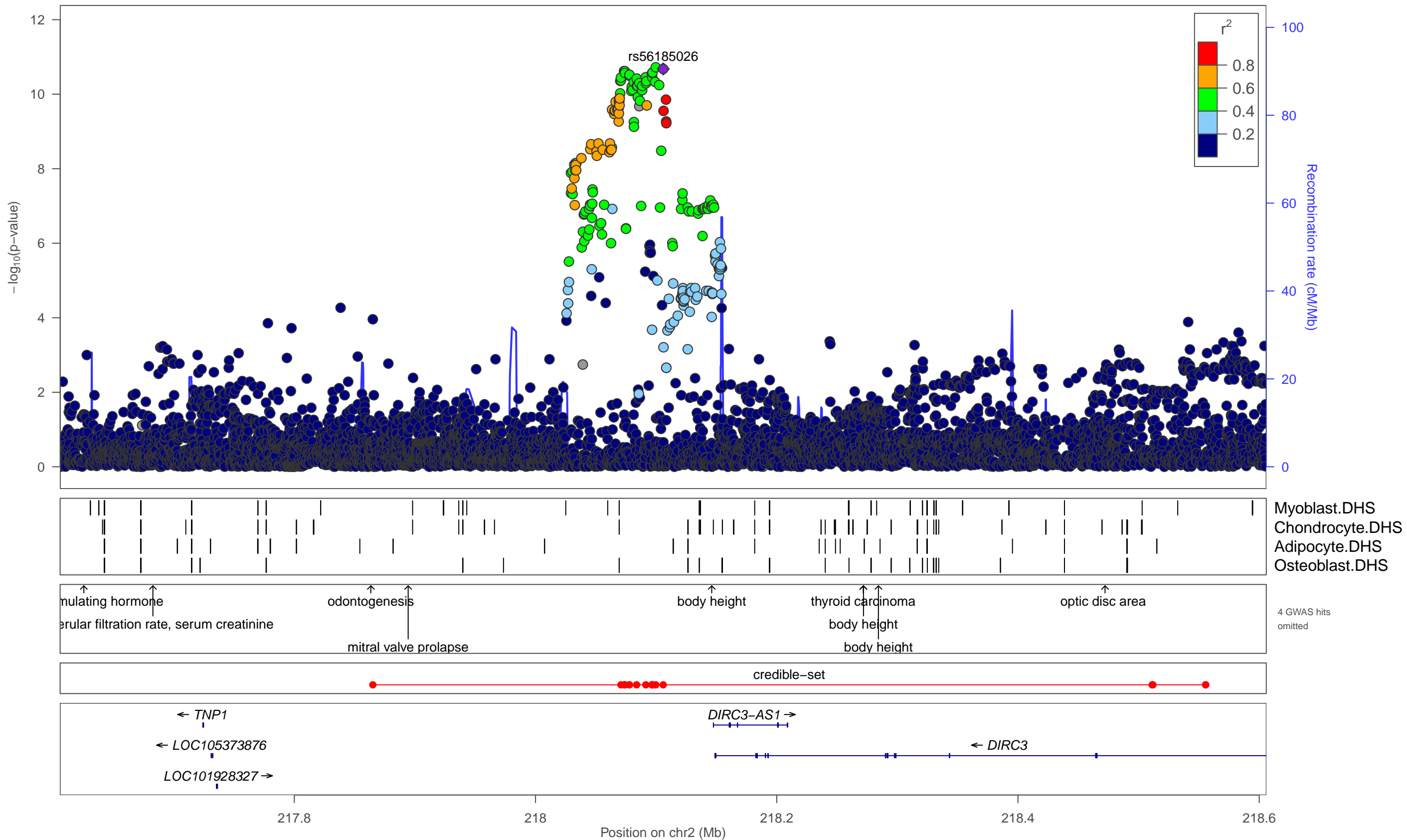
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	203.5323	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs11694172	EFO_0004574	GCST002221
2	203.6761	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs115400054	EFO_0004574	GCST002896
2	203.7459	coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs6725887	EFO_0001645	GCST002289
2	203.7459	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs6725887	EFO_0001645	GCST000998
2	203.7459	myocardial infarction	Kathiresan S	8/02/2009	Nat Genet	19198609	rs6725887	EFO_0000612	GCST000340
2	203.7531	large artery stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs7582720	EFO_0005524, EFO_0001645	GCST002290
2	203.7531	stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs7582720	EFO_0000712, EFO_0001645	GCST002287
2	203.8085	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs140244541	EFO_0004611	GCST002898

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs41271467	2	203.3839	2.4801	credible-set	red
rs534340017	2	203.3924	2.5803	credible-set	red
rs114210258	2	203.5708	2.9018	credible-set	red
rs200805572	2	203.6056	3.4133	credible-set	red
rs559529281	2	204.0622	2.0419	credible-set	red

eBMD SNP INDEX 049



date: Wed Jun 28 21:25:12 2017

build: hg19

display range: chr2:217605860–218605860 [217605860–218605860]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:218105860

number of SNPs plotted: 6215

min P-value: 1.9E-11 [chr2:218099677]

max P-value: 1E0 [chr2:217605925]

omitted GWAS Hits: chr2:218.14608–body height, chr2:218.271719–thyroid carcinoma

omitted GWAS Hits: NA

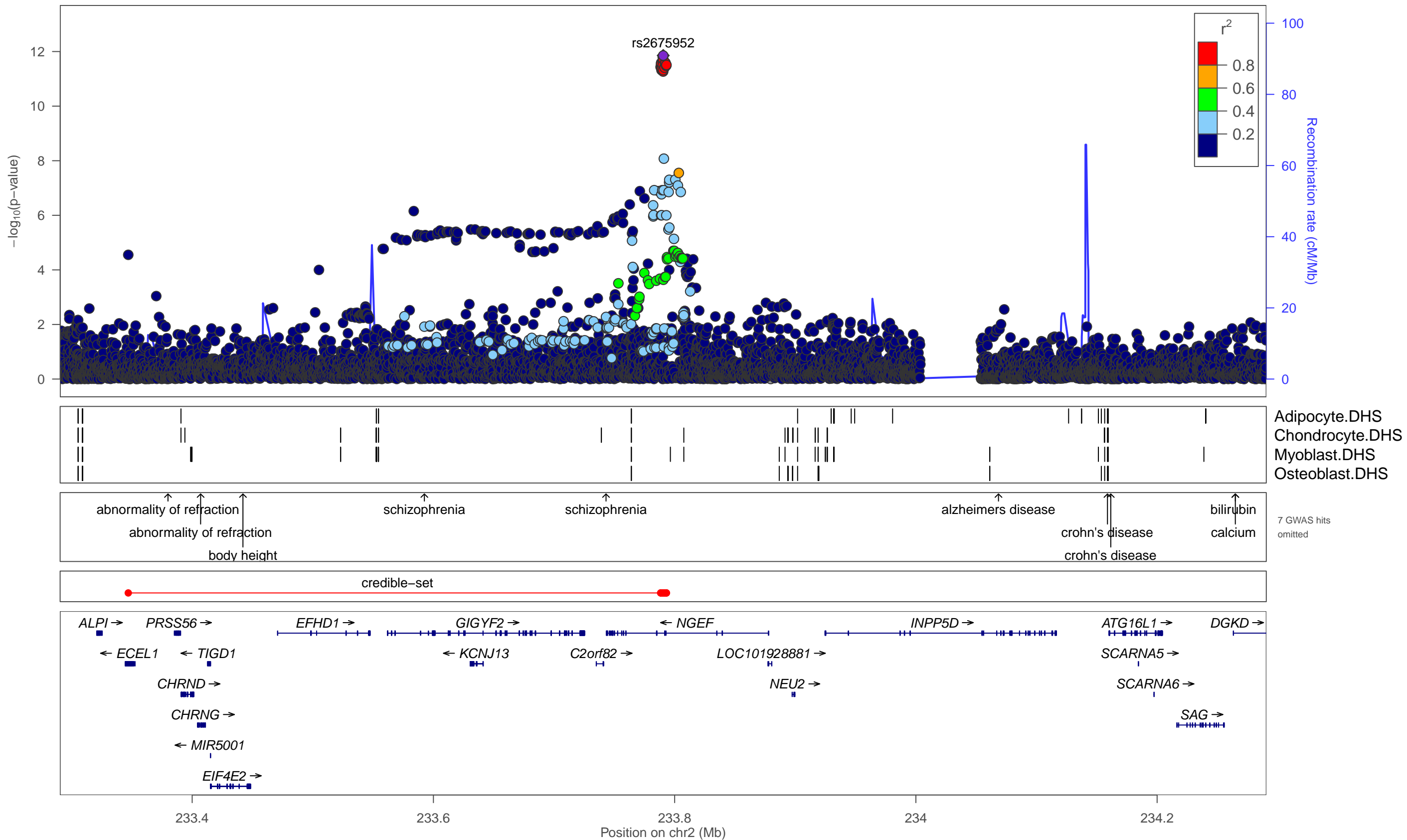
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	217.6255	thyroid stimulating hormone	Porcu E	7/02/2013	PLoS Genet	23408906	rs13015993	EFO_0004748	GCST001856
2	217.6828	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs2712184	EFO_0005208, EFO_0004518	GCST003401
2	217.8635	odontogenesis	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs10932688	GO_0042476	GCST002031
2	217.8944	mitral valve prolapse	Dina C	24/08/2015	Nat Genet	26301497	rs12465515	HP_0001634	GCST003094
2	217.8948	tooth eruption	Geller F	8/09/2011	PLoS Genet	21931568	rs4491709	GO_0044691	GCST001221
2	217.9058	breast carcinoma	Fletcher O	24/01/2011	J Natl Cancer Inst	21263130	rs13387042	EFO_0000305	GCST000952
2	217.9058	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs13387042	EFO_0000305	GCST001937
2	217.9058	breast carcinoma	Stacey SN	27/05/2007	Nat Genet	17529974	rs13387042	EFO_0000305	GCST000037
2	217.9058	breast carcinoma	Thomas G	29/03/2009	Nat Genet	19330030	rs13387042	EFO_0000305	GCST000365
2	217.9058	breast carcinoma	Turnbull C	9/05/2010	Nat Genet	20453838	rs13387042	EFO_0000305	GCST000678
2	218.1461	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs17181956	EFO_0004339	GCST002647
2	218.2717	thyroid carcinoma	Kohler A	26/07/2013	J Clin Endocrinol Metab	23894154	rs6759952	EFO_0002892	GCST002102
2	218.2719	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1351164	EFO_0004339	GCST000817
2	218.2843	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs994533	EFO_0004339	GCST002647
2	218.2965	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs16857609	EFO_0000305	GCST001937
2	218.3103	thyroid carcinoma	Gudmundsson J	22/01/2012	Nat Genet	22267200	rs966423	EFO_0002892	GCST001382
2	218.4722	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1549733	EFO_0006937	GCST002763

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs182128287	2	217.8651	2.3340	credible-set	red
rs10932706	2	218.0708	2.0783	credible-set	red
rs12623903	2	218.0734	2.2571	credible-set	red
rs13012936	2	218.0741	2.2572	credible-set	red
rs13013676	2	218.0741	2.2043	credible-set	red
rs35957421	2	218.0778	2.1307	credible-set	red
rs12991147	2	218.0779	2.1612	credible-set	red
rs3796023	2	218.0838	2.0553	credible-set	red
rs34996207	2	218.0914	2.0869	credible-set	red
rs10804255	2	218.0965	2.1902	credible-set	red
rs2373041	2	218.0968	2.0726	credible-set	red
rs2888478	2	218.0968	2.2010	credible-set	red
rs2553034	2	218.0971	2.2280	credible-set	red
rs2565696	2	218.0997	2.3735	credible-set	red
rs56185026	2	218.1059	2.4394	credible-set	red
rs79113809	2	218.5112	2.1699	credible-set	red
rs17653089	2	218.5119	2.1748	credible-set	red
rs997894	2	218.5556	2.1176	credible-set	red
rs997895	2	218.5556	2.1049	credible-set	red

eBMD SNP INDEX 050



date: Wed Jun 28 21:25:11 2017

build: hg19

display range: chr2:233290522–234290522 [233290522–234290522]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:233790522

number of SNPs plotted: 6743

min P-value: 1.4E-12 [chr2:233790522]

max P-value: 1E0 [chr2:233321975]

omitted GWAS Hits: chr2:233.592501–schizophrenia, chr2:234.264848–calcium

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

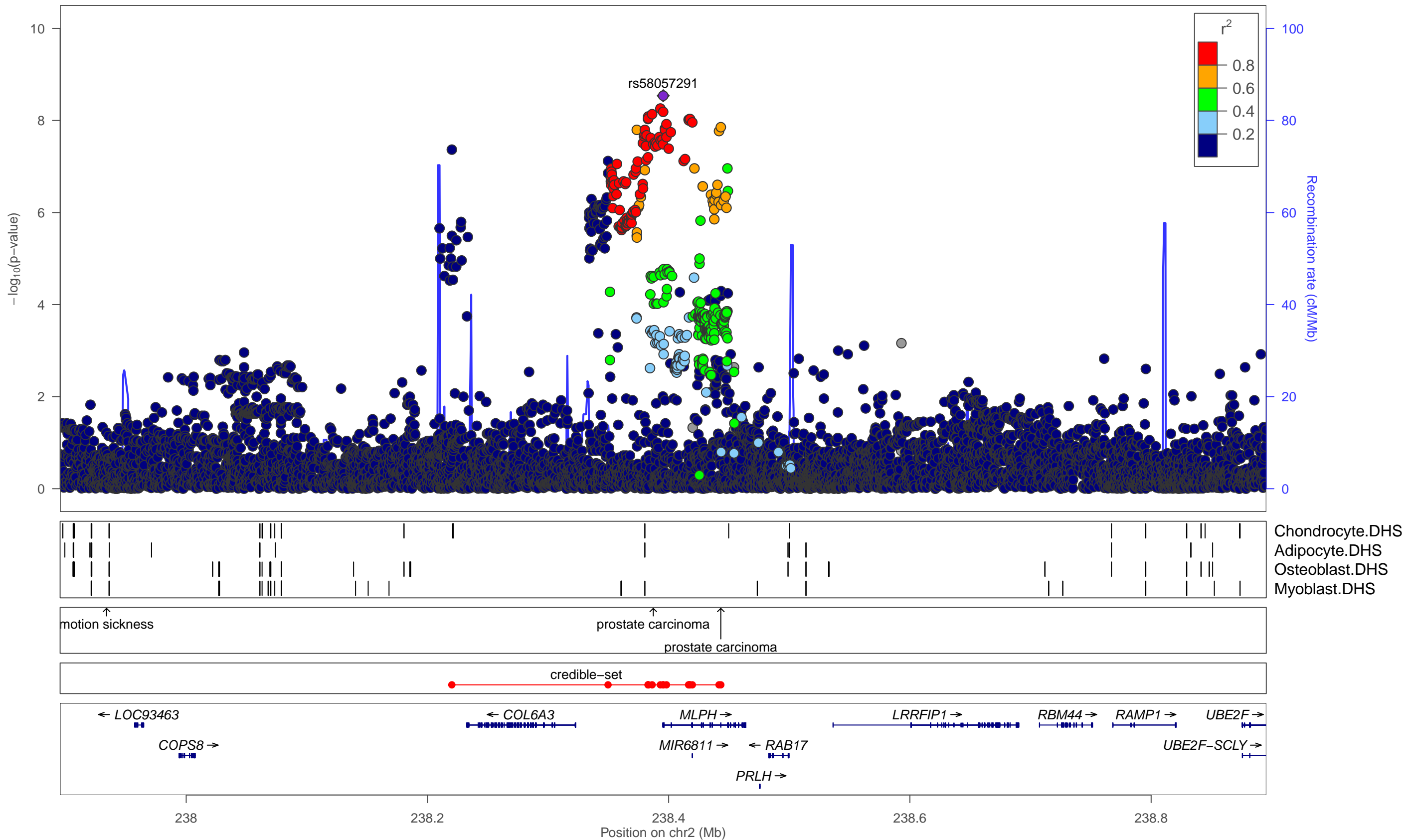
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	233.3799	abnormality of refraction	Verhoeven VJ	10/02/2013	Nat Genet	23396134	rs1656404	HP_0000539	GCST001858
2	233.4070	abnormality of refraction	Verhoeven VJ	10/02/2013	Nat Genet	23396134	rs1881492	HP_0000539	GCST001858
2	233.4421	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs13393800	EFO_0004339	GCST002647
2	233.5132	serum gamma–glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs2140773	EFO_0004532	GCST001277
2	233.5925	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs6704768	EFO_0000692	GCST002539
2	233.7431	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs778371	EFO_0000692	GCST003048
2	233.7431	schizophrenia	Ripke S	25/08/2013	Nat Genet	23974872	rs778371	EFO_0000692	GCST002149
2	234.0685	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs35349669	EFO_0000249	GCST002245
2	234.1588	crohn's disease	WTCCC	7/06/2007	Nature	17554300	rs10210302	EFO_0000384	GCST000042
2	234.1616	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs6738490	EFO_0000384	GCST003044
2	234.1735	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs12994997	EFO_0000384	GCST001729
2	234.1735	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs12994997	EFO_0003767	GCST003043
2	234.1804	crohn's disease	Barrett JC	29/06/2008	Nat Genet	18587394	rs3828309	EFO_0000384	GCST000207
2	234.1834	crohn's disease	Kenny EE	8/03/2012	PLoS Genet	22412388	rs2241880	EFO_0000384	GCST001438
2	234.1844	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs3792109	EFO_0000384	GCST000879
2	234.1844	crohn's disease	Julia A	30/08/2012	Gut	22936669	rs3792109	EFO_0000384	GCST001652
2	234.1853	ten pediatric autoimmune diseases	Li YR	24/08/2015	Nat Med	26301688	rs36001488	NA	GCST003097
2	234.2648	bilirubin	Kang TW	16/07/2010	Hum Mol Genet	20639394	rs1550532	EFO_0004570	GCST000730
2	234.2648	calcium	O'Seaghda CM	19/09/2013	PLoS Genet	24068962	rs1550532	EFO_0004838	GCST002201

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs563129301	2	233.3470	2.5931	credible-set	red
rs778353	2	233.7884	2.1307	credible-set	red
rs1083521	2	233.7887	2.2104	credible-set	red
rs1083520	2	233.7889	2.2898	credible-set	red
rs1083519	2	233.7889	2.2897	credible-set	red
rs1083518	2	233.7889	2.2390	credible-set	red
rs1083517	2	233.7890	2.0842	credible-set	red
rs895435	2	233.7891	2.0119	credible-set	red
rs1083515	2	233.7895	2.0738	credible-set	red
rs1083514	2	233.7895	2.0741	credible-set	red
rs747462	2	233.7902	2.5226	credible-set	red
rs747463	2	233.7902	2.2591	credible-set	red
rs2004202	2	233.7903	2.2120	credible-set	red
rs2004203	2	233.7904	2.4305	credible-set	red
rs11675082	2	233.7905	2.0078	credible-set	red
rs2675952	2	233.7905	2.5794	credible-set	red
rs2592128	2	233.7905	2.4358	credible-set	red
rs1878289	2	233.7916	2.1322	credible-set	red
rs2592127	2	233.7916	2.1082	credible-set	red
rs2675960	2	233.7921	2.3134	credible-set	red
rs2944590	2	233.7922	2.2950	credible-set	red
rs2592118	2	233.7924	2.2957	credible-set	red
rs191373913	2	233.7930	2.1827	credible-set	red
rs181813160	2	233.7930	2.1829	credible-set	red
rs73102769	2	233.7932	2.2153	credible-set	red

eBMD SNP INDEX 051



date: Wed Jun 28 21:25:23 2017

build: hg19

display range: chr2:237895479–238895479 [237895479–238895479]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr2:238395479

number of SNPs plotted: 7437

min P-value: 2.9E-9 [chr2:238395479]

max P-value: 1E0 [chr2:237954153]

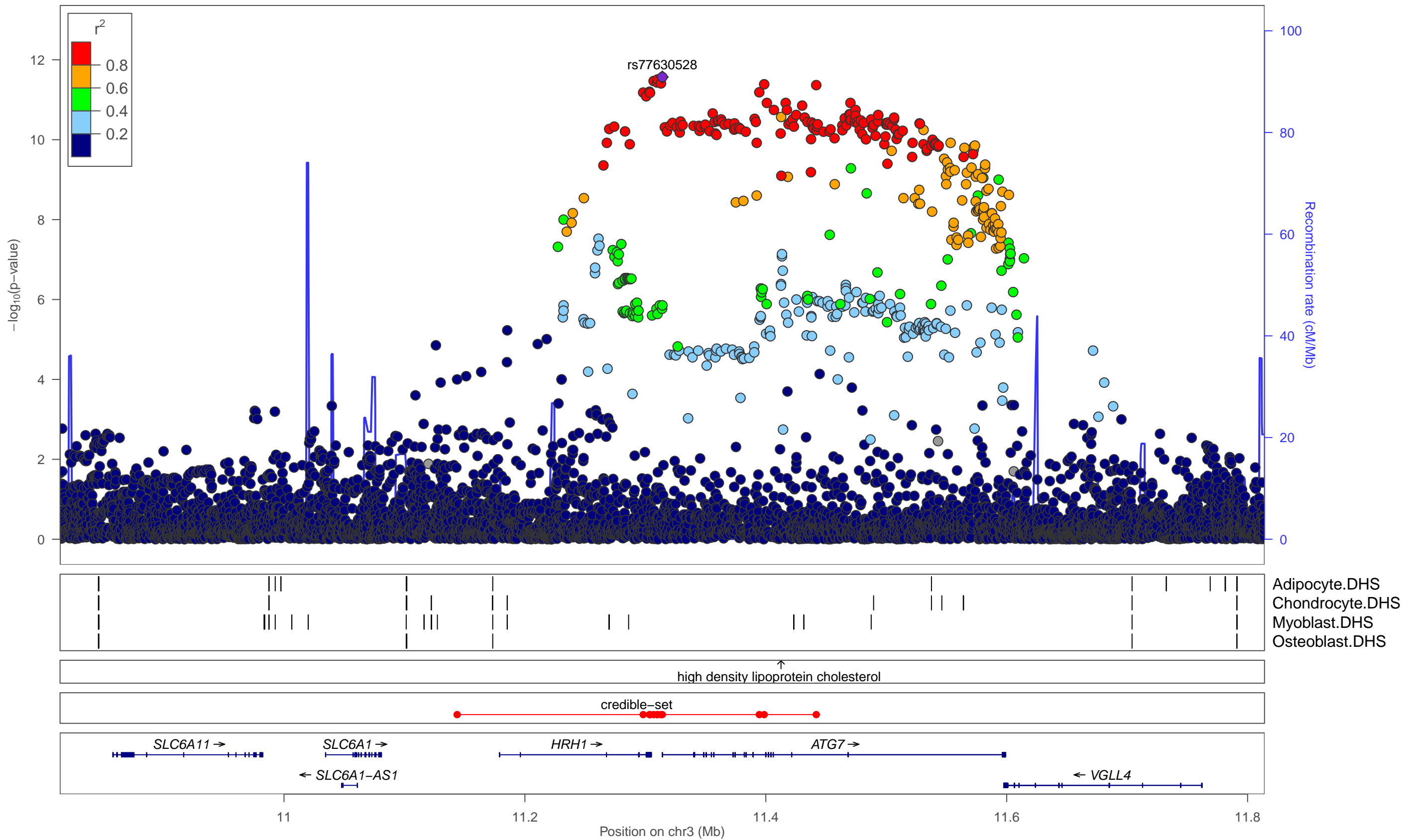
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
2	237.9340	motion sickness	Hromatka BS	26/01/2015	Hum Mol Genet	25628336	rs2318131	EFO_0006928	GCST002759
2	238.3872	prostate carcinoma	Kote-Jarai Z	10/07/2011	Nat Genet	21743467	rs7584330	EFO_0001663	GCST001148
2	238.4432	prostate carcinoma	Schumacher FR	8/07/2011	Hum Mol Genet	21743057	rs2292884	EFO_0001663	GCST001147

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4496284	2	238.2202	3.5281	credible-set	red
rs68022885	2	238.3497	2.0985	credible-set	red
rs13408361	2	238.3829	2.1357	credible-set	red
rs7571898	2	238.3830	2.1850	credible-set	red
rs7569197	2	238.3831	2.1448	credible-set	red
rs2325839	2	238.3863	2.2392	credible-set	red
rs13386290	2	238.3931	2.3585	credible-set	red
rs67071074	2	238.3954	2.2925	credible-set	red
rs58057291	2	238.3955	2.6443	credible-set	red
rs6760842	2	238.3982	2.0282	credible-set	red
rs10187185	2	238.4165	2.1617	credible-set	red
rs7583768	2	238.4168	2.1438	credible-set	red
rs6737888	2	238.4174	2.1739	credible-set	red
rs6431544	2	238.4177	2.1748	credible-set	red
rs2292879	2	238.4196	2.1027	credible-set	red
rs12471291	2	238.4418	2.0327	credible-set	red
rs2292884	2	238.4432	2.1164	credible-set	red

eBMD SNP INDEX 052



date: Wed Jun 28 21:24:33 2017

build: hg19

display range: chr3:10814041–11814041 [10814041–11814041]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:11314041

number of SNPs plotted: 6379

min P-value: 2.7E-12 [chr3:11314041]

max P-value: 1E0 [chr3:10893297]

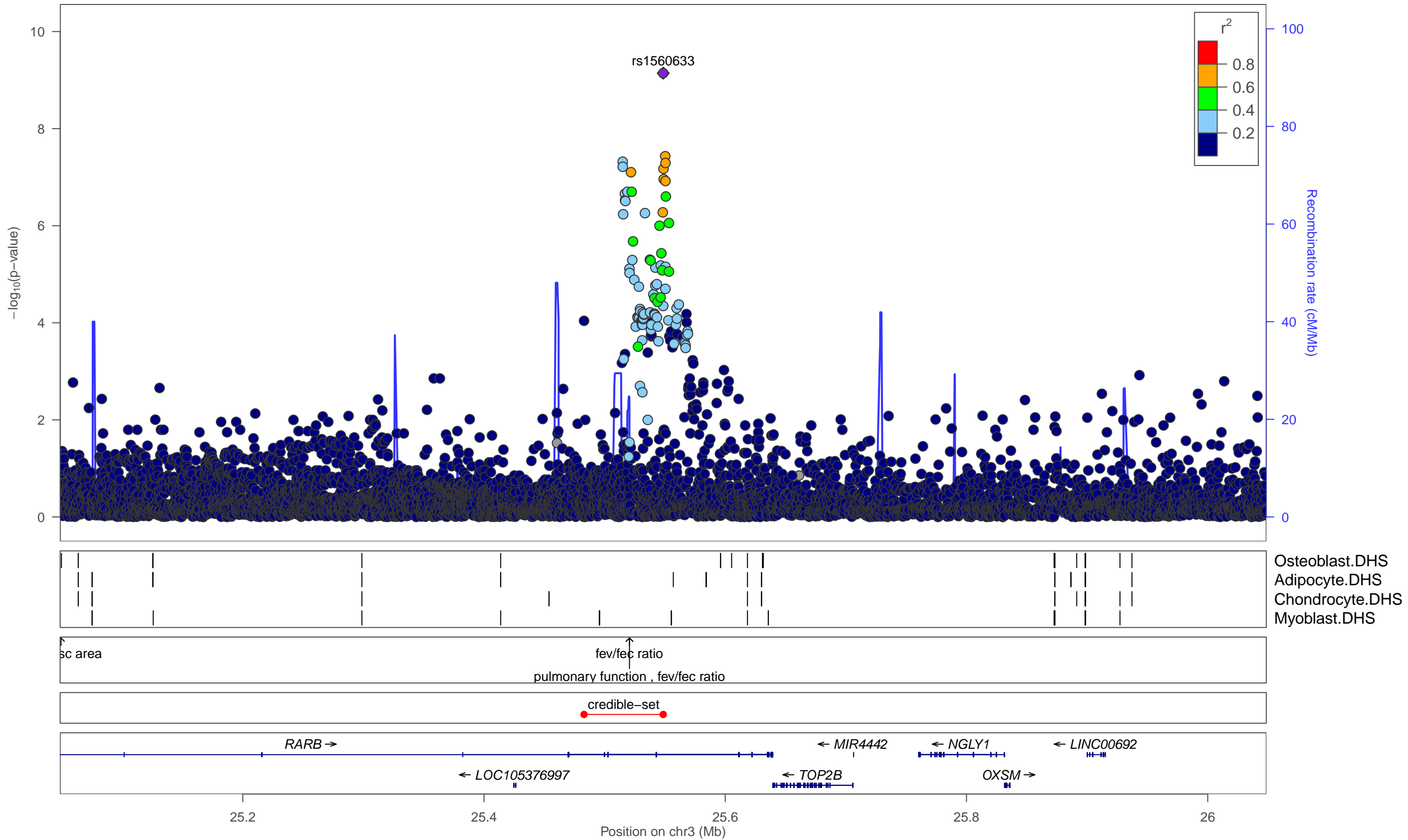
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	11.4126	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs7635838	EFO_0004612	GCST002899

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs199590544	3	11.14370	2.0277	credible-set	red
rs346073	3	11.29818	2.0247	credible-set	red
rs346069	3	11.30344	2.0458	credible-set	red
rs346070	3	11.30387	2.0181	credible-set	red
rs346072	3	11.30685	2.3281	credible-set	red
rs2922348	3	11.30978	2.2888	credible-set	red
rs35329593	3	11.31017	2.3720	credible-set	red
rs2594975	3	11.31297	2.2644	credible-set	red
rs77630528	3	11.31404	2.4398	credible-set	red
rs2606739	3	11.39461	2.0285	credible-set	red
rs2606737	3	11.39865	2.2378	credible-set	red
rs11712184	3	11.44186	2.2094	credible-set	red

eBMD SNP INDEX 053



date: Wed Jun 28 21:24:33 2017

build: hg19

display range: chr3:25048555–26048555 [25048555–26048555]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:25548555

number of SNPs plotted: 6769

min P-value: 7.2E-10 [chr3:25548555]

max P-value: 1E0 [chr3:25109366]

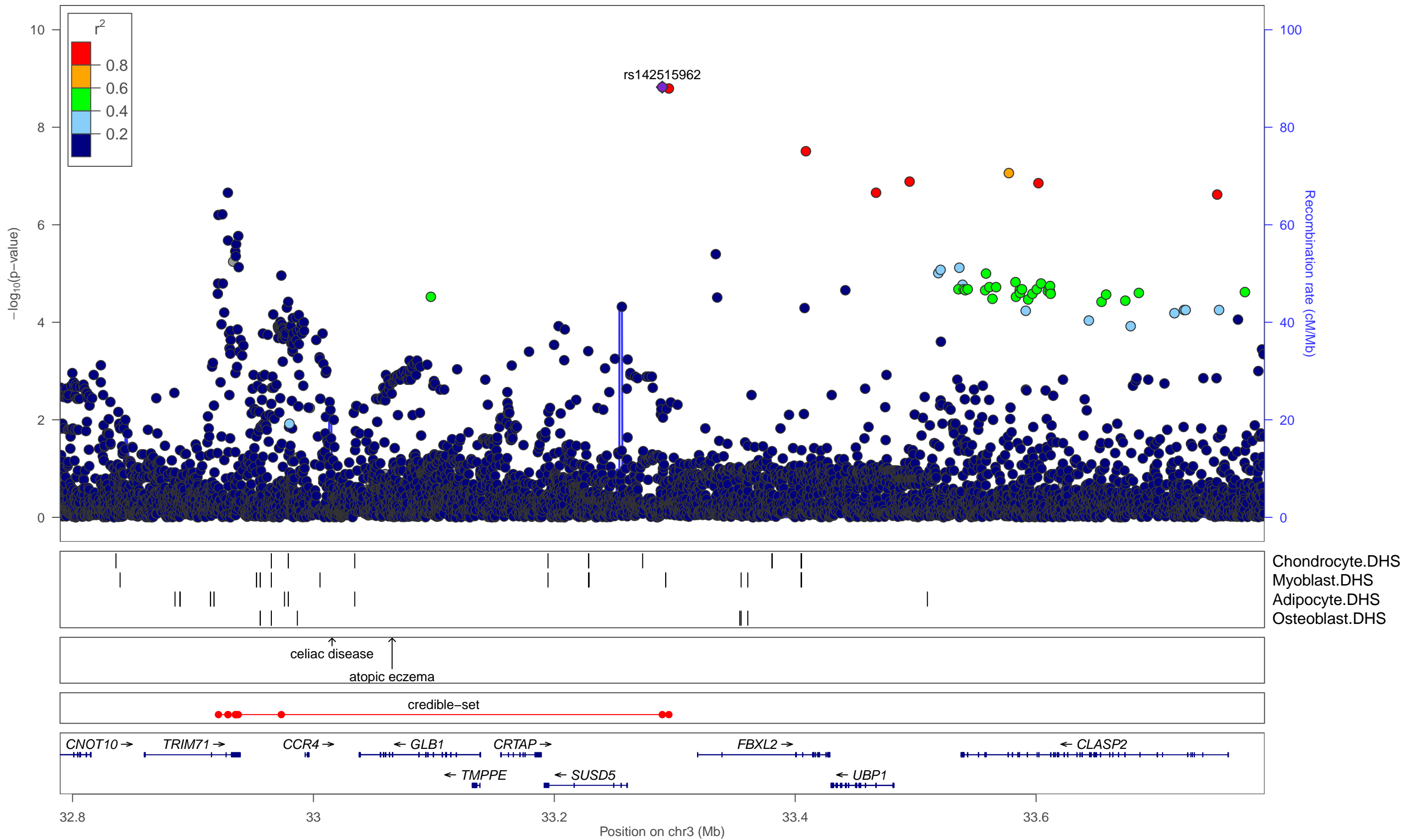
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	25.04931	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11129176	EFO_0006937	GCST002763
3	25.52058	fev/fec ratio	Hancock DB	20/12/2012	PLoS Genet	23284291	rs1529672	EFO_0004713	GCST001784
3	25.52058	pulmonary function , fev/fec ratio	Soler Artigas M	25/09/2011	Nat Genet	21946350	rs1529672	EFO_0003892, EFO_0004713	GCST001248

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs572833938	3	25.48291	2.4486	credible-set	red
rs1560633	3	25.54856	4.5161	credible-set	red

eBMD SNP INDEX 054



date: Wed Jun 28 21:24:32 2017

build: hg19

display range: chr3:32789630–33789630 [32789630–33789630]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:33289630

number of SNPs plotted: 5899

min P-value: 1.5E-9 [chr3:33289630]

max P-value: 1E0 [chr3:32802676]

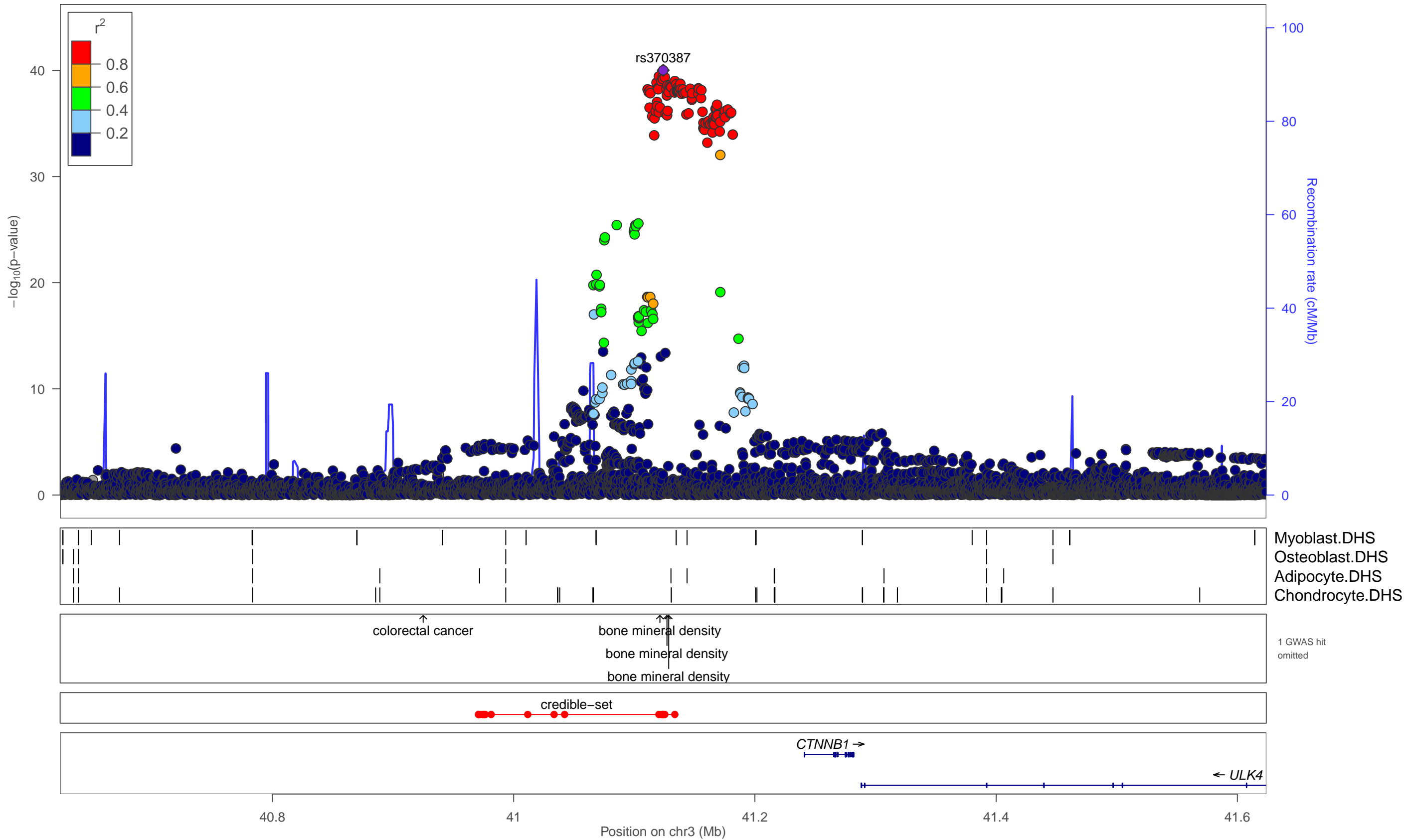
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	33.01547	celiac disease	Dubois PC	28/02/2010	Nat Genet	20190752	rs13314993	EFO_0001060	GCST000612
3	33.06534	atopic eczema	Hirota T	7/10/2012	Nat Genet	23042114	rs7613051	EFO_0000274	GCST001709

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs144039747	3	32.92116	2.0344	credible-set	red
rs535671163	3	32.92897	2.2024	credible-set	red
rs9310995	3	32.92912	2.8661	credible-set	red
rs13433809	3	32.93513	2.6037	credible-set	red
rs62253764	3	32.93552	2.4743	credible-set	red
rs62253765	3	32.93582	2.7764	credible-set	red
rs4909017	3	32.93760	2.9794	credible-set	red
rs2102864	3	32.97334	2.1179	credible-set	red
rs142515962	3	33.28963	3.5547	credible-set	red
rs147178596	3	33.29511	3.5038	credible-set	red

eBMD SNP INDEX 055



date: Wed Jun 28 21:24:32 2017

build: hg19

display range: chr3:40623984–41623984 [40623984–41623984]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:41123984

number of SNPs plotted: 5731

min P-value: 9.6E-41 [chr3:41123984]

max P-value: 1E0 [chr3:40703193]

omitted GWAS Hits: NA

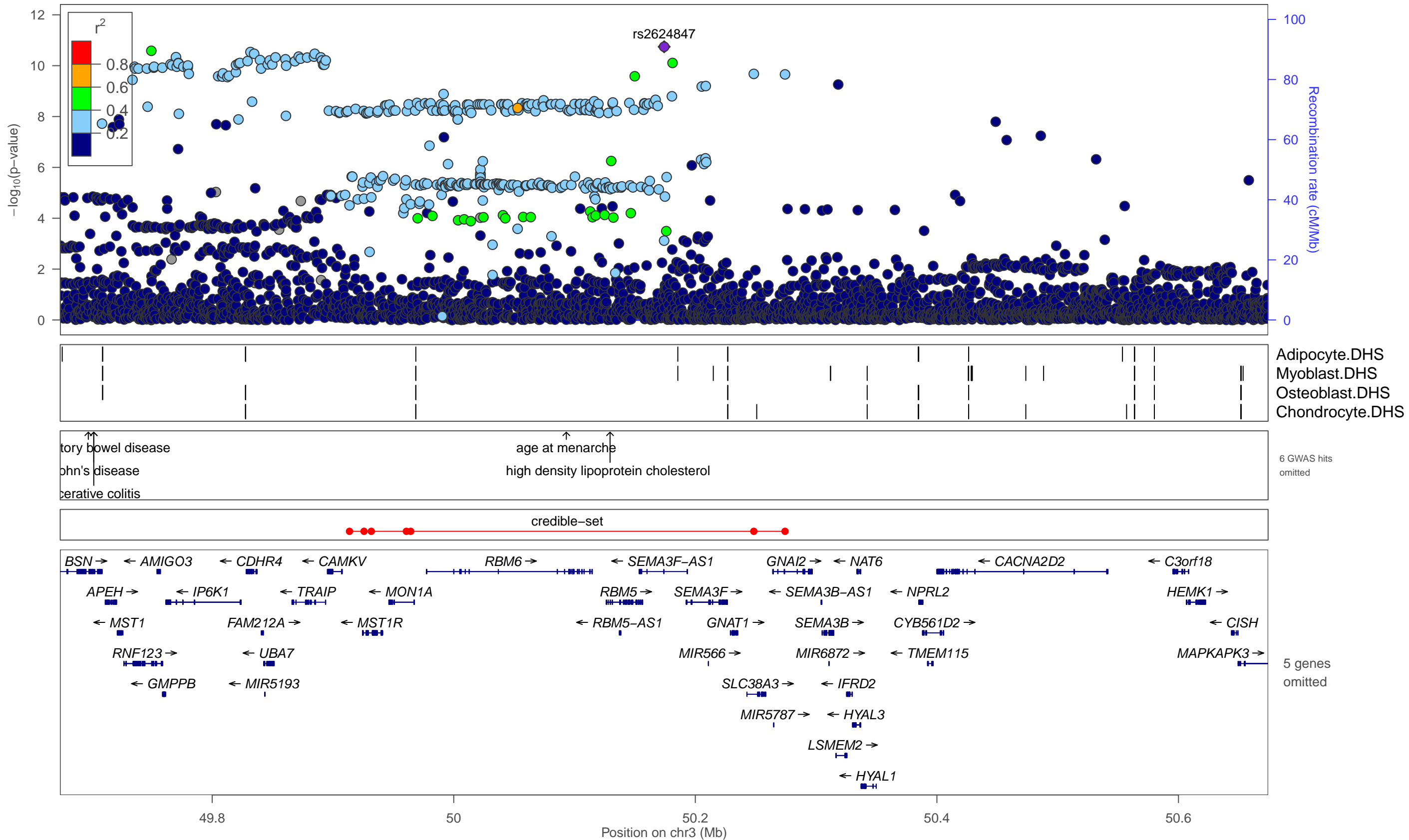
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	40.92496	colorectal cancer	Schumacher FR	7/07/2015	Nat Commun	26151821	rs35360328	EFO_0005842	GCST003017
3	41.12125	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs436448	EFO_0004339	NA
3	41.12709	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs401680	EFO_0004339	NA
3	41.12856	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs430727	EFO_0003923	GCST001482
3	41.13767	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs87938	EFO_0003923	GCST000495

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9860435	3	40.97083	2.0513	credible-set	red
rs9860722	3	40.97086	2.2292	credible-set	red
rs9828385	3	40.97214	2.0428	credible-set	red
rs11708398	3	40.97431	2.2591	credible-set	red
rs112123151	3	40.97474	2.1656	credible-set	red
rs142995577	3	40.97564	2.3737	credible-set	red
rs2371346	3	40.97648	2.0071	credible-set	red
rs6798534	3	40.98133	2.6362	credible-set	red
rs10049339	3	41.01168	3.1786	credible-set	red
rs551939439	3	41.03352	3.7848	credible-set	red
rs74895481	3	41.04225	2.2658	credible-set	red
rs430848	3	41.12042	2.6553	credible-set	red
rs383911	3	41.12235	2.1135	credible-set	red
rs422623	3	41.12351	2.5535	credible-set	red
rs10490823	3	41.12374	2.2943	credible-set	red
rs370387	3	41.12398	3.3011	credible-set	red
rs406589	3	41.12531	2.4391	credible-set	red
rs450615	3	41.13361	2.0577	credible-set	red

eBMD SNP INDEX 056



date: Wed Jun 28 21:24:30 2017

build: hg19

display range: chr3:49674197–50674197 [49674197–50674197]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:50174197

number of SNPs plotted: 3714

min P-value: 1.8E-11 [chr3:50174197]

max P-value: 1E0 [chr3:49749616]

omitted Genes: HYAL2, TUSC2, RASSF1

omitted Genes: RASSF1-AS1, ZMYND10

omitted GWAS Hits: chr3:50.093209–age at menarche, chr3:50.129399–high density lipoprotein cholesterol

omitted GWAS Hits: NA, NA

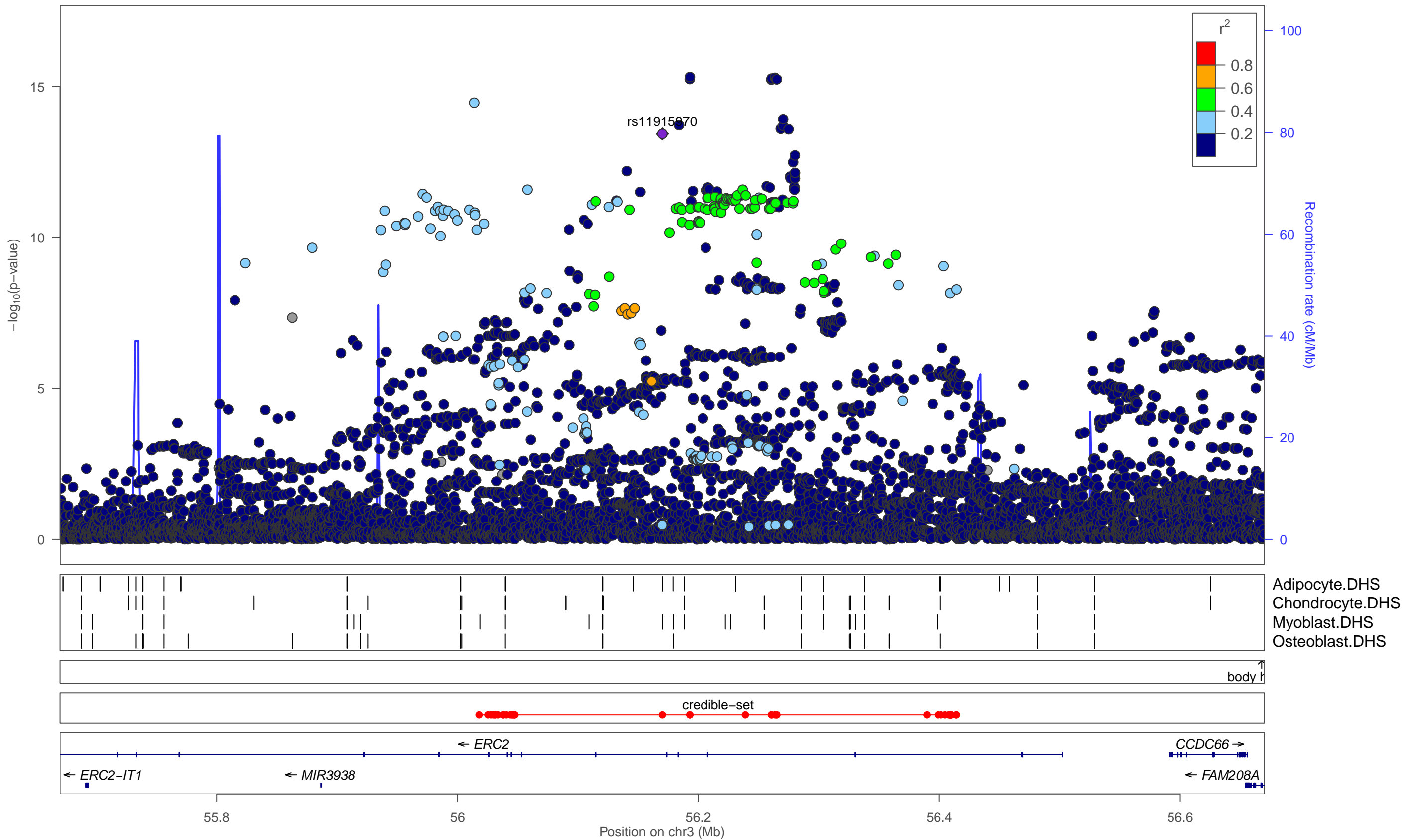
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	49.69746	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs9836291	EFO_0003767	GCST003043
3	49.70198	crohn's disease	WTCCC	7/06/2007	Nature	17554300	rs9858542	EFO_0000384	GCST000042
3	49.70198	ulcerative colitis	Barrett JC	15/11/2009	Nat Genet	19915572	rs9858542	EFO_0000729	GCST000527
3	49.71973	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs9822268	EFO_0000729	GCST000964
3	49.72153	crohn's disease	Barrett JC	29/06/2008	Nat Genet	18587394	rs3197999	EFO_0000384	GCST000207
3	49.72153	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs3197999	EFO_0000384	GCST000879
3	49.72153	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs3197999	EFO_0000384	GCST003044
3	49.72153	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs3197999	EFO_0003767	GCST001725
3	49.72153	sclerosing cholangitis	Melum E	12/12/2010	Nat Genet	21151127	rs3197999	EFO_0004268	GCST000915
3	49.72153	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs3197999	EFO_0000729	GCST003045
3	49.72153	ulcerative colitis	McGovern DP	14/03/2010	Nat Genet	20228799	rs3197999	EFO_0000729	GCST000624
3	49.73186	self reported educational attainment	Rietveld CA	8/09/2014	Proc Natl Acad Sci U S A	25201988	rs9858213	EFO_0004784	GCST002598
3	50.09321	age at menarche	Elks CE	21/11/2010	Nat Genet	21102462	rs6762477	EFO_0004703	GCST000880
3	50.09321	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6762477	EFO_0004703	GCST002541
3	50.12940	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs2013208	EFO_0004612	GCST002223

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs36022378	3	49.91371	2.1836	credible-set	red
rs11714324	3	49.92574	2.3091	credible-set	red
rs111226181	3	49.93176	2.3873	credible-set	red
rs199906345	3	49.96077	2.2719	credible-set	red
rs112524388	3	49.96434	2.0105	credible-set	red
rs62260792	3	50.24843	2.3419	credible-set	red
rs62260798	3	50.27428	2.3161	credible-set	red

eBMD SNP INDEX 057



date: Wed Jun 28 21:24:32 2017

build: hg19

display range: chr3:55669965–56669965 [55669965–56669965]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:56169965

number of SNPs plotted: 6283

min P-value: 4.8E-16 [chr3:56192884]

max P-value: 1E0 [chr3:55672055]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	56.66768	body height	Lango Allen H	29/09/2010	Nature	20881960	rs9835332	EFO_0004339	GCST000817
3	56.66768	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs9835332	EFO_0004339	GCST002647

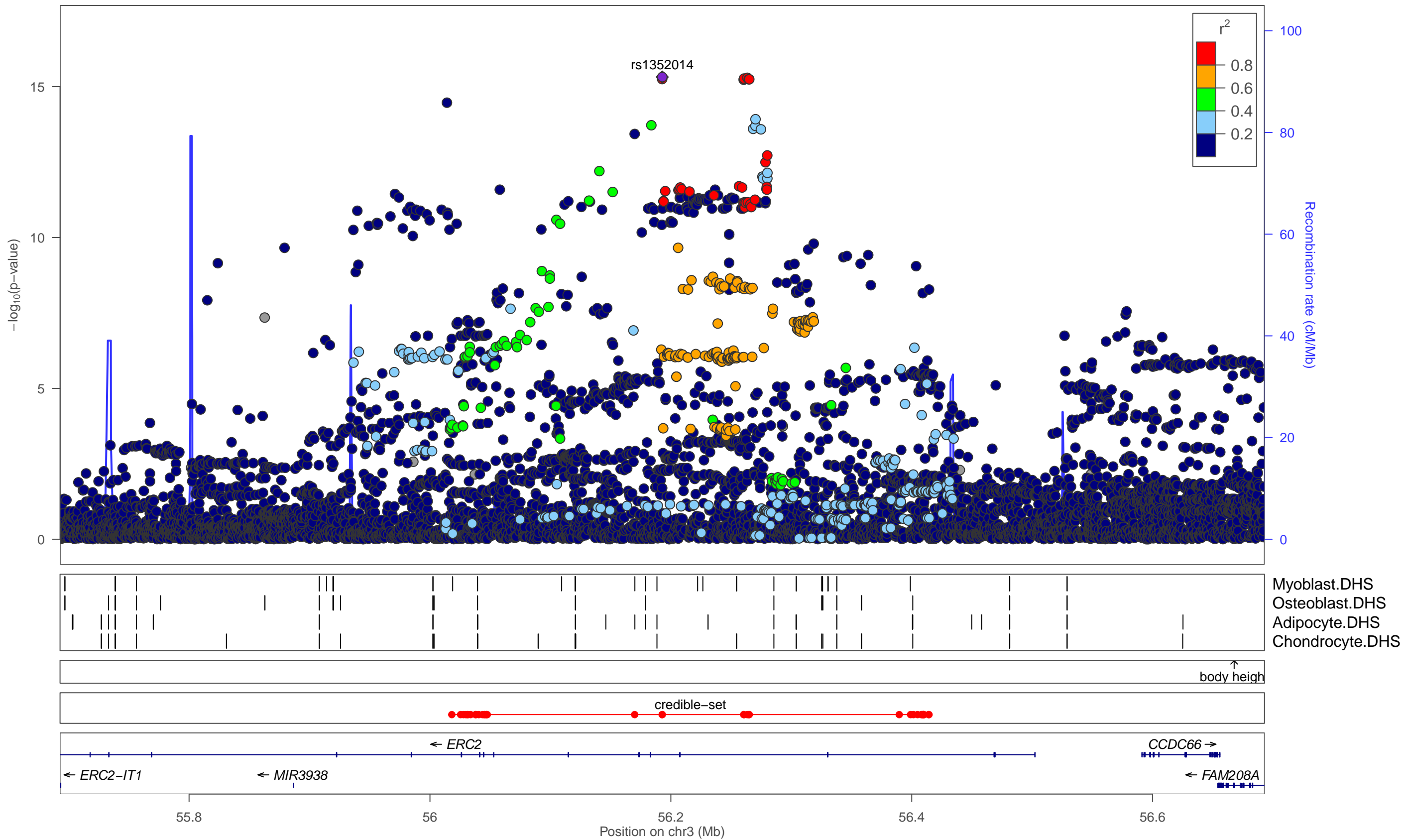
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17056313	3	56.01815	2.2387	credible-set	red
rs9873130	3	56.02546	2.3657	credible-set	red
rs9859846	3	56.02782	2.3636	credible-set	red
rs9832211	3	56.02973	2.3586	credible-set	red
rs75032426	3	56.03098	2.4775	credible-set	red
rs116083518	3	56.03160	2.4769	credible-set	red
rs114028703	3	56.03373	2.4768	credible-set	red
rs9829405	3	56.03793	2.3382	credible-set	red
rs9809692	3	56.03797	2.3580	credible-set	red
rs76983730	3	56.04050	2.3643	credible-set	red
rs9841052	3	56.04369	2.3612	credible-set	red
rs17056364	3	56.04515	2.3634	credible-set	red
rs9847697	3	56.04547	2.3569	credible-set	red
rs28372290	3	56.04677	2.3864	credible-set	red
rs9857795	3	56.04700	2.3799	credible-set	red
rs9820592	3	56.04757	2.4090	credible-set	red
rs11915970	3	56.16996	5.2439	credible-set	red
rs1352013	3	56.19279	2.6280	credible-set	red
rs1352014	3	56.19288	2.6978	credible-set	red
rs5849135	3	56.23892	2.0005	credible-set	red
rs1485679	3	56.26049	2.8226	credible-set	red
rs4974185	3	56.26072	2.8590	credible-set	red
rs4974186	3	56.26353	2.8520	credible-set	red
rs6445777	3	56.26473	2.8195	credible-set	red
rs2316861	3	56.26511	2.8154	credible-set	red
rs73090547	3	56.38962	2.1326	credible-set	red
rs73090565	3	56.39902	2.0147	credible-set	red
rs73090572	3	56.40140	2.1444	credible-set	red
rs148741695	3	56.40478	2.0158	credible-set	red
rs73073978	3	56.40794	2.0146	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs73073985	3	56.40855	2.0177	credible-set	red
rs73073992	3	56.40926	2.0143	credible-set	red
rs55968316	3	56.40962	2.0169	credible-set	red
rs56138618	3	56.40962	2.0161	credible-set	red
rs56286622	3	56.40999	2.2928	credible-set	red
rs56354761	3	56.41008	2.0170	credible-set	red
rs73075823	3	56.41396	2.0169	credible-set	red
rs73075825	3	56.41435	2.0181	credible-set	red

eBMD SNP INDEX 058



date: Wed Jun 28 21:24:30 2017

build: hg19

display range: chr3:55692884–56692884 [55692884–56692884]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:56192884

number of SNPs plotted: 6343

min P-value: 4.8E-16 [chr3:56192884]

max P-value: 1E0 [chr3:55804396]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	56.66768	body height	Lango Allen H	29/09/2010	Nature	20881960	rs9835332	EFO_0004339	GCST000817
3	56.66768	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs9835332	EFO_0004339	GCST002647

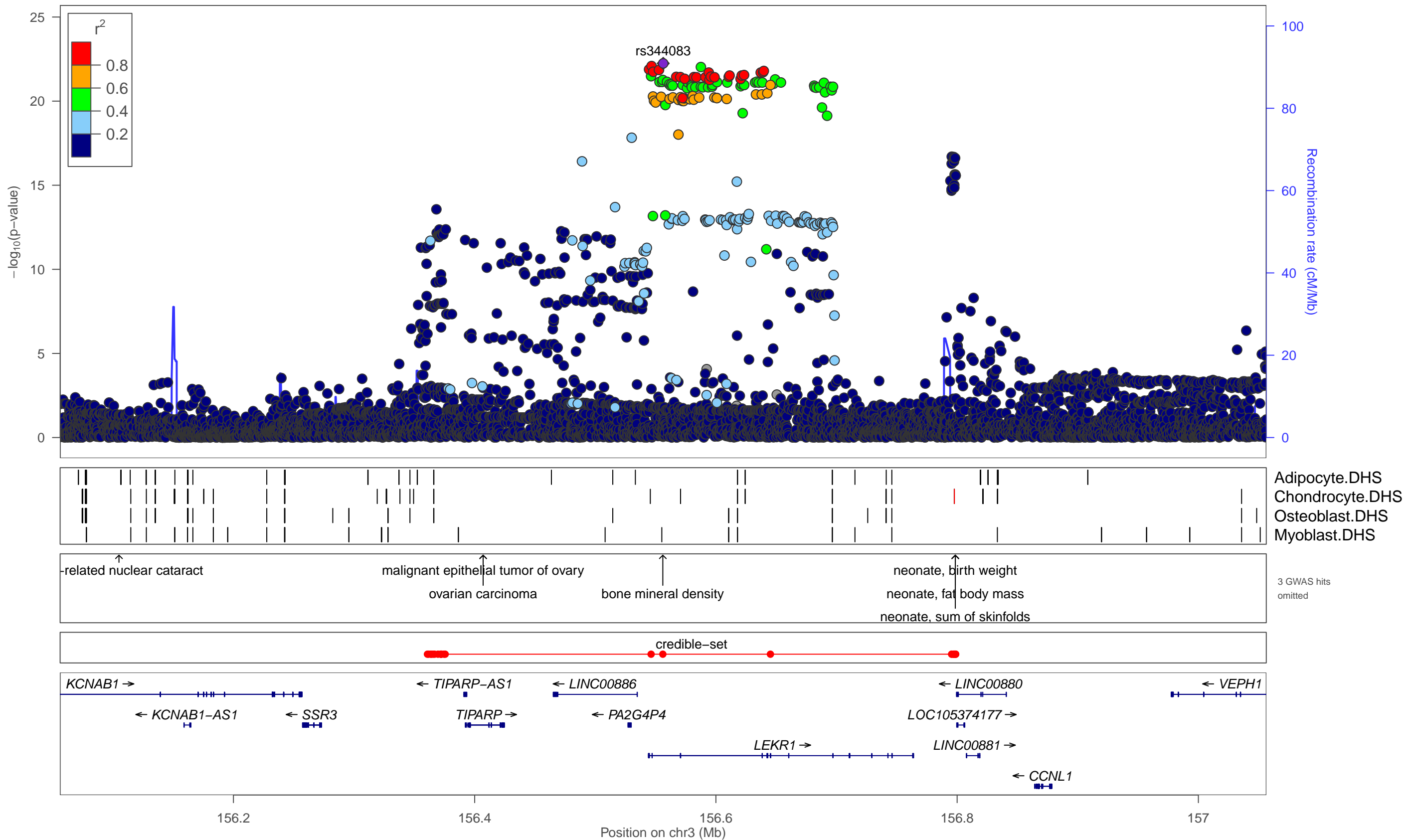
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17056313	3	56.01815	2.2527	credible-set	red
rs9873130	3	56.02546	2.3705	credible-set	red
rs9859846	3	56.02782	2.3658	credible-set	red
rs9832211	3	56.02973	2.3658	credible-set	red
rs75032426	3	56.03098	2.4775	credible-set	red
rs116083518	3	56.03160	2.4772	credible-set	red
rs114028703	3	56.03373	2.4801	credible-set	red
rs9829405	3	56.03793	2.3395	credible-set	red
rs9809692	3	56.03797	2.3709	credible-set	red
rs76983730	3	56.04050	2.3564	credible-set	red
rs9841052	3	56.04369	2.3578	credible-set	red
rs17056364	3	56.04515	2.3679	credible-set	red
rs9847697	3	56.04547	2.3620	credible-set	red
rs28372290	3	56.04677	2.3849	credible-set	red
rs9857795	3	56.04700	2.3910	credible-set	red
rs9820592	3	56.04757	2.4136	credible-set	red
rs11915970	3	56.16996	5.5348	credible-set	red
rs1352013	3	56.19279	2.6366	credible-set	red
rs1352014	3	56.19288	2.7082	credible-set	red
rs1485679	3	56.26049	2.8330	credible-set	red
rs4974185	3	56.26072	2.8679	credible-set	red
rs4974186	3	56.26353	2.8601	credible-set	red
rs6445777	3	56.26473	2.8294	credible-set	red
rs2316861	3	56.26511	2.8229	credible-set	red
rs73090547	3	56.38962	2.1280	credible-set	red
rs73090565	3	56.39902	2.0210	credible-set	red
rs73090572	3	56.40140	2.1326	credible-set	red
rs148741695	3	56.40478	2.0218	credible-set	red
rs73073978	3	56.40794	2.0151	credible-set	red
rs73073985	3	56.40855	2.0083	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs73073992	3	56.40926	2.0181	credible-set	red
rs55968316	3	56.40962	2.0178	credible-set	red
rs56138618	3	56.40962	2.0253	credible-set	red
rs56286622	3	56.40999	2.2830	credible-set	red
rs56354761	3	56.41008	2.0128	credible-set	red
rs73075823	3	56.41396	2.0242	credible-set	red
rs73075825	3	56.41435	2.0256	credible-set	red

eBMD SNP INDEX 059



date: Wed Jun 28 21:24:38 2017

build: hg19

display range: chr3:156056312–157056312 [156056312–157056312]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:156556312

number of SNPs plotted: 5825

min P-value: 5.7E-23 [chr3:156556312]

max P-value: 1E0 [chr3:156155195]

omitted GWAS Hits: NA, NA

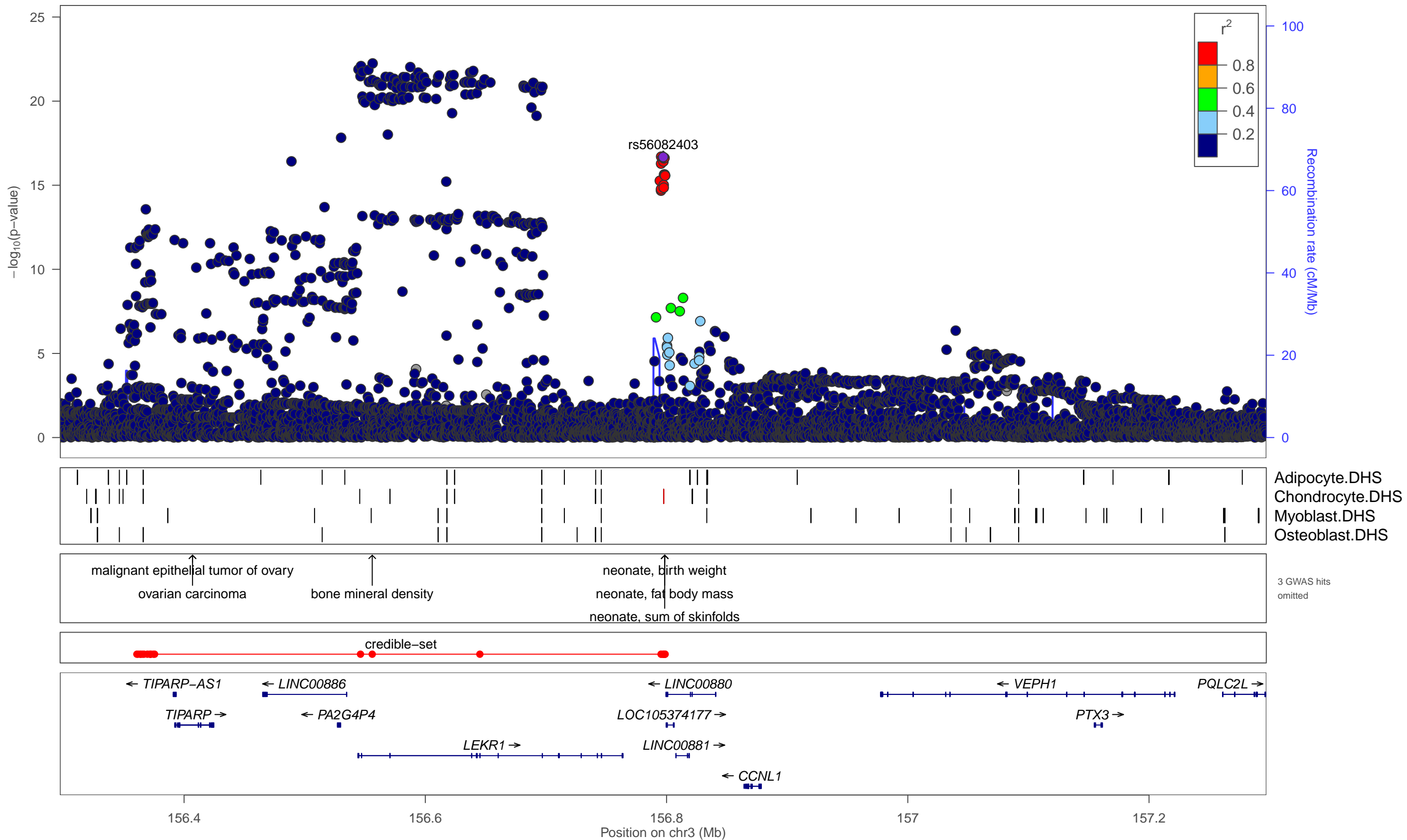
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	156.1051	age-related nuclear cataract	Liao J	20/06/2014	Hum Mol Genet	24951543	rs7615568	HP_0011142	GCST002498
3	156.4070	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs7651446	Orphanet_398934	GCST002748
3	156.4070	ovarian carcinoma	Pharoah PD	1/04/2013	Nat Genet	23535730	rs7651446	EFO_0001075	GCST001941
3	156.5560	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs344081	EFO_0003923	GCST001482
3	156.7985	neonate, birth weight	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0004344	GCST001964
3	156.7985	neonate, fat body mass	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0005409	GCST001964
3	156.7985	neonate, sum of skinfolds	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0006266	GCST001964
3	156.7988	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs900400	EFO_0004703	GCST002541
3	156.7988	birth weight	Freathy RM	6/04/2010	Nat Genet	20372150	rs900400	EFO_0004344	GCST000648
3	156.7988	birth weight	Horikoshi M	2/12/2012	Nat Genet	23202124	rs900400	EFO_0004344	GCST001758
3	156.7988	leptin	Kilpelinen TO	1/02/2016	Nat Commun	26833098	rs900400	EFO_0005000	GCST003367

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs141254955	3	156.3609	2.3676	credible-set	red
rs62275649	3	156.3618	2.1459	credible-set	red
rs7609996	3	156.3638	2.4824	credible-set	red
rs12497720	3	156.3638	2.4046	credible-set	red
rs12488104	3	156.3654	2.2228	credible-set	red
rs9869194	3	156.3667	2.2221	credible-set	red
rs140494660	3	156.3696	2.2753	credible-set	red
rs62275652	3	156.3718	2.2218	credible-set	red
rs10936033	3	156.3722	2.1485	credible-set	red
rs10936034	3	156.3722	2.2706	credible-set	red
rs10936035	3	156.3723	2.2719	credible-set	red
rs62275654	3	156.3746	2.2369	credible-set	red
rs12486016	3	156.3755	2.1588	credible-set	red
rs6148152	3	156.5463	2.2974	credible-set	red
rs344081	3	156.5560	2.0305	credible-set	red
rs200029200	3	156.6452	2.5044	credible-set	red
rs13322435	3	156.7955	2.3957	credible-set	red
rs9854955	3	156.7955	2.8761	credible-set	red
rs55730982	3	156.7972	2.6341	credible-set	red
rs56082403	3	156.7972	2.8862	credible-set	red
rs10049210	3	156.7974	2.5088	credible-set	red
rs10049090	3	156.7977	2.7350	credible-set	red
rs67261871	3	156.7979	2.1071	credible-set	red
rs1482852	3	156.7983	2.7680	credible-set	red
rs1482853	3	156.7985	2.0836	credible-set	red
rs900399	3	156.7987	2.0625	credible-set	red
rs900400	3	156.7988	2.0844	credible-set	red

eBMD SNP INDEX 060



date: Wed Jun 28 21:24:37 2017

build: hg19

display range: chr3:156297225–157297225 [156297225–157297225]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr3:156797225

number of SNPs plotted: 5676

min P-value: 5.7E-23 [chr3:156556312]

max P-value: 1E0 [chr3:156453377]

omitted GWAS Hits: NA, NA

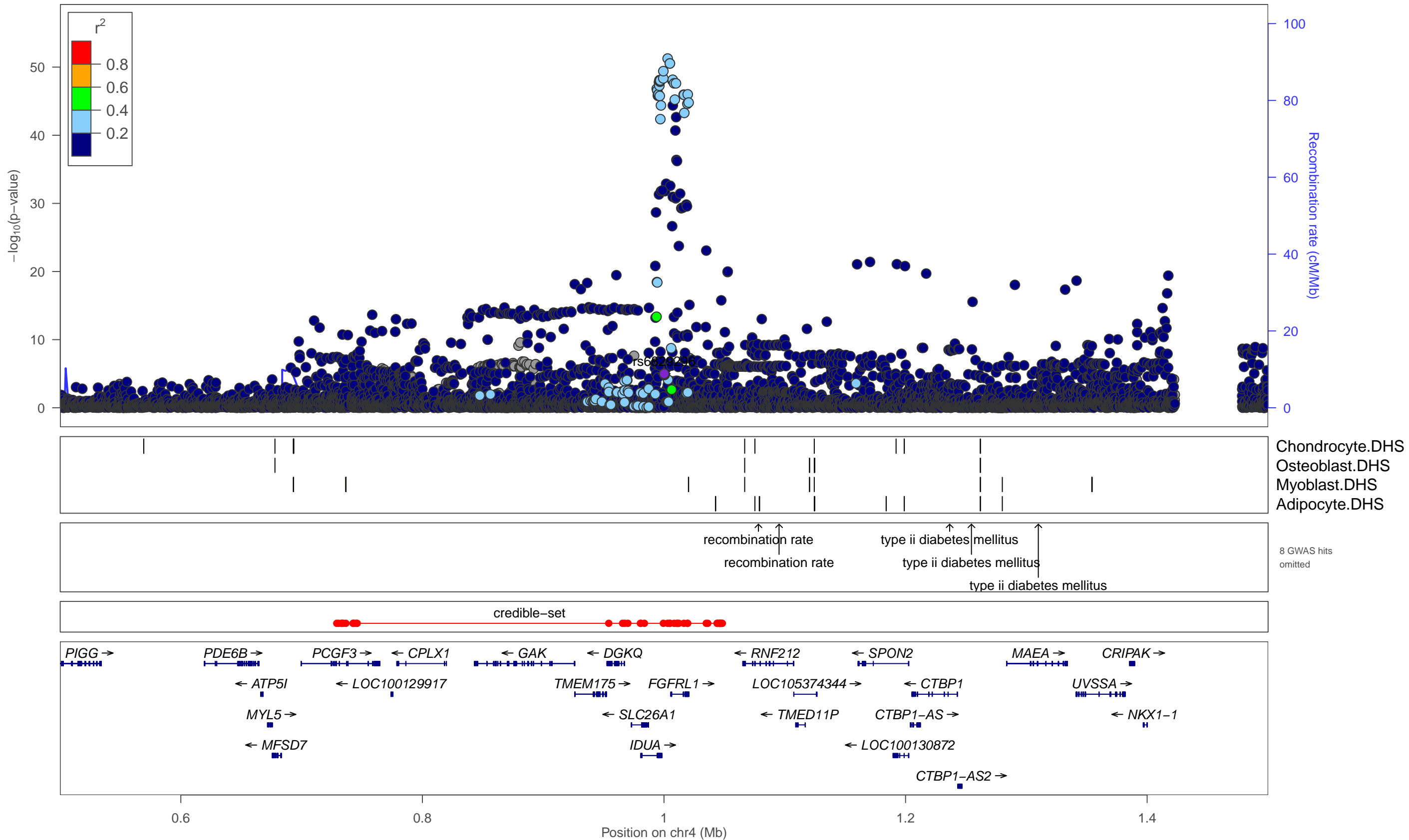
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
3	156.4070	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs7651446	Orphanet_398934	GCST002748
3	156.4070	ovarian carcinoma	Pharoah PD	1/04/2013	Nat Genet	23535730	rs7651446	EFO_0001075	GCST001941
3	156.5560	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs344081	EFO_0003923	GCST001482
3	156.7985	neonate, birth weight	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0004344	GCST001964
3	156.7985	neonate, fat body mass	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0005409	GCST001964
3	156.7985	neonate, sum of skinfolds	Urbanek M	10/04/2013	Hum Mol Genet	23575227	rs1482853	EFO_0001372, EFO_0006266	GCST001964
3	156.7988	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs900400	EFO_0004703	GCST002541
3	156.7988	birth weight	Freathy RM	6/04/2010	Nat Genet	20372150	rs900400	EFO_0004344	GCST000648
3	156.7988	birth weight	Horikoshi M	2/12/2012	Nat Genet	23202124	rs900400	EFO_0004344	GCST001758
3	156.7988	leptin	Kilpelinen TO	1/02/2016	Nat Commun	26833098	rs900400	EFO_0005000	GCST003367

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs141254955	3	156.3609	2.3552	credible-set	red
rs62275649	3	156.3618	2.1490	credible-set	red
rs7609996	3	156.3638	2.4715	credible-set	red
rs12497720	3	156.3638	2.4032	credible-set	red
rs12488104	3	156.3654	2.2166	credible-set	red
rs9869194	3	156.3667	2.2052	credible-set	red
rs140494660	3	156.3696	2.2499	credible-set	red
rs62275652	3	156.3718	2.2063	credible-set	red
rs10936033	3	156.3722	2.1340	credible-set	red
rs10936034	3	156.3722	2.2631	credible-set	red
rs10936035	3	156.3723	2.2612	credible-set	red
rs62275654	3	156.3746	2.2227	credible-set	red
rs12486016	3	156.3755	2.1402	credible-set	red
rs6148152	3	156.5463	2.2882	credible-set	red
rs344081	3	156.5560	2.0156	credible-set	red
rs200029200	3	156.6452	2.4923	credible-set	red
rs13322435	3	156.7955	2.3708	credible-set	red
rs9854955	3	156.7955	2.8708	credible-set	red
rs55730982	3	156.7972	2.6257	credible-set	red
rs56082403	3	156.7972	2.8730	credible-set	red
rs10049210	3	156.7974	2.4953	credible-set	red
rs10049090	3	156.7977	2.7308	credible-set	red
rs67261871	3	156.7979	2.1061	credible-set	red
rs1482852	3	156.7983	2.7477	credible-set	red
rs1482853	3	156.7985	2.0583	credible-set	red
rs900399	3	156.7987	2.0707	credible-set	red
rs900400	3	156.7988	2.0603	credible-set	red

eBMD SNP INDEX 061



date: Wed Jun 28 21:24:57 2017

build: hg19

display range: chr4:500138–1500138 [500138–1500138]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:1000138

number of SNPs plotted: 7697

min P-value: 5.5E-52 [chr4:1003022]

max P-value: 1E0 [chr4:1025868]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	0.858332	parkinson's disease	Hamza TH	15/08/2010	Nat Genet	20711177	rs11248051	EFO_0002508	GCST000772
4	0.939087	parkinson's disease	Nalls MA	1/02/2011	Lancet	21292315	rs6599388	EFO_0002508	GCST000959
4	0.939113	parkinson's disease	Do CB	23/06/2011	PLoS Genet	21738487	rs6599389	EFO_0002508	GCST001126
4	0.951947	parkinson's disease	Nalls MA	27/07/2014	Nat Genet	25064009	rs34311866	EFO_0002508	GCST002544
4	0.964359	parkinson's disease	Lill CM	15/03/2012	PLoS Genet	22438815	rs11248060	EFO_0002508	GCST001445
4	0.964359	parkinson's disease	Pankratz N	1/03/2012	Ann Neurol	22451204	rs11248060	EFO_0002508	GCST001430
4	0.965779	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs11724804	EFO_1001486	GCST003129
4	0.994414	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3755955	EFO_0003923	GCST001482
4	0.999445	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs6827815	EFO_0003923	GCST002276
4	1.078187	recombination rate	Kong A	2/02/2008	Science	18239089	rs1670533	EFO_0004863	GCST000149
4	1.095281	recombination rate	Kong A	2/02/2008	Science	18239089	rs3796619	EFO_0004863	GCST000148
4	1.236502	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs73069940	EFO_0001360	GCST003400
4	1.254535	type ii diabetes mellitus	Imamura M	28/03/2012	Hum Mol Genet	22456796	rs7656416	EFO_0001360	GCST001461
4	1.309901	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs6815464	EFO_0001360	GCST001351

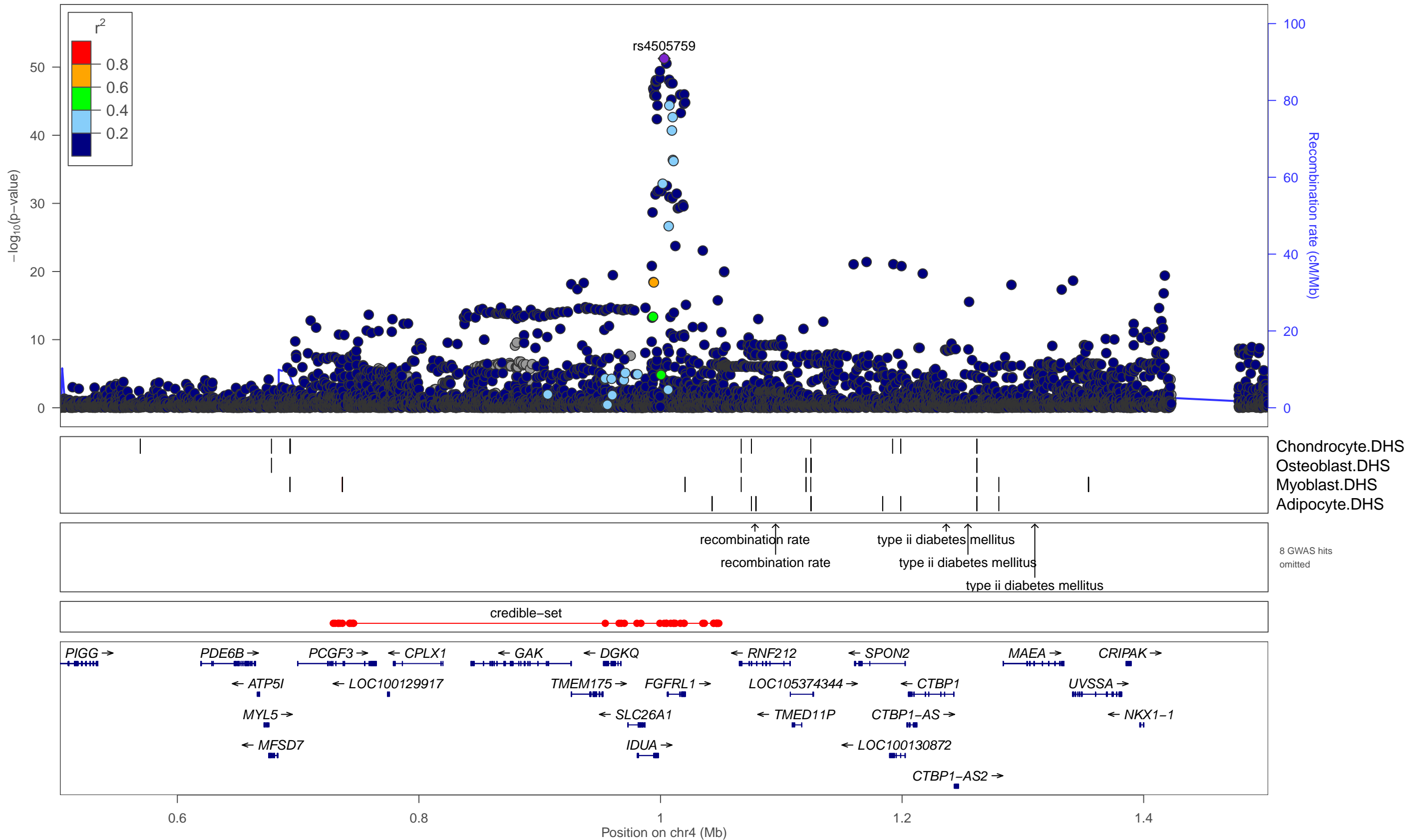
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13142139	4	0.729104	2.6993	credible-set	red
rs11725699	4	0.730560	2.6279	credible-set	red
rs11723111	4	0.733045	2.2094	credible-set	red
rs13133410	4	0.733334	2.2123	credible-set	red
rs11248037	4	0.734603	2.0523	credible-set	red
rs12643640	4	0.736626	2.3717	credible-set	red
rs4690301	4	0.742572	2.7064	credible-set	red
rs4690191	4	0.742705	2.6433	credible-set	red
rs9332466	4	0.744098	2.7183	credible-set	red
rs1531584	4	0.745445	2.9004	credible-set	red
rs899389	4	0.745971	2.9182	credible-set	red
rs3733346	4	0.954275	2.3368	credible-set	red
rs13101828	4	0.965720	2.1797	credible-set	red
rs13137144	4	0.967445	2.1278	credible-set	red
rs12510382	4	0.970112	2.3458	credible-set	red
rs4690220	4	0.980464	2.2412	credible-set	red
rs11248061	4	0.980896	2.0026	credible-set	red
rs4690221	4	0.983809	3.9688	credible-set	red
rs76048788	4	0.999470	2.2837	credible-set	red
rs4505759	4	1.003022	13.6695	credible-set	red
rs79664023	4	1.004863	3.5966	credible-set	red
rs78520297	4	1.004864	3.6038	credible-set	red
rs35229585	4	1.008417	2.8082	credible-set	red
rs56034896	4	1.010782	3.3092	credible-set	red
rs748651	4	1.011115	2.7523	credible-set	red
rs111632154	4	1.012300	4.0647	credible-set	red
rs11723654	4	1.016480	2.7131	credible-set	red
rs4647939	4	1.019312	2.0555	credible-set	red
rs1064838	4	1.019672	2.4556	credible-set	red
rs112069922	4	1.034997	3.2742	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112688410	4	1.036300	2.0579	credible-set	red
rs4690218	4	1.043971	2.1357	credible-set	red
rs7669461	4	1.044076	3.0543	credible-set	red
rs2242083	4	1.044825	2.0434	credible-set	red
rs17131820	4	1.046260	2.5925	credible-set	red
rs13140313	4	1.046332	2.1486	credible-set	red
rs28377444	4	1.046406	2.8818	credible-set	red
rs79036983	4	1.047354	3.0791	credible-set	red
rs146079554	4	1.047736	2.1356	credible-set	red
rs62294694	4	1.048307	2.9747	credible-set	red

eBMD SNP INDEX 062



date: Wed Jun 28 21:25:03 2017

build: hg19

display range: chr4:503022–1503022 [503022–1503022]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:1003022

number of SNPs plotted: 7715

min P-value: 5.5E-52 [chr4:1003022]

max P-value: 1E0 [chr4:1025868]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	0.858332	parkinson's disease	Hamza TH	15/08/2010	Nat Genet	20711177	rs11248051	EFO_0002508	GCST000772
4	0.939087	parkinson's disease	Nalls MA	1/02/2011	Lancet	21292315	rs6599388	EFO_0002508	GCST000959
4	0.939113	parkinson's disease	Do CB	23/06/2011	PLoS Genet	21738487	rs6599389	EFO_0002508	GCST001126
4	0.951947	parkinson's disease	Nalls MA	27/07/2014	Nat Genet	25064009	rs34311866	EFO_0002508	GCST002544
4	0.964359	parkinson's disease	Lill CM	15/03/2012	PLoS Genet	22438815	rs11248060	EFO_0002508	GCST001445
4	0.964359	parkinson's disease	Pankratz N	1/03/2012	Ann Neurol	22451204	rs11248060	EFO_0002508	GCST001430
4	0.965779	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs11724804	EFO_1001486	GCST003129
4	0.994414	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3755955	EFO_0003923	GCST001482
4	0.999445	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs6827815	EFO_0003923	GCST002276
4	1.078187	recombination rate	Kong A	2/02/2008	Science	18239089	rs1670533	EFO_0004863	GCST000149
4	1.095281	recombination rate	Kong A	2/02/2008	Science	18239089	rs3796619	EFO_0004863	GCST000148
4	1.236502	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs73069940	EFO_0001360	GCST003400
4	1.254535	type ii diabetes mellitus	Imamura M	28/03/2012	Hum Mol Genet	22456796	rs7656416	EFO_0001360	GCST001461
4	1.309901	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs6815464	EFO_0001360	GCST001351

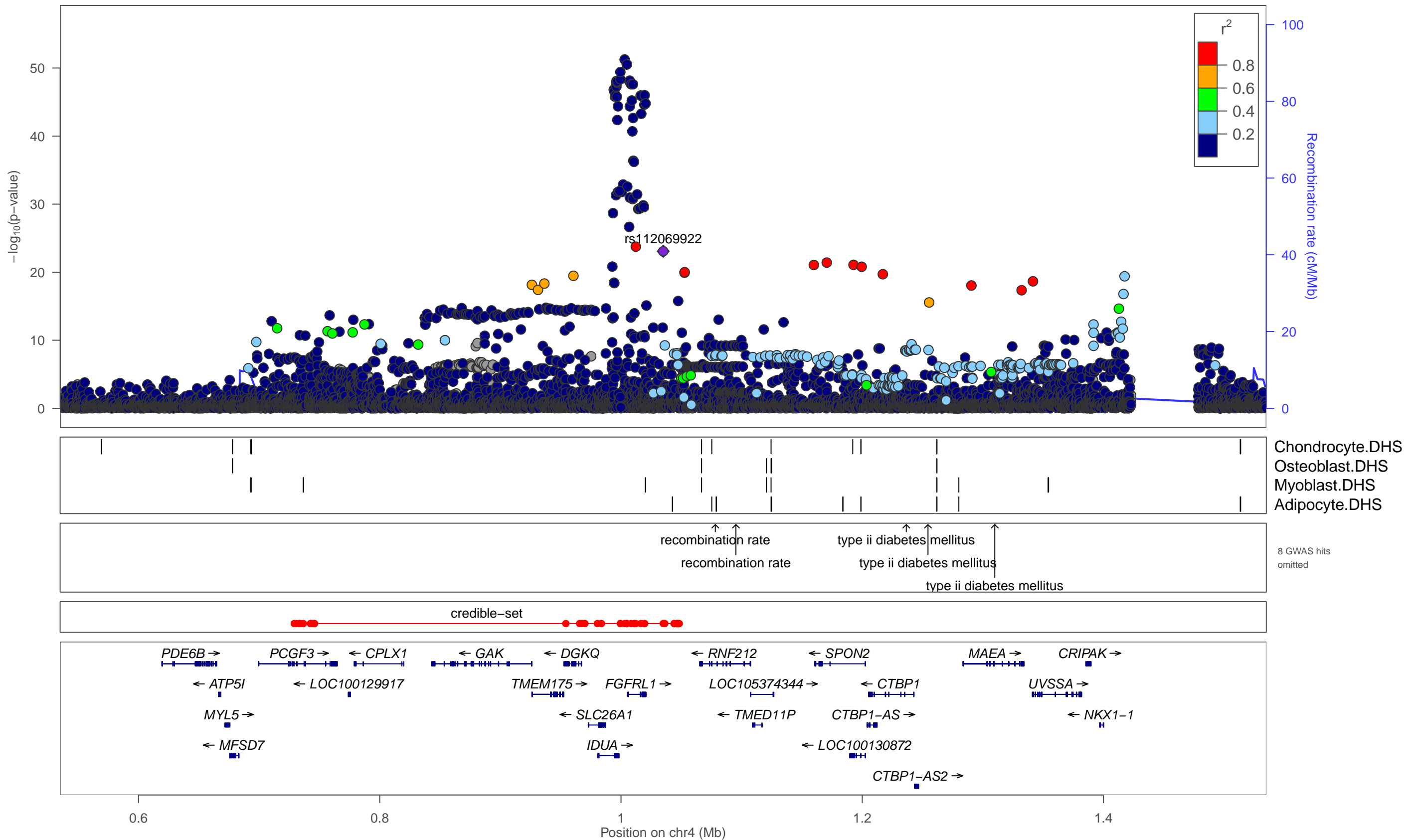
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13142139	4	0.729104	2.7026	credible-set	red
rs11725699	4	0.730560	2.6418	credible-set	red
rs11723111	4	0.733045	2.2135	credible-set	red
rs13133410	4	0.733334	2.2172	credible-set	red
rs11248037	4	0.734603	2.0450	credible-set	red
rs12643640	4	0.736626	2.3602	credible-set	red
rs4690301	4	0.742572	2.7000	credible-set	red
rs4690191	4	0.742705	2.6156	credible-set	red
rs9332466	4	0.744098	2.7255	credible-set	red
rs1531584	4	0.745445	2.9174	credible-set	red
rs899389	4	0.745971	2.9167	credible-set	red
rs3733346	4	0.954275	2.3390	credible-set	red
rs13101828	4	0.965720	2.1910	credible-set	red
rs13137144	4	0.967445	2.1087	credible-set	red
rs12510382	4	0.970112	2.3594	credible-set	red
rs4690220	4	0.980464	2.2207	credible-set	red
rs4690221	4	0.983809	3.9879	credible-set	red
rs76048788	4	0.999470	2.3063	credible-set	red
rs4505759	4	1.003022	13.6706	credible-set	red
rs79664023	4	1.004863	3.5899	credible-set	red
rs78520297	4	1.004864	3.6130	credible-set	red
rs35229585	4	1.008417	2.8202	credible-set	red
rs56034896	4	1.010782	3.3296	credible-set	red
rs748651	4	1.011115	2.7485	credible-set	red
rs111632154	4	1.012300	4.0624	credible-set	red
rs11723654	4	1.016480	2.7044	credible-set	red
rs4647939	4	1.019312	2.0361	credible-set	red
rs1064838	4	1.019672	2.4639	credible-set	red
rs112069922	4	1.034997	3.2786	credible-set	red
rs112688410	4	1.036300	2.0536	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4690218	4	1.043971	2.0609	credible-set	red
rs7669461	4	1.044076	3.0520	credible-set	red
rs17131820	4	1.046260	2.5948	credible-set	red
rs13140313	4	1.046332	2.1691	credible-set	red
rs28377444	4	1.046406	2.8933	credible-set	red
rs79036983	4	1.047354	3.0877	credible-set	red
rs146079554	4	1.047736	2.1433	credible-set	red
rs62294694	4	1.048307	2.9891	credible-set	red

eBMD SNP INDEX 063



date: Wed Jun 28 21:25:03 2017

build: hg19

display range: chr4:534997–1534997 [534997–1534997]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:1034997

number of SNPs plotted: 7816

min P-value: 5.5E-52 [chr4:1003022]

max P-value: 1E0 [chr4:1025868]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	0.858332	parkinson's disease	Hamza TH	15/08/2010	Nat Genet	20711177	rs11248051	EFO_0002508	GCST000772
4	0.939087	parkinson's disease	Nalls MA	1/02/2011	Lancet	21292315	rs6599388	EFO_0002508	GCST000959
4	0.939113	parkinson's disease	Do CB	23/06/2011	PLoS Genet	21738487	rs6599389	EFO_0002508	GCST001126
4	0.951947	parkinson's disease	Nalls MA	27/07/2014	Nat Genet	25064009	rs34311866	EFO_0002508	GCST002544
4	0.964359	parkinson's disease	Lill CM	15/03/2012	PLoS Genet	22438815	rs11248060	EFO_0002508	GCST001445
4	0.964359	parkinson's disease	Pankratz N	1/03/2012	Ann Neurol	22451204	rs11248060	EFO_0002508	GCST001430
4	0.965779	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs11724804	EFO_1001486	GCST003129
4	0.994414	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3755955	EFO_0003923	GCST001482
4	0.999445	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs6827815	EFO_0003923	GCST002276
4	1.078187	recombination rate	Kong A	2/02/2008	Science	18239089	rs1670533	EFO_0004863	GCST000149
4	1.095281	recombination rate	Kong A	2/02/2008	Science	18239089	rs3796619	EFO_0004863	GCST000148
4	1.236502	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs73069940	EFO_0001360	GCST003400
4	1.254535	type ii diabetes mellitus	Imamura M	28/03/2012	Hum Mol Genet	22456796	rs7656416	EFO_0001360	GCST001461
4	1.309901	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs6815464	EFO_0001360	GCST001351

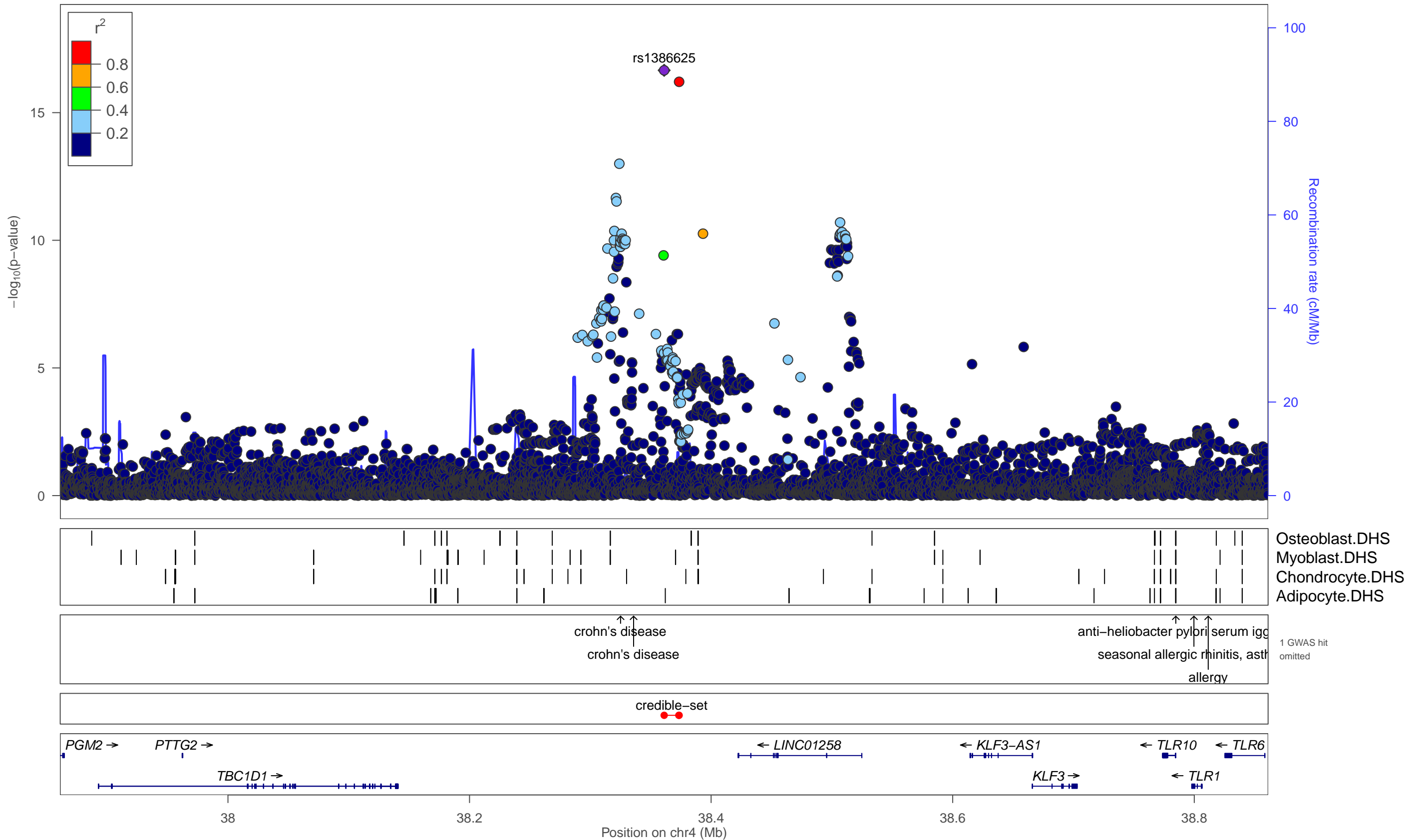
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13142139	4	0.729104	2.6946	credible-set	red
rs11725699	4	0.730560	2.6547	credible-set	red
rs11723111	4	0.733045	2.2111	credible-set	red
rs13133410	4	0.733334	2.2139	credible-set	red
rs11248037	4	0.734603	2.0395	credible-set	red
rs12643640	4	0.736626	2.3650	credible-set	red
rs4690301	4	0.742572	2.7150	credible-set	red
rs4690191	4	0.742705	2.6320	credible-set	red
rs9332466	4	0.744098	2.7401	credible-set	red
rs1531584	4	0.745445	2.9139	credible-set	red
rs899389	4	0.745971	2.9210	credible-set	red
rs3733346	4	0.954275	2.3318	credible-set	red
rs13101828	4	0.965720	2.1951	credible-set	red
rs13137144	4	0.967445	2.1446	credible-set	red
rs12510382	4	0.970112	2.3133	credible-set	red
rs4690220	4	0.980464	2.2309	credible-set	red
rs4690221	4	0.983809	4.0122	credible-set	red
rs76048788	4	0.999470	2.3035	credible-set	red
rs4505759	4	1.003022	13.6765	credible-set	red
rs79664023	4	1.004863	3.6159	credible-set	red
rs78520297	4	1.004864	3.5942	credible-set	red
rs35229585	4	1.008417	2.8140	credible-set	red
rs56034896	4	1.010782	3.3320	credible-set	red
rs748651	4	1.011115	2.7648	credible-set	red
rs111632154	4	1.012300	4.0982	credible-set	red
rs11723654	4	1.016480	2.7140	credible-set	red
rs4647939	4	1.019312	2.0472	credible-set	red
rs1064838	4	1.019672	2.4727	credible-set	red
rs112069922	4	1.034997	3.2544	credible-set	red
rs112688410	4	1.036300	2.0557	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4690218	4	1.043971	2.1211	credible-set	red
rs7669461	4	1.044076	3.0650	credible-set	red
rs17131820	4	1.046260	2.5687	credible-set	red
rs13140313	4	1.046332	2.1621	credible-set	red
rs28377444	4	1.046406	2.8855	credible-set	red
rs79036983	4	1.047354	3.1106	credible-set	red
rs146079554	4	1.047736	2.1620	credible-set	red
rs62294694	4	1.048307	3.0030	credible-set	red

eBMD SNP INDEX 064



date: Wed Jun 28 21:25:00 2017

build: hg19

display range: chr4:37861120–38861120 [37861120–38861120]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:38361120

number of SNPs plotted: 6694

min P-value: 2.2E-17 [chr4:38361120]

max P-value: 1E0 [chr4:37902824]

omitted GWAS Hits: NA

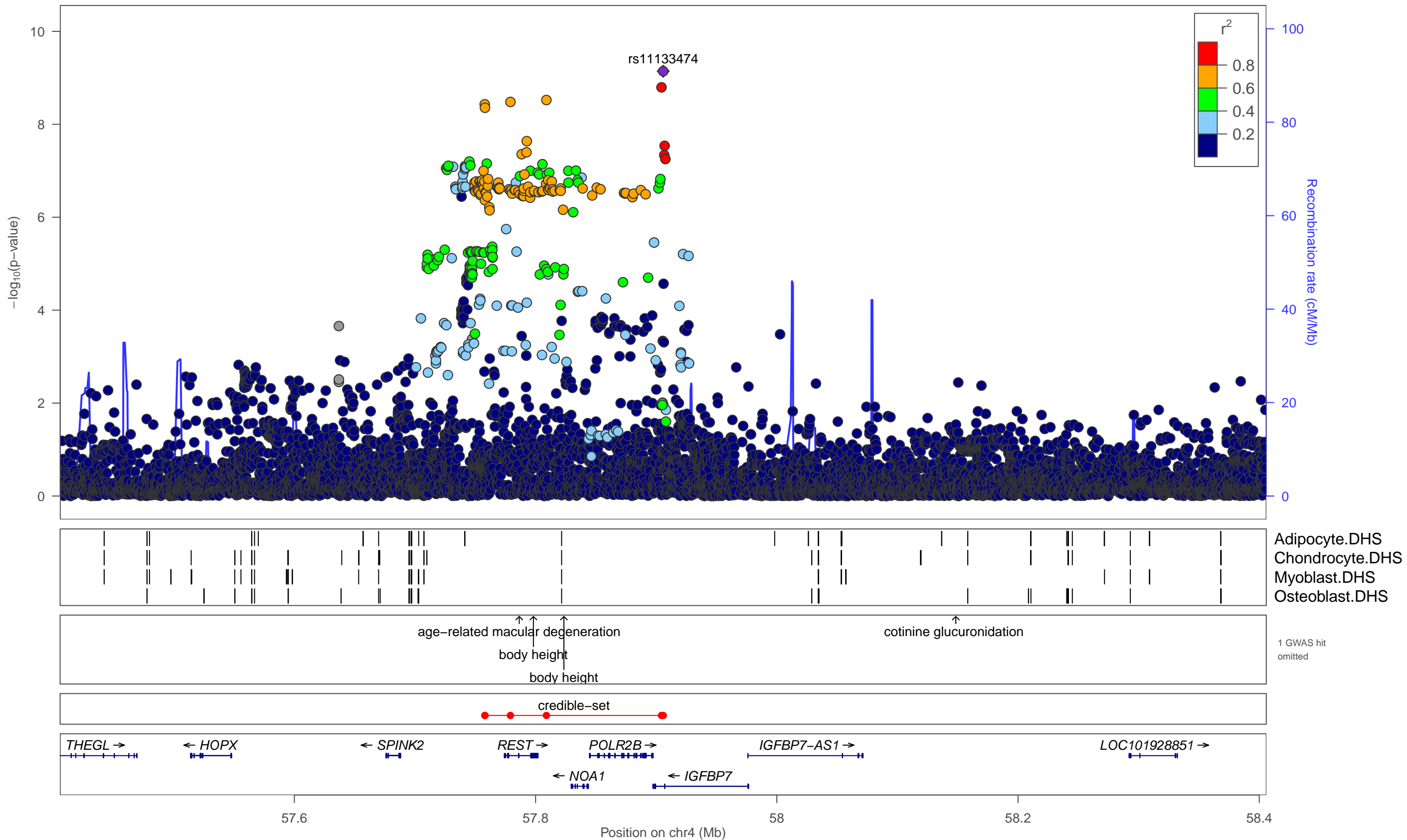
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	38.32504	crohn's disease	Yang SK	14/07/2013	Gut	23850713	rs6856616	EFO_0000384	GCST002094
4	38.33582	crohn's disease	Yamazaki K	21/12/2012	Gastroenterology	23266558	rs1487630	EFO_0000384	GCST001785
4	38.78472	anti-heliobacter pylori serum igg	Mayerle J	8/05/2013	JAMA	23652523	rs10004195	EFO_0005247	GCST002014
4	38.79971	seasonal allergic rhinitis, asthma	Ferreira MA	30/12/2013	J Allergy Clin Immunol	24388013	rs4833095	EFO_0003956, EFO_0000270	GCST002322
4	38.81155	allergy	Hinds DA	30/06/2013	Nat Genet	23817569	rs2101521	EFO_0003785	GCST002083
4	38.81288	allergic sensitization	Bonnelykke K	30/06/2013	Nat Genet	23817571	rs17616434	EFO_0005298	GCST002084

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1386625	4	38.36112	4.0565	credible-set	red
rs55843822	4	38.37327	3.3300	credible-set	red
rs5857620	4	38.37351	3.1940	credible-set	red

eBMD SNP INDEX 065



date: Wed Jun 28 21:25:02 2017

build: hg19

display range: chr4:57405807–58405807 [57405807–58405807]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:57905807

number of SNPs plotted: 7656

min P-value: 7.2E-10 [chr4:57905807]

max P-value: 1E0 [chr4:57414475]

omitted GWAS Hits: chr4:58.148386–cotinine glucuronidation

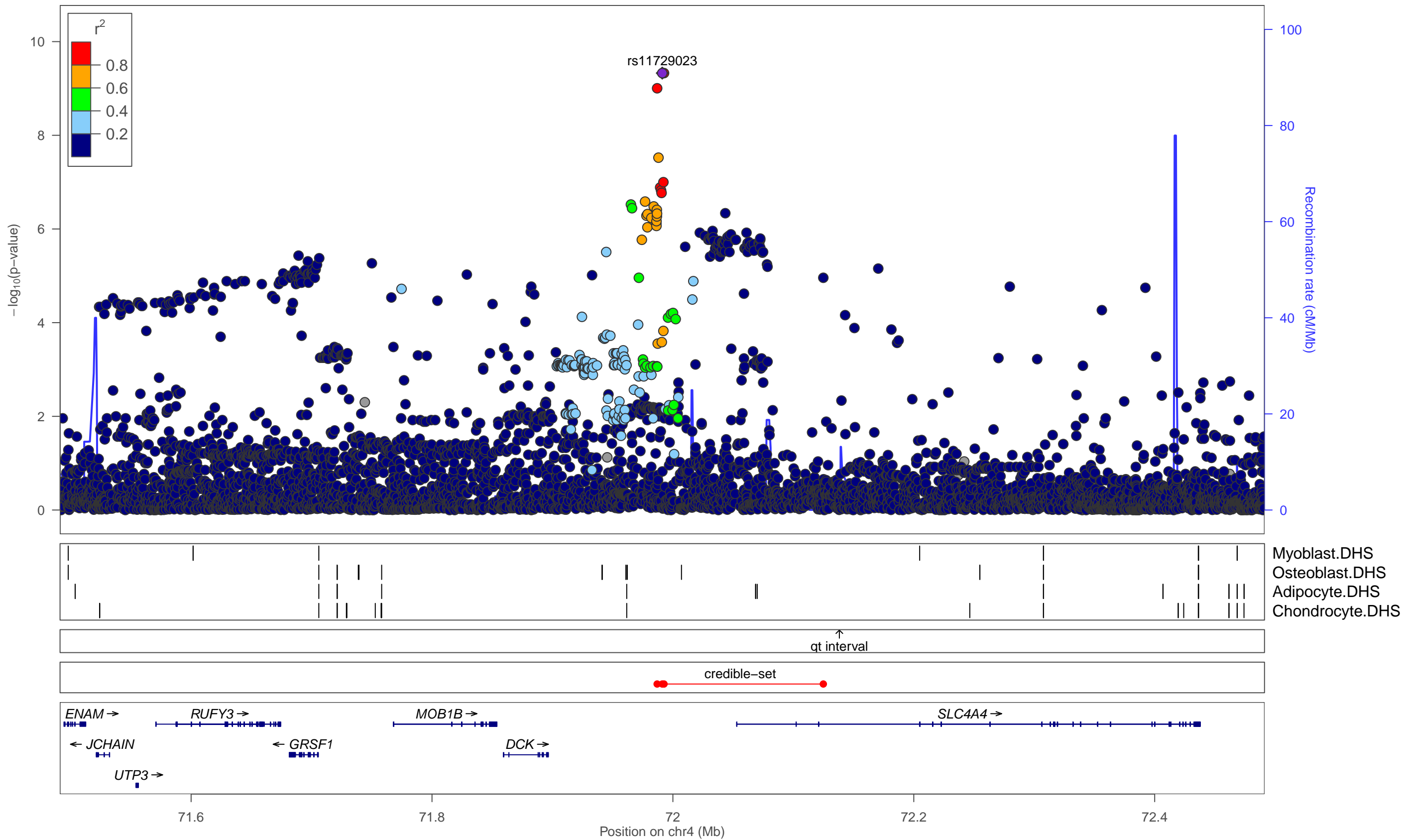
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	57.78645	age-related macular degeneration	Arakawa S	11/09/2011	Nat Genet	21909106	rs1713985	EFO_0001365	GCST001232
4	57.79819	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2227901	EFO_0004339	GCST002702
4	57.82348	body height	Lango Allen H	29/09/2010	Nature	20881960	rs17081935	EFO_0004339	GCST000817
4	57.82348	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs17081935	EFO_0004339	GCST002647
4	57.85719	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs3733309	EFO_0004339	GCST002702
4	58.14839	cotinine glucuronidation	Patel Y	7/10/2014	Cancer Epidemiol Biomarkers Prev	25293881	rs6832720	EFO_0006508	GCST002652

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs71609617	4	57.75785	2.5437	credible-set	red
rs68119427	4	57.75803	2.4608	credible-set	red
rs35640834	4	57.77915	2.5984	credible-set	red
rs13123018	4	57.80897	2.6438	credible-set	red
rs11133472	4	57.90439	2.9486	credible-set	red
rs11133474	4	57.90581	3.3916	credible-set	red

eBMD SNP INDEX 066



date: Wed Jun 28 21:24:52 2017

build: hg19

display range: chr4:71491184–72491184 [71491184–72491184]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:71991184

number of SNPs plotted: 5218

min P-value: 4.7E-10 [chr4:71991184]

max P-value: 1E0 [chr4:71491970]

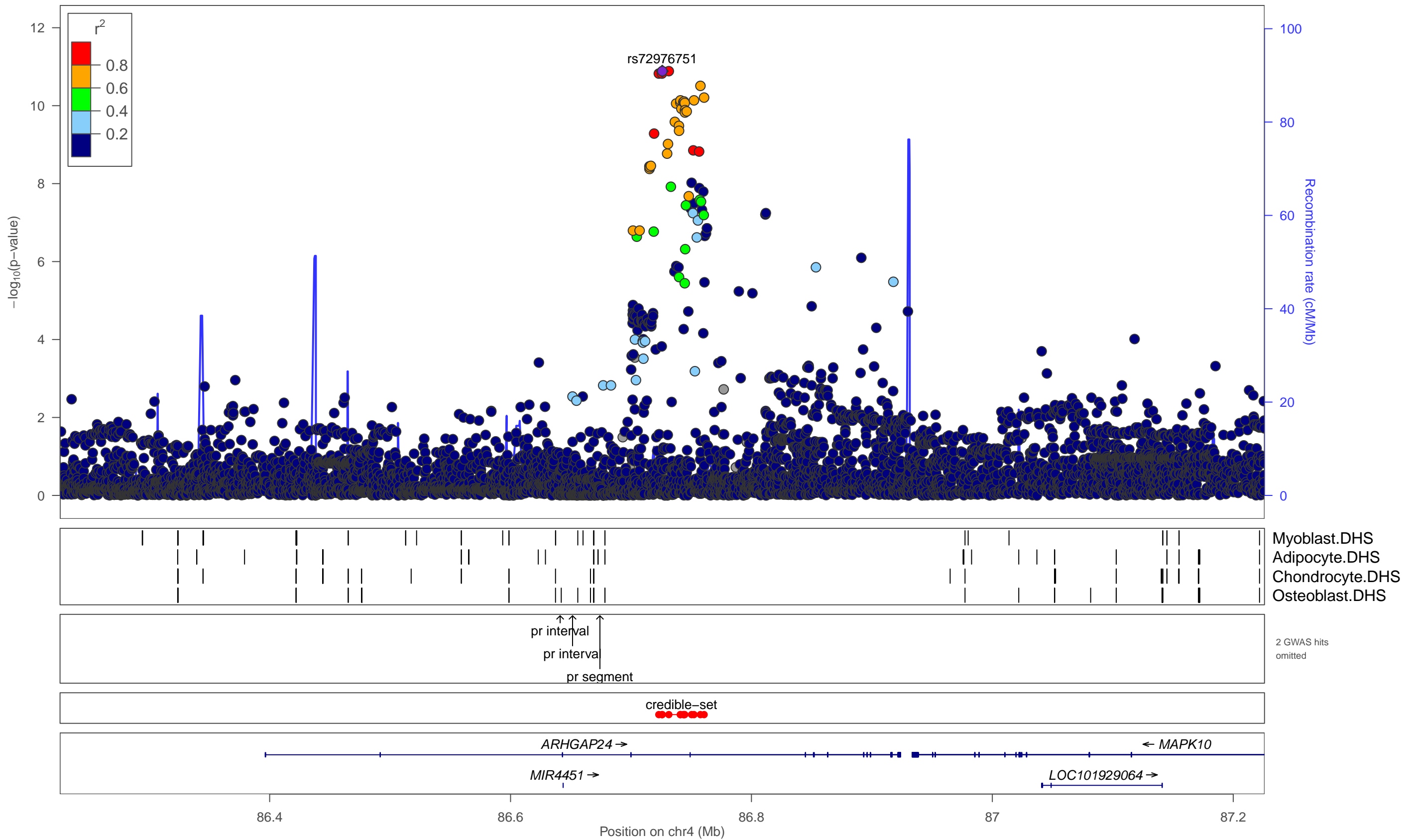
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	72.13822	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs2363719	EFO_0004682	GCST002500

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs114654867	4	71.98693	2.8941	credible-set	red
rs11729023	4	71.99118	3.3171	credible-set	red
rs2840075	4	71.99263	3.3174	credible-set	red
rs75217528	4	72.12489	2.6944	credible-set	red

eBMD SNP INDEX 067



date: Wed Jun 28 21:25:32 2017

build: hg19

display range: chr4:86225959–87225959 [86225959–87225959]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:86725959

number of SNPs plotted: 6139

min P-value: 1.3E-11 [chr4:86725959]

max P-value: 1E0 [chr4:86290559]

omitted GWAS Hits: NA, NA

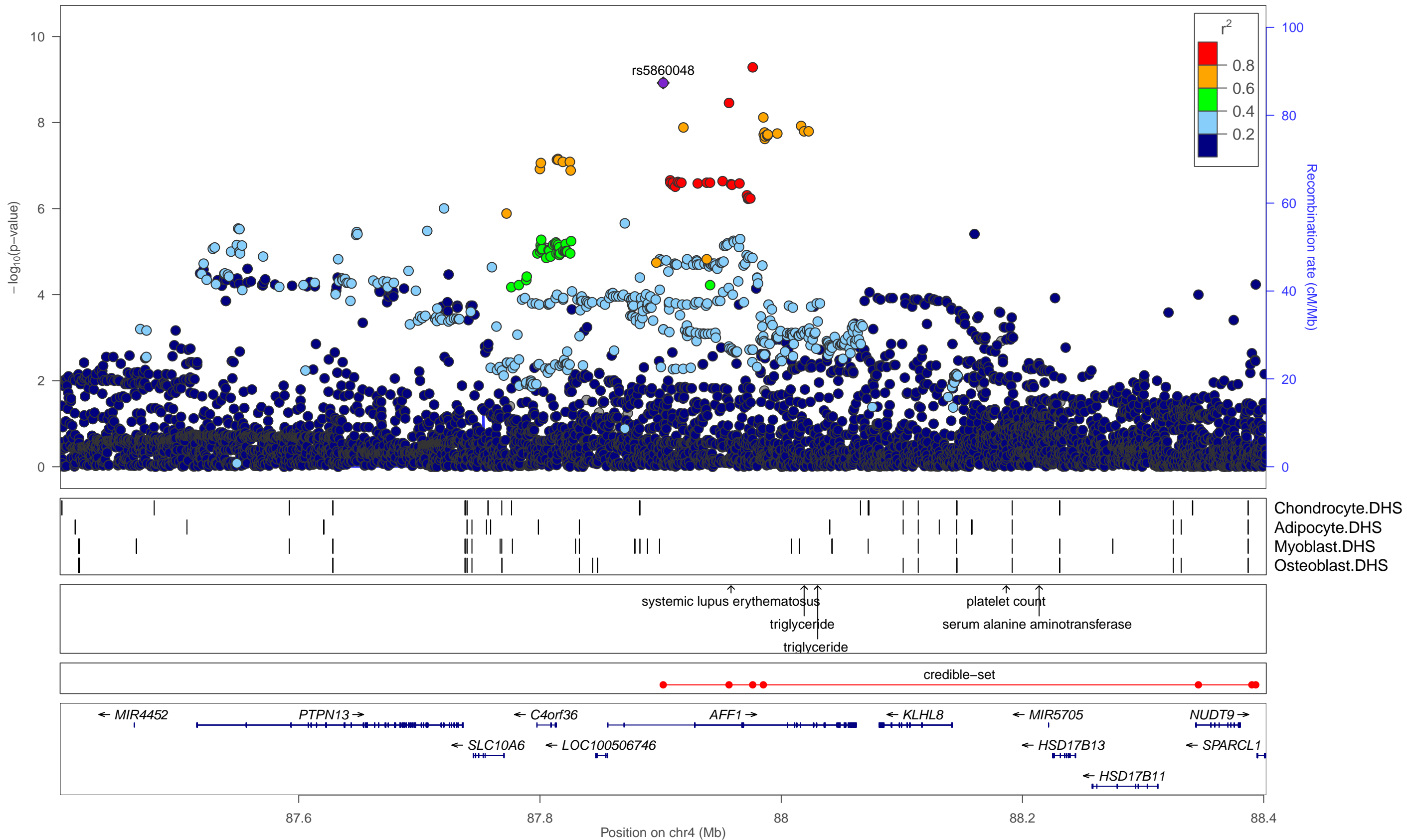
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	86.64115	pr interval	Pfeufer A	10/01/2010	Nat Genet	20062060	rs7692808	EFO_0004462	GCST000562
4	86.65146	pr interval	Holm H	10/01/2010	Nat Genet	20062063	rs7660702	EFO_0004462	GCST000561
4	86.67420	pr segment	Verweij N	21/05/2014	Circ Cardiovasc Genet	24850809	rs13137008	EFO_0005095	GCST002456
4	86.68356	pr interval	Butler AM	8/11/2012	Circ Cardiovasc Genet	23139255	rs11732231	EFO_0004462	GCST001735
4	86.71567	systolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs2014912	EFO_0006335	GCST003272

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17010961	4	86.72310	2.7553	credible-set	red
rs72976750	4	86.72568	2.7554	credible-set	red
rs72976751	4	86.72596	2.8245	credible-set	red
rs17011002	4	86.73139	2.8254	credible-set	red
rs57129466	4	86.74093	2.0188	credible-set	red
rs61163122	4	86.74105	2.0764	credible-set	red
rs78935989	4	86.74343	2.0298	credible-set	red
rs1823762	4	86.74400	2.0472	credible-set	red
rs745891	4	86.74461	2.0076	credible-set	red
rs11097076	4	86.75031	2.1483	credible-set	red
rs17011039	4	86.75228	2.0779	credible-set	red
rs60565316	4	86.75765	2.4613	credible-set	red
rs77018512	4	86.76068	2.1514	credible-set	red

eBMD SNP INDEX 068



date: Wed Jun 28 21:25:32 2017

build: hg19

display range: chr4:87402157–88402157 [87402157–88402157]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:87902157

number of SNPs plotted: 5598

min P-value: 5.2E-10 [chr4:87976359]

max P-value: 1E0 [chr4:87481208]

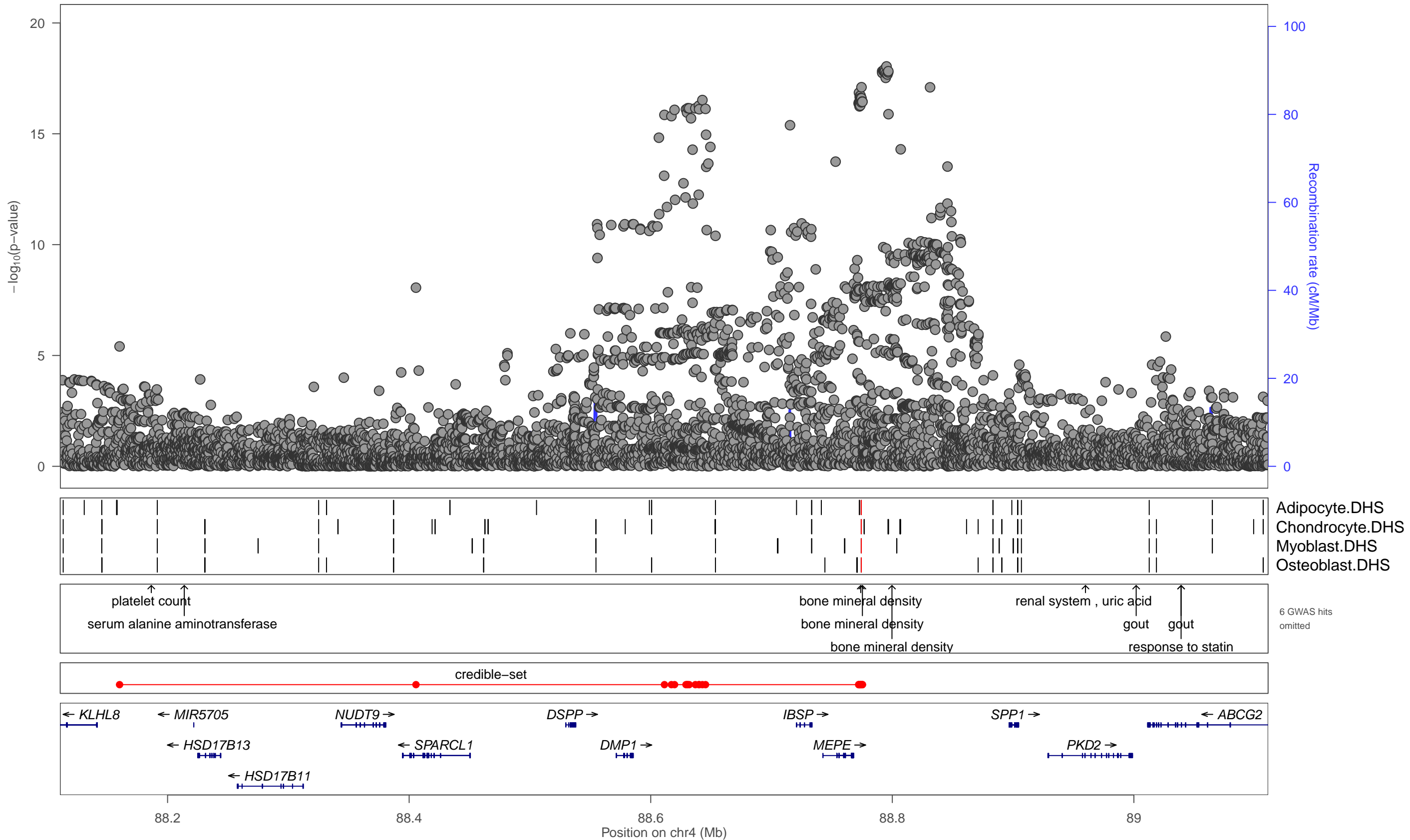
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	87.95839	systemic lupus erythematosus	Okada Y	26/01/2012	PLoS Genet	22291604	rs340630	EFO_0002690	GCST001384
4	88.01899	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs2035403	EFO_0004530	GCST002897
4	88.03026	triglyceride	Teslovich TM	5/08/2010	Nature	20686565	rs442177	EFO_0004530	GCST000758
4	88.03026	triglyceride	Waterworth DM	23/09/2010	Arterioscler Thromb Vasc Biol	20864672	rs442177	EFO_0004530	GCST000809
4	88.03026	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs442177	EFO_0004530	GCST002216
4	88.18651	platelet count	Gieger C	30/11/2011	Nature	22139419	rs7694379	EFO_0004309	GCST001337
4	88.21381	serum alanine aminotransferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs6834314	EFO_0004735	GCST001275

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs5860048	4	87.90216	2.9358	credible-set	red
rs11434868	4	87.95672	2.4198	credible-set	red
rs1471251	4	87.97636	3.4711	credible-set	red
rs3775228	4	87.98517	2.0939	credible-set	red
rs139298100	4	88.34588	2.0020	credible-set	red
rs114666979	4	88.39021	2.4279	credible-set	red
rs576858679	4	88.39341	2.6216	credible-set	red

eBMD SNP INDEX 069



date: Wed Jun 28 21:25:29 2017

build: hg19

display range: chr4:88111113–89111113 [88111113–89111113]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:88611113

number of SNPs plotted: 6703

min P-value: 9.1E-19 [chr4:88795200]

max P-value: 1E0 [chr4:88155643]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	88.18651	platelet count	Gieger C	30/11/2011	Nature	22139419	rs7694379	EFO_0004309	GCST001337
4	88.21381	serum alanine aminotransferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs6834314	EFO_0004735	GCST001275
4	88.77385	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6532023	EFO_0003923	GCST001482
4	88.77524	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1471403	EFO_0003923	GCST000494
4	88.79971	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1463104	EFO_0003923	GCST002276
4	88.95992	renal system , uric acid	Okada Y	15/07/2012	Nat Genet	22797727	rs2725220	EFO_0004742, EFO_0004761	GCST001608
4	89.00189	gout	Matsuo H	2/02/2015	Ann Rheum Dis	25646370	rs2728125	EFO_0004274	GCST002773
4	89.03908	gout	Kottgen A	23/12/2012	Nat Genet	23263486	rs1481012	EFO_0004274	GCST001790
4	89.03908	response to statin	Chasman DI	13/02/2012	Circ Cardiovasc Genet	22331829	rs1481012	GO_0036273	GCST001408
4	89.05232	gout	Li C	13/05/2015	Nat Commun	25967671	rs2231142	EFO_0004274	GCST002909
4	89.05232	gout	Sulem P	9/10/2011	Nat Genet	21983786	rs2231142	EFO_0004274	GCST001268
4	89.05232	urate	Dehghan A	1/10/2008	Lancet	18834626	rs2231142	EFO_0004531	GCST000242
4	89.05232	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs2231142	EFO_0004531	GCST001791
4	89.05232	uric acid	Kolz M	5/06/2009	PLoS Genet	19503597	rs2231142	EFO_0004761	GCST000418
4	89.05232	uric acid	Sulem P	9/10/2011	Nat Genet	21983786	rs2231142	EFO_0004761	GCST001269
4	89.05232	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs2231142	EFO_0004761	GCST002355
4	89.05467	urate	Kamatani Y	7/02/2010	Nat Genet	20139978	rs4148155	EFO_0004531	GCST000581
4	89.06091	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs4148152	EFO_0004761	GCST002355
4	89.06458	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs3114018	EFO_0004761	GCST002355

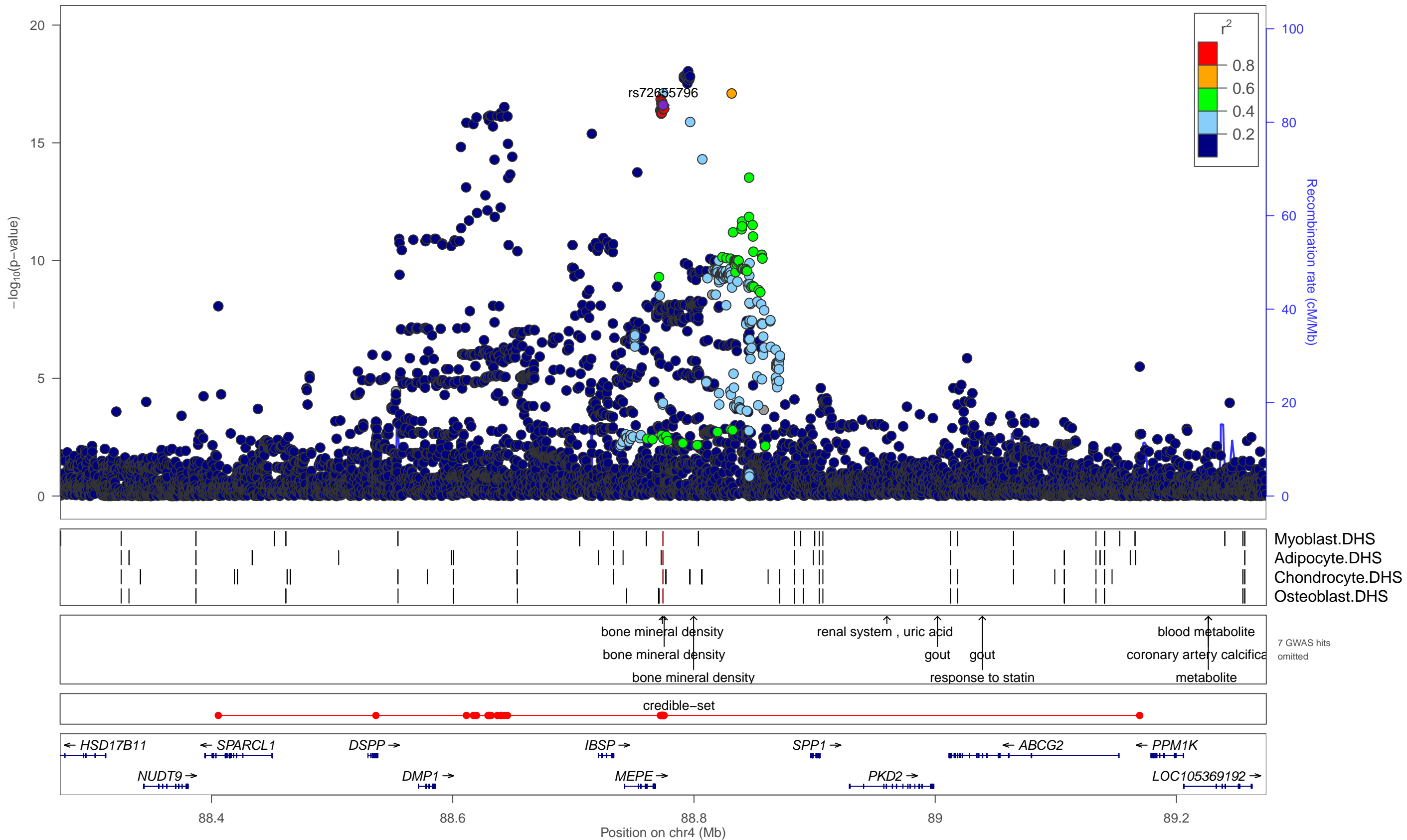
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4331742	4	88.16025	2.2544	credible-set	red
4:88405637_G_A	4	88.40564	5.9903	credible-set	red
rs11097166	4	88.61134	2.1224	credible-set	red
rs6857334	4	88.61711	2.0568	credible-set	red
rs10030625	4	88.61973	2.3966	credible-set	red
rs2869704	4	88.62917	2.5220	credible-set	red
rs6813055	4	88.63003	2.3274	credible-set	red
rs4470590	4	88.63068	2.5947	credible-set	red
rs4385014	4	88.63185	2.5867	credible-set	red
rs4693858	4	88.63697	2.5863	credible-set	red
rs10027653	4	88.63988	2.7432	credible-set	red
rs10016081	4	88.64006	2.5555	credible-set	red
rs11722021	4	88.64278	3.0383	credible-set	red
rs4395467	4	88.64534	2.6006	credible-set	red
rs9998898	4	88.77219	2.0534	credible-set	red
rs9998975	4	88.77223	2.0064	credible-set	red
rs9990702	4	88.77232	2.0013	credible-set	red
rs33983260	4	88.77241	2.5475	credible-set	red
rs10023907	4	88.77254	2.1005	credible-set	red
rs10001601	4	88.77277	2.1127	credible-set	red
rs7683315	4	88.77309	2.3498	credible-set	red
rs138906653	4	88.77311	2.4404	credible-set	red
rs6532022	4	88.77373	2.3649	credible-set	red
rs10710070	4	88.77375	2.2563	credible-set	red
rs6532023	4	88.77385	2.1703	credible-set	red
rs1471399	4	88.77407	2.1724	credible-set	red
rs1471401	4	88.77434	2.1972	credible-set	red
rs72655796	4	88.77450	3.3383	credible-set	red
rs899040	4	88.77516	2.0732	credible-set	red
rs899041	4	88.77519	2.0591	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1471403	4	88.77524	2.0553	credible-set	red

eBMD SNP INDEX 070



date: Wed Jun 28 21:25:34 2017

build: hg19

display range: chr4:88274498–89274498 [88274498–89274498]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:88774498

number of SNPs plotted: 6728

min P-value: 9.1E-19 [chr4:88795200]

max P-value: 1E0 [chr4:88349821]

omitted GWAS Hits: chr4:89.226422–blood metabolite , chr4:89.226422–coronary artery calcification

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

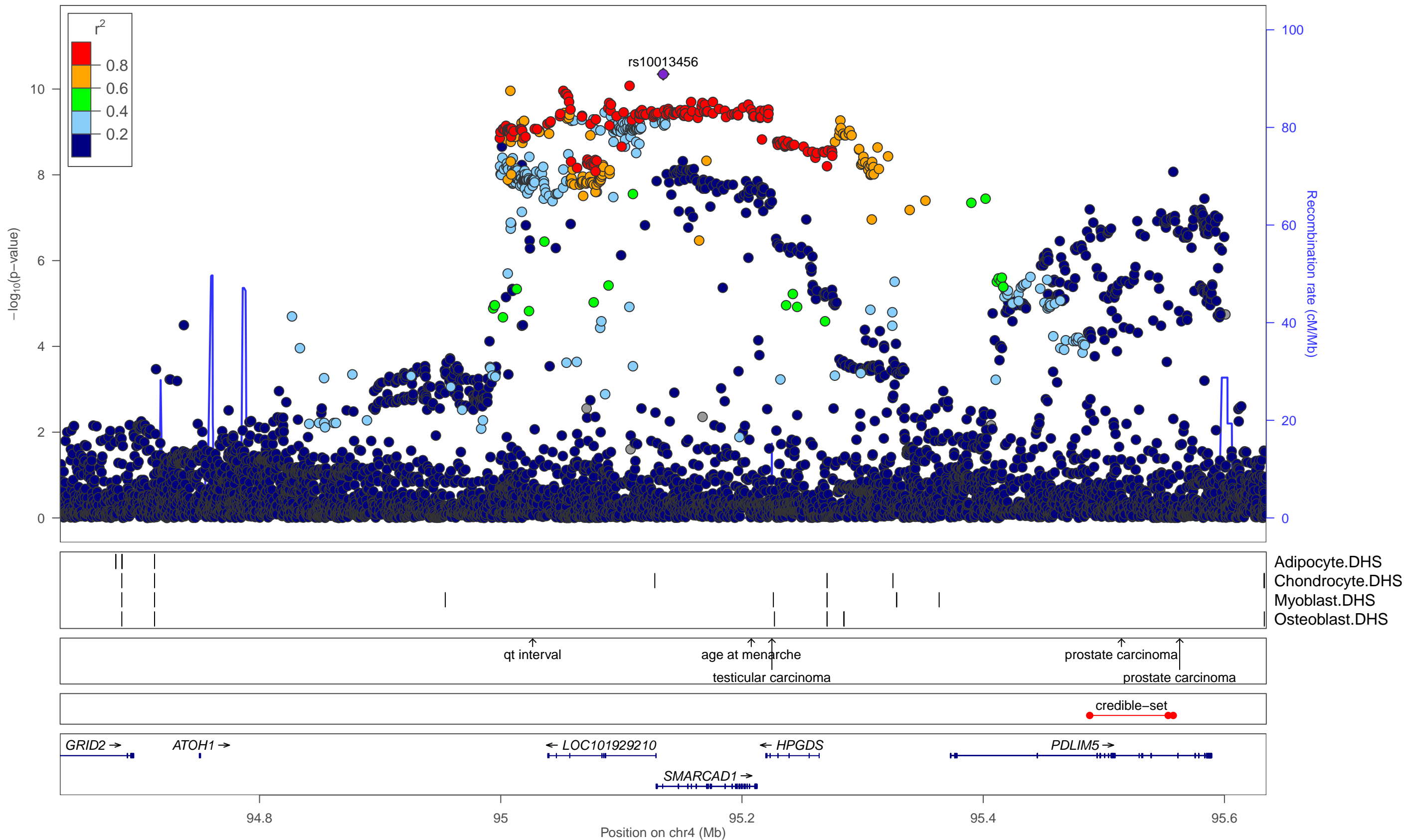
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	88.77385	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6532023	EFO_0003923	GCST001482
4	88.77524	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1471403	EFO_0003923	GCST000494
4	88.79971	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1463104	EFO_0003923	GCST002276
4	88.95992	renal system , uric acid	Okada Y	15/07/2012	Nat Genet	22797727	rs2725220	EFO_0004742, EFO_0004761	GCST001608
4	89.00189	gout	Matsuo H	2/02/2015	Ann Rheum Dis	25646370	rs2728125	EFO_0004274	GCST002773
4	89.03908	gout	Kottgen A	23/12/2012	Nat Genet	23263486	rs1481012	EFO_0004274	GCST001790
4	89.03908	response to statin	Chasman DI	13/02/2012	Circ Cardiovasc Genet	22331829	rs1481012	GO_0036273	GCST001408
4	89.05232	gout	Li C	13/05/2015	Nat Commun	25967671	rs2231142	EFO_0004274	GCST002909
4	89.05232	gout	Sulem P	9/10/2011	Nat Genet	21983786	rs2231142	EFO_0004274	GCST001268
4	89.05232	urate	Dehghan A	1/10/2008	Lancet	18834626	rs2231142	EFO_0004531	GCST000242
4	89.05232	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs2231142	EFO_0004531	GCST001791
4	89.05232	uric acid	Kolz M	5/06/2009	PLoS Genet	19503597	rs2231142	EFO_0004761	GCST000418
4	89.05232	uric acid	Sulem P	9/10/2011	Nat Genet	21983786	rs2231142	EFO_0004761	GCST001269
4	89.05232	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs2231142	EFO_0004761	GCST002355
4	89.05467	urate	Kamatani Y	7/02/2010	Nat Genet	20139978	rs4148155	EFO_0004531	GCST000581
4	89.06091	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs4148152	EFO_0004761	GCST002355
4	89.06458	uric acid	Yang B	11/02/2014	BMC Med Genomics	24513273	rs3114018	EFO_0004761	GCST002355
4	89.22642	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs1440581	EFO_0005664	GCST002443
4	89.22642	coronary artery calcification	Inouye M	16/08/2012	PLoS Genet	22916037	rs1440581	EFO_0004723	GCST001639
4	89.22642	metabolite	Kettunen J	29/01/2012	Nat Genet	22286219	rs1440581	EFO_0004725	GCST001391
4	89.24382	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs10022462	EFO_0005664	GCST002443

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
4:88405637_G_A	4	88.40564	5.8601	credible-set	red
rs143008261	4	88.53632	2.1119	credible-set	red
rs11097166	4	88.61134	2.1362	credible-set	red
rs6857334	4	88.61711	2.0697	credible-set	red
rs10030625	4	88.61973	2.4025	credible-set	red
rs2869704	4	88.62917	2.5296	credible-set	red
rs6813055	4	88.63003	2.3229	credible-set	red
rs4470590	4	88.63068	2.5986	credible-set	red
rs4385014	4	88.63185	2.5838	credible-set	red
rs4693858	4	88.63697	2.5865	credible-set	red
rs10027653	4	88.63988	2.7426	credible-set	red
rs10016081	4	88.64006	2.5514	credible-set	red
rs11722021	4	88.64278	3.0318	credible-set	red
rs4395467	4	88.64534	2.6089	credible-set	red
rs9998898	4	88.77219	2.0527	credible-set	red
rs33983260	4	88.77241	2.5197	credible-set	red
rs10023907	4	88.77254	2.0901	credible-set	red
rs10001601	4	88.77277	2.1140	credible-set	red
rs7683315	4	88.77309	2.3416	credible-set	red
rs138906653	4	88.77311	2.4242	credible-set	red
rs6532022	4	88.77373	2.3494	credible-set	red
rs10710070	4	88.77375	2.2459	credible-set	red
rs6532023	4	88.77385	2.1477	credible-set	red
rs1471399	4	88.77407	2.1638	credible-set	red
rs1471401	4	88.77434	2.1430	credible-set	red
rs72655796	4	88.77450	3.3809	credible-set	red
rs899040	4	88.77516	2.0727	credible-set	red
rs899041	4	88.77519	2.0584	credible-set	red
rs1471403	4	88.77524	2.0420	credible-set	red
rs150675845	4	89.16954	2.3538	credible-set	red

eBMD SNP INDEX 071



date: Wed Jun 28 21:24:31 2017

build: hg19

display range: chr4:94634692–95634692 [94634692–95634692]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:95134692

number of SNPs plotted: 6288

min P-value: 4.5E-11 [chr4:95134692]

max P-value: 1E0 [chr4:94706935]

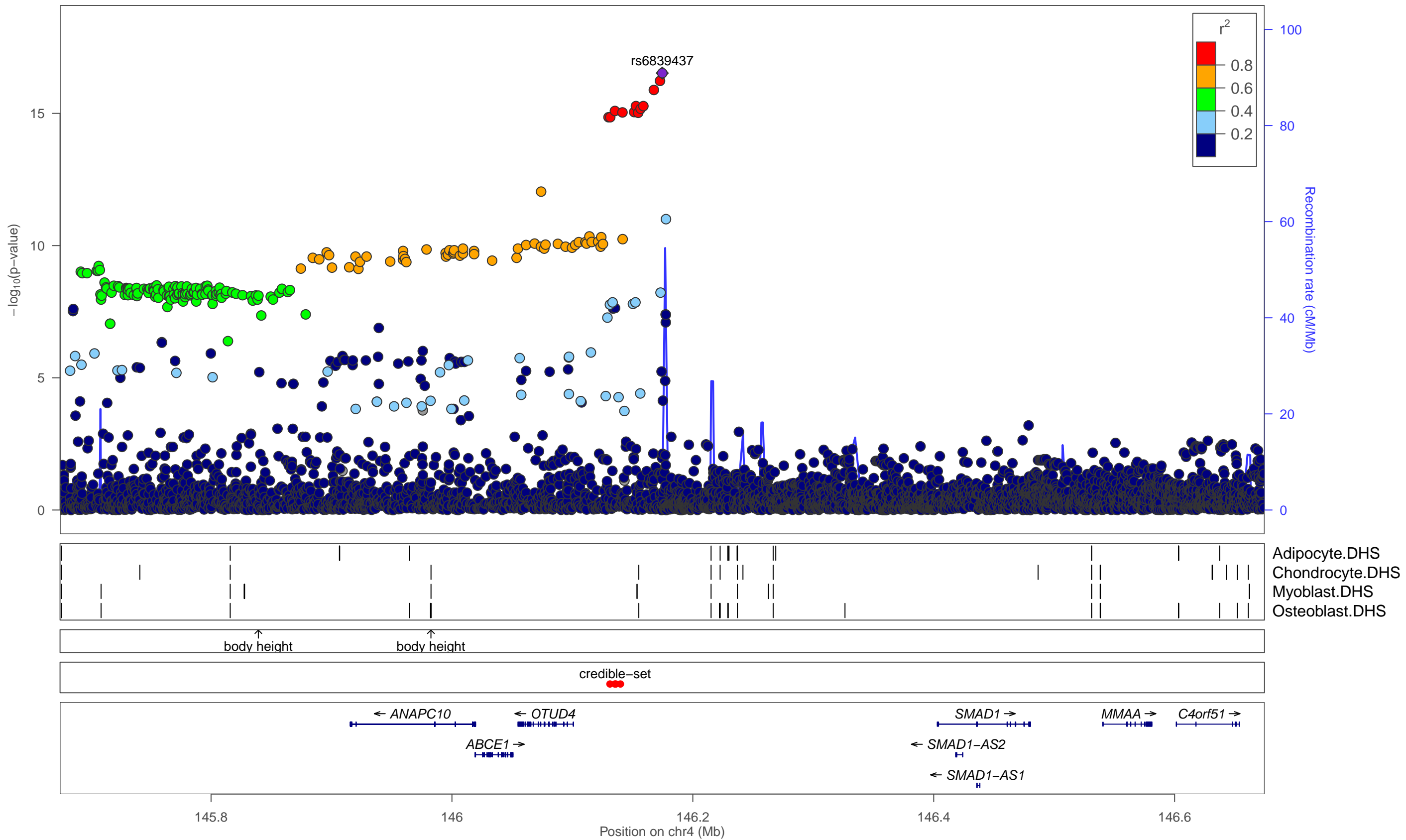
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	95.02643	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs3857067	EFO_0004682	GCST002500
4	95.20769	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs13135934	EFO_0004703	GCST002541
4	95.22481	testicular carcinoma	Chung CC	12/05/2013	Nat Genet	23666239	rs17021463	EFO_0005088	GCST002023
4	95.51461	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs12500426	EFO_0001663	GCST000488
4	95.56288	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs17021918	EFO_0001663	GCST000488

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2201092	4	95.48830	2.1333	credible-set	red
rs562854444	4	95.55336	2.6592	credible-set	red
rs71581597	4	95.55757	3.4334	credible-set	red

eBMD SNP INDEX 072



date: Wed Jun 28 21:30:37 2017

build: hg19

display range: chr4:145674631–146674631 [145674631–146674631]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:146174631

number of SNPs plotted: 4511

min P-value: 3E-17 [chr4:146174631]

max P-value: 1E0 [chr4:145683735]

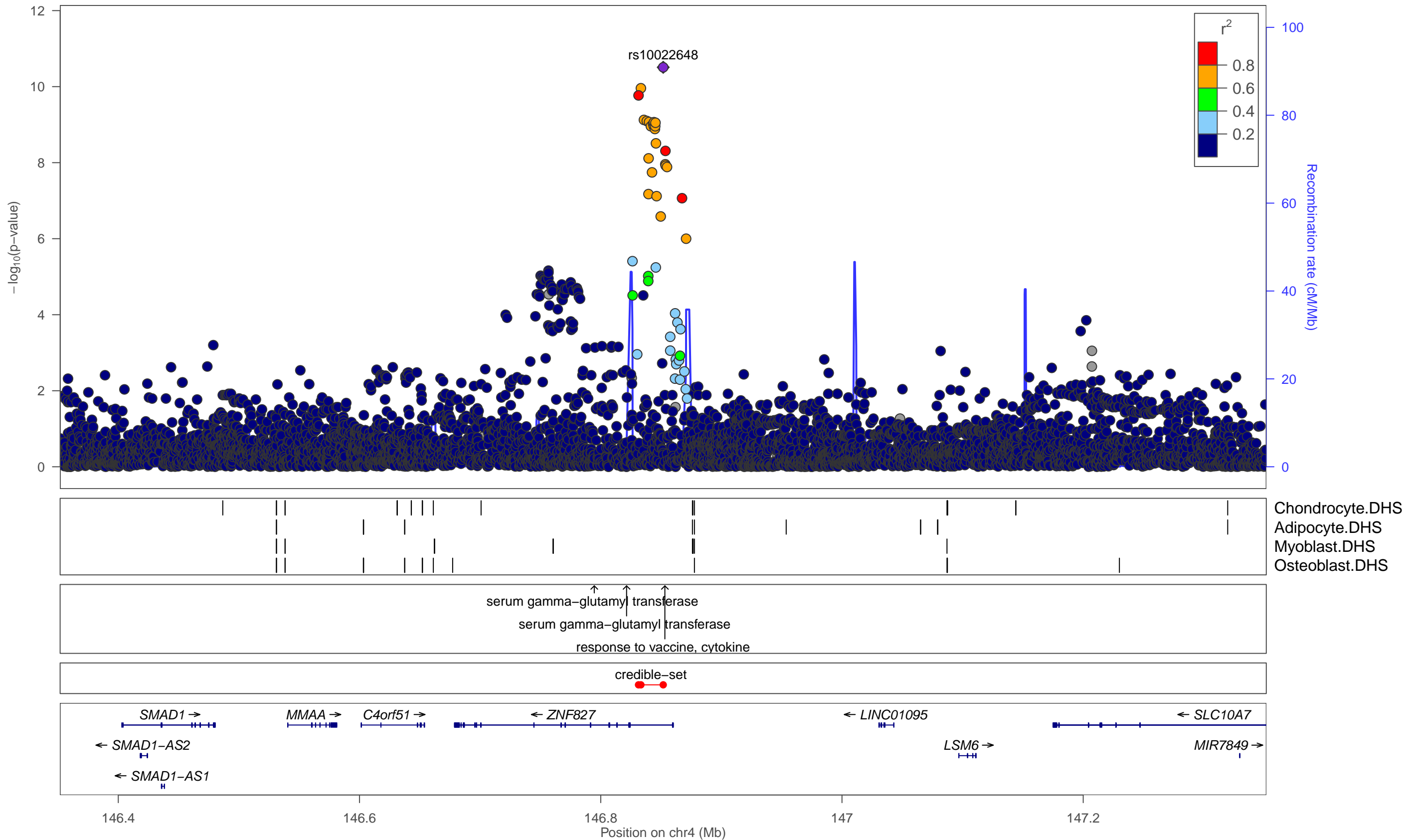
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	145.8393	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs4240326	EFO_0004339	GCST002647
4	145.9826	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs6823268	EFO_0004339	GCST002702

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2355236	4	146.1312	5.0116	credible-set	red
rs7698892	4	146.1353	5.6131	credible-set	red
rs12512190	4	146.1360	3.6387	credible-set	red
rs11736535	4	146.1399	3.2676	credible-set	red

eBMD SNP INDEX 073



date: Wed Jun 28 21:29:20 2017

build: hg19

display range: chr4:146351785–147351785 [146351785–147351785]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:146851785

number of SNPs plotted: 5475

min P-value: 3.1E-11 [chr4:146851785]

max P-value: 1E0 [chr4:146357809]

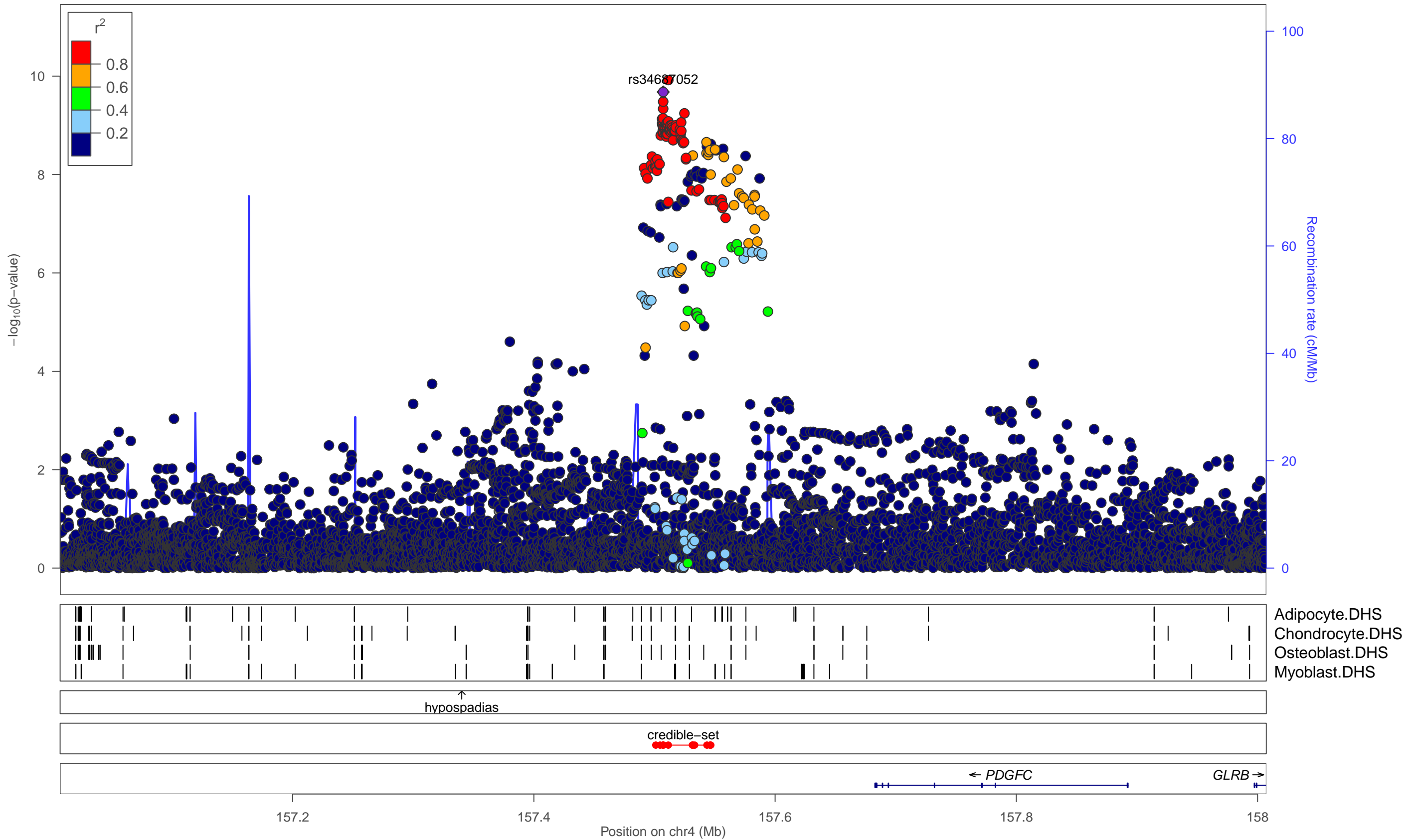
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	146.7946	serum gamma–glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs4547811	EFO_0004532	GCST001277
4	146.8214	serum gamma–glutamyl transferase	Kim YJ	11/09/2011	Nat Genet	21909109	rs4835265	EFO_0004532	GCST001234
4	146.8532	response to vaccine, cytokine	Kennedy RB	19/05/2012	Hum Genet	22610502	rs2048161	EFO_0004645, EFO_0004873	GCST001538

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12510175	4	146.8313	2.5921	credible-set	red
rs6821398	4	146.8333	2.8035	credible-set	red
rs10022648	4	146.8518	3.6019	credible-set	red

eBMD SNP INDEX 074



date: Wed Jun 28 21:29:21 2017

build: hg19

display range: chr4:157007231–158007231 [157007231–158007231]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr4:157507231

number of SNPs plotted: 6469

min P-value: 1.2E-10 [chr4:157511450]

max P-value: 1E0 [chr4:157055724]

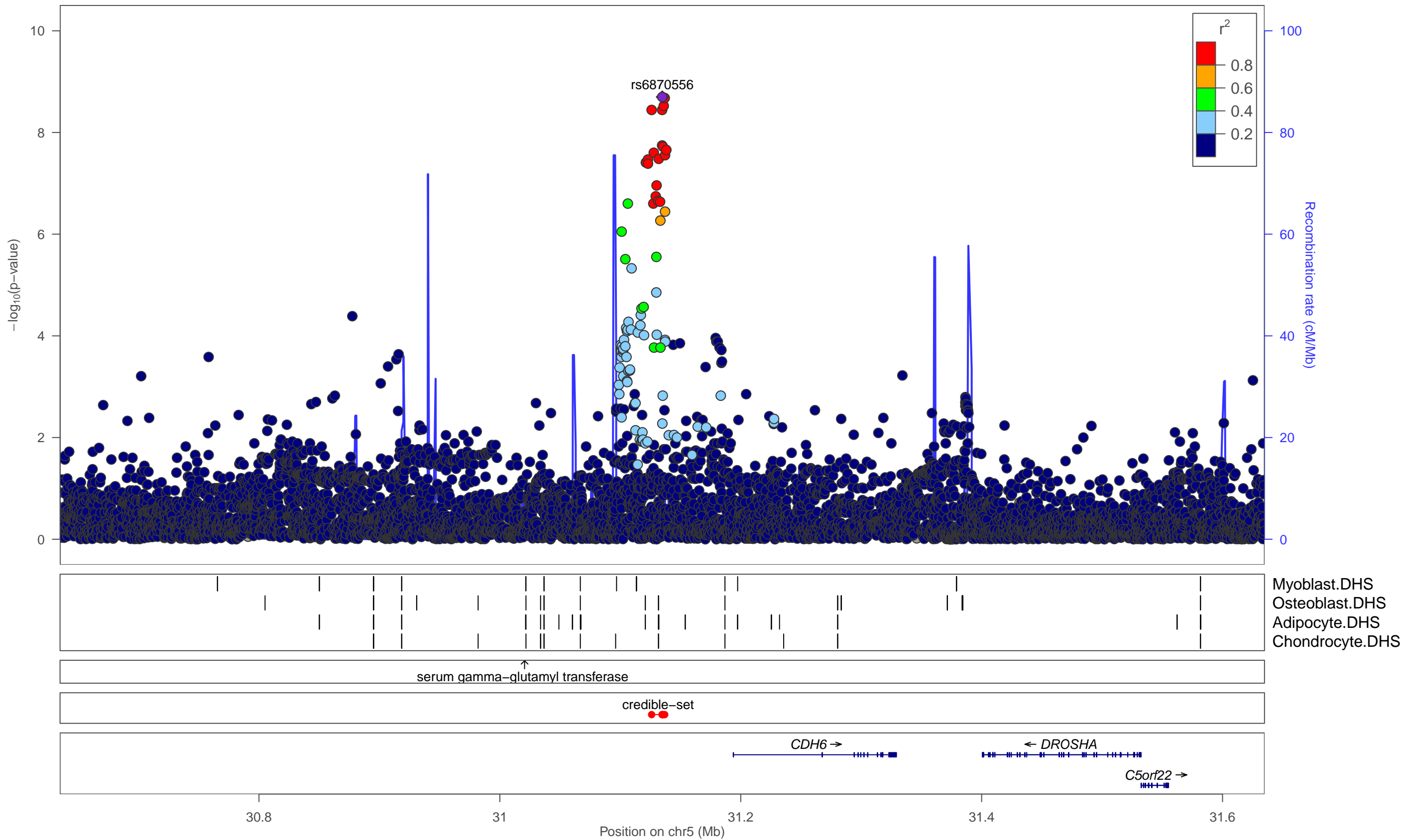
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
4	157.3402	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs13124827	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs41377546	4	157.5011	2.6227	credible-set	red
rs68191523	4	157.5047	2.5709	credible-set	red
rs71836560	4	157.5072	2.1516	credible-set	red
rs34687052	4	157.5072	2.3902	credible-set	red
rs35428756	4	157.5114	2.4962	credible-set	red
rs17034964	4	157.5315	2.4195	credible-set	red
rs28698127	4	157.5316	2.3318	credible-set	red
rs1521717	4	157.5333	2.5807	credible-set	red
rs11929924	4	157.5435	2.0076	credible-set	red
rs13150236	4	157.5460	2.0608	credible-set	red
rs62330443	4	157.5467	2.0686	credible-set	red

eBMD SNP INDEX 075



date: Wed Jun 28 21:32:39 2017

build: hg19

display range: chr5:30634837–31634837 [30634837–31634837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:31134837

number of SNPs plotted: 6667

min P-value: 2E-9 [chr5:31134837]

max P-value: 1E0 [chr5:30747620]

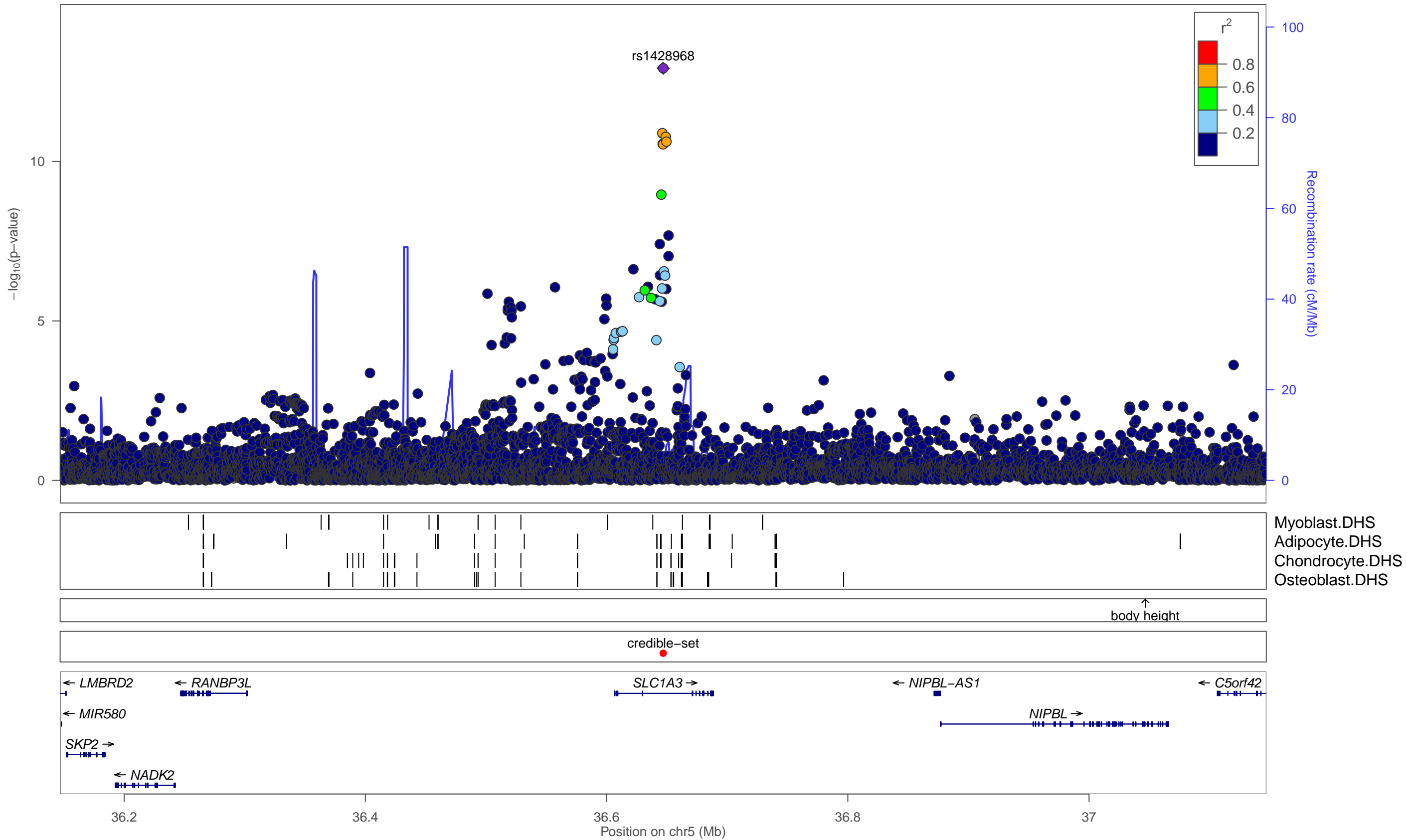
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	31.02052	serum gamma-glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs6888304	EFO_0004532	GCST001277

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7728992	5	31.12600	2.7771	credible-set	red
rs13181882	5	31.13471	2.0398	credible-set	red
rs13181888	5	31.13472	2.7775	credible-set	red
rs6870556	5	31.13484	3.0768	credible-set	red
rs5017002	5	31.13538	2.0157	credible-set	red
rs4266413	5	31.13605	2.8665	credible-set	red
rs7721702	5	31.13685	3.0404	credible-set	red

eBMD SNP INDEX 076



date: Wed Jun 28 21:32:45 2017

build: hg19

display range: chr5:36146946–37146946 [36146946–37146946]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:36646946

number of SNPs plotted: 5409

min P-value: 1.2E-13 [chr5:36646946]

max P-value: 1E0 [chr5:36283460]

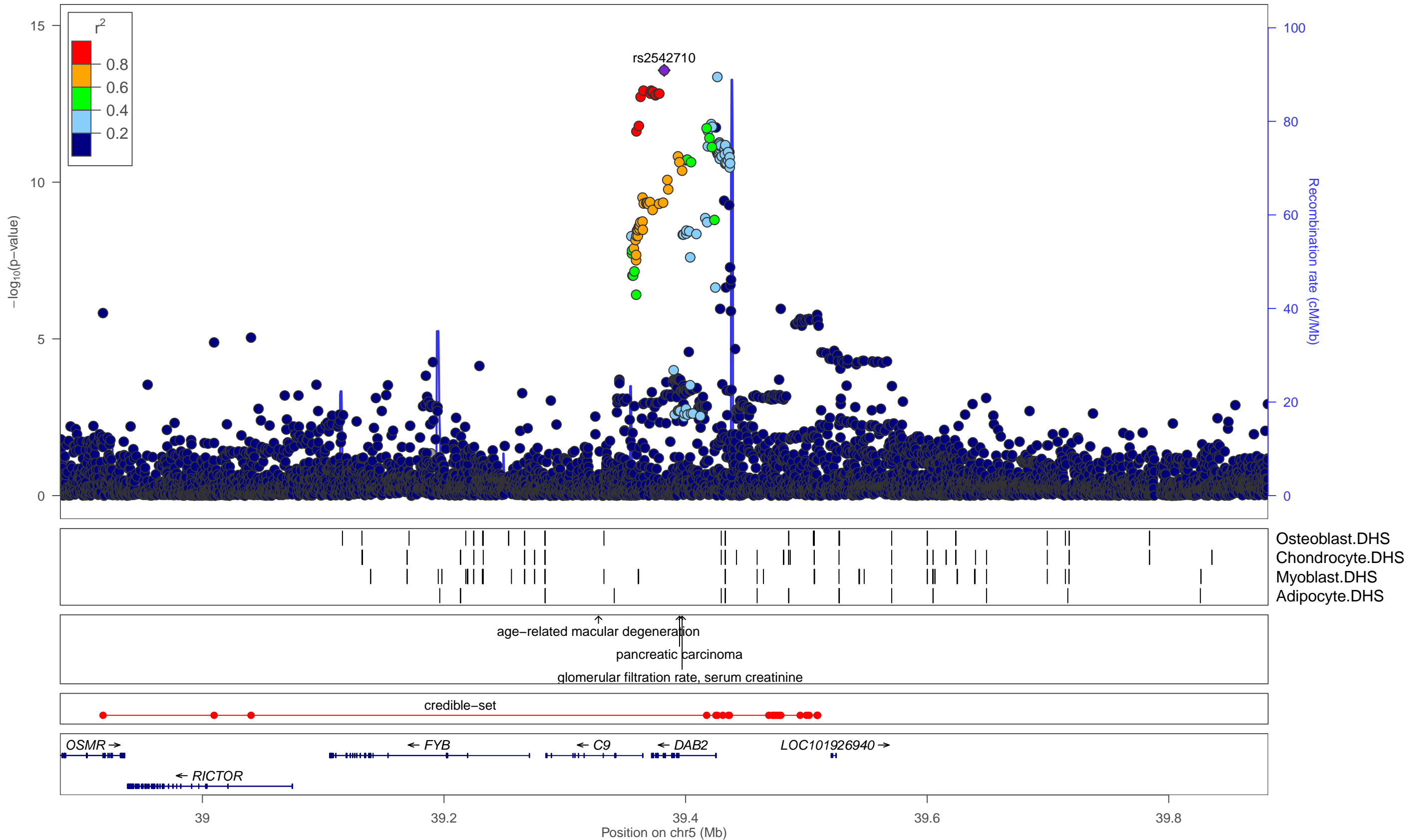
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	37.04663	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs301901	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1428968	5	36.64695	4.9167	credible-set	red

eBMD SNP INDEX 077



date: Wed Jun 28 21:32:14 2017

build: hg19

display range: chr5:38882261–39882261 [38882261–39882261]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:39382261

number of SNPs plotted: 6440

min P-value: 2.7E-14 [chr5:39382261]

max P-value: 1E0 [chr5:38918518]

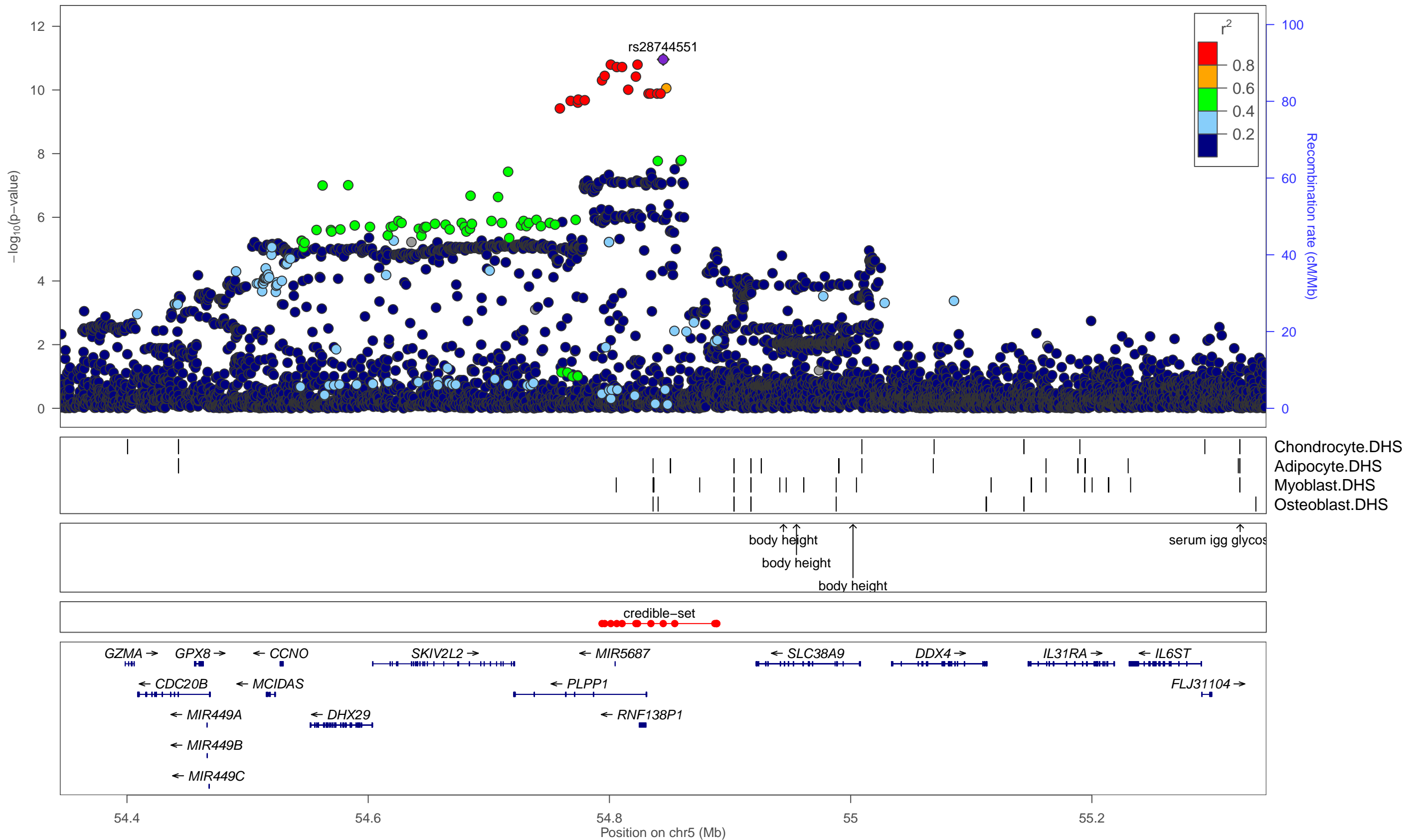
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	39.32789	age-related macular degeneration	Fritsche LG	21/12/2015	Nat Genet	26691988	rs62358361	EFO_0001365	GCST003219
5	39.39499	pancreatic carcinoma	Wu C	11/12/2011	Nat Genet	22158540	rs2255280	EFO_0002618	GCST001350
5	39.39713	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs11959928	EFO_0005208, EFO_0004518	GCST003372
5	39.39713	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs11959928	EFO_0005208, EFO_0004518	GCST003401

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34324145	5	38.91767	3.3253	credible-set	red
rs144699990	5	39.00966	2.0883	credible-set	red
rs551570974	5	39.04021	2.2607	credible-set	red
rs67514417	5	39.41740	2.7372	credible-set	red
rs55818129	5	39.42509	3.5906	credible-set	red
rs13179493	5	39.42631	4.1100	credible-set	red
rs10941433	5	39.43081	2.6993	credible-set	red
rs73080552	5	39.43543	2.8257	credible-set	red
rs28698773	5	39.43624	2.8357	credible-set	red
rs6451424	5	39.46891	2.0386	credible-set	red
rs7724216	5	39.47204	2.0492	credible-set	red
rs13187098	5	39.47320	2.0829	credible-set	red
rs13173107	5	39.47482	2.0508	credible-set	red
rs36113411	5	39.47637	2.0110	credible-set	red
rs6879220	5	39.47794	2.0781	credible-set	red
rs10491480	5	39.47878	2.3692	credible-set	red
rs62360091	5	39.49486	2.0423	credible-set	red
rs62360094	5	39.50002	2.0004	credible-set	red
rs10491482	5	39.50221	2.0519	credible-set	red
rs62360095	5	39.50889	2.0782	credible-set	red
rs141265531	5	39.50893	2.2075	credible-set	red
rs62360096	5	39.50934	2.0022	credible-set	red

eBMD SNP INDEX 078



date: Wed Jun 28 21:30:42 2017

build: hg19

display range: chr5:54344572–55344572 [54344572–55344572]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:54844572

number of SNPs plotted: 5948

min P-value: 1.1E-11 [chr5:54844572]

max P-value: 1E0 [chr5:54414726]

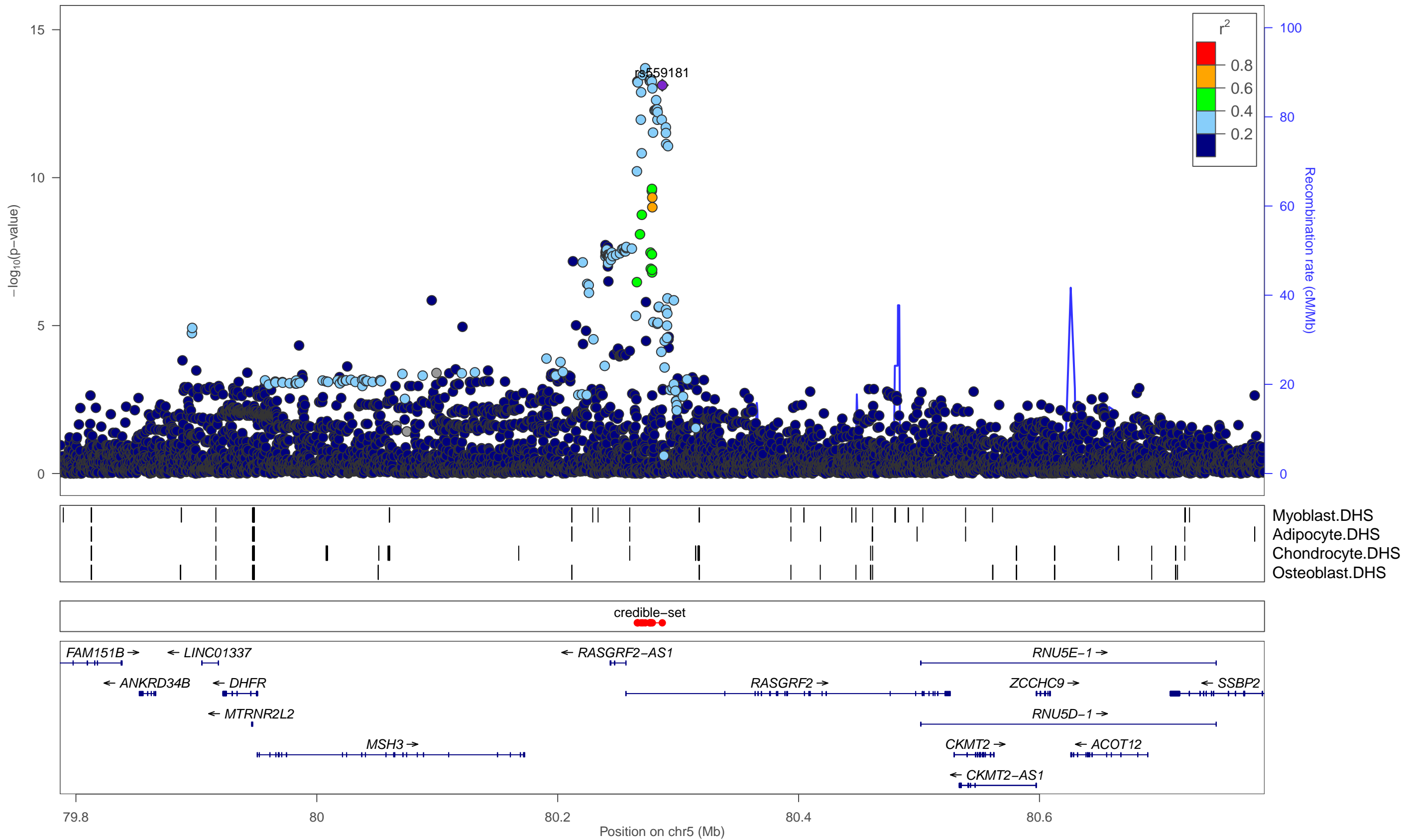
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	54.94426	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs7704138	EFO_0004339	GCST002702
5	54.95507	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs7716219	EFO_0004339	GCST002647
5	55.00190	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11958779	EFO_0004339	GCST000817
5	55.32290	serum igg glycosylation	Lauc G	31/01/2013	PLoS Genet	23382691	rs17348299	EFO_0005193	GCST001848

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34188160	5	54.79384	2.1473	credible-set	red
rs10057211	5	54.79605	2.3438	credible-set	red
rs74429834	5	54.80114	2.7605	credible-set	red
rs1874470	5	54.80607	2.6575	credible-set	red
rs75567174	5	54.81047	2.6481	credible-set	red
rs10061435	5	54.82191	2.2630	credible-set	red
rs6450314	5	54.82326	2.7623	credible-set	red
rs9292094	5	54.83436	2.0309	credible-set	red
rs28744551	5	54.84457	2.9970	credible-set	red
rs140163440	5	54.85413	2.1456	credible-set	red
rs72756190	5	54.88739	2.1104	credible-set	red
rs78707952	5	54.88855	2.2585	credible-set	red
rs72756192	5	54.88894	2.1234	credible-set	red
rs72756193	5	54.88902	2.1251	credible-set	red

eBMD SNP INDEX 079



date: Wed Jun 28 21:32:39 2017

build: hg19

display range: chr5:79786819–80786819 [79786819–80786819]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:80286819

number of SNPs plotted: 6091

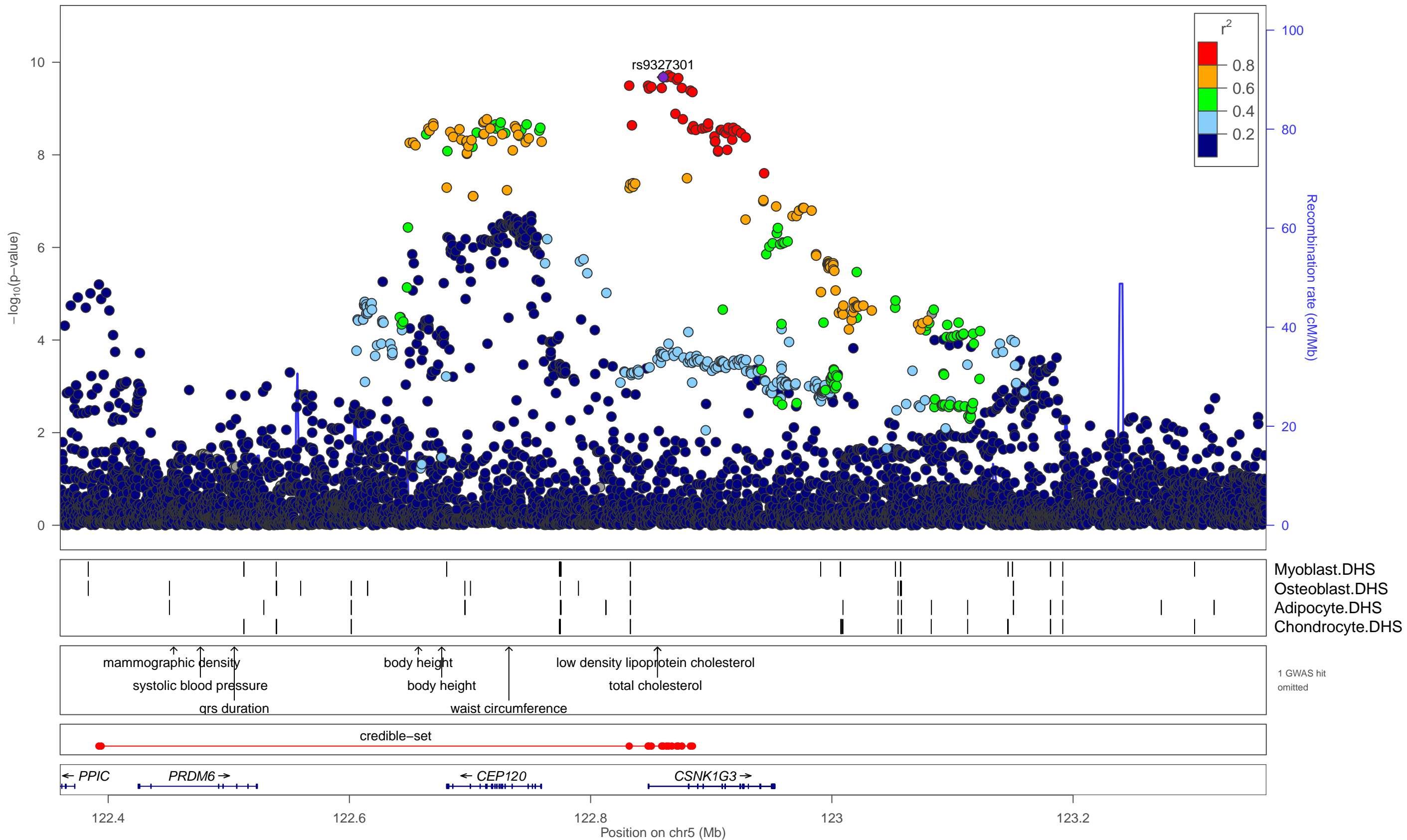
min P-value: 2E-14 [chr5:80272690]

max P-value: 1E0 [chr5:79795488]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs66619059	5	80.26610	2.4367	credible-set	red
rs28627326	5	80.26636	2.4126	credible-set	red
rs10214109	5	80.26652	2.4047	credible-set	red
rs9986161	5	80.26928	2.0461	credible-set	red
rs9986117	5	80.27068	2.6621	credible-set	red
rs17665269	5	80.27269	2.9196	credible-set	red
rs11743370	5	80.27641	2.4371	credible-set	red
rs145103769	5	80.27647	2.4735	credible-set	red
rs56204289	5	80.27679	2.4285	credible-set	red
rs55796154	5	80.27735	2.4946	credible-set	red
rs67133570	5	80.27814	2.4186	credible-set	red
rs111789252	5	80.27858	2.1705	credible-set	red
rs559181	5	80.28682	2.5556	credible-set	red

eBMD SNP INDEX 080



date: Wed Jun 28 21:32:38 2017

build: hg19

display range: chr5:122360170–123360170 [122360170–123360170]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:122860170

number of SNPs plotted: 6172

min P-value: 1.9E-10 [chr5:122864629]

max P-value: 1E0 [chr5:122408089]

omitted GWAS Hits: chr5:122.657199–body height

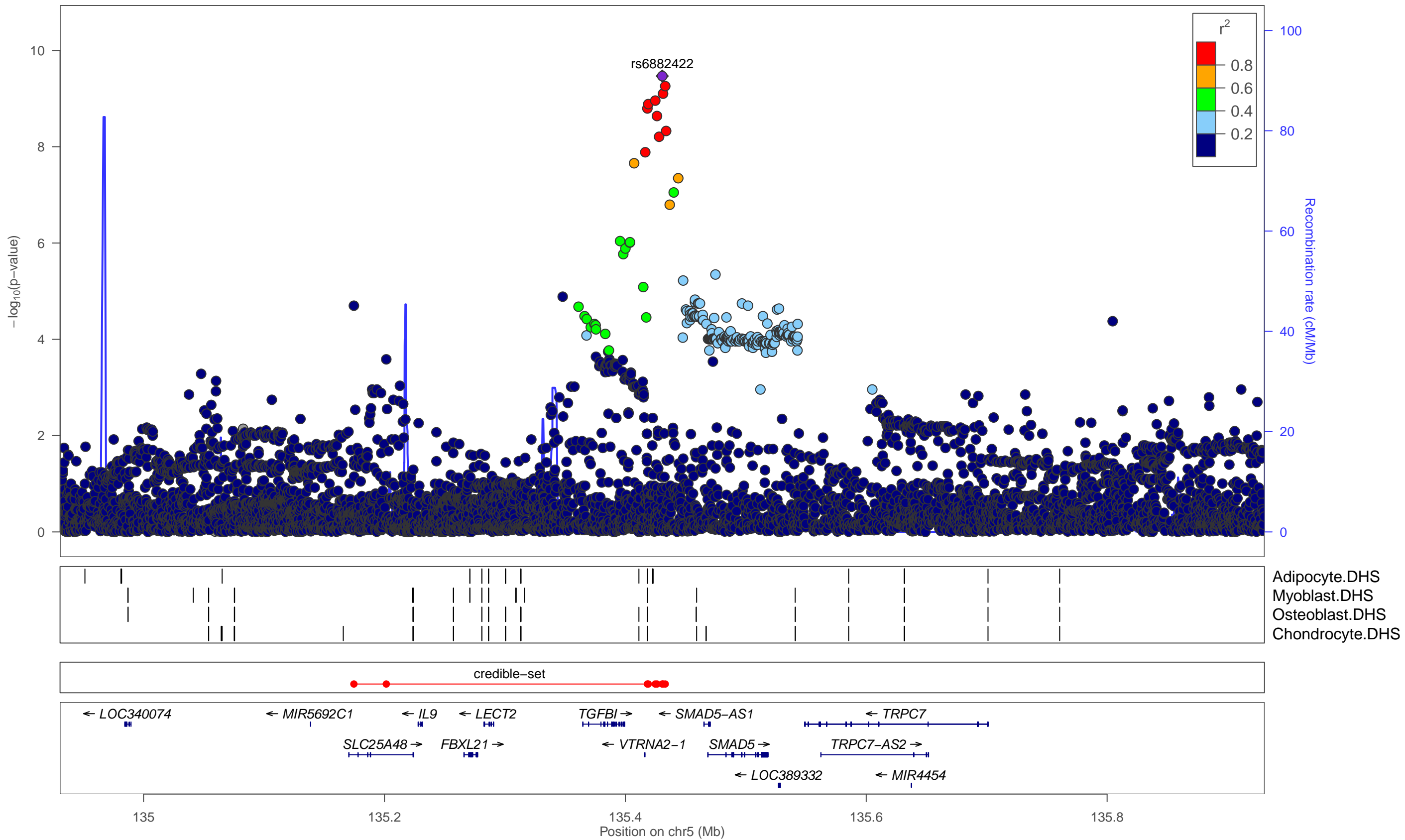
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	122.4543	mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs186749	EFO_0005941	GCST002669
5	122.4765	systolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs13359291	EFO_0006335	GCST003272
5	122.5046	qrs duration	Hong KW	17/07/2014	Hum Mol Genet	25035420	rs335206	EFO_0005055	GCST002533
5	122.5313	aortic root size	Vasan RS	8/07/2009	JAMA	19584346	rs17470137	EFO_0005037	GCST000442
5	122.6572	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1582931	EFO_0004339	GCST000817
5	122.6765	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs7708474	EFO_0004339	GCST002702
5	122.7322	waist circumference	Wen W	20/01/2016	Sci Rep	26785701	rs10051787	EFO_0004342	GCST003335
5	122.8554	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4530754	EFO_0004611	GCST002222
5	122.8554	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4530754	EFO_0004574	GCST002221

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs540139077	5	122.3924	2.0238	credible-set	red
rs72798795	5	122.3942	2.3750	credible-set	red
rs7703751	5	122.8320	2.2086	credible-set	red
rs11745493	5	122.8476	2.2117	credible-set	red
rs10054622	5	122.8483	2.1446	credible-set	red
rs9327298	5	122.8503	2.1834	credible-set	red
rs78154385	5	122.8589	2.1601	credible-set	red
rs9327301	5	122.8602	2.3984	credible-set	red
rs7705070	5	122.8629	2.4015	credible-set	red
rs6875515	5	122.8646	2.4472	credible-set	red
rs6595457	5	122.8673	2.4015	credible-set	red
rs1004434	5	122.8715	2.3398	credible-set	red
rs1002112	5	122.8726	2.3782	credible-set	red
rs7737667	5	122.8756	2.1594	credible-set	red
rs17475188	5	122.8828	2.1024	credible-set	red
rs6887967	5	122.8844	2.0711	credible-set	red

eBMD SNP INDEX 081



date: Wed Jun 28 21:32:38 2017

build: hg19

display range: chr5:134930668–135930668 [134930668–135930668]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:135430668

number of SNPs plotted: 6236

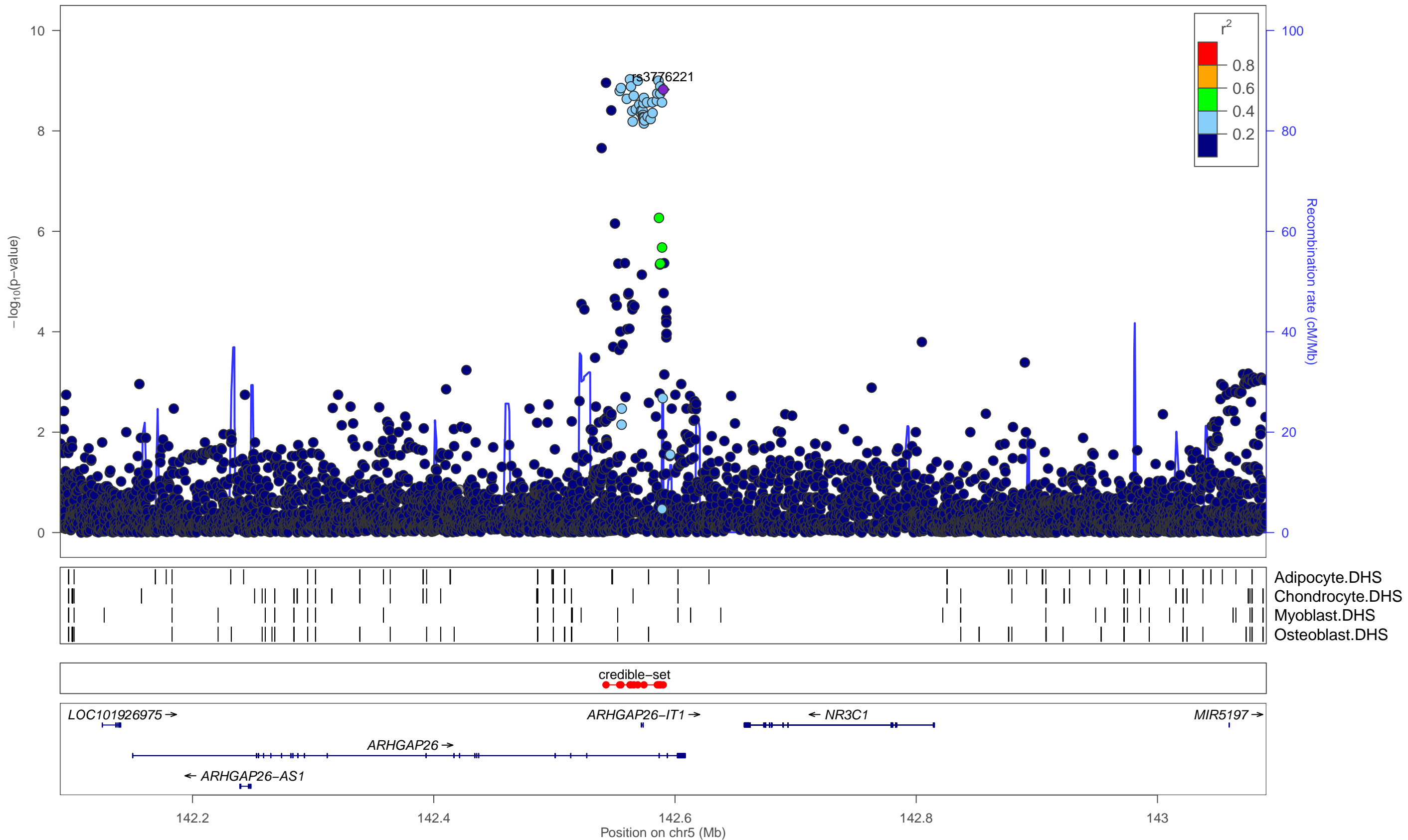
min P-value: 3.4E-10 [chr5:135430668]

max P-value: 1E0 [chr5:134936519]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs115815959	5	135.1746	2.4038	credible-set	red
rs7356608	5	135.2015	2.0571	credible-set	red
rs28595855	5	135.4183	2.4578	credible-set	red
rs7728385	5	135.4190	2.5537	credible-set	red
rs10063896	5	135.4249	2.6318	credible-set	red
rs10056462	5	135.4263	2.2856	credible-set	red
rs6882422	5	135.4307	3.2488	credible-set	red
rs7726644	5	135.4313	2.7911	credible-set	red
rs9327741	5	135.4331	2.9761	credible-set	red

eBMD SNP INDEX 082



date: Wed Jun 28 21:32:36 2017

build: hg19

display range: chr5:142090233–143090233 [142090233–143090233]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:142590233

number of SNPs plotted: 5412

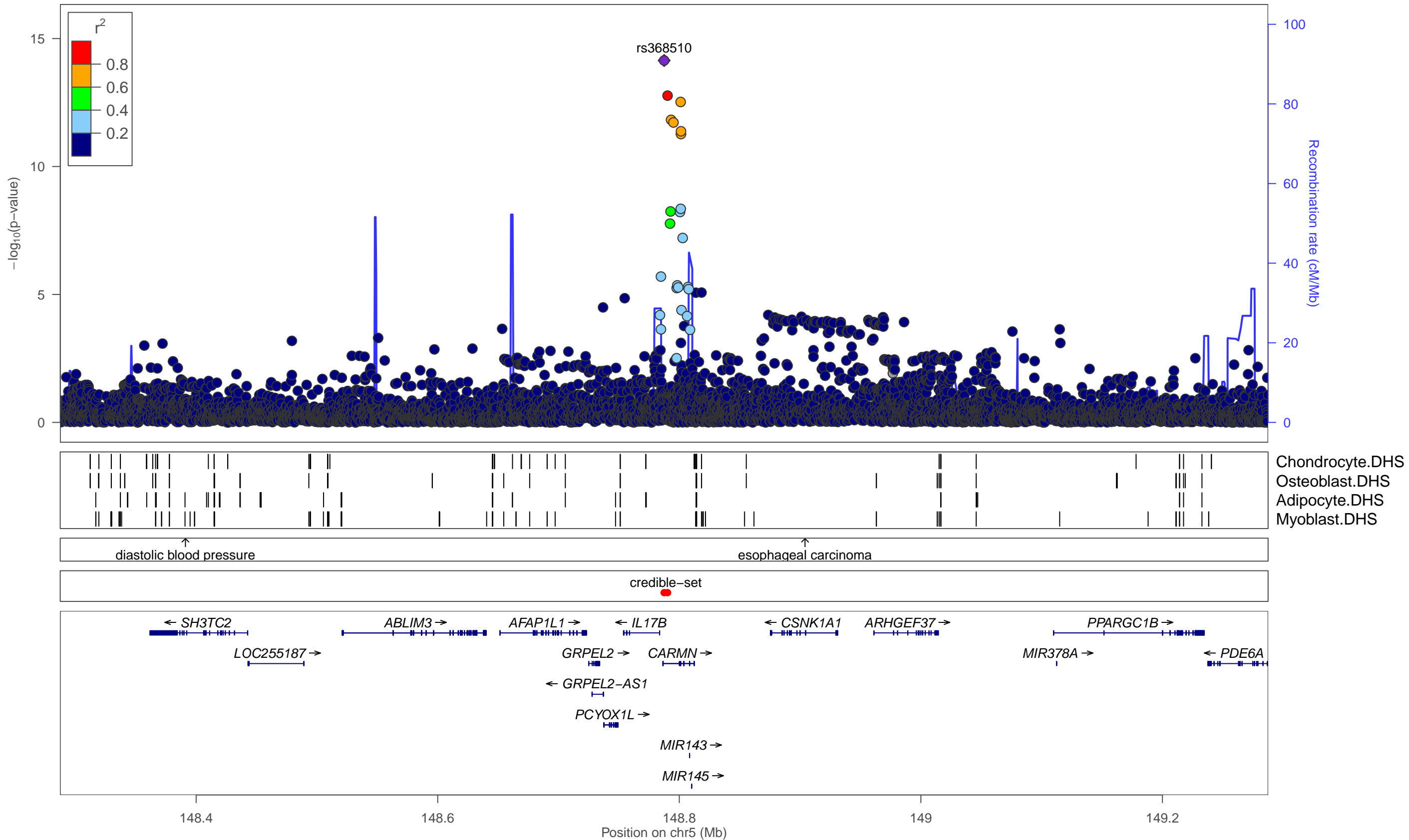
min P-value: 9.4E-10 [chr5:142562666]

max P-value: 1E0 [chr5:142107716]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs76764976	5	142.5428	2.2895	credible-set	red
rs1010109	5	142.5542	2.1466	credible-set	red
rs17287647	5	142.5552	2.2092	credible-set	red
rs7705069	5	142.5627	2.3938	credible-set	red
rs3776235	5	142.5635	2.2411	credible-set	red
rs3776232	5	142.5658	2.0430	credible-set	red
rs10531678	5	142.5692	2.3666	credible-set	red
rs60940468	5	142.5742	2.0032	credible-set	red
rs4912902	5	142.5853	2.0884	credible-set	red
rs10515520	5	142.5863	2.3757	credible-set	red
rs3836769	5	142.5878	2.1054	credible-set	red
rs1946836	5	142.5878	2.2617	credible-set	red
rs3776221	5	142.5902	2.1521	credible-set	red

eBMD SNP INDEX 083



date: Wed Jun 28 21:32:39 2017

build: hg19

display range: chr5:148287469–149287469 [148287469–149287469]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr5:148787469

number of SNPs plotted: 6148

min P-value: 7.2E-15 [chr5:148787469]

max P-value: 1E0 [chr5:148351445]

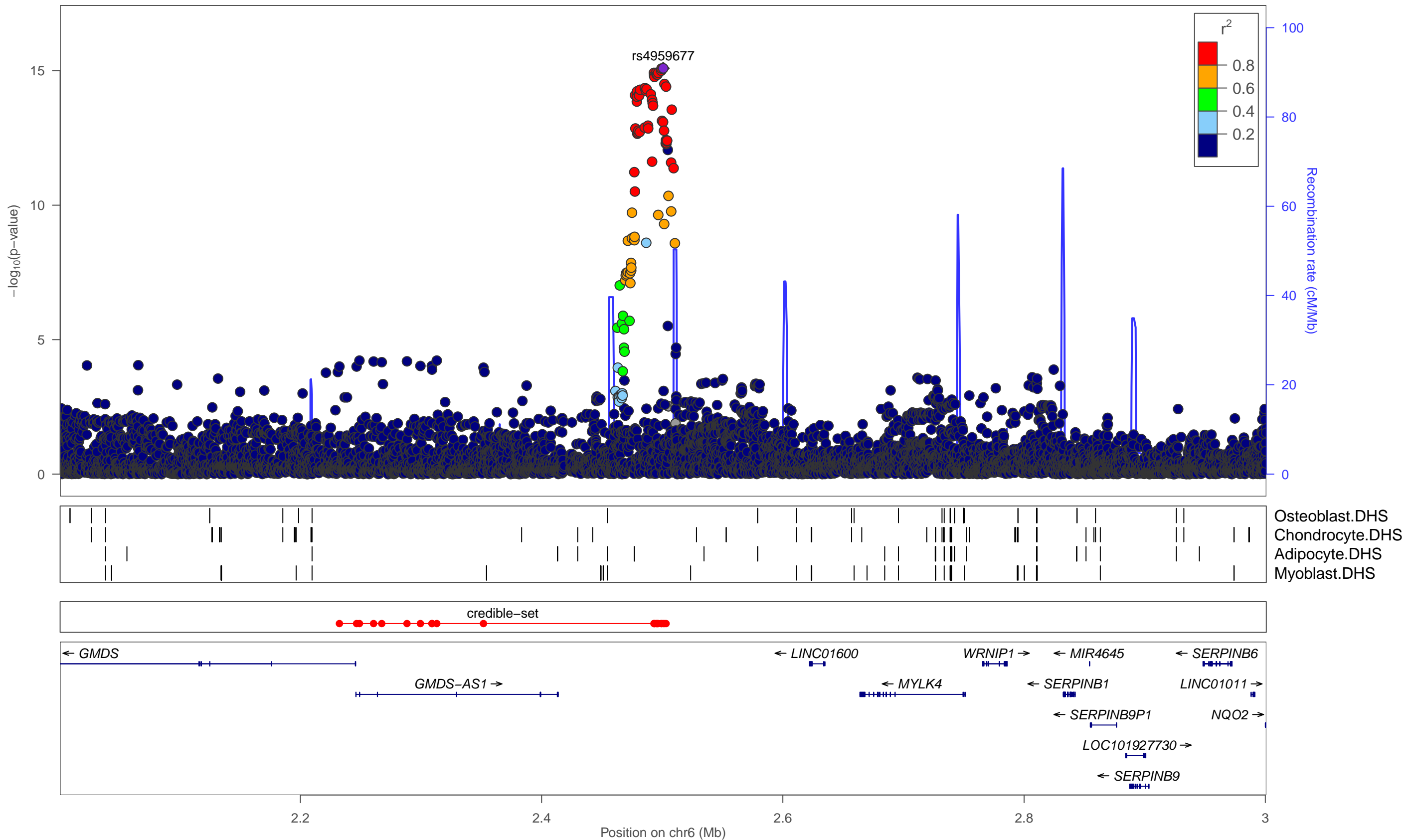
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
5	148.3911	diastolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs9687065	EFO_0006336	GCST003273
5	148.9041	esophageal carcinoma	Wu C	5/06/2011	Nat Genet	21642993	rs10058728	EFO_0002916	GCST001089

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs368510	5	148.7875	4.6620	credible-set	red
rs353287	5	148.7903	2.2255	credible-set	red

eBMD SNP INDEX 084



date: Wed Jun 28 21:32:40 2017

build: hg19

display range: chr6:2000820–3000820 [2000820–3000820]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:2500820

number of SNPs plotted: 7297

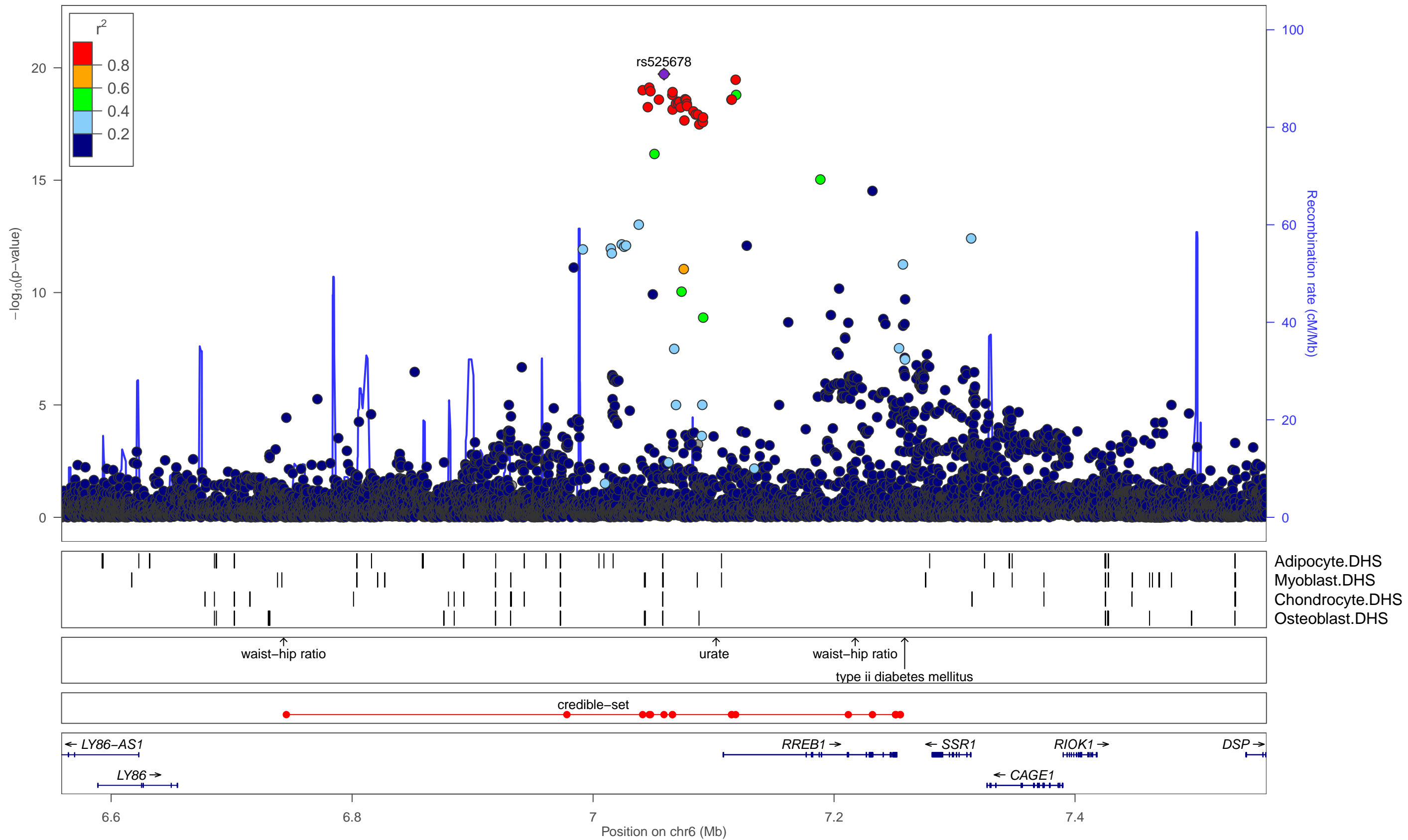
min P-value: 8.1E-16 [chr6:2500820]

max P-value: 1E0 [chr6:2084983]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12175387	6	2.232376	2.0562	credible-set	red
rs13207508	6	2.246618	2.0773	credible-set	red
rs61372774	6	2.248970	2.3061	credible-set	red
rs138482420	6	2.260701	2.2529	credible-set	red
rs77674209	6	2.267470	2.1671	credible-set	red
rs35888609	6	2.288383	2.3965	credible-set	red
rs57974028	6	2.299523	2.1517	credible-set	red
rs61693896	6	2.309036	2.1445	credible-set	red
rs145691943	6	2.309152	2.0382	credible-set	red
rs113813884	6	2.313102	2.2612	credible-set	red
rs60259303	6	2.351800	2.0717	credible-set	red
rs3966800	6	2.493113	2.5758	credible-set	red
rs2325965	6	2.493314	2.4804	credible-set	red
rs10458145	6	2.493582	2.4194	credible-set	red
rs4959187	6	2.494871	2.5901	credible-set	red
rs4959676	6	2.495566	2.5051	credible-set	red
rs4320420	6	2.496046	2.5071	credible-set	red
rs7758842	6	2.496664	2.5887	credible-set	red
rs9503208	6	2.499191	2.6449	credible-set	red
rs11242778	6	2.499374	2.7394	credible-set	red
rs4959677	6	2.500820	2.7563	credible-set	red
rs1891198	6	2.501828	2.1164	credible-set	red
rs4959678	6	2.503173	2.0089	credible-set	red

eBMD SNP INDEX 085



date: Wed Jun 28 21:32:39 2017

build: hg19

display range: chr6:6558857–7558857 [6558857–7558857]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:7058857

number of SNPs plotted: 8231

min P-value: 1.9E–20 [chr6:7058857]

max P-value: 1E0 [chr6:6569437]

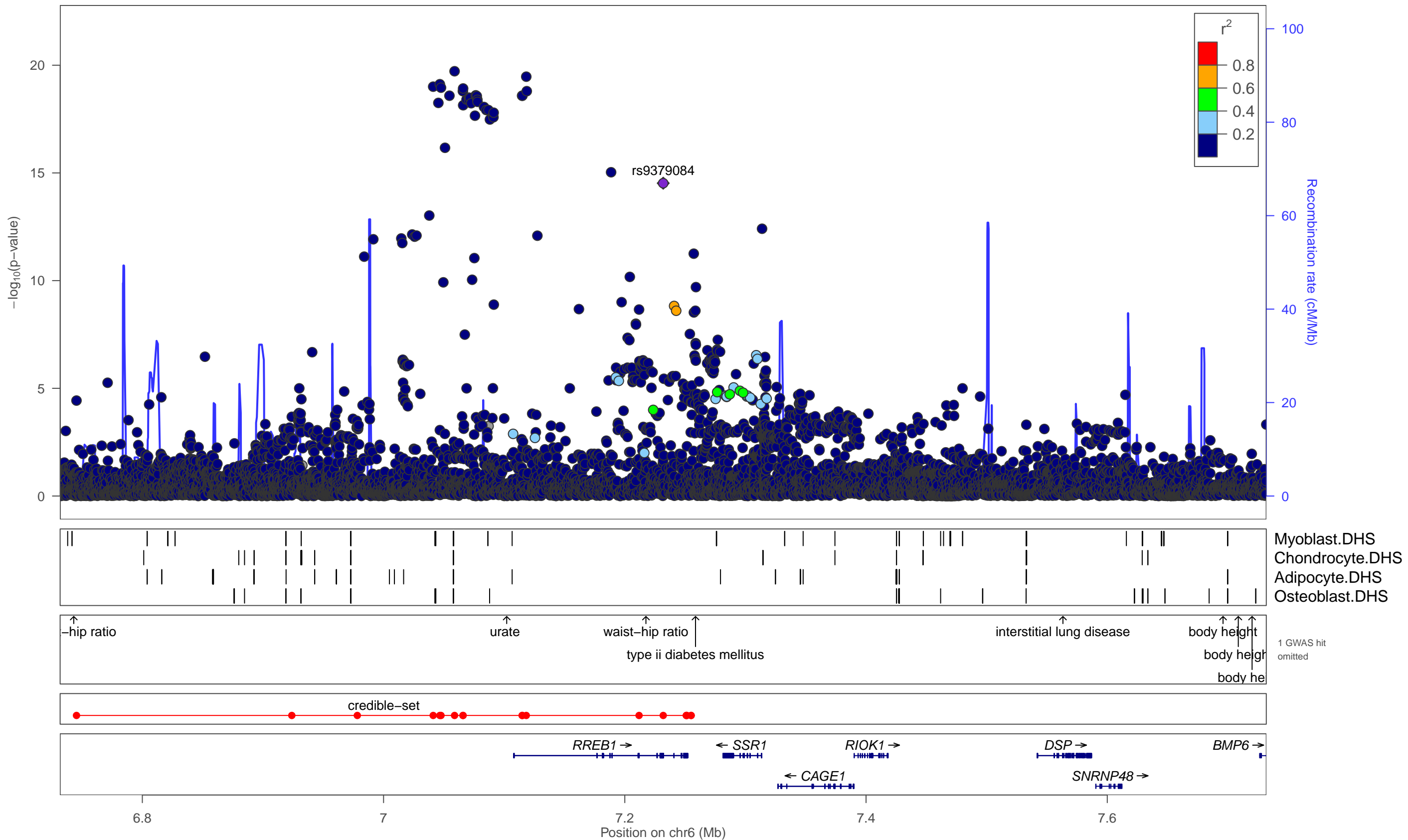
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	6.743149	waist-hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs1294421	EFO_0004343	GCST001954
6	6.743149	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs1294421	EFO_0004343	GCST000829
6	7.102084	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs675209	EFO_0004531	GCST001791
6	7.102084	urate	Yang Q	30/09/2010	Circ Cardiovasc Genet	20884846	rs675209	EFO_0004531	GCST000818
6	7.217517	waist-hip ratio	Liu CT	15/08/2013	PLoS Genet	23966867	rs6931262	EFO_0004343	GCST002138
6	7.258617	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs9502570	EFO_0001360	GCST002352

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs535225813	6	6.745413	2.1406	credible-set	red
rs75526338	6	6.978235	2.4236	credible-set	red
rs578539	6	7.041137	2.5690	credible-set	red
rs10685385	6	7.046648	2.6049	credible-set	red
rs597691	6	7.047620	2.4459	credible-set	red
rs525678	6	7.058857	3.3299	credible-set	red
rs9392855	6	7.065774	2.1953	credible-set	red
rs4397274	6	7.065950	2.3618	credible-set	red
rs7772296	6	7.114842	2.1703	credible-set	red
rs1285873	6	7.115116	2.1691	credible-set	red
rs597318	6	7.118301	3.1529	credible-set	red
rs1334576	6	7.211818	2.1613	credible-set	red
rs9379084	6	7.231843	8.7448	credible-set	red
rs2714338	6	7.250960	2.0608	credible-set	red
rs2842352	6	7.251037	2.9661	credible-set	red
rs1061637	6	7.251451	3.1894	credible-set	red
rs2714343	6	7.254957	3.3070	credible-set	red
rs2252857	6	7.255015	3.3053	credible-set	red

eBMD SNP INDEX 086



date: Wed Jun 28 21:32:48 2017

build: hg19

display range: chr6:6731843–7731843 [6731843–7731843]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:7231843

number of SNPs plotted: 7794

min P-value: 1.9E–20 [chr6:7058857]

max P-value: 1E0 [chr6:6744526]

omitted GWAS Hits: NA

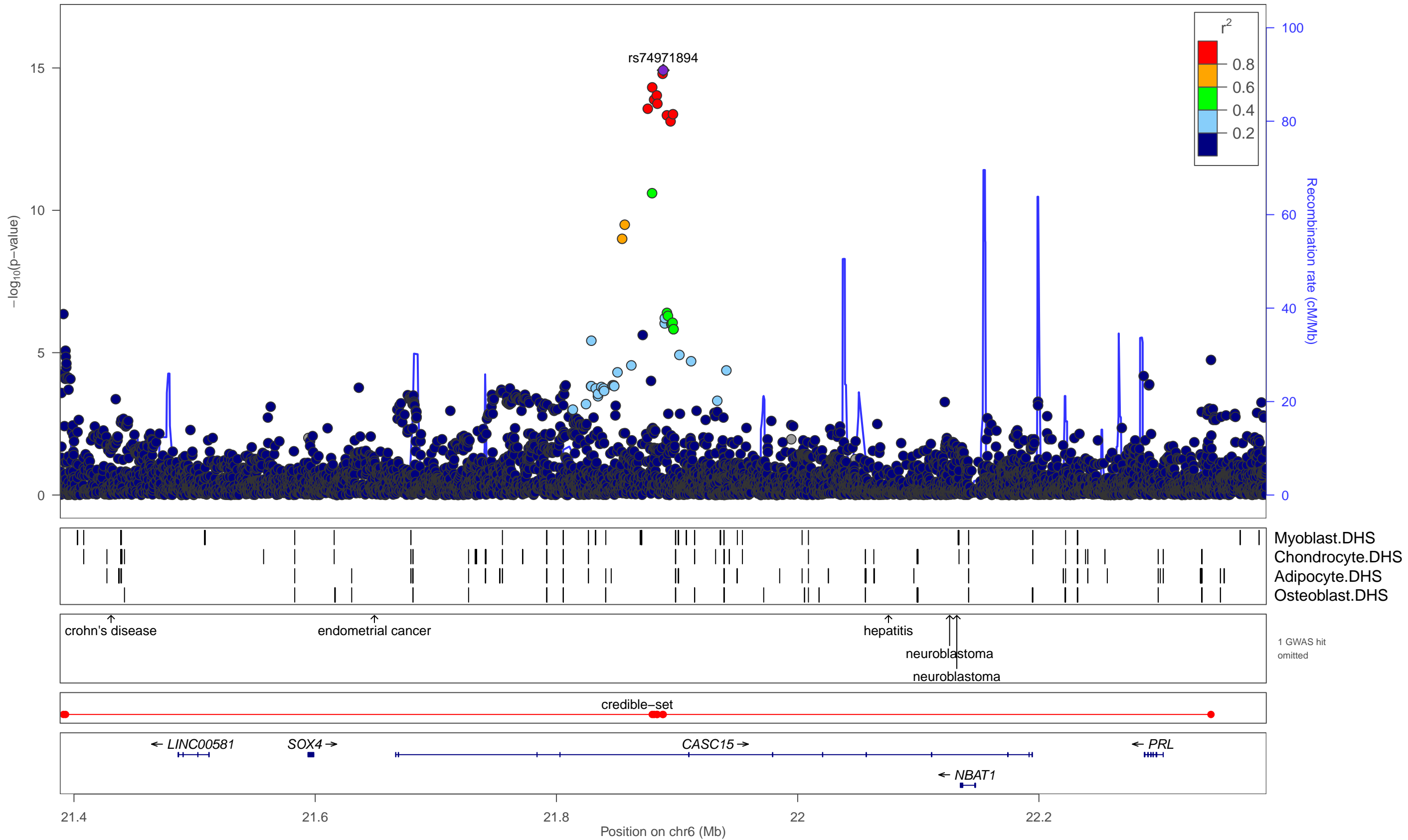
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	6.743149	waist-hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs1294421	EFO_0004343	GCST001954
6	6.743149	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs1294421	EFO_0004343	GCST000829
6	7.102084	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs675209	EFO_0004531	GCST001791
6	7.102084	urate	Yang Q	30/09/2010	Circ Cardiovasc Genet	20884846	rs675209	EFO_0004531	GCST000818
6	7.217517	waist-hip ratio	Liu CT	15/08/2013	PLoS Genet	23966867	rs6931262	EFO_0004343	GCST002138
6	7.258617	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs9502570	EFO_0001360	GCST002352
6	7.563232	interstitial lung disease	Fingerlin TE	14/04/2013	Nat Genet	23583980	rs2076295	EFO_0004244	GCST001968
6	7.695973	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs1885486	EFO_0004339	GCST001956
6	7.708631	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs9392918	EFO_0004339	GCST002647
6	7.720059	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs12198986	EFO_0004339	GCST000175
6	7.725760	body height	Lango Allen H	29/09/2010	Nature	20881960	rs3812163	EFO_0004339	GCST000817

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs535225813	6	6.745413	2.1345	credible-set	red
rs9502519	6	6.923923	2.0194	credible-set	red
rs75526338	6	6.978235	2.4206	credible-set	red
rs578539	6	7.041137	2.5454	credible-set	red
rs10685385	6	7.046648	2.5817	credible-set	red
rs597691	6	7.047620	2.4226	credible-set	red
rs525678	6	7.058857	3.3069	credible-set	red
rs9392855	6	7.065774	2.1709	credible-set	red
rs4397274	6	7.065950	2.3373	credible-set	red
rs7772296	6	7.114842	2.1422	credible-set	red
rs1285873	6	7.115116	2.1481	credible-set	red
rs597318	6	7.118301	3.1313	credible-set	red
rs1334576	6	7.211818	2.1611	credible-set	red
rs9379084	6	7.231843	8.7716	credible-set	red
rs2714338	6	7.250960	2.0673	credible-set	red
rs2842352	6	7.251037	2.9415	credible-set	red
rs1061637	6	7.251451	3.1638	credible-set	red
rs2714343	6	7.254957	3.2827	credible-set	red
rs2252857	6	7.255015	3.2800	credible-set	red

eBMD SNP INDEX 087



date: Wed Jun 28 21:32:49 2017

build: hg19

display range: chr6:21388517–22388517 [21388517–22388517]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:21888517

number of SNPs plotted: 6419

min P-value: 1.2E-15 [chr6:21888517]

max P-value: 1E0 [chr6:21400831]

omitted GWAS Hits: NA

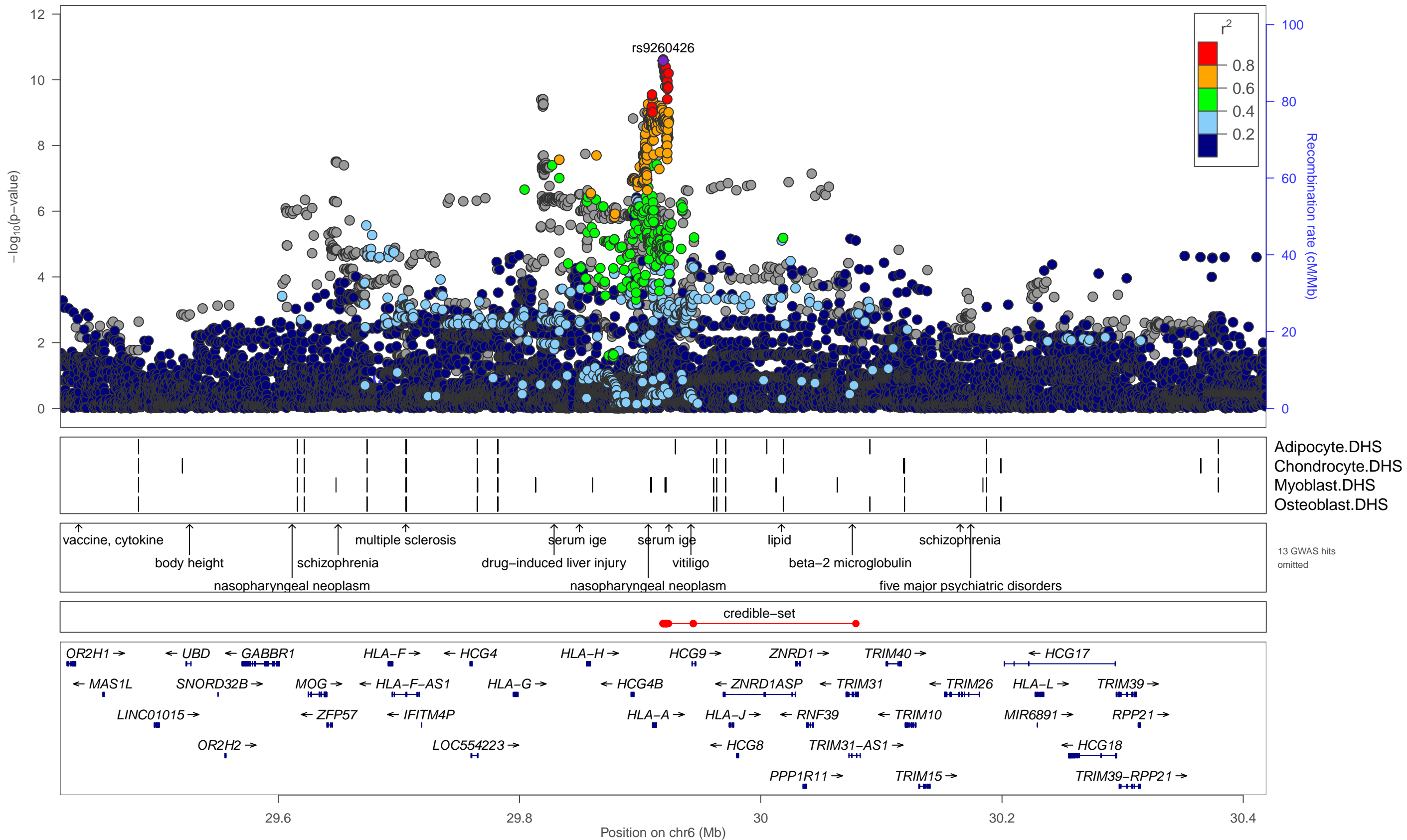
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	21.43073	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs12663356	EFO_0000384	GCST001729
6	21.64908	endometrial cancer	Chen MM	23/03/2016	Hum Mol Genet	27008869	rs1740828	NA	GCST003436
6	22.07526	hepatitis	Hong Y	31/12/2014	Genomics Inform	25705159	rs10484389	HP_0012115	GCST002730
6	22.12596	neuroblastoma	Wang K	1/12/2010	Nature	21124317	rs4712653	EFO_0000621	GCST000901
6	22.13193	neuroblastoma	Diskin SJ	2/09/2012	Nat Genet	22941191	rs9295536	EFO_0000621	GCST001660
6	22.14000	neuroblastoma	Maris JM	9/05/2008	N Engl J Med	18463370	rs6939340	EFO_0000621	GCST000188

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10946458	6	21.39128	3.8974	credible-set	red
rs9466072	6	21.39299	2.0549	credible-set	red
rs546683343	6	21.87940	2.6746	credible-set	red
rs111821475	6	21.88097	2.1992	credible-set	red
rs6456454	6	21.88318	2.3608	credible-set	red
rs4712642	6	21.88368	2.0610	credible-set	red
rs80076072	6	21.88802	3.2561	credible-set	red
rs74971894	6	21.88852	3.4679	credible-set	red
rs2744146	6	22.34265	2.5222	credible-set	red

eBMD SNP INDEX 088



date: Wed Jun 28 21:33:01 2017

build: hg19

display range: chr6:29419109–30419109 [29419109–30419109]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:29919109

number of SNPs plotted: 15550

min P-value: 2.4E-11 [chr6:29919064]

max P-value: 1E0 [chr6:29469715]

omitted GWAS Hits: chr6:29.705659–multiple sclerosis, chr6:29.849619–serum ige

omitted GWAS Hits: chr6:30.075864–beta-2 microglobulin , chr6:30.165273–schizophrenia

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

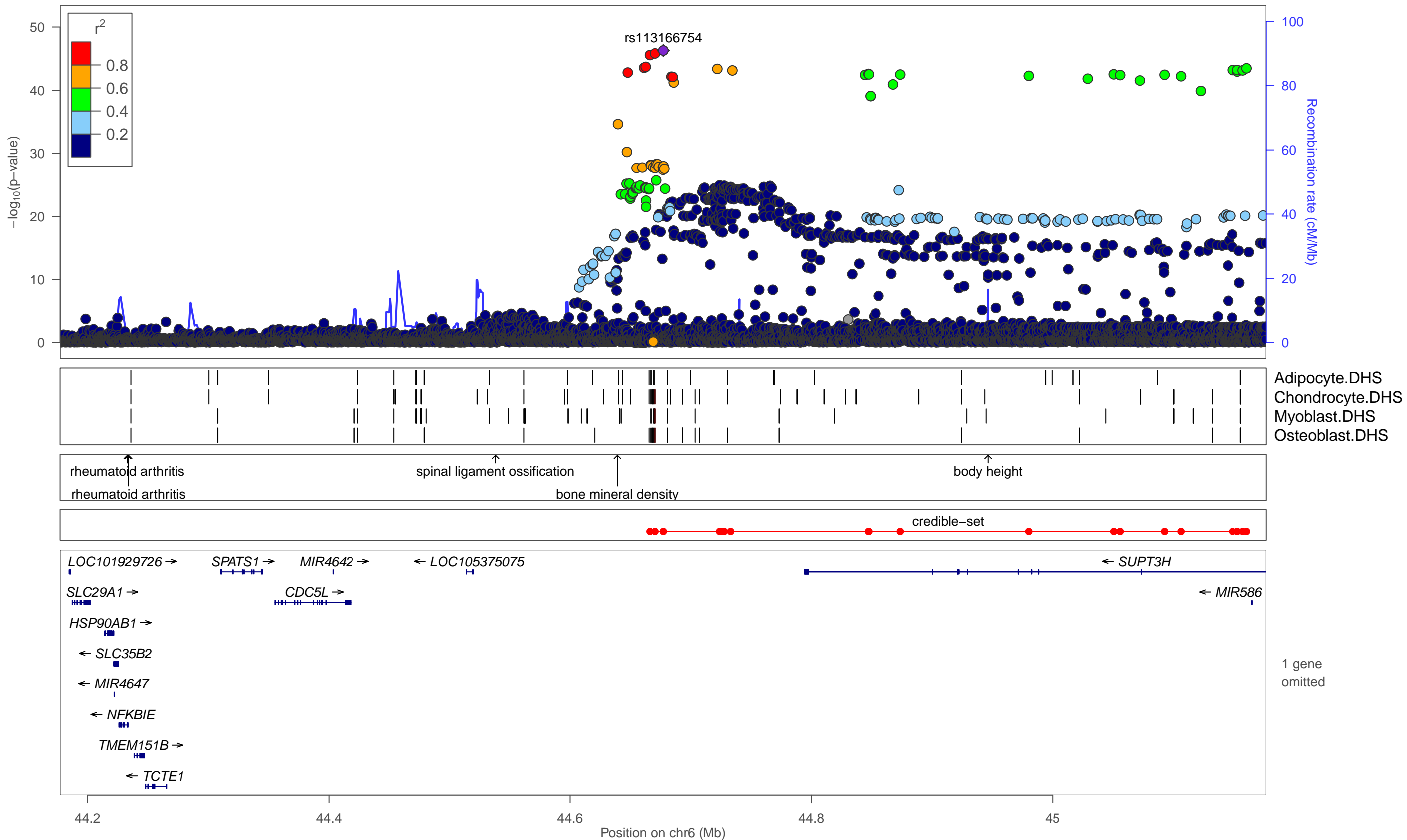
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	29.43441	response to vaccine, cytokine	Kennedy RB	19/05/2012	Hum Genet	22610502	rs4713226	EFO_0004645, EFO_0004873	GCST001538
6	29.52638	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs11970475	EFO_0004339	GCST002702
6	29.61143	nasopharyngeal neoplasm	Tse KP	5/08/2009	Am J Hum Genet	19664746	rs29232	EFO_0004252	GCST000460
6	29.64955	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs385492	EFO_0000692	GCST003048
6	29.67026	nasopharyngeal neoplasm	Tse KP	5/08/2009	Am J Hum Genet	19664746	rs3129055	EFO_0004252	GCST000460
6	29.70566	multiple sclerosis	De Jager PL	14/06/2009	Nat Genet	19525953	rs2523393	EFO_0003885	GCST000424
6	29.72316	crohn's disease	Kenny EE	8/03/2012	PLoS Genet	22412388	rs9258260	EFO_0000384	GCST001438
6	29.82866	drug-induced liver injury	Lucena MI	12/04/2011	Gastroenterology	21570397	rs2523822	EFO_0004228	GCST001036
6	29.84962	serum ige	Granada M	8/11/2011	J Allergy Clin Immunol	22075330	rs2523809	EFO_0004579	GCST001316
6	29.90669	nasopharyngeal neoplasm	Bei JX	30/05/2010	Nat Genet	20512145	rs2860580	EFO_0004252	GCST000687
6	29.91810	nasopharyngeal neoplasm	Tse KP	5/08/2009	Am J Hum Genet	19664746	rs2517713	EFO_0004252	GCST000460
6	29.92033	beta-2 microglobulin	Tin A	16/02/2013	Hum Genet	23417110	rs9260489	EFO_0005197	GCST001863
6	29.92033	multiple sclerosis	Patsopoulos NA	1/12/2011	Ann Neurol	22190364	rs9260489	EFO_0003885	GCST001341
6	29.92274	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs16896742	EFO_0004703	GCST002541
6	29.92384	serum ige	Granada M	8/11/2011	J Allergy Clin Immunol	22075330	rs2571391	EFO_0004579	GCST001316
6	29.93525	graves disease	Nakabayashi K	8/09/2011	J Hum Genet	21900946	rs3893464	EFO_0004237	GCST001219
6	29.94194	iga glomerulonephritis	Li M	1/06/2015	Nat Commun	26028593	rs2523946	EFO_0004194	GCST002943
6	29.94194	iga glomerulonephritis	Yu XQ	25/12/2011	Nat Genet	22197929	rs2523946	EFO_0004194	GCST001364
6	29.94208	vitiligo	Jin Y	21/04/2010	N Engl J Med	20410501	rs3823355	EFO_0004208	GCST000662
6	29.97059	hiv-1 infection	Fellay J	24/12/2009	PLoS Genet	20041166	rs7758512	EFO_0000180	GCST000549
6	29.97393	graves disease	Nakabayashi K	8/09/2011	J Hum Genet	21900946	rs4313034	EFO_0004237	GCST001219
6	30.01707	lipid	Kettunen J	29/01/2012	Nat Genet	22286219	rs6917603	EFO_0004529	GCST001392
6	30.03252	five major psychiatric disorders	Smoller JW	27/02/2013	Lancet	23453885	rs8321	NA	GCST001877
6	30.07586	beta-2 microglobulin	Tin A	16/02/2013	Hum Genet	23417110	rs2023472	EFO_0005197	GCST001863
6	30.07828	autoimmune thyroid disease, type i diabetes mellitus	Tomer Y	27/04/2015	J Autoimmun	25936594	rs2523989	EFO_0006812, EFO_0001359	GCST002876
6	30.16527	schizophrenia	ISGC & WTCCC2	7/08/2012	Biol Psychiatry	22883433	rs2523722	EFO_0000692	GCST001631
6	30.17413	five major psychiatric disorders	Smoller JW	27/02/2013	Lancet	23453885	rs2021722	NA	GCST001877
6	30.17413	schizophrenia	Ripke S	18/09/2011	Nat Genet	21926974	rs2021722	EFO_0000692	GCST001242

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9260405	6	29.91889	2.5915	credible-set	red
rs9260415	6	29.91902	2.6345	credible-set	red
rs9260417	6	29.91902	2.7366	credible-set	red
rs9260421	6	29.91906	2.7882	credible-set	red
rs9260426	6	29.91911	2.7489	credible-set	red
rs564446889	6	29.91913	2.7132	credible-set	red
rs7747253	6	29.91978	2.4930	credible-set	red
rs113251661	6	29.92034	2.5557	credible-set	red
rs9260492	6	29.92042	2.3651	credible-set	red
rs139015681	6	29.92049	2.2466	credible-set	red
rs9260500	6	29.92071	2.5371	credible-set	red
rs9260519	6	29.92106	2.3493	credible-set	red
rs9260520	6	29.92113	2.5741	credible-set	red
rs9260534	6	29.92124	2.3808	credible-set	red
rs2517705	6	29.92126	2.2209	credible-set	red
rs2517704	6	29.92130	2.2262	credible-set	red
rs9260562	6	29.92184	2.3858	credible-set	red
rs9260563	6	29.92186	2.3626	credible-set	red
rs5027911	6	29.92208	2.1790	credible-set	red
rs5027914	6	29.92222	2.0561	credible-set	red
rs9260574	6	29.92230	2.0504	credible-set	red
rs9260589	6	29.92251	2.0786	credible-set	red
rs2571389	6	29.92350	2.3313	credible-set	red
rs4479980	6	29.94403	2.1129	credible-set	red
rs4360169	6	29.94403	2.2049	credible-set	red
rs547736695	6	30.07881	2.0204	credible-set	red

eBMD SNP INDEX 089



date: Wed Jun 28 21:32:45 2017

build: hg19

display range: chr6:44177173–45177173 [44177173–45177173]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:44677173

number of SNPs plotted: 6387

min P-value: 5.2E-47 [chr6:44677173]

max P-value: 1E0 [chr6:44204630]

omitted Genes: AARS2

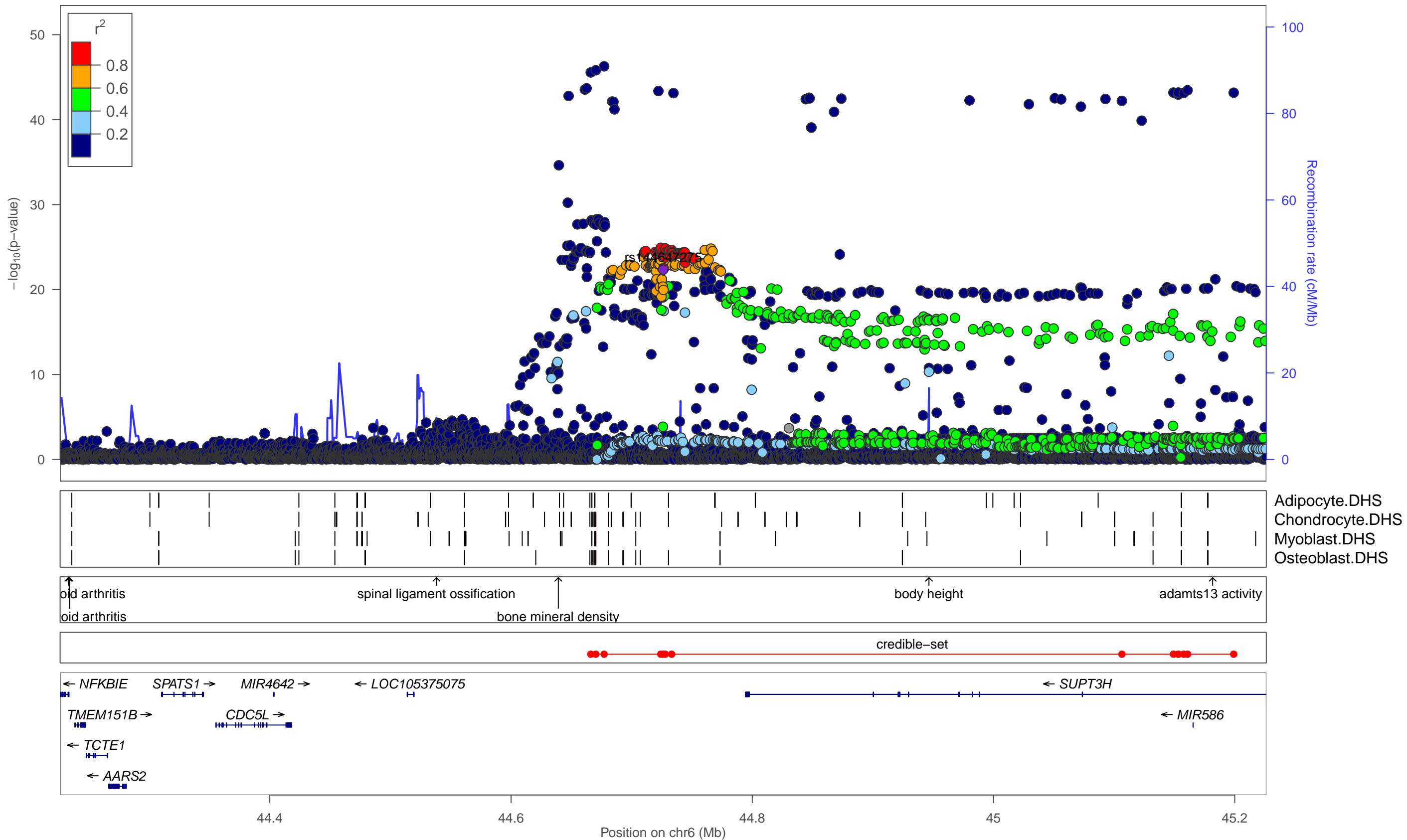
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	44.23292	rheumatoid arthritis	Myouzen K	13/09/2012	PLoS Genet	23028356	rs2233434	EFO_0000685	GCST001681
6	44.23292	rheumatoid arthritis	Okada Y	25/03/2012	Nat Genet	22446963	rs2233434	EFO_0000685	GCST001454
6	44.23392	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs2233424	EFO_0000685	GCST002318
6	44.53814	spinal ligament ossification	Nakajima M	27/07/2014	Nat Genet	25064007	rs927485	EFO_0005895	GCST002545
6	44.63918	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs11755164	EFO_0003923	GCST001482
6	44.94651	body height	Lango Allen H	29/09/2010	Nature	20881960	rs9472414	EFO_0004339	GCST000817

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112748697	6	44.66612	2.8364	credible-set	red
rs201303659	6	44.67031	2.9008	credible-set	red
rs113166754	6	44.67717	2.9801	credible-set	red
rs199815053	6	44.72409	2.1296	credible-set	red
rs144647275	6	44.72617	2.9333	credible-set	red
rs62437967	6	44.72789	2.2061	credible-set	red
rs9472357	6	44.73318	2.1891	credible-set	red
rs9463048	6	44.84714	2.1039	credible-set	red
rs112778827	6	44.84753	2.0529	credible-set	red
rs9463052	6	44.87380	2.0254	credible-set	red
rs77971312	6	44.98013	2.0172	credible-set	red
rs185421084	6	45.05082	2.0888	credible-set	red
rs17209608	6	45.05609	2.0902	credible-set	red
rs75196288	6	45.09281	2.0803	credible-set	red
rs75230517	6	45.10644	2.4033	credible-set	red
rs144441806	6	45.14917	2.7460	credible-set	red
rs191485704	6	45.15318	2.6557	credible-set	red
rs183798784	6	45.15318	2.7474	credible-set	red
rs75523462	6	45.15772	2.8815	credible-set	red
rs78538880	6	45.16090	2.9001	credible-set	red

eBMD SNP INDEX 090



date: Wed Jun 28 21:33:01 2017

build: hg19

display range: chr6:44226165–45226165 [44226165–45226165]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:44726165

number of SNPs plotted: 6377

min P-value: 5.2E-47 [chr6:44677173]

max P-value: 1E0 [chr6:44301335]

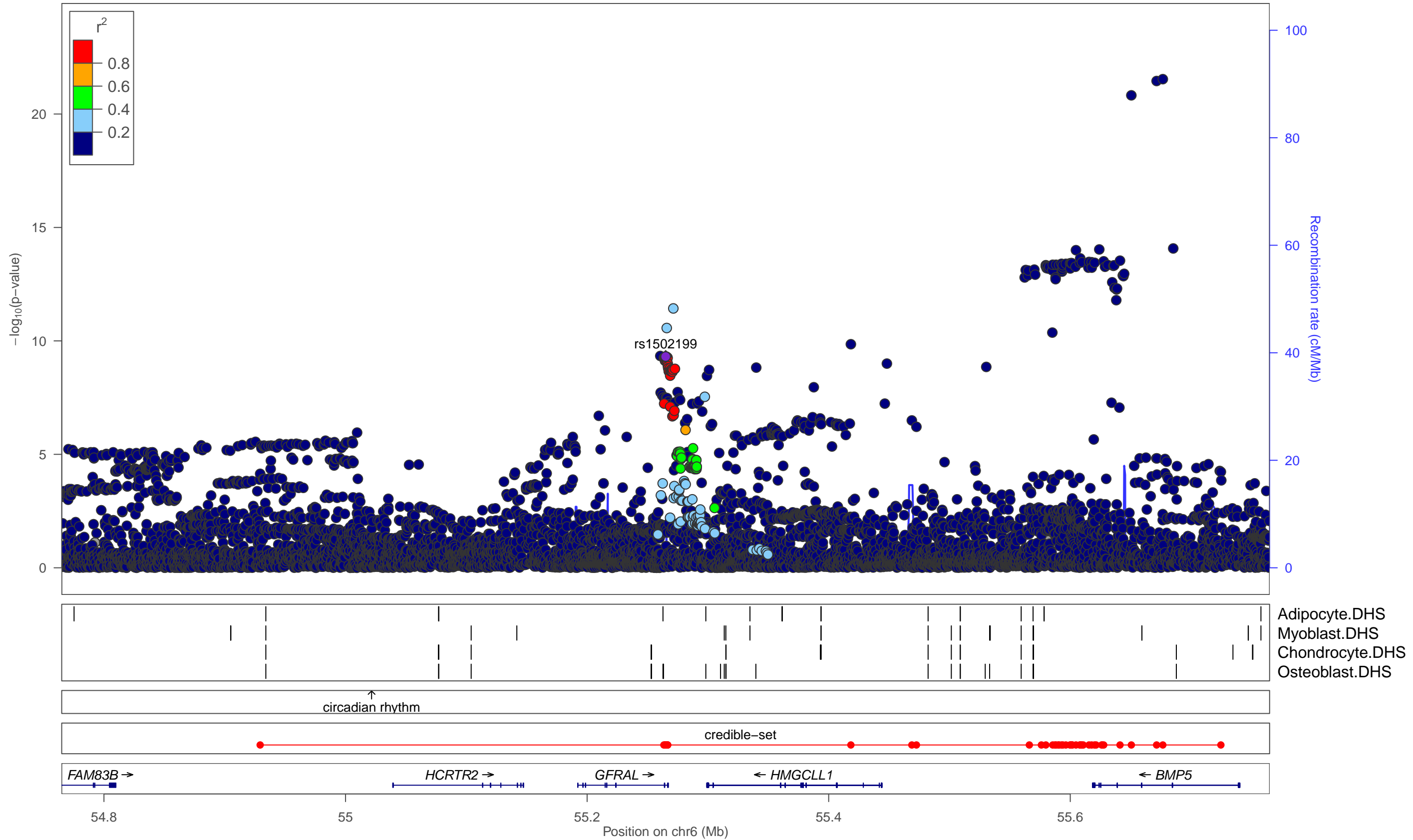
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	44.23292	rheumatoid arthritis	Myouzen K	13/09/2012	PLoS Genet	23028356	rs2233434	EFO_0000685	GCST001681
6	44.23292	rheumatoid arthritis	Okada Y	25/03/2012	Nat Genet	22446963	rs2233434	EFO_0000685	GCST001454
6	44.23392	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs2233424	EFO_0000685	GCST002318
6	44.53814	spinal ligament ossification	Nakajima M	27/07/2014	Nat Genet	25064007	rs927485	EFO_0005895	GCST002545
6	44.63918	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs11755164	EFO_0003923	GCST001482
6	44.94651	body height	Lango Allen H	29/09/2010	Nature	20881960	rs9472414	EFO_0004339	GCST000817
6	45.18169	adamts13 activity	de Vries PS	1/05/2015	Blood	25934476	rs10456544	EFO_0006955	GCST002881

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112748697	6	44.66612	2.9101	credible-set	red
rs201303659	6	44.67031	2.9742	credible-set	red
rs113166754	6	44.67717	3.0457	credible-set	red
rs199815053	6	44.72409	2.1329	credible-set	red
rs144647275	6	44.72617	2.8976	credible-set	red
rs62437967	6	44.72789	2.1889	credible-set	red
rs9472357	6	44.73318	2.1417	credible-set	red
rs75230517	6	45.10644	2.2128	credible-set	red
rs144441806	6	45.14917	2.5324	credible-set	red
rs191485704	6	45.15318	2.4282	credible-set	red
rs183798784	6	45.15318	2.5411	credible-set	red
rs75523462	6	45.15772	2.6629	credible-set	red
rs78538880	6	45.16090	2.6753	credible-set	red
rs113478679	6	45.19914	3.3498	credible-set	red

eBMD SNP INDEX 091



date: Wed Jun 28 21:33:02 2017

build: hg19

display range: chr6:54765021–55765021 [54765021–55765021]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:55265021

number of SNPs plotted: 7349

min P-value: 2.9E–22 [chr6:55676621]

max P-value: 1E0 [chr6:54795859]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	55.02156	circadian rhythm	Hu Y	2/02/2016	Nat Commun	26835600	rs35833281	EFO_0004354	GCST003429

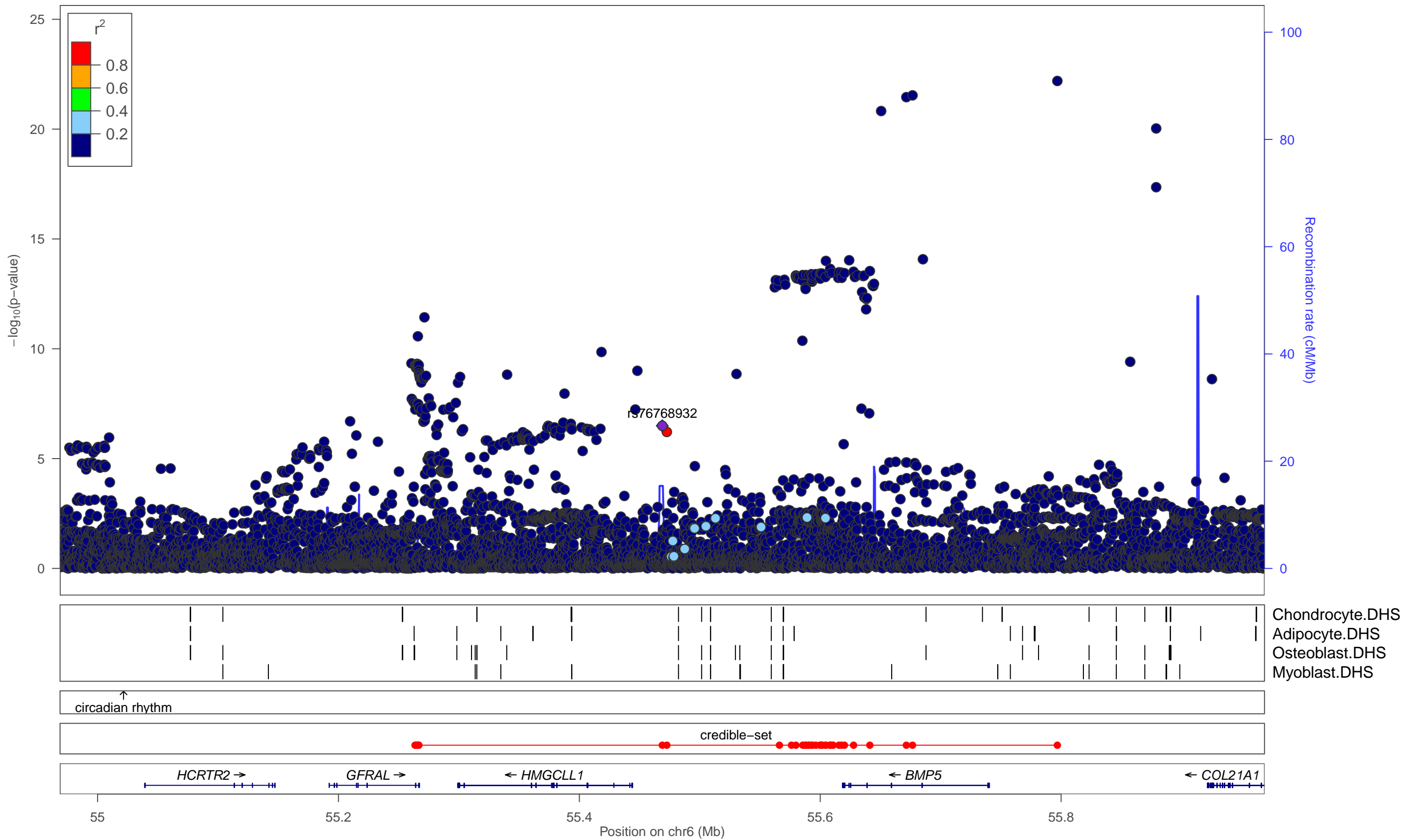
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs560786462	6	54.92932	2.1754	credible-set	red
rs4715541	6	55.26353	2.4407	credible-set	red
rs6936510	6	55.26436	2.4928	credible-set	red
rs6913781	6	55.26446	2.2712	credible-set	red
rs11295935	6	55.26495	2.2565	credible-set	red
rs6918921	6	55.26496	2.4562	credible-set	red
rs1502199	6	55.26502	2.5506	credible-set	red
rs1502200	6	55.26540	2.4286	credible-set	red
rs5876448	6	55.26546	2.4767	credible-set	red
rs1502201	6	55.26550	2.5547	credible-set	red
rs6920497	6	55.26569	2.2936	credible-set	red
rs6900273	6	55.26575	2.3826	credible-set	red
rs9367634	6	55.26579	2.4637	credible-set	red
rs1546296	6	55.26632	2.3877	credible-set	red
rs1546297	6	55.26639	2.4910	credible-set	red
rs9370418	6	55.26662	2.4444	credible-set	red
rs12529201	6	55.26672	2.0764	credible-set	red
rs72986079	6	55.41836	2.2913	credible-set	red
rs76768932	6	55.46884	3.2002	credible-set	red
rs77606322	6	55.47263	2.5216	credible-set	red
rs13204733	6	55.56611	2.4483	credible-set	red
rs13194687	6	55.57608	2.7041	credible-set	red
rs72865346	6	55.57977	2.0228	credible-set	red
rs76067990	6	55.58546	2.0523	credible-set	red
rs13219706	6	55.58735	2.5528	credible-set	red
rs72865363	6	55.58826	2.0434	credible-set	red
rs13217868	6	55.59015	2.5988	credible-set	red
rs72865369	6	55.59070	2.0670	credible-set	red
rs72865374	6	55.59272	2.1063	credible-set	red
rs72865385	6	55.59386	2.0101	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72865397	6	55.59632	2.0995	credible-set	red
rs72868808	6	55.59978	2.0982	credible-set	red
rs67201739	6	55.60033	2.6932	credible-set	red
rs115889248	6	55.60073	2.1000	credible-set	red
rs145338431	6	55.60085	2.1152	credible-set	red
rs146725581	6	55.60105	2.1023	credible-set	red
rs189396107	6	55.60143	2.1094	credible-set	red
rs13196508	6	55.60168	3.9859	credible-set	red
rs528132710	6	55.60471	2.0436	credible-set	red
rs72868815	6	55.60790	2.1338	credible-set	red
rs72868817	6	55.60824	2.4248	credible-set	red
rs13216589	6	55.60890	2.7281	credible-set	red
rs72868818	6	55.60968	2.1543	credible-set	red
rs13207469	6	55.61075	2.7185	credible-set	red
rs72868830	6	55.61553	2.1769	credible-set	red
rs72868831	6	55.61768	2.1437	credible-set	red
rs72868833	6	55.62010	2.1467	credible-set	red
rs3798847	6	55.62136	2.0604	credible-set	red
rs35695519	6	55.62601	2.0766	credible-set	red
rs35257600	6	55.62652	2.0015	credible-set	red
rs72868849	6	55.62767	2.1998	credible-set	red
rs144170868	6	55.64118	2.1190	credible-set	red
rs186197964	6	55.65056	2.0020	credible-set	red
rs186577183	6	55.67148	3.5313	credible-set	red
rs150445982	6	55.67662	3.7625	credible-set	red
rs146444635	6	55.72469	2.0036	credible-set	red

eBMD SNP INDEX 092



date: Wed Jun 28 21:32:48 2017

build: hg19

display range: chr6:54968836–55968836 [54968836–55968836]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:55468836

number of SNPs plotted: 7366

min P-value: 6.4E-23 [chr6:55796852]

max P-value: 1E0 [chr6:54975515]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	55.02156	circadian rhythm	Hu Y	2/02/2016	Nat Commun	26835600	rs35833281	EFO_0004354	GCST003429

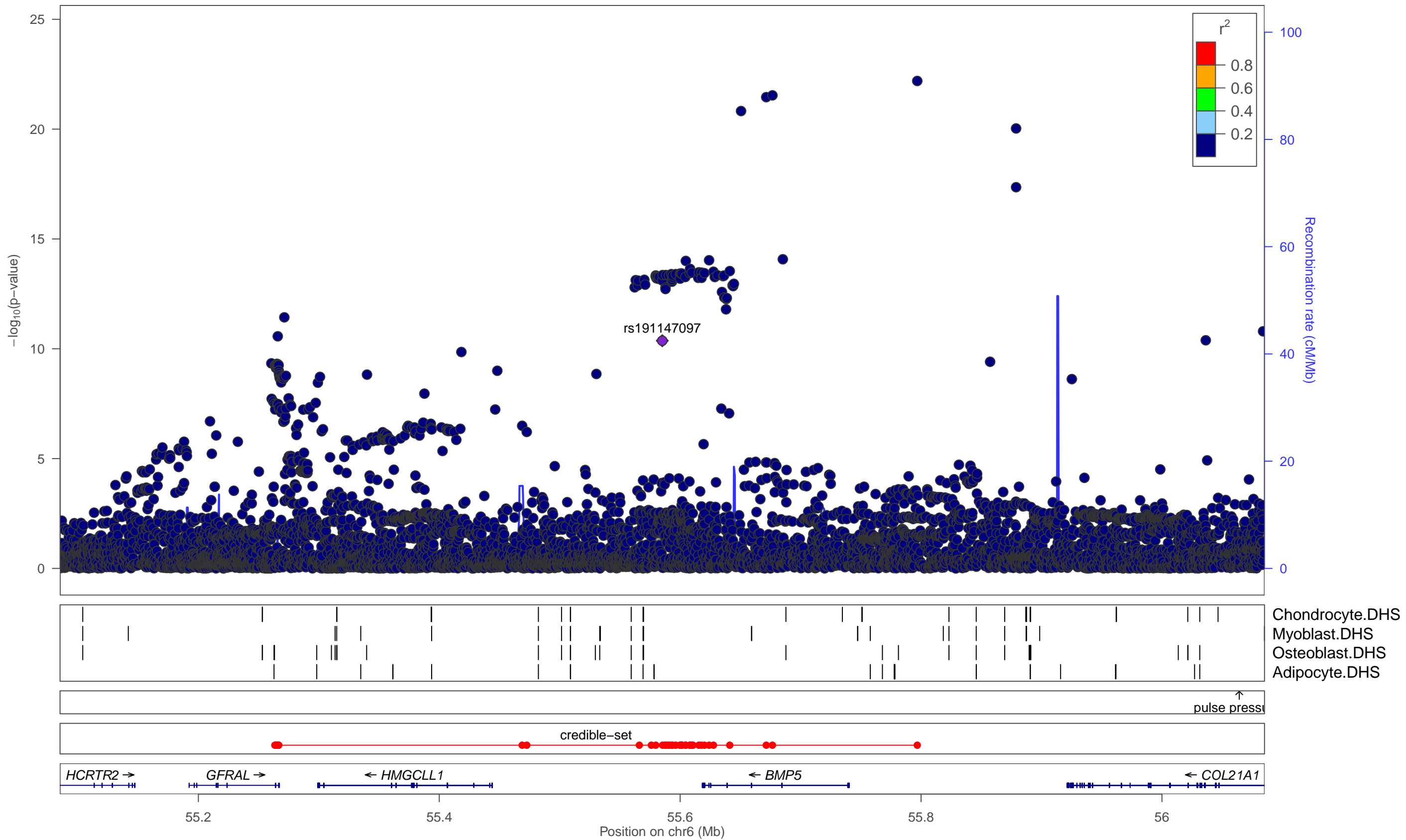
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4715541	6	55.26353	2.4474	credible-set	red
rs6936510	6	55.26436	2.4947	credible-set	red
rs6913781	6	55.26446	2.2548	credible-set	red
rs11295935	6	55.26495	2.2797	credible-set	red
rs6918921	6	55.26496	2.4677	credible-set	red
rs1502199	6	55.26502	2.5436	credible-set	red
rs1502200	6	55.26540	2.4354	credible-set	red
rs5876448	6	55.26546	2.4709	credible-set	red
rs1502201	6	55.26550	2.5223	credible-set	red
rs6920497	6	55.26569	2.3097	credible-set	red
rs6900273	6	55.26575	2.3914	credible-set	red
rs9367634	6	55.26579	2.4822	credible-set	red
rs1546296	6	55.26632	2.3870	credible-set	red
rs1546297	6	55.26639	2.4724	credible-set	red
rs9370418	6	55.26662	2.4552	credible-set	red
rs12529201	6	55.26672	2.1063	credible-set	red
rs76768932	6	55.46884	3.3574	credible-set	red
rs77606322	6	55.47263	2.7956	credible-set	red
rs13204733	6	55.56611	2.3571	credible-set	red
rs13194687	6	55.57608	2.5971	credible-set	red
rs72865346	6	55.57977	2.0252	credible-set	red
rs76067990	6	55.58546	2.0460	credible-set	red
rs13219706	6	55.58735	2.4421	credible-set	red
rs72865363	6	55.58826	2.0373	credible-set	red
rs13217868	6	55.59015	2.5224	credible-set	red
rs72865369	6	55.59070	2.0532	credible-set	red
rs72865374	6	55.59272	2.0914	credible-set	red
rs72865385	6	55.59386	2.0123	credible-set	red
rs72865397	6	55.59632	2.0905	credible-set	red
rs72868808	6	55.59978	2.0953	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs67201739	6	55.60033	2.6399	credible-set	red
rs115889248	6	55.60073	2.0879	credible-set	red
rs145338431	6	55.60085	2.1158	credible-set	red
rs146725581	6	55.60105	2.0806	credible-set	red
rs189396107	6	55.60143	2.0874	credible-set	red
rs13196508	6	55.60168	3.7579	credible-set	red
rs541928175	6	55.60427	2.0246	credible-set	red
rs528132710	6	55.60471	2.0417	credible-set	red
rs72868815	6	55.60790	2.1338	credible-set	red
rs72868817	6	55.60824	2.4396	credible-set	red
rs13216589	6	55.60890	2.6246	credible-set	red
rs72868818	6	55.60968	2.1666	credible-set	red
rs13207469	6	55.61075	2.6117	credible-set	red
rs72868830	6	55.61553	2.1761	credible-set	red
rs72868831	6	55.61768	2.1614	credible-set	red
rs72868833	6	55.62010	2.1379	credible-set	red
rs72868849	6	55.62767	2.2148	credible-set	red
rs144170868	6	55.64118	2.1256	credible-set	red
rs186577183	6	55.67148	3.2871	credible-set	red
rs150445982	6	55.67662	3.4406	credible-set	red
rs150694678	6	55.79685	3.3517	credible-set	red

eBMD SNP INDEX 093



date: Wed Jun 28 21:33:00 2017

build: hg19

display range: chr6:55085151–56085151 [55085151–56085151]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:55585151

number of SNPs plotted: 7326

min P-value: 6.4E-23 [chr6:55796852]

max P-value: 1E0 [chr6:55220821]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	56.0642	pulse pressure	Kato N	21/09/2015	Nat Genet	26390057	rs1474698	EFO_0005763	GCST003274

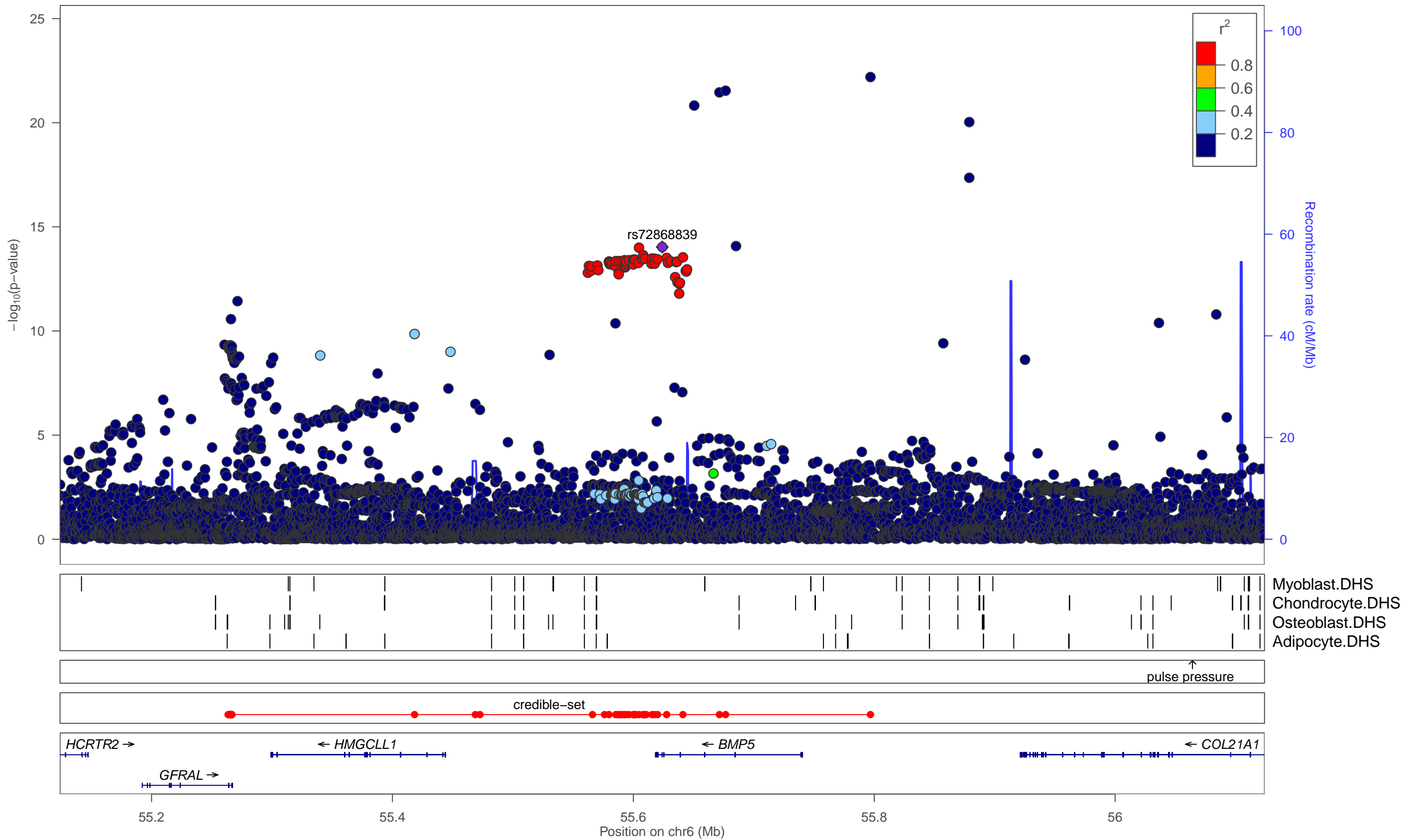
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4715541	6	55.26353	2.4575	credible-set	red
rs6936510	6	55.26436	2.4740	credible-set	red
rs6913781	6	55.26446	2.2475	credible-set	red
rs11295935	6	55.26495	2.2344	credible-set	red
rs6918921	6	55.26496	2.4616	credible-set	red
rs1502199	6	55.26502	2.5593	credible-set	red
rs1502200	6	55.26540	2.4424	credible-set	red
rs5876448	6	55.26546	2.4534	credible-set	red
rs1502201	6	55.26550	2.5399	credible-set	red
rs6920497	6	55.26569	2.3184	credible-set	red
rs6900273	6	55.26575	2.3680	credible-set	red
rs9367634	6	55.26579	2.5064	credible-set	red
rs1546296	6	55.26632	2.3909	credible-set	red
rs1546297	6	55.26639	2.4878	credible-set	red
rs9370418	6	55.26662	2.4601	credible-set	red
rs12529201	6	55.26672	2.0703	credible-set	red
rs76768932	6	55.46884	3.3611	credible-set	red
rs77606322	6	55.47263	2.7401	credible-set	red
rs13204733	6	55.56611	2.3423	credible-set	red
rs13194687	6	55.57608	2.5802	credible-set	red
rs72865346	6	55.57977	2.0258	credible-set	red
rs76067990	6	55.58546	2.0508	credible-set	red
rs13219706	6	55.58735	2.4781	credible-set	red
rs72865363	6	55.58826	2.0295	credible-set	red
rs13217868	6	55.59015	2.5236	credible-set	red
rs72865369	6	55.59070	2.0552	credible-set	red
rs72865374	6	55.59272	2.0511	credible-set	red
rs72865385	6	55.59386	2.0151	credible-set	red
rs72865397	6	55.59632	2.0996	credible-set	red
rs72868808	6	55.59978	2.0910	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs67201739	6	55.60033	2.6444	credible-set	red
rs115889248	6	55.60073	2.1075	credible-set	red
rs145338431	6	55.60085	2.1201	credible-set	red
rs146725581	6	55.60105	2.0937	credible-set	red
rs189396107	6	55.60143	2.0904	credible-set	red
rs13196508	6	55.60168	3.7706	credible-set	red
rs541928175	6	55.60427	2.0116	credible-set	red
rs528132710	6	55.60471	2.0471	credible-set	red
rs72868815	6	55.60790	2.1328	credible-set	red
rs72868817	6	55.60824	2.4283	credible-set	red
rs13216589	6	55.60890	2.6153	credible-set	red
rs72868818	6	55.60968	2.1577	credible-set	red
rs13207469	6	55.61075	2.6331	credible-set	red
rs72868830	6	55.61553	2.1774	credible-set	red
rs72868831	6	55.61768	2.1698	credible-set	red
rs72868833	6	55.62010	2.1276	credible-set	red
rs72868839	6	55.62402	2.0064	credible-set	red
rs72868849	6	55.62767	2.1879	credible-set	red
rs144170868	6	55.64118	2.0942	credible-set	red
rs186577183	6	55.67148	3.2761	credible-set	red
rs150445982	6	55.67662	3.4506	credible-set	red
rs150694678	6	55.79685	3.3405	credible-set	red

eBMD SNP INDEX 094



date: Wed Jun 28 21:33:08 2017

build: hg19

display range: chr6:55124017–56124017 [55124017–56124017]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:55624017

number of SNPs plotted: 7300

min P-value: 6.4E-23 [chr6:55796852]

max P-value: 1E0 [chr6:55220821]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	56.0642	pulse pressure	Kato N	21/09/2015	Nat Genet	26390057	rs1474698	EFO_0005763	GCST003274

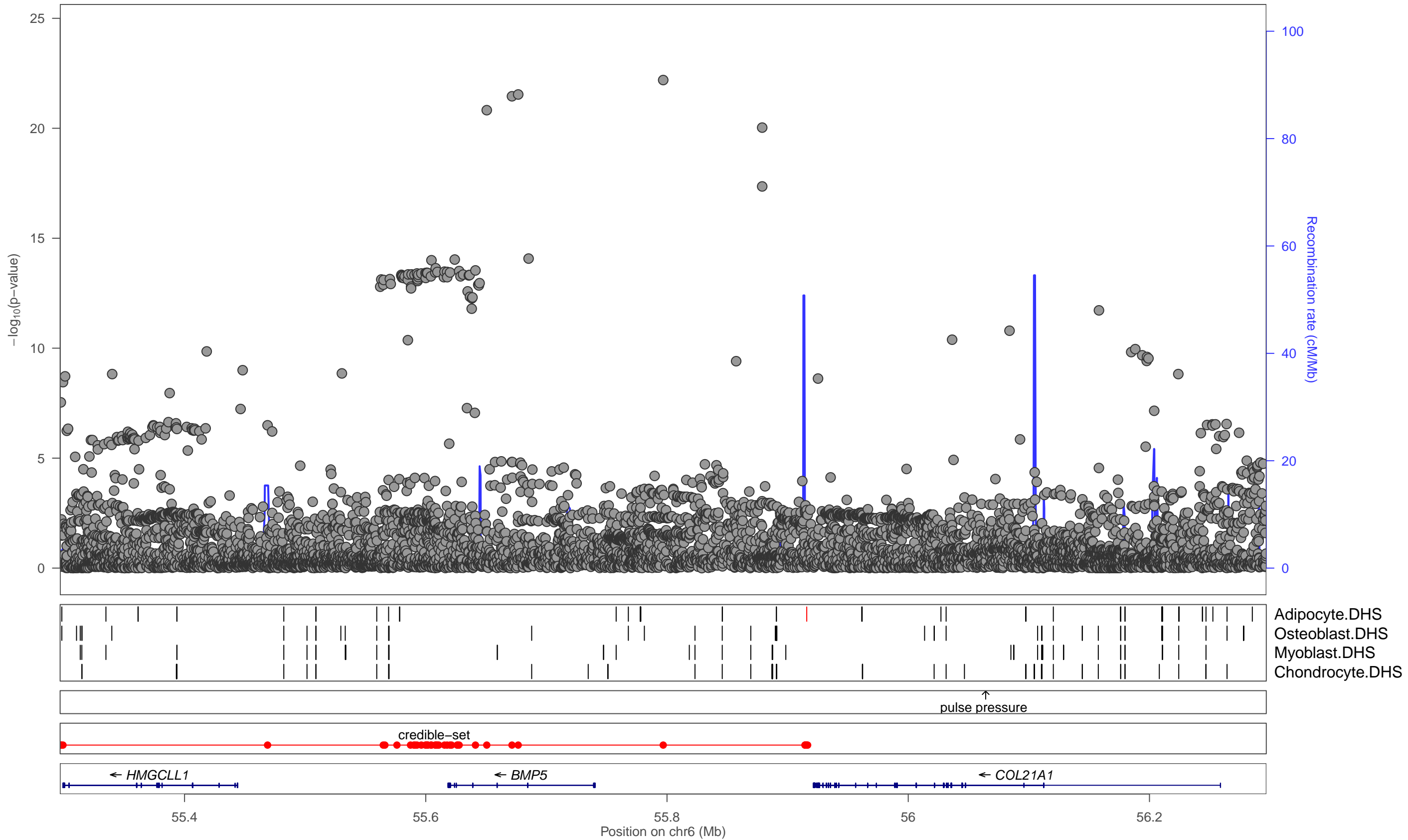
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4715541	6	55.26353	2.4430	credible-set	red
rs6936510	6	55.26436	2.4681	credible-set	red
rs6913781	6	55.26446	2.2956	credible-set	red
rs11295935	6	55.26495	2.2514	credible-set	red
rs6918921	6	55.26496	2.4584	credible-set	red
rs1502199	6	55.26502	2.5710	credible-set	red
rs1502200	6	55.26540	2.4388	credible-set	red
rs5876448	6	55.26546	2.4884	credible-set	red
rs1502201	6	55.26550	2.5457	credible-set	red
rs6920497	6	55.26569	2.2808	credible-set	red
rs6900273	6	55.26575	2.3746	credible-set	red
rs9367634	6	55.26579	2.4651	credible-set	red
rs1546296	6	55.26632	2.3761	credible-set	red
rs1546297	6	55.26639	2.4845	credible-set	red
rs9370418	6	55.26662	2.4566	credible-set	red
rs12529201	6	55.26672	2.0730	credible-set	red
rs72986079	6	55.41836	2.0700	credible-set	red
rs76768932	6	55.46884	3.3783	credible-set	red
rs77606322	6	55.47263	2.6350	credible-set	red
rs13204733	6	55.56611	2.3393	credible-set	red
rs13194687	6	55.57608	2.6010	credible-set	red
rs72865346	6	55.57977	2.0501	credible-set	red
rs76067990	6	55.58546	2.0421	credible-set	red
rs13219706	6	55.58735	2.4798	credible-set	red
rs72865363	6	55.58826	2.0069	credible-set	red
rs13217868	6	55.59015	2.5262	credible-set	red
rs72865369	6	55.59070	2.0463	credible-set	red
rs72865374	6	55.59272	2.0795	credible-set	red
rs72865385	6	55.59386	2.0089	credible-set	red
rs72865397	6	55.59632	2.0723	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72868808	6	55.59978	2.1116	credible-set	red
rs67201739	6	55.60033	2.6543	credible-set	red
rs115889248	6	55.60073	2.0829	credible-set	red
rs145338431	6	55.60085	2.0889	credible-set	red
rs146725581	6	55.60105	2.0957	credible-set	red
rs189396107	6	55.60143	2.1038	credible-set	red
rs13196508	6	55.60168	3.7884	credible-set	red
rs528132710	6	55.60471	2.0234	credible-set	red
rs72868815	6	55.60790	2.1136	credible-set	red
rs72868817	6	55.60824	2.4436	credible-set	red
rs13216589	6	55.60890	2.6626	credible-set	red
rs72868818	6	55.60968	2.1548	credible-set	red
rs13207469	6	55.61075	2.6217	credible-set	red
rs72868830	6	55.61553	2.1819	credible-set	red
rs72868831	6	55.61768	2.1715	credible-set	red
rs72868833	6	55.62010	2.1436	credible-set	red
rs72868849	6	55.62767	2.1958	credible-set	red
rs144170868	6	55.64118	2.1398	credible-set	red
rs186577183	6	55.67148	3.2710	credible-set	red
rs150445982	6	55.67662	3.4682	credible-set	red
rs150694678	6	55.79685	3.3250	credible-set	red

eBMD SNP INDEX 095



date: Wed Jun 28 21:33:04 2017

build: hg19

display range: chr6:55296853–56296853 [55296853–56296853]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:55796853

number of SNPs plotted: 7039

min P-value: 6.4E-23 [chr6:55796852]

max P-value: 1E0 [chr6:55307591]

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	56.0642	pulse pressure	Kato N	21/09/2015	Nat Genet	26390057	rs1474698	EFO_0005763	GCST003274

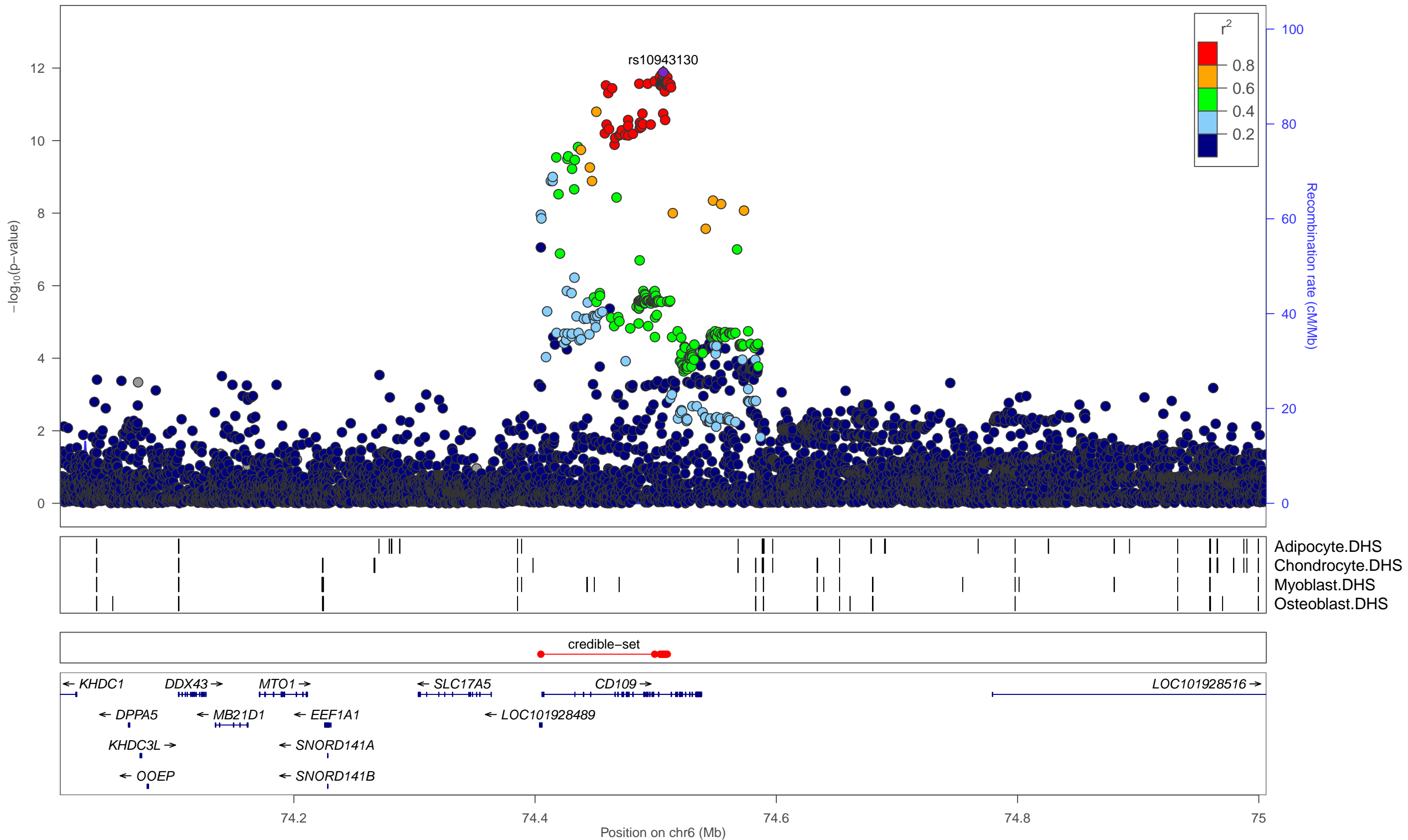
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7767401	6	55.29742	4.6125	credible-set	red
rs17750698	6	55.29790	2.2587	credible-set	red
rs1546299	6	55.29922	2.5221	credible-set	red
rs76768932	6	55.46884	2.3030	credible-set	red
rs12213105	6	55.56474	3.0082	credible-set	red
rs13204733	6	55.56611	2.5773	credible-set	red
rs13194687	6	55.57608	2.8401	credible-set	red
rs13219706	6	55.58735	2.5970	credible-set	red
rs13217868	6	55.59015	2.6562	credible-set	red
rs72865370	6	55.59119	2.8841	credible-set	red
rs72865374	6	55.59272	2.0106	credible-set	red
rs72865397	6	55.59632	2.0232	credible-set	red
rs72868808	6	55.59978	2.0473	credible-set	red
rs67201739	6	55.60033	2.9105	credible-set	red
rs115889248	6	55.60073	2.0349	credible-set	red
rs145338431	6	55.60085	2.0733	credible-set	red
rs146725581	6	55.60105	2.0488	credible-set	red
rs189396107	6	55.60143	2.0095	credible-set	red
rs13196508	6	55.60168	4.8565	credible-set	red
rs541928175	6	55.60427	2.1414	credible-set	red
rs528132710	6	55.60471	2.2565	credible-set	red
rs72868815	6	55.60790	2.0713	credible-set	red
rs72868817	6	55.60824	2.3845	credible-set	red
rs13216589	6	55.60890	2.8895	credible-set	red
rs72868818	6	55.60968	2.1316	credible-set	red
rs13207469	6	55.61075	2.9025	credible-set	red
rs72868830	6	55.61553	2.1447	credible-set	red
rs72868831	6	55.61768	2.1321	credible-set	red
rs72868833	6	55.62010	2.0748	credible-set	red
rs3798847	6	55.62136	2.0690	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35695519	6	55.62601	2.2510	credible-set	red
rs35257600	6	55.62652	2.1787	credible-set	red
rs72868849	6	55.62767	2.1655	credible-set	red
rs144170868	6	55.64118	2.2189	credible-set	red
rs186197964	6	55.65056	2.4418	credible-set	red
rs186577183	6	55.67148	3.3947	credible-set	red
rs150445982	6	55.67662	3.6199	credible-set	red
rs150694678	6	55.79685	2.6937	credible-set	red
rs4712112	6	55.91436	2.4919	credible-set	red
rs4715574	6	55.91464	2.3374	credible-set	red
rs4715575	6	55.91470	2.4487	credible-set	red
rs9296824	6	55.91573	2.4506	credible-set	red
rs9367673	6	55.91585	2.6241	credible-set	red
rs6941673	6	55.91657	2.0675	credible-set	red

eBMD SNP INDEX 096



date: Wed Jun 28 21:33:23 2017

build: hg19

display range: chr6:74006220–75006220 [74006220–75006220]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:74506220

number of SNPs plotted: 7156

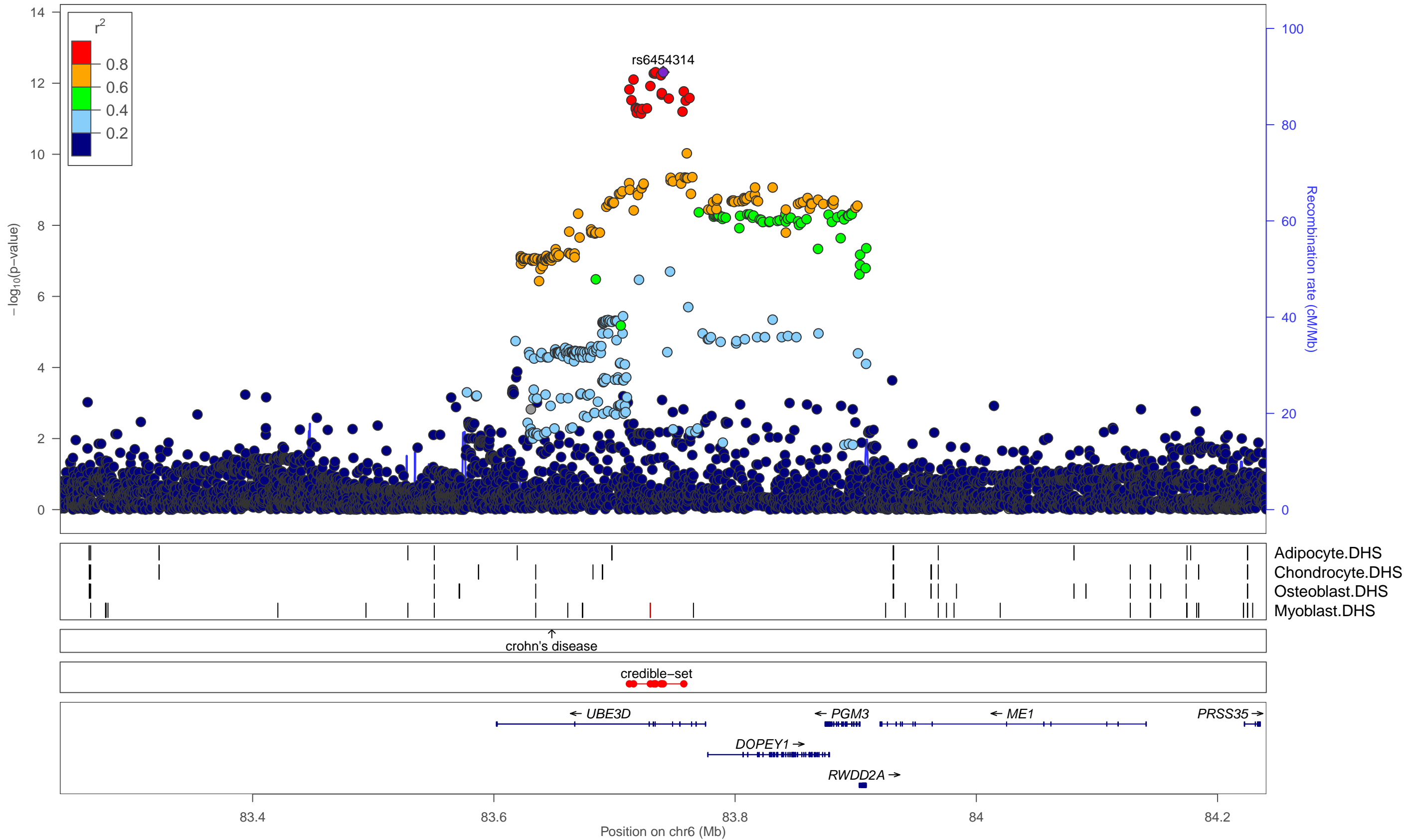
min P-value: 1.3E-12 [chr6:74506220]

max P-value: 1E0 [chr6:74182439]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs79717953	6	74.40477	4.2355	credible-set	red
rs75457567	6	74.49914	2.0253	credible-set	red
rs6925924	6	74.50373	2.1162	credible-set	red
rs6903575	6	74.50373	2.1650	credible-set	red
rs12663978	6	74.50547	2.0886	credible-set	red
rs7772434	6	74.50558	2.0463	credible-set	red
rs10943130	6	74.50622	2.2758	credible-set	red
rs10943131	6	74.50628	2.1585	credible-set	red
rs7745364	6	74.50773	2.0856	credible-set	red
rs7763254	6	74.50780	2.1158	credible-set	red
rs9442968	6	74.50856	2.0074	credible-set	red
rs7773872	6	74.50963	2.1367	credible-set	red

eBMD SNP INDEX 097



date: Wed Jun 28 21:33:21 2017

build: hg19

display range: chr6:83240400–84240400 [83240400–84240400]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:83740400

number of SNPs plotted: 5265

min P-value: 4.9E-13 [chr6:83734025]

max P-value: 1E0 [chr6:83265485]

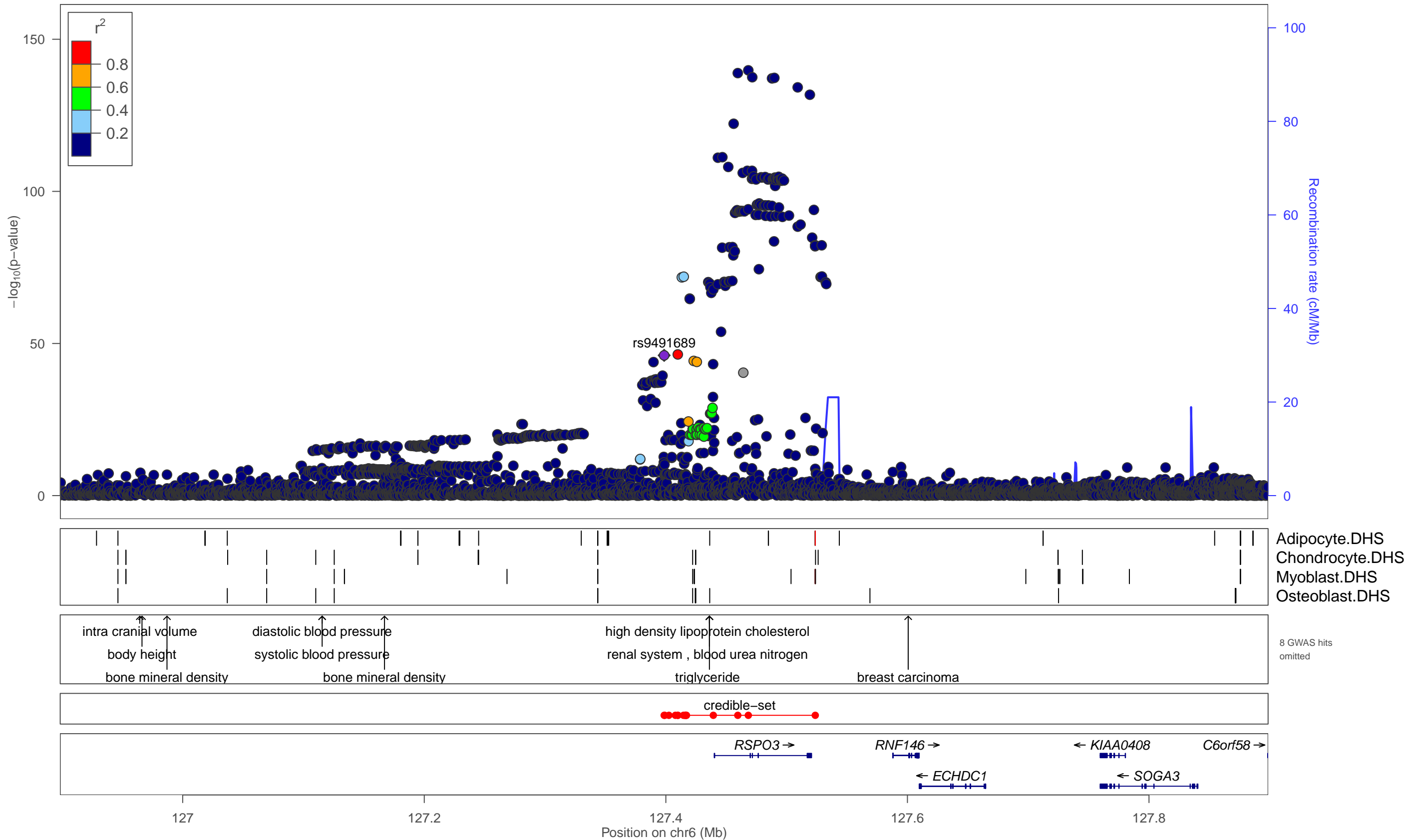
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	83.64806	crohn's disease	Jung ES	18/02/2016	Inflamm Bowel Dis	26891255	rs293526	EFO_0000384	GCST003360

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9341954	6	83.71234	2.1340	credible-set	red
rs4434446	6	83.71579	2.4341	credible-set	red
rs6926954	6	83.72974	2.2421	credible-set	red
rs34105789	6	83.73258	2.6210	credible-set	red
rs4235816	6	83.73378	2.6121	credible-set	red
rs719639	6	83.73403	2.6588	credible-set	red
rs9353118	6	83.73852	2.5619	credible-set	red
rs4526167	6	83.73923	2.0240	credible-set	red
rs6454314	6	83.74040	2.6587	credible-set	red
rs6913642	6	83.75745	2.0747	credible-set	red

eBMD SNP INDEX 098



date: Wed Jun 28 21:33:17 2017

build: hg19

display range: chr6:126898595–127898595 [126898595–127898595]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:127398595

number of SNPs plotted: 4820

min P-value: 1.6E-140 [chr6:127468274]

max P-value: 1E0 [chr6:127059685]

omitted GWAS Hits: chr6:127.60063–breast carcinoma, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

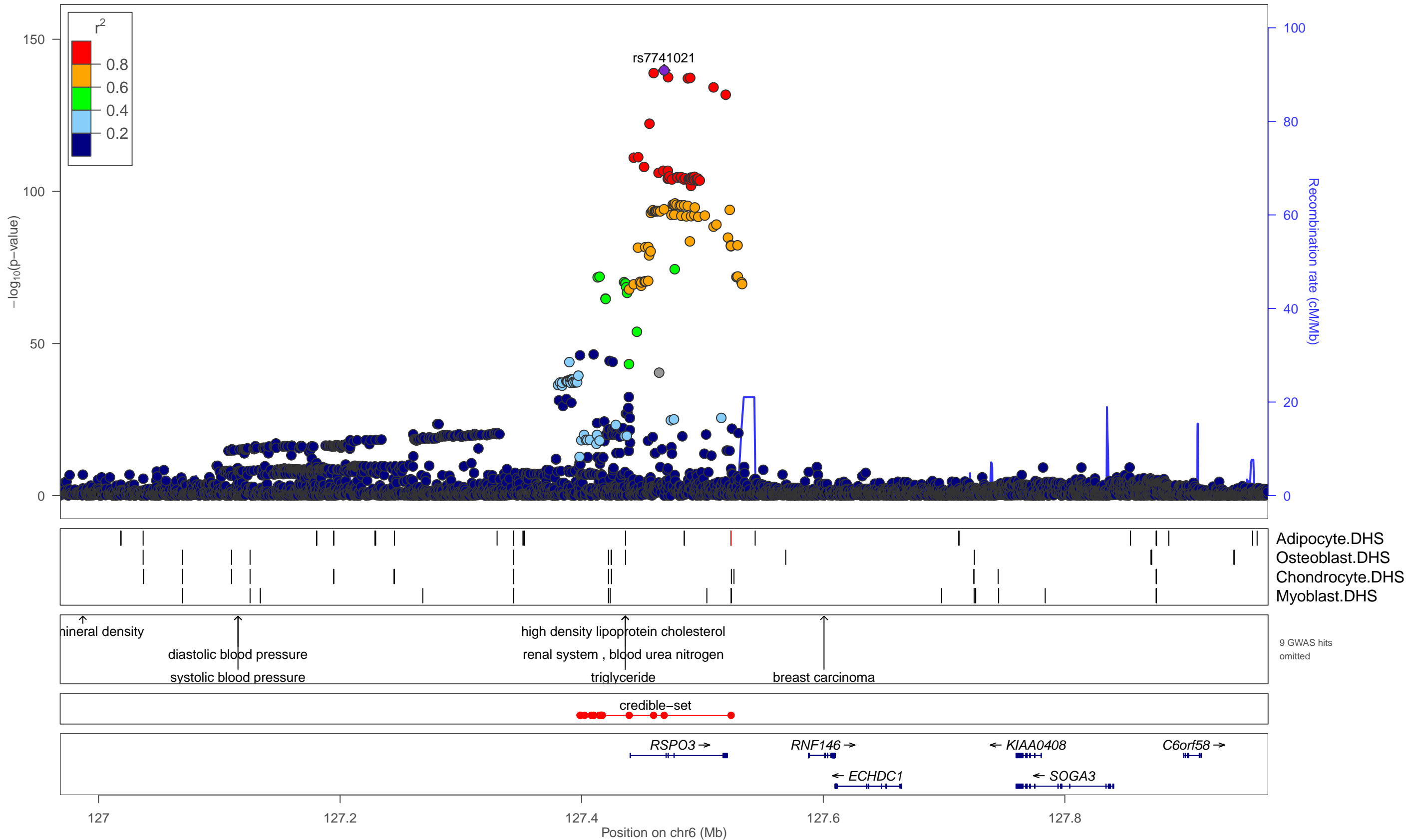
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	126.9645	intra cranial volume	Ikram MA	15/04/2012	Nat Genet	22504418	rs4273712	EFO_0004886	GCST001483
6	126.9663	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs4549631	EFO_0004339	GCST000174
6	126.9870	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs1262476	EFO_0003923	GCST002496
6	127.1155	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs13209747	EFO_0006336	GCST002143
6	127.1155	systolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs13209747	EFO_0006335	GCST002143
6	127.1671	bone mineral density	Duncan EL	21/04/2011	PLoS Genet	21533022	rs13204965	EFO_0003923	GCST001050
6	127.1671	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13204965	EFO_0003923	GCST001482
6	127.4361	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs1936800	EFO_0004612	GCST002223
6	127.4361	renal system , blood urea nitrogen	Okada Y	15/07/2012	Nat Genet	22797727	rs1936800	EFO_0004742, EFO_0004741	GCST001610
6	127.4361	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs1936800	EFO_0004530	GCST002216
6	127.4400	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs577721086	EFO_0007701	GCST003388
6	127.4526	waist–hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs9491696	EFO_0004343	GCST000829
6	127.4561	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs9491697	EFO_0000384	GCST001729
6	127.4683	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0003923	GCST002334
6	127.4683	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0004514	GCST002335
6	127.4683	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0005654	GCST002333
6	127.4936	uric acid	Kim YJ	11/09/2011	Nat Genet	21909109	rs6569474	EFO_0004761	GCST001233
6	127.5092	waist–hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs7745274	EFO_0004343	GCST001954
6	127.6006	breast carcinoma	Gold B	11/03/2008	Proc Natl Acad Sci U S A	18326623	rs2180341	EFO_0000305	GCST000162

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9491689	6	127.3986	2.7144	credible-set	red
rs727331	6	127.3991	2.1218	credible-set	red
rs2800720	6	127.4025	2.0616	credible-set	red
rs2800727	6	127.4079	2.0256	credible-set	red
rs4580892	6	127.4099	2.8269	credible-set	red
rs10456964	6	127.4099	2.0231	credible-set	red
rs719728	6	127.4146	2.1921	credible-set	red
rs2800729	6	127.4158	2.1855	credible-set	red
rs2800730	6	127.4161	2.1359	credible-set	red
rs2800732	6	127.4165	2.0780	credible-set	red
rs2800733	6	127.4169	2.2244	credible-set	red
rs2800734	6	127.4170	2.0830	credible-set	red
rs2800709	6	127.4393	2.2857	credible-set	red
rs9482773	6	127.4596	2.4936	credible-set	red
rs7741021	6	127.4683	4.4502	credible-set	red
rs185909861	6	127.5237	2.7556	credible-set	red

eBMD SNP INDEX 099



date: Wed Jun 28 21:33:17 2017

build: hg19

display range: chr6:126968274–127968274 [126968274–127968274]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:127468274

number of SNPs plotted: 4999

min P-value: 1.6E-140 [chr6:127468274]

max P-value: 1E0 [chr6:127059685]

omitted GWAS Hits: chr6:127.436064–high density lipoprotein cholesterol , NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

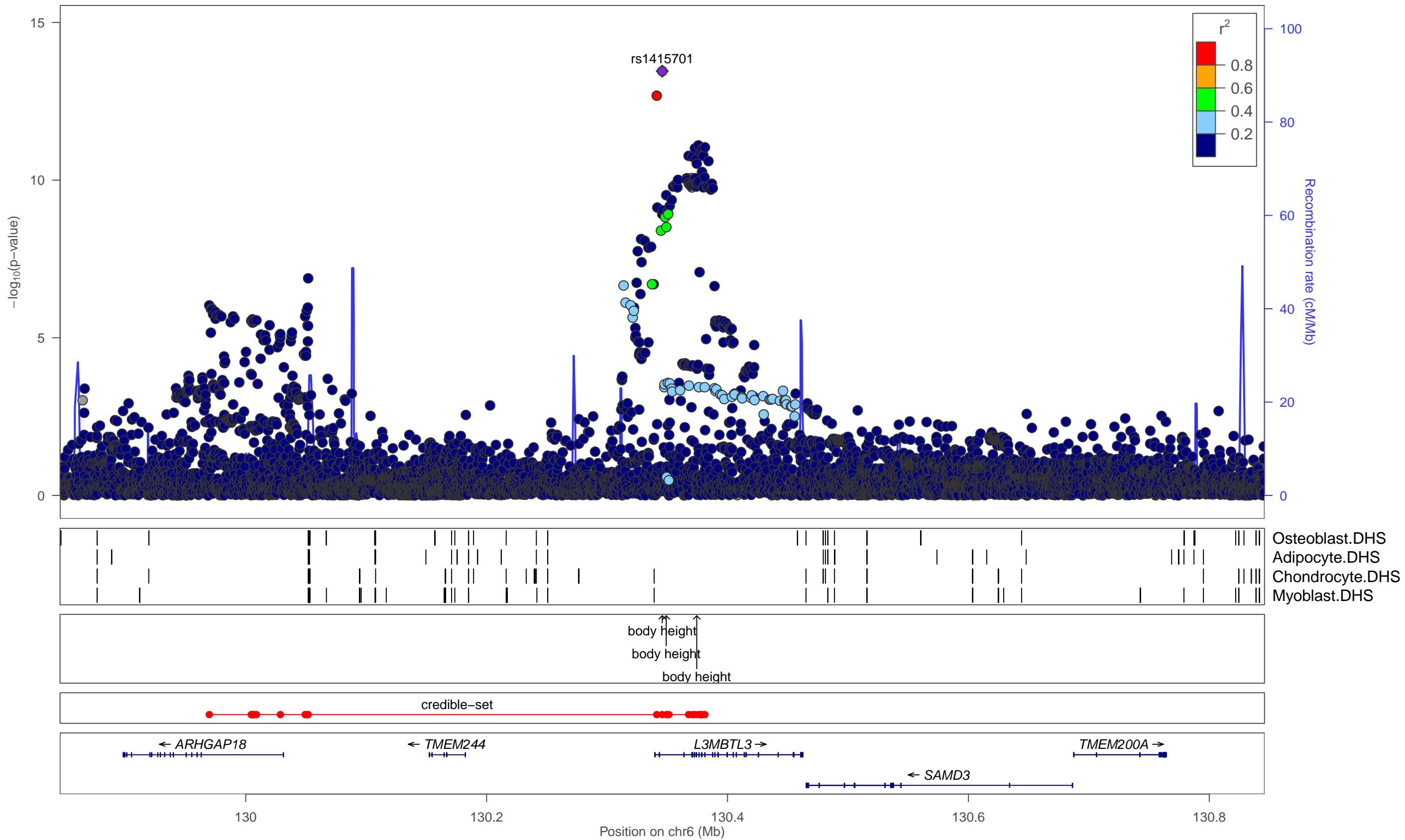
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	126.9870	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs1262476	EFO_0003923	GCST002496
6	127.1155	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs13209747	EFO_0006336	GCST002143
6	127.1155	systolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs13209747	EFO_0006335	GCST002143
6	127.1671	bone mineral density	Duncan EL	21/04/2011	PLoS Genet	21533022	rs13204965	EFO_0003923	GCST001050
6	127.1671	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13204965	EFO_0003923	GCST001482
6	127.4361	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs1936800	EFO_0004612	GCST002223
6	127.4361	renal system , blood urea nitrogen	Okada Y	15/07/2012	Nat Genet	22797727	rs1936800	EFO_0004742, EFO_0004741	GCST001610
6	127.4361	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs1936800	EFO_0004530	GCST002216
6	127.4400	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs577721086	EFO_0007701	GCST003388
6	127.4526	waist–hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs9491696	EFO_0004343	GCST000829
6	127.4561	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs9491697	EFO_0000384	GCST001729
6	127.4683	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0003923	GCST002334
6	127.4683	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0004514	GCST002335
6	127.4683	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7741021	EFO_0005654	GCST002333
6	127.4936	uric acid	Kim YJ	11/09/2011	Nat Genet	21909109	rs6569474	EFO_0004761	GCST001233
6	127.5092	waist–hip ratio	Berndt SI	7/04/2013	Nat Genet	23563607	rs7745274	EFO_0004343	GCST001954
6	127.6006	breast carcinoma	Gold B	11/03/2008	Proc Natl Acad Sci U S A	18326623	rs2180341	EFO_0000305	GCST000162

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9491689	6	127.3986	2.7313	credible-set	red
rs727331	6	127.3991	2.1403	credible-set	red
rs2800720	6	127.4025	2.0811	credible-set	red
rs2800727	6	127.4079	2.0404	credible-set	red
rs4580892	6	127.4099	2.8410	credible-set	red
rs10456964	6	127.4099	2.0282	credible-set	red
rs719728	6	127.4146	2.2163	credible-set	red
rs2800729	6	127.4158	2.2018	credible-set	red
rs2800730	6	127.4161	2.1597	credible-set	red
rs2800732	6	127.4165	2.0986	credible-set	red
rs2800733	6	127.4169	2.2371	credible-set	red
rs2800734	6	127.4170	2.0925	credible-set	red
rs2800709	6	127.4393	2.2867	credible-set	red
rs9482773	6	127.4596	2.5048	credible-set	red
rs7741021	6	127.4683	4.4696	credible-set	red
rs185909861	6	127.5237	2.7538	credible-set	red

eBMD SNP INDEX 100



date: Wed Jun 28 21:33:17 2017

build: hg19

display range: chr6:129845835–130845835 [129845835–130845835]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:130345835

number of SNPs plotted: 6938

min P-value: 3.5E-14 [chr6:130345835]

max P-value: 1E0 [chr6:129921222]

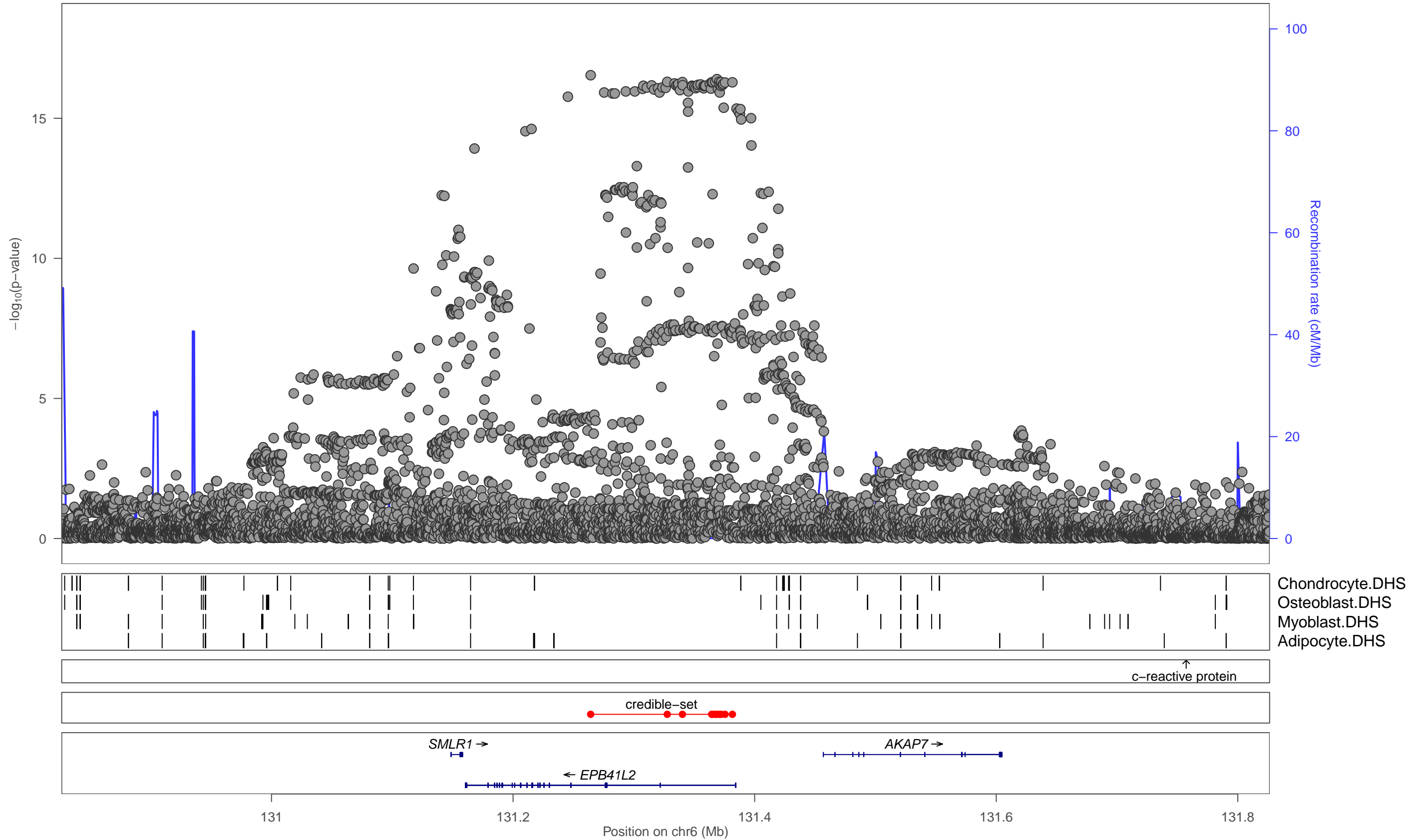
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	130.3458	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs1415701	EFO_0004339	GCST001956
6	130.3458	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs1415701	EFO_0004339	GCST002702
6	130.3491	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6569648	EFO_0004339	GCST000817
6	130.3745	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs7740107	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35138402	6	129.9698	2.0149	credible-set	red
rs12210003	6	130.0046	2.3916	credible-set	red
rs35365927	6	130.0050	2.4124	credible-set	red
rs6920979	6	130.0057	2.0885	credible-set	red
rs11757701	6	130.0057	2.4496	credible-set	red
rs7758905	6	130.0064	2.3538	credible-set	red
rs35062867	6	130.0067	2.4055	credible-set	red
rs34040911	6	130.0069	2.4038	credible-set	red
rs12207835	6	130.0089	2.3341	credible-set	red
rs12212045	6	130.0288	2.0491	credible-set	red
rs6925946	6	130.0493	2.1161	credible-set	red
rs7753327	6	130.0506	2.3039	credible-set	red
rs6938664	6	130.0515	2.4542	credible-set	red
rs6900079	6	130.0519	2.0908	credible-set	red
rs113898003	6	130.3412	2.4894	credible-set	red
rs1415701	6	130.3458	3.2639	credible-set	red
rs12530176	6	130.3495	3.5201	credible-set	red
rs57844651	6	130.3513	3.0488	credible-set	red
rs7744830	6	130.3677	2.1134	credible-set	red
rs142539365	6	130.3707	2.0456	credible-set	red
rs6914670	6	130.3730	2.5034	credible-set	red
rs6900473	6	130.3758	2.6391	credible-set	red
rs11759018	6	130.3778	2.2238	credible-set	red
rs11752200	6	130.3778	2.2226	credible-set	red
rs12661232	6	130.3792	2.4052	credible-set	red
rs12201492	6	130.3793	2.3960	credible-set	red
rs7451021	6	130.3812	2.5229	credible-set	red

eBMD SNP INDEX 101



date: Wed Jun 28 21:33:14 2017

build: hg19

display range: chr6:130826319–131826319 [130826319–131826319]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:131326319

number of SNPs plotted: 6637

min P-value: 2.9E-17 [chr6:131264244]

max P-value: 1E0 [chr6:130830089]

Warning: No usable LD information for reference SNP.

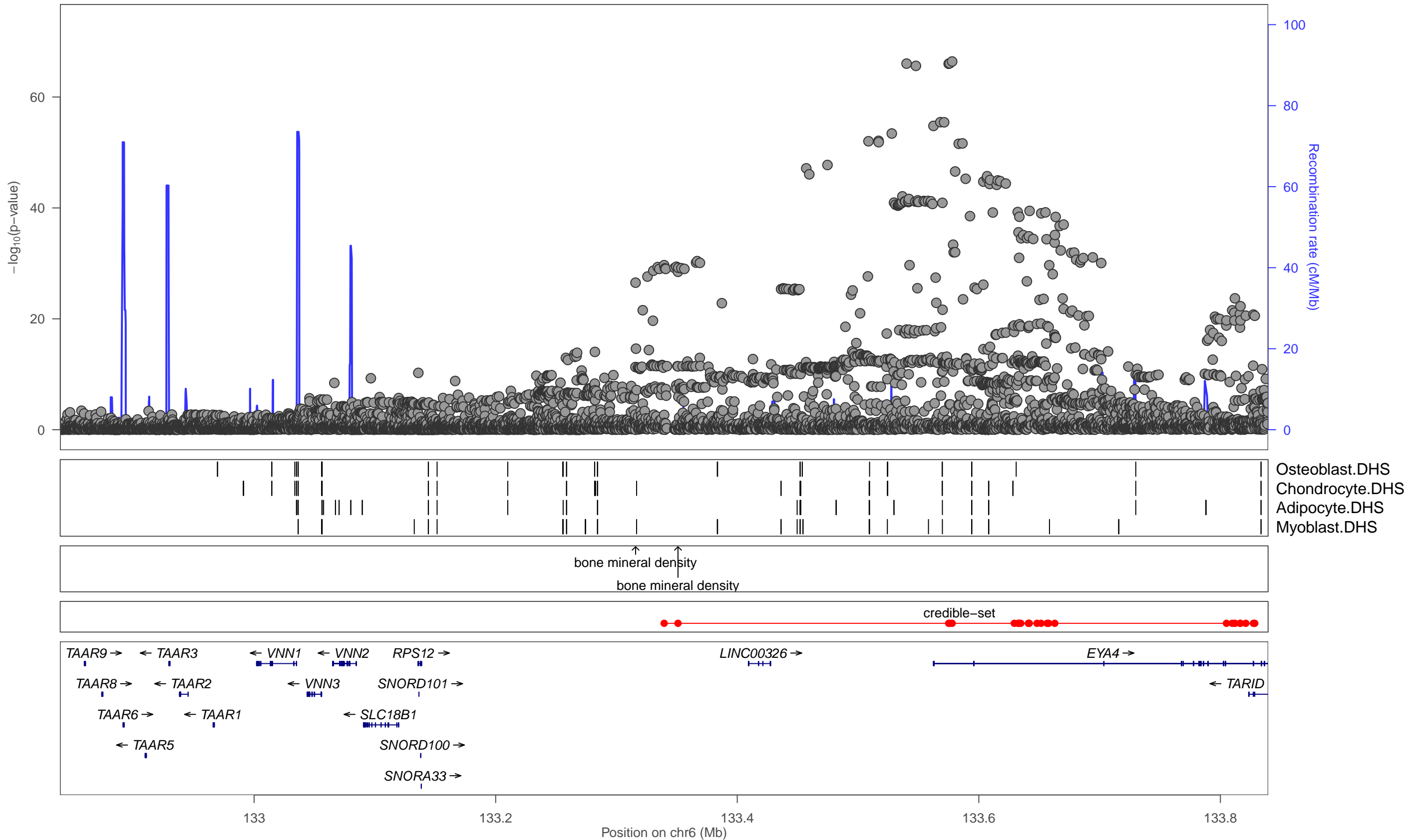
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	131.7572	c-reactive protein	Vinayagamoorthy N	24/04/2014	PLoS One	24763700	rs9375813	EFO_0004458	GCST002424

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4897477	6	131.2642	2.3188	credible-set	red
rs62423598	6	131.3276	2.0311	credible-set	red
rs56163502	6	131.3402	2.0208	credible-set	red
rs62422365	6	131.3644	2.0149	credible-set	red
rs7758016	6	131.3654	2.0235	credible-set	red
rs9483206	6	131.3674	2.0382	credible-set	red
rs6935108	6	131.3688	2.1296	credible-set	red
rs4895908	6	131.3707	2.0295	credible-set	red
rs62422380	6	131.3723	2.0208	credible-set	red
rs148001060	6	131.3755	2.0038	credible-set	red
rs6916024	6	131.3816	2.0126	credible-set	red

eBMD SNP INDEX 102



date: Wed Jun 28 21:33:15 2017

build: hg19

display range: chr6:132839486–133839486 [132839486–133839486]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:133339486

number of SNPs plotted: 6684

min P-value: 3.9E-67 [chr6:133577921]

max P-value: 1E0 [chr6:132863240]

Warning: No usable LD information for reference SNP.

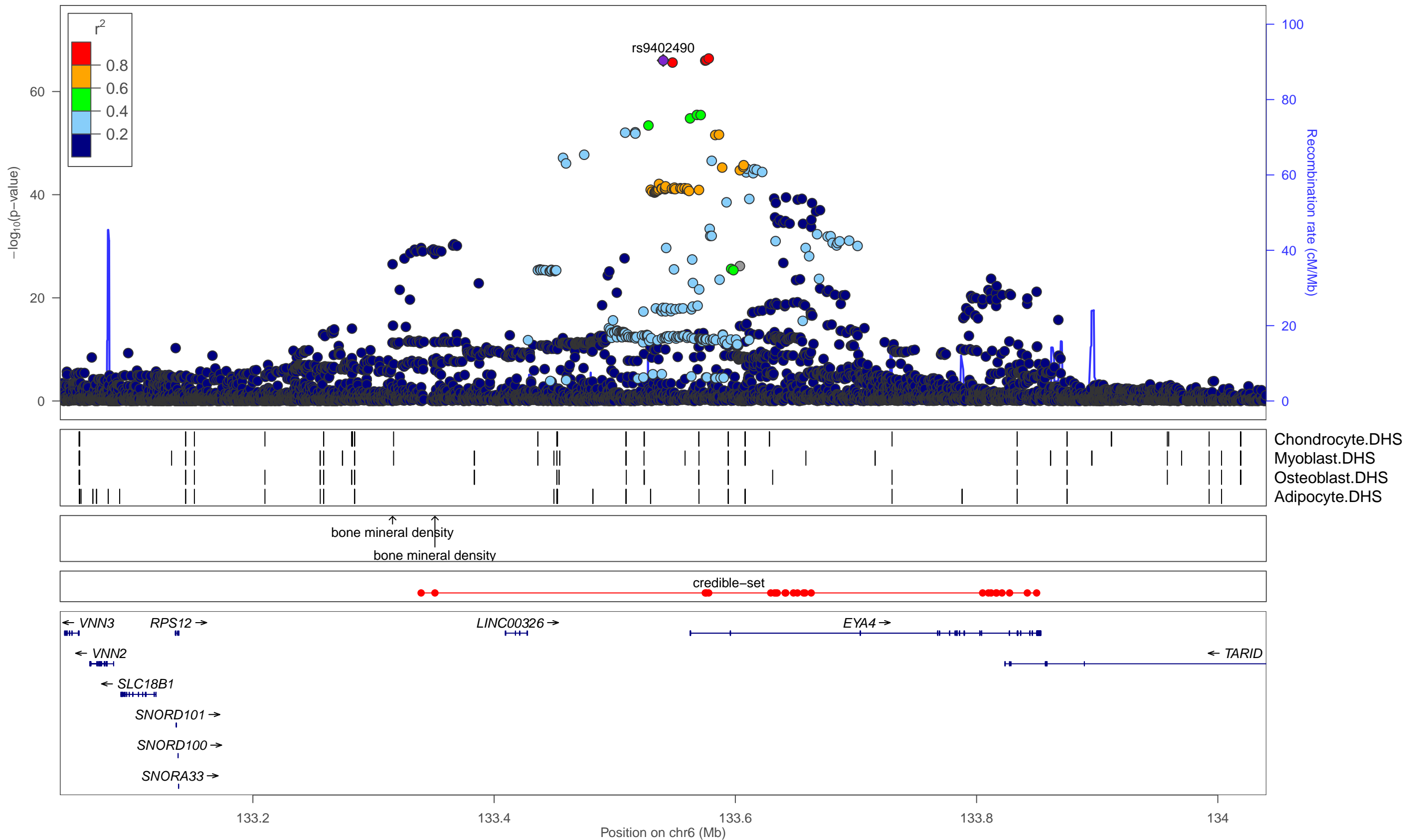
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	133.3158	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs271170	EFO_0003923	GCST001870
6	133.3509	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3012465	EFO_0003923	GCST002493

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10713212	6	133.3395	3.0990	credible-set	red
rs3012465	6	133.3509	3.8515	credible-set	red
rs6903443	6	133.5750	3.0926	credible-set	red
rs4895959	6	133.5759	3.1916	credible-set	red
rs3777787	6	133.5779	3.5815	credible-set	red
rs72991923	6	133.6293	2.5213	credible-set	red
rs67684955	6	133.6324	2.0340	credible-set	red
rs7747163	6	133.6337	2.3378	credible-set	red
rs17242354	6	133.6347	2.1022	credible-set	red
rs13218103	6	133.6410	2.0216	credible-set	red
rs13218570	6	133.6413	2.1036	credible-set	red
rs6926046	6	133.6418	2.1332	credible-set	red
rs17062356	6	133.6482	2.3847	credible-set	red
rs13194374	6	133.6515	2.4421	credible-set	red
rs66480937	6	133.6566	2.8730	credible-set	red
rs72993984	6	133.6578	2.7064	credible-set	red
rs34353709	6	133.6629	2.0500	credible-set	red
rs212771	6	133.8050	2.2176	credible-set	red
rs147626179	6	133.8098	2.4028	credible-set	red
rs547545	6	133.8120	3.5968	credible-set	red
rs667890	6	133.8162	2.4931	credible-set	red
rs142398992	6	133.8166	2.6434	credible-set	red
rs561826	6	133.8211	2.2635	credible-set	red
rs2277083	6	133.8274	2.3414	credible-set	red
rs6913726	6	133.8284	2.1745	credible-set	red

eBMD SNP INDEX 103



date: Wed Jun 28 21:33:28 2017

build: hg19

display range: chr6:133040195–134040195 [133040195–134040195]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:133540195

number of SNPs plotted: 6170

min P-value: 3.9E-67 [chr6:133577921]

max P-value: 1E0 [chr6:133119097]

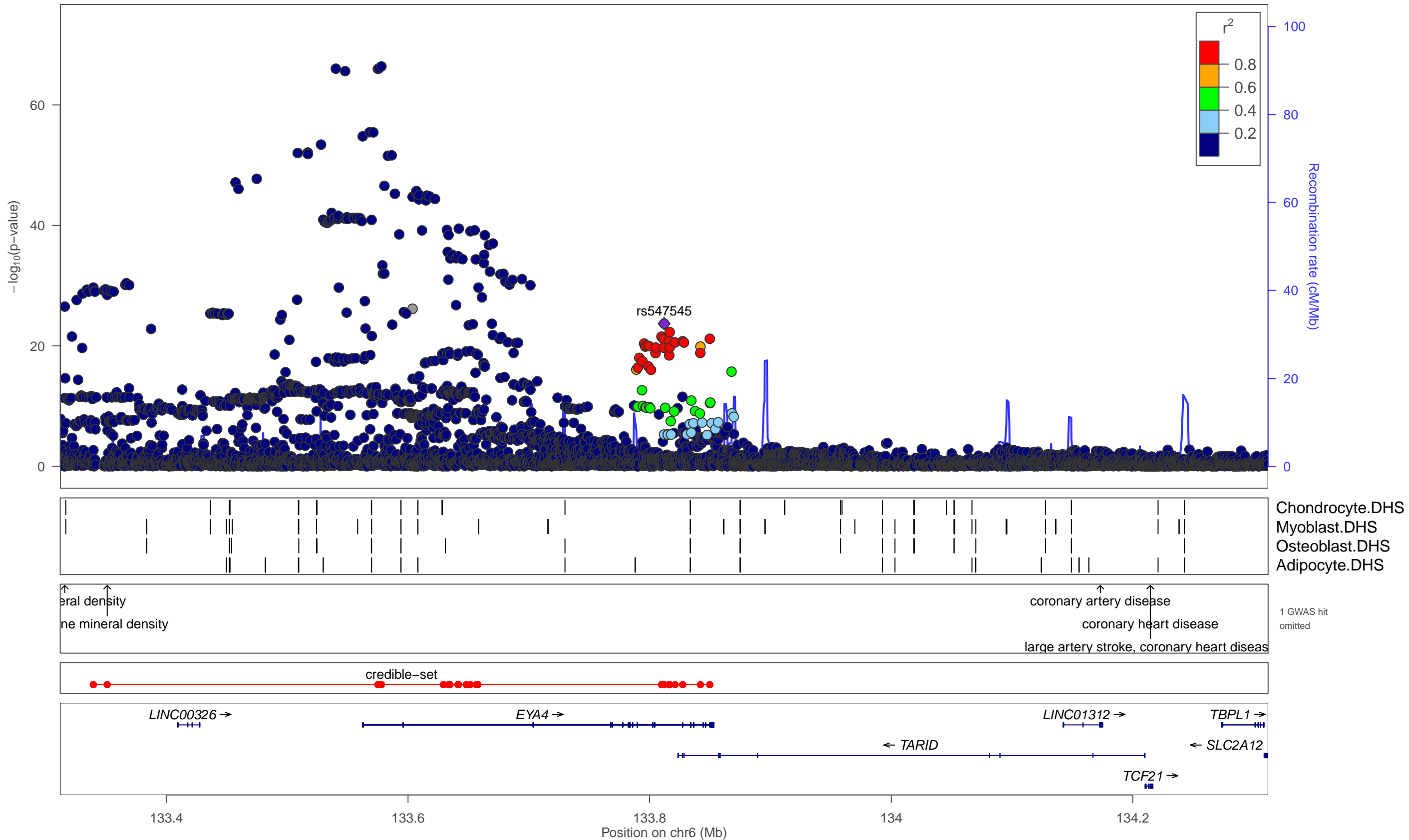
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	133.3158	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs271170	EFO_0003923	GCST001870
6	133.3509	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3012465	EFO_0003923	GCST002493

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10713212	6	133.3395	3.0112	credible-set	red
rs3012465	6	133.3509	3.8503	credible-set	red
rs6903443	6	133.5750	3.0408	credible-set	red
rs4895959	6	133.5759	3.1493	credible-set	red
rs3777787	6	133.5779	3.5523	credible-set	red
rs72991923	6	133.6293	2.4221	credible-set	red
rs67684955	6	133.6324	2.0134	credible-set	red
rs7747163	6	133.6337	2.3139	credible-set	red
rs17242354	6	133.6347	2.0582	credible-set	red
rs13218570	6	133.6413	2.0623	credible-set	red
rs6926046	6	133.6418	2.0913	credible-set	red
rs17062356	6	133.6482	2.3356	credible-set	red
rs13194374	6	133.6515	2.4105	credible-set	red
rs66480937	6	133.6566	2.8467	credible-set	red
rs72993984	6	133.6578	2.6700	credible-set	red
rs34353709	6	133.6629	2.0221	credible-set	red
rs212771	6	133.8050	2.0200	credible-set	red
rs147626179	6	133.8098	2.2054	credible-set	red
rs547545	6	133.8120	3.3070	credible-set	red
rs667890	6	133.8162	2.3120	credible-set	red
rs142398992	6	133.8166	2.4491	credible-set	red
rs561826	6	133.8211	2.0681	credible-set	red
rs2277083	6	133.8274	2.1567	credible-set	red
rs10872408	6	133.8420	2.9289	credible-set	red
rs3822939	6	133.8498	2.5825	credible-set	red

eBMD SNP INDEX 104



date: Wed Jun 28 21:33:43 2017

build: hg19

display range: chr6:133312022–134312022 [133312022–134312022]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:133812022

number of SNPs plotted: 5662

min P-value: 3.9E-67 [chr6:133577921]

max P-value: 1E0 [chr6:133315720]

omitted GWAS Hits: NA

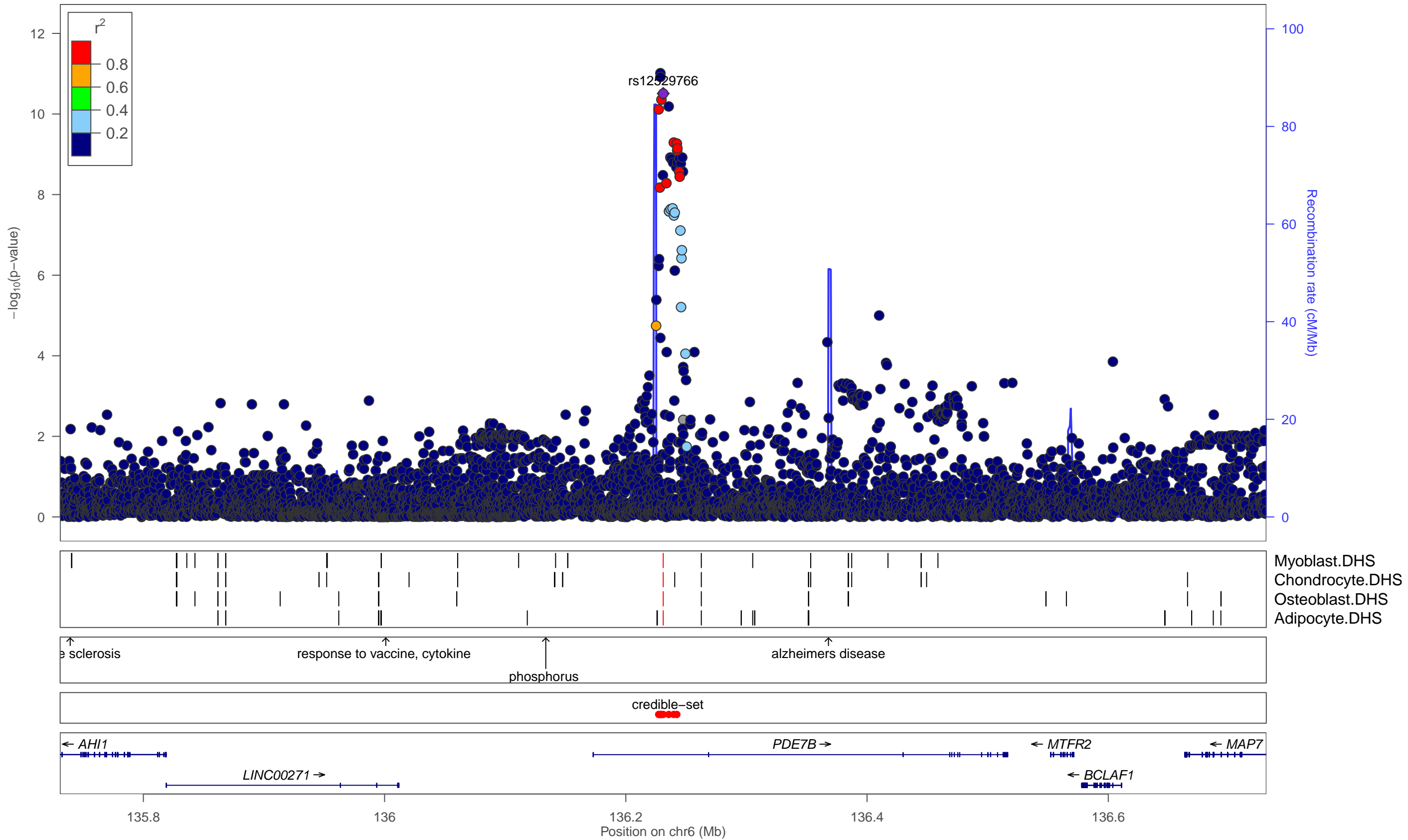
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	133.3158	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs271170	EFO_0003923	GCST001870
6	133.3509	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs3012465	EFO_0003923	GCST002493
6	134.1732	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs12202017	EFO_0000378	GCST003116
6	134.2145	coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs12190287	EFO_0001645	GCST002289
6	134.2145	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs12190287	EFO_0001645	GCST000998
6	134.2145	large artery stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs12190287	EFO_0005524, EFO_0001645	GCST002290
6	134.2145	stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs12190287	EFO_0000712, EFO_0001645	GCST002287

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10713212	6	133.3395	2.9908	credible-set	red
rs3012465	6	133.3509	3.7800	credible-set	red
rs6903443	6	133.5750	3.0134	credible-set	red
rs4895959	6	133.5759	3.1142	credible-set	red
rs3777787	6	133.5779	3.5007	credible-set	red
rs72991923	6	133.6293	2.3846	credible-set	red
rs7747163	6	133.6337	2.2704	credible-set	red
rs17242354	6	133.6347	2.0343	credible-set	red
rs13218570	6	133.6413	2.0224	credible-set	red
rs6926046	6	133.6418	2.0607	credible-set	red
rs17062356	6	133.6482	2.3076	credible-set	red
rs13194374	6	133.6515	2.3681	credible-set	red
rs66480937	6	133.6566	2.7911	credible-set	red
rs72993984	6	133.6578	2.6337	credible-set	red
rs147626179	6	133.8098	2.1739	credible-set	red
rs547545	6	133.8120	3.2474	credible-set	red
rs667890	6	133.8162	2.2624	credible-set	red
rs142398992	6	133.8166	2.4186	credible-set	red
rs561826	6	133.8211	2.0479	credible-set	red
rs2277083	6	133.8274	2.1246	credible-set	red
rs10872408	6	133.8420	2.8914	credible-set	red
rs3822939	6	133.8498	2.5396	credible-set	red

eBMD SNP INDEX 105



date: Wed Jun 28 21:33:41 2017

build: hg19

display range: chr6:135731011–136731011 [135731011–136731011]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:136231011

number of SNPs plotted: 5360

min P-value: 9.7E-12 [chr6:136228675]

max P-value: 1E0 [chr6:135746669]

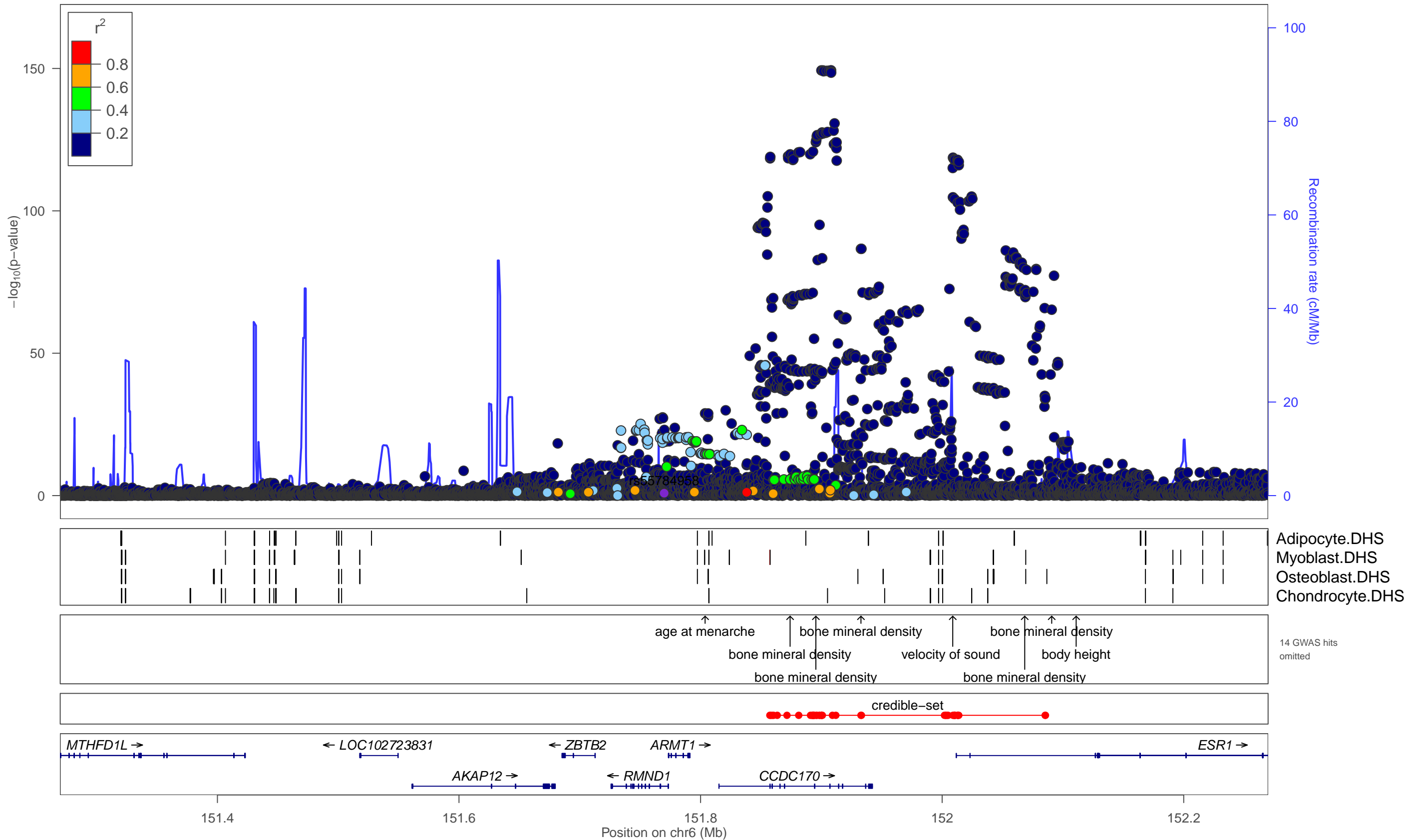
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	135.7394	multiple sclerosis	Sawcer S	11/08/2011	Nature	21833088	rs11154801	EFO_0003885	GCST001198
6	136.0010	response to vaccine, cytokine	Kennedy RB	19/05/2012	Hum Genet	22610502	rs9389316	EFO_0004645, EFO_0004873	GCST001535
6	136.1337	phosphorus	Kestenbaum B	17/06/2010	J Am Soc Nephrol	20558539	rs947583	EFO_0004861	GCST000703
6	136.3680	alzheimers disease	Sherva R	24/03/2013	Alzheimers Dement	23535033	rs11154851	EFO_0000249	GCST001915

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9376164	6	136.2273	2.5770	credible-set	red
rs12209685	6	136.2287	3.3944	credible-set	red
rs12189966	6	136.2288	3.2534	credible-set	red
rs9399171	6	136.2295	2.7692	credible-set	red
rs12529766	6	136.2310	2.9136	credible-set	red
rs12208105	6	136.2356	2.4642	credible-set	red
rs5880268	6	136.2398	2.0619	credible-set	red
rs9376165	6	136.2423	2.0451	credible-set	red

eBMD SNP INDEX 106



date: Wed Jun 28 21:33:46 2017

build: hg19

display range: chr6:151269853–152269853 [151269853–152269853]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:151769853

number of SNPs plotted: 6983

min P-value: 4.4E-150 [chr6:151908012]

max P-value: 1E0 [chr6:151306989]

omitted GWAS Hits: chr6:151.932778–bone mineral density, chr6:152.00878–velocity of sound

omitted GWAS Hits: chr6:152.090707–bone mineral density, chr6:152.110943–body height

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	151.8038	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6933660	EFO_0004703	GCST002541
6	151.8741	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9478217	EFO_0004339	NA
6	151.8955	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs6909279	EFO_0003923	GCST001870
6	151.8985	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1871859	EFO_0003923	GCST002276
6	151.9014	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs4870044	EFO_0003923	GCST000180
6	151.9018	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs4869739	EFO_0005654	GCST002333
6	151.9077	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4869742	EFO_0003923	GCST001482
6	151.9141	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3757318	EFO_0000305	GCST001937
6	151.9328	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1023940	EFO_0004339	NA
6	151.9332	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1038304	EFO_0003923	GCST000297
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000180
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000181
6	151.9367	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6929137	EFO_0003923	GCST000295
6	151.9466	dense area , mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs12665607	EFO_0006503, EFO_0005941	GCST002667
6	151.9484	breast carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs2046210	EFO_0000305	GCST001916
6	151.9484	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs2046210	EFO_0000305	GCST001930
6	151.9484	breast carcinoma	Zheng W	15/02/2009	Nat Genet	19219042	rs2046210	EFO_0000305	GCST000343
6	151.9577	breast size, breast carcinoma	Eriksson N	30/06/2012	BMC Med Genet	22747683	rs12173570	EFO_0004884, EFO_0000305	GCST001585
6	151.9874	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs9383938	EFO_0000305	GCST001683
6	152.0088	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0004514	GCST002335
6	152.0088	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0005654	GCST002333
6	152.0096	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2941740	EFO_0003923	GCST000495
6	152.0596	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2982552	EFO_0004514	GCST002335
6	152.0684	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1999805	EFO_0003923	GCST000180
6	152.0907	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2504063	EFO_0003923	GCST000494
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817

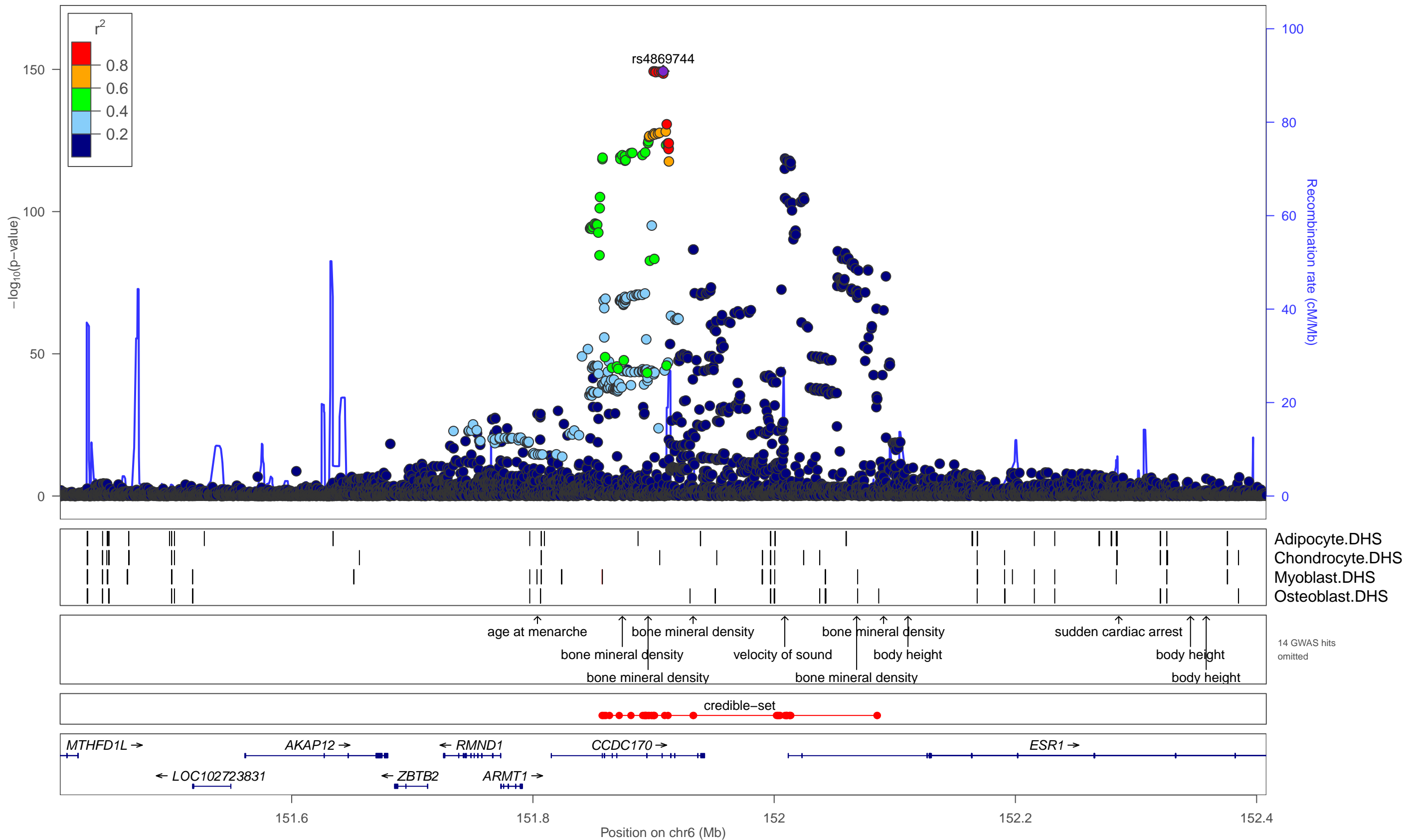
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1532401	6	151.8574	2.3576	credible-set	red
rs1482064	6	151.8581	2.5548	credible-set	red
rs4870034	6	151.8593	2.7387	credible-set	red
rs11412896	6	151.8604	2.6155	credible-set	red
rs4870035	6	151.8635	2.4850	credible-set	red
rs4870039	6	151.8715	2.6228	credible-set	red
rs6557150	6	151.8813	2.7305	credible-set	red
rs12205762	6	151.8910	2.3183	credible-set	red
rs4869737	6	151.8921	2.8818	credible-set	red
rs1817480	6	151.8928	2.1300	credible-set	red
rs12203877	6	151.8932	2.3739	credible-set	red
rs12203880	6	151.8932	2.2330	credible-set	red
rs112563803	6	151.8938	2.0702	credible-set	red
rs12205837	6	151.8943	2.3797	credible-set	red
rs12197879	6	151.8958	2.1028	credible-set	red
rs6915088	6	151.8964	2.8230	credible-set	red
rs12203469	6	151.8983	2.9905	credible-set	red
rs1871859	6	151.8985	13.6432	credible-set	red
rs9479077	6	151.9001	2.5134	credible-set	red
rs9478222	6	151.9002	2.3723	credible-set	red
rs9478223	6	151.9002	2.3719	credible-set	red
rs6913493	6	151.9008	2.3514	credible-set	red
rs9478224	6	151.9092	2.5009	credible-set	red
rs57960590	6	151.9120	2.4051	credible-set	red
rs1023940	6	151.9328	3.3038	credible-set	red
rs1038304	6	151.9332	3.7930	credible-set	red
rs74832008	6	152.0019	2.1411	credible-set	red
rs113628826	6	152.0029	2.4494	credible-set	red
rs77255806	6	152.0031	2.5325	credible-set	red
rs80234160	6	152.0042	2.8882	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs139567788	6	152.0049	2.5050	credible-set	red
rs2941741	6	152.0090	3.3603	credible-set	red
rs2941740	6	152.0096	2.8714	credible-set	red
rs142786557	6	152.0104	2.8189	credible-set	red
rs2982573	6	152.0105	2.5813	credible-set	red
rs2982572	6	152.0106	2.4200	credible-set	red
rs2982571	6	152.0127	2.7828	credible-set	red
rs3020334	6	152.0130	2.1071	credible-set	red
rs3020335	6	152.0132	2.0709	credible-set	red
rs3020336	6	152.0138	2.1739	credible-set	red
rs1890010	6	152.0853	3.1408	credible-set	red
rs2504069	6	152.0855	4.1460	credible-set	red

eBMD SNP INDEX 107



date: Wed Jun 28 21:33:46 2017

build: hg19

display range: chr6:151408012–152408012 [151408012–152408012]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:151908012

number of SNPs plotted: 6892

min P-value: 4.4E-150 [chr6:151908012]

max P-value: 1E0 [chr6:151416491]

omitted GWAS Hits: chr6:151.932778–bone mineral density, chr6:152.00878–velocity of sound

omitted GWAS Hits: chr6:152.090707–bone mineral density, chr6:152.110943–body height

omitted GWAS Hits: chr6:152.358179–body height, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	151.8038	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6933660	EFO_0004703	GCST002541
6	151.8741	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9478217	EFO_0004339	NA
6	151.8955	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs6909279	EFO_0003923	GCST001870
6	151.8985	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1871859	EFO_0003923	GCST002276
6	151.9014	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs4870044	EFO_0003923	GCST000180
6	151.9018	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs4869739	EFO_0005654	GCST002333
6	151.9077	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4869742	EFO_0003923	GCST001482
6	151.9141	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3757318	EFO_0000305	GCST001937
6	151.9328	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1023940	EFO_0004339	NA
6	151.9332	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1038304	EFO_0003923	GCST000297
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000180
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000181
6	151.9367	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6929137	EFO_0003923	GCST000295
6	151.9466	dense area , mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs12665607	EFO_0006503, EFO_0005941	GCST002667
6	151.9484	breast carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs2046210	EFO_0000305	GCST001916
6	151.9484	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs2046210	EFO_0000305	GCST001930
6	151.9484	breast carcinoma	Zheng W	15/02/2009	Nat Genet	19219042	rs2046210	EFO_0000305	GCST000343
6	151.9577	breast size, breast carcinoma	Eriksson N	30/06/2012	BMC Med Genet	22747683	rs12173570	EFO_0004884, EFO_0000305	GCST001585
6	151.9874	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs9383938	EFO_0000305	GCST001683
6	152.0088	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0004514	GCST002335
6	152.0088	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0005654	GCST002333
6	152.0096	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2941740	EFO_0003923	GCST000495
6	152.0596	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2982552	EFO_0004514	GCST002335
6	152.0684	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1999805	EFO_0003923	GCST000180
6	152.0907	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2504063	EFO_0003923	GCST000494
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817
6	152.2857	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs2982694	EFO_0004278	GCST001099
6	152.3452	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3020418	EFO_0004339	GCST002647
6	152.3582	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2982712	EFO_0004339	GCST001956

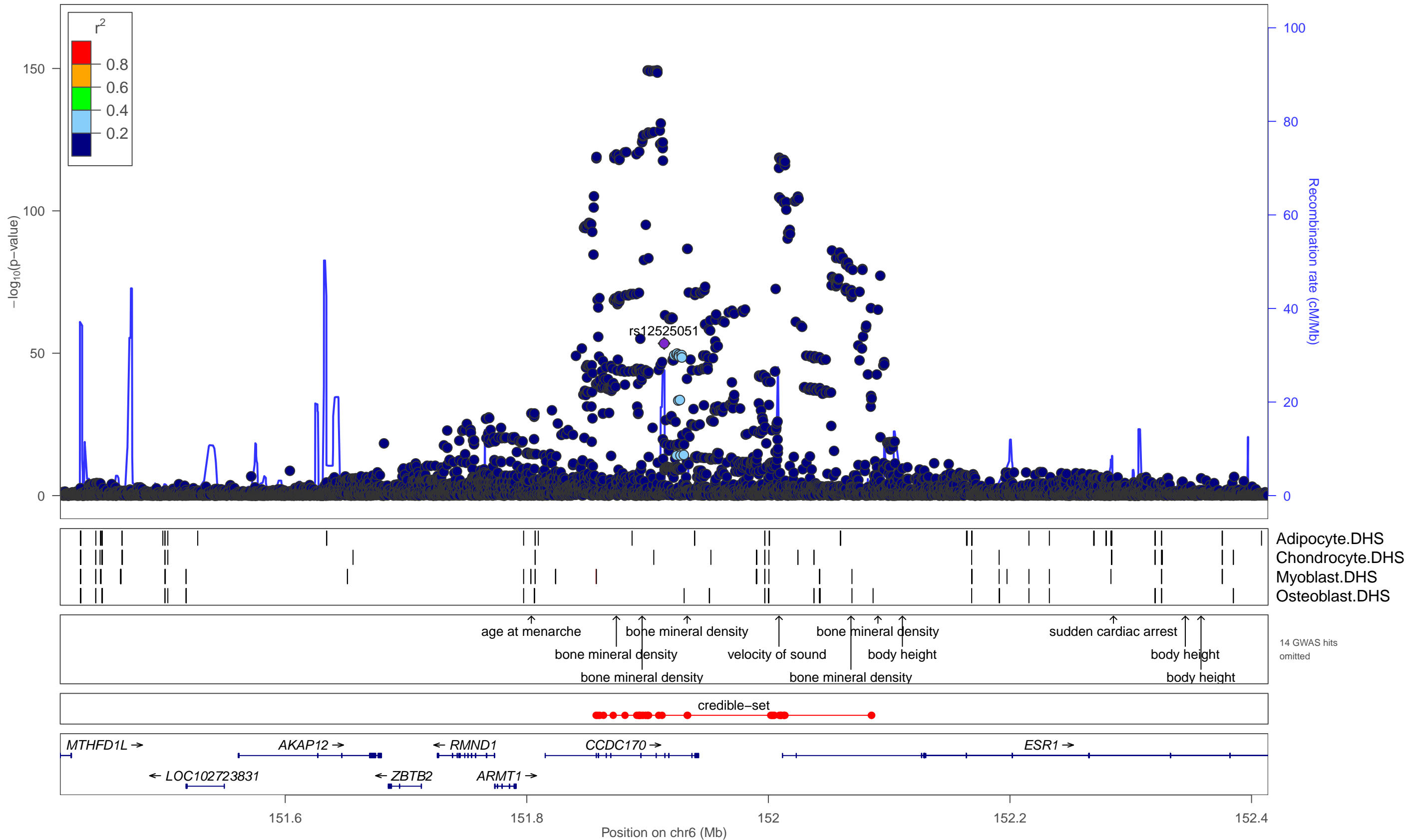
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1532401	6	151.8574	2.3406	credible-set	red
rs1482064	6	151.8581	2.5374	credible-set	red
rs4870034	6	151.8593	2.7018	credible-set	red
rs11412896	6	151.8604	2.5910	credible-set	red
rs4870035	6	151.8635	2.4849	credible-set	red
rs4870039	6	151.8715	2.6199	credible-set	red
rs6557150	6	151.8813	2.7516	credible-set	red
rs12205762	6	151.8910	2.3284	credible-set	red
rs4869737	6	151.8921	2.8704	credible-set	red
rs1817480	6	151.8928	2.0846	credible-set	red
rs12203877	6	151.8932	2.3472	credible-set	red
rs12203880	6	151.8932	2.2154	credible-set	red
rs112563803	6	151.8938	2.0056	credible-set	red
rs12205837	6	151.8943	2.3669	credible-set	red
rs12197879	6	151.8958	2.0724	credible-set	red
rs6915088	6	151.8964	2.8466	credible-set	red
rs12203469	6	151.8983	2.9793	credible-set	red
rs1871859	6	151.8985	13.6381	credible-set	red
rs9479077	6	151.9001	2.4852	credible-set	red
rs9478222	6	151.9002	2.3271	credible-set	red
rs9478223	6	151.9002	2.3635	credible-set	red
rs6913493	6	151.9008	2.3395	credible-set	red
rs9478224	6	151.9092	2.5425	credible-set	red
rs57960590	6	151.9120	2.3392	credible-set	red
rs1023940	6	151.9328	3.3010	credible-set	red
rs1038304	6	151.9332	3.8087	credible-set	red
rs74832008	6	152.0019	2.1448	credible-set	red
rs113628826	6	152.0029	2.4489	credible-set	red
rs77255806	6	152.0031	2.5109	credible-set	red
rs80234160	6	152.0042	2.8230	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs139567788	6	152.0049	2.5065	credible-set	red
rs2941741	6	152.0090	3.3605	credible-set	red
rs2941740	6	152.0096	2.8530	credible-set	red
rs142786557	6	152.0104	2.8716	credible-set	red
rs2982573	6	152.0105	2.5875	credible-set	red
rs2982572	6	152.0106	2.3562	credible-set	red
rs2982571	6	152.0127	2.7225	credible-set	red
rs3020334	6	152.0130	2.1056	credible-set	red
rs3020335	6	152.0132	2.0594	credible-set	red
rs3020336	6	152.0138	2.2087	credible-set	red
rs1890010	6	152.0853	3.1859	credible-set	red
rs2504069	6	152.0855	4.0901	credible-set	red

eBMD SNP INDEX 108



date: Wed Jun 28 21:33:44 2017

build: hg19

display range: chr6:151413710–152413710 [151413710–152413710]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:151913710

number of SNPs plotted: 6887

min P-value: 4.4E-150 [chr6:151908012]

max P-value: 1E0 [chr6:151416491]

omitted GWAS Hits: chr6:151.932778–bone mineral density, chr6:152.00878–velocity of sound

omitted GWAS Hits: chr6:152.090707–bone mineral density, chr6:152.110943–body height

omitted GWAS Hits: chr6:152.358179–body height, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	151.8038	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6933660	EFO_0004703	GCST002541
6	151.8741	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9478217	EFO_0004339	NA
6	151.8955	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs6909279	EFO_0003923	GCST001870
6	151.8985	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1871859	EFO_0003923	GCST002276
6	151.9014	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs4870044	EFO_0003923	GCST000180
6	151.9018	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs4869739	EFO_0005654	GCST002333
6	151.9077	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4869742	EFO_0003923	GCST001482
6	151.9141	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3757318	EFO_0000305	GCST001937
6	151.9328	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1023940	EFO_0004339	NA
6	151.9332	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1038304	EFO_0003923	GCST000297
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000180
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000181
6	151.9367	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6929137	EFO_0003923	GCST000295
6	151.9466	dense area , mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs12665607	EFO_0006503, EFO_0005941	GCST002667
6	151.9484	breast carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs2046210	EFO_0000305	GCST001916
6	151.9484	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs2046210	EFO_0000305	GCST001930
6	151.9484	breast carcinoma	Zheng W	15/02/2009	Nat Genet	19219042	rs2046210	EFO_0000305	GCST000343
6	151.9577	breast size, breast carcinoma	Eriksson N	30/06/2012	BMC Med Genet	22747683	rs12173570	EFO_0004884, EFO_0000305	GCST001585
6	151.9874	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs9383938	EFO_0000305	GCST001683
6	152.0088	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0004514	GCST002335
6	152.0088	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0005654	GCST002333
6	152.0096	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2941740	EFO_0003923	GCST000495
6	152.0596	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2982552	EFO_0004514	GCST002335
6	152.0684	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1999805	EFO_0003923	GCST000180
6	152.0907	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2504063	EFO_0003923	GCST000494
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817
6	152.2857	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs2982694	EFO_0004278	GCST001099
6	152.3452	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3020418	EFO_0004339	GCST002647
6	152.3582	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2982712	EFO_0004339	GCST001956

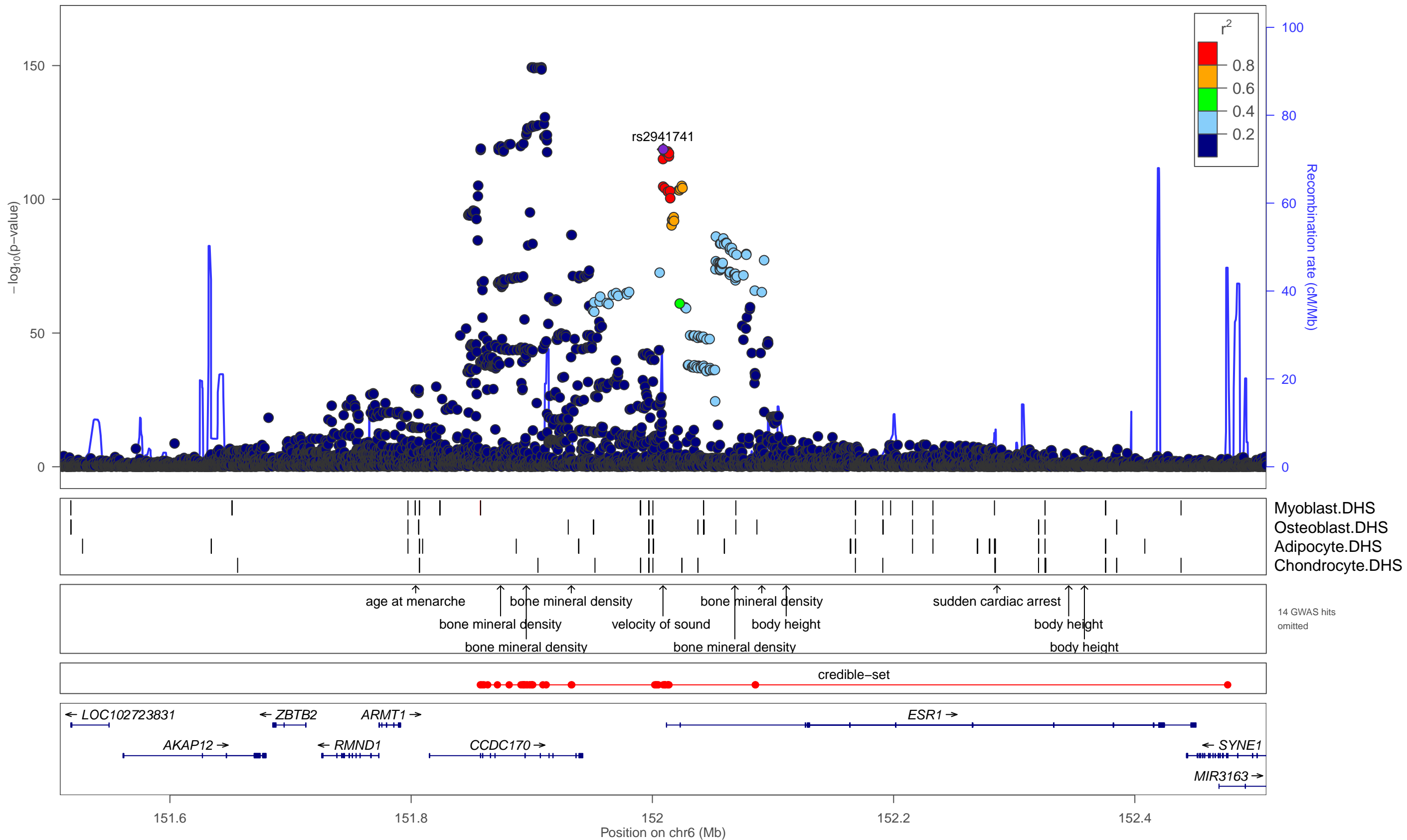
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1532401	6	151.8574	2.3324	credible-set	red
rs1482064	6	151.8581	2.5170	credible-set	red
rs4870034	6	151.8593	2.7111	credible-set	red
rs11412896	6	151.8604	2.6362	credible-set	red
rs4870035	6	151.8635	2.4974	credible-set	red
rs4870039	6	151.8715	2.6357	credible-set	red
rs6557150	6	151.8813	2.7392	credible-set	red
rs12205762	6	151.8910	2.3302	credible-set	red
rs4869737	6	151.8921	2.8539	credible-set	red
rs1817480	6	151.8928	2.0841	credible-set	red
rs12203877	6	151.8932	2.3041	credible-set	red
rs12203880	6	151.8932	2.2310	credible-set	red
rs112563803	6	151.8938	2.0605	credible-set	red
rs12205837	6	151.8943	2.3487	credible-set	red
rs12197879	6	151.8958	2.1459	credible-set	red
rs6915088	6	151.8964	2.8328	credible-set	red
rs12203469	6	151.8983	2.9854	credible-set	red
rs1871859	6	151.8985	13.6375	credible-set	red
rs9479077	6	151.9001	2.5295	credible-set	red
rs9478222	6	151.9002	2.3431	credible-set	red
rs9478223	6	151.9002	2.3585	credible-set	red
rs6913493	6	151.9008	2.3309	credible-set	red
rs9478224	6	151.9092	2.4772	credible-set	red
rs57960590	6	151.9120	2.4260	credible-set	red
rs1023940	6	151.9328	3.2995	credible-set	red
rs1038304	6	151.9332	3.7912	credible-set	red
rs74832008	6	152.0019	2.1698	credible-set	red
rs113628826	6	152.0029	2.4737	credible-set	red
rs77255806	6	152.0031	2.5610	credible-set	red
rs80234160	6	152.0042	2.8533	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs139567788	6	152.0049	2.5091	credible-set	red
rs2941741	6	152.0090	3.3535	credible-set	red
rs2941740	6	152.0096	2.8909	credible-set	red
rs142786557	6	152.0104	2.8488	credible-set	red
rs2982573	6	152.0105	2.5583	credible-set	red
rs2982572	6	152.0106	2.3986	credible-set	red
rs2982571	6	152.0127	2.7407	credible-set	red
rs3020334	6	152.0130	2.0741	credible-set	red
rs3020335	6	152.0132	2.0624	credible-set	red
rs3020336	6	152.0138	2.1480	credible-set	red
rs1890010	6	152.0853	3.1771	credible-set	red
rs2504069	6	152.0855	4.0982	credible-set	red

eBMD SNP INDEX 109



date: Wed Jun 28 21:34:03 2017

build: hg19

display range: chr6:151508982–152508982 [151508982–152508982]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:152008982

number of SNPs plotted: 6900

min P-value: 4.4E-150 [chr6:151908012]

max P-value: 1E0 [chr6:151551461]

omitted GWAS Hits: chr6:151.932778–bone mineral density, chr6:152.00878–velocity of sound

omitted GWAS Hits: chr6:152.090707–bone mineral density, chr6:152.110943–body height

omitted GWAS Hits: chr6:152.358179–body height, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	151.8038	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6933660	EFO_0004703	GCST002541
6	151.8741	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9478217	EFO_0004339	NA
6	151.8955	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs6909279	EFO_0003923	GCST001870
6	151.8985	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1871859	EFO_0003923	GCST002276
6	151.9014	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs4870044	EFO_0003923	GCST000180
6	151.9018	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs4869739	EFO_0005654	GCST002333
6	151.9077	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4869742	EFO_0003923	GCST001482
6	151.9141	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3757318	EFO_0000305	GCST001937
6	151.9328	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1023940	EFO_0004339	NA
6	151.9332	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1038304	EFO_0003923	GCST000297
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000180
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000181
6	151.9367	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6929137	EFO_0003923	GCST000295
6	151.9466	dense area , mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs12665607	EFO_0006503, EFO_0005941	GCST002667
6	151.9484	breast carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs2046210	EFO_0000305	GCST001916
6	151.9484	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs2046210	EFO_0000305	GCST001930
6	151.9484	breast carcinoma	Zheng W	15/02/2009	Nat Genet	19219042	rs2046210	EFO_0000305	GCST000343
6	151.9577	breast size, breast carcinoma	Eriksson N	30/06/2012	BMC Med Genet	22747683	rs12173570	EFO_0004884, EFO_0000305	GCST001585
6	151.9874	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs9383938	EFO_0000305	GCST001683
6	152.0088	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0004514	GCST002335
6	152.0088	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0005654	GCST002333
6	152.0096	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2941740	EFO_0003923	GCST000495
6	152.0596	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2982552	EFO_0004514	GCST002335
6	152.0684	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1999805	EFO_0003923	GCST000180
6	152.0907	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2504063	EFO_0003923	GCST000494
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817
6	152.2857	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs2982694	EFO_0004278	GCST001099
6	152.3452	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3020418	EFO_0004339	GCST002647
6	152.3582	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2982712	EFO_0004339	GCST001956

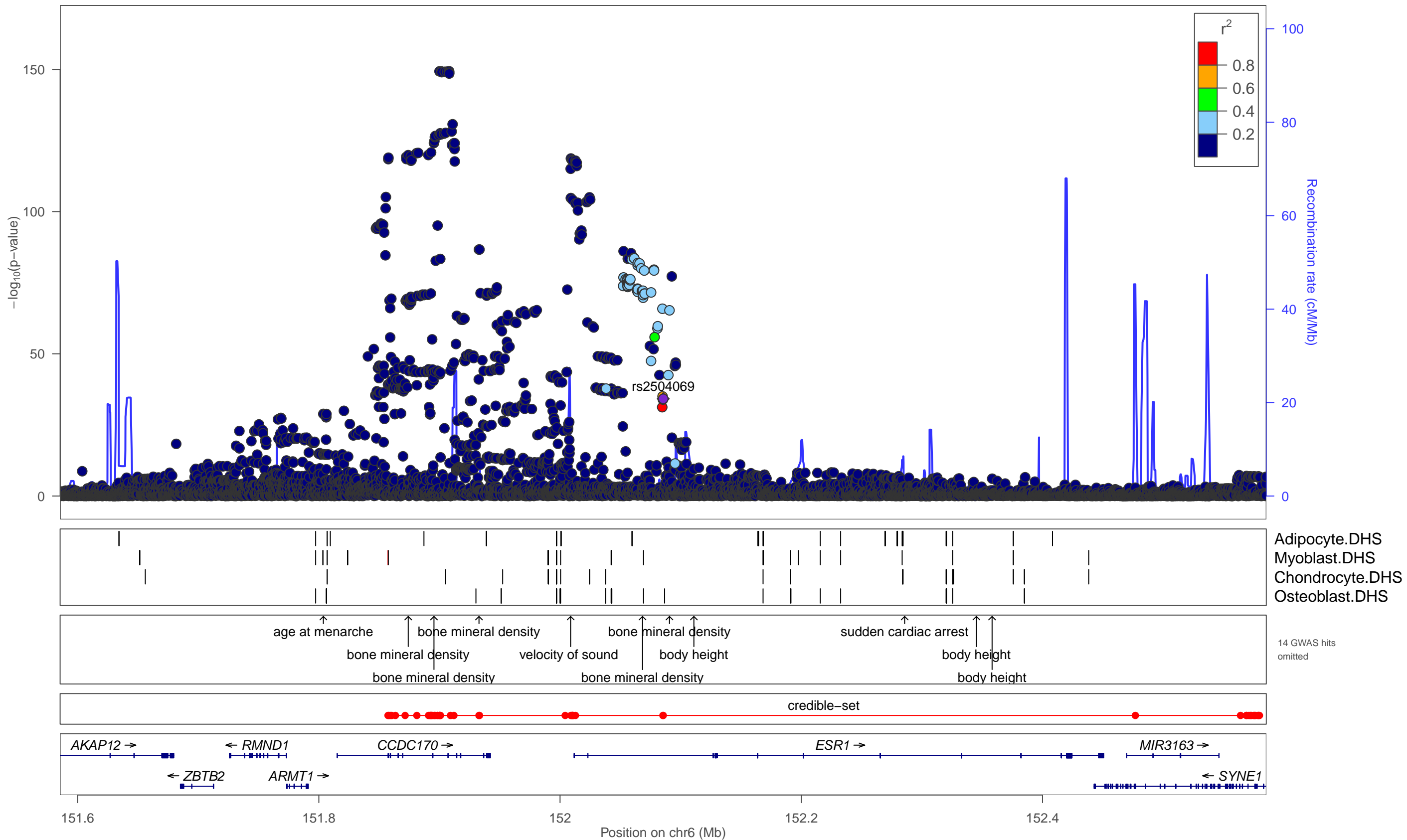
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1532401	6	151.8574	2.3525	credible-set	red
rs1482064	6	151.8581	2.5329	credible-set	red
rs4870034	6	151.8593	2.7338	credible-set	red
rs11412896	6	151.8604	2.6072	credible-set	red
rs4870035	6	151.8635	2.5061	credible-set	red
rs4870039	6	151.8715	2.6270	credible-set	red
rs6557150	6	151.8813	2.7220	credible-set	red
rs12205762	6	151.8910	2.3210	credible-set	red
rs4869737	6	151.8921	2.8771	credible-set	red
rs1817480	6	151.8928	2.0702	credible-set	red
rs12203877	6	151.8932	2.3274	credible-set	red
rs12203880	6	151.8932	2.1691	credible-set	red
rs112563803	6	151.8938	2.0289	credible-set	red
rs12205837	6	151.8943	2.3864	credible-set	red
rs12197879	6	151.8958	2.1964	credible-set	red
rs6915088	6	151.8964	2.8164	credible-set	red
rs12203469	6	151.8983	3.0160	credible-set	red
rs1871859	6	151.8985	13.6383	credible-set	red
rs9479077	6	151.9001	2.5258	credible-set	red
rs9478222	6	151.9002	2.3209	credible-set	red
rs9478223	6	151.9002	2.3727	credible-set	red
rs6913493	6	151.9008	2.3013	credible-set	red
rs9478224	6	151.9092	2.5004	credible-set	red
rs57960590	6	151.9120	2.4049	credible-set	red
rs1023940	6	151.9328	3.3010	credible-set	red
rs1038304	6	151.9332	3.7956	credible-set	red
rs74832008	6	152.0019	2.1344	credible-set	red
rs113628826	6	152.0029	2.4399	credible-set	red
rs77255806	6	152.0031	2.5906	credible-set	red
rs80234160	6	152.0042	2.8693	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs139567788	6	152.0049	2.4780	credible-set	red
rs2941741	6	152.0090	3.3889	credible-set	red
rs2941740	6	152.0096	2.8722	credible-set	red
rs142786557	6	152.0104	2.8440	credible-set	red
rs2982573	6	152.0105	2.5702	credible-set	red
rs2982572	6	152.0106	2.3855	credible-set	red
rs2982571	6	152.0127	2.7372	credible-set	red
rs3020334	6	152.0130	2.0669	credible-set	red
rs3020335	6	152.0132	2.0429	credible-set	red
rs3020336	6	152.0138	2.0844	credible-set	red
rs1890010	6	152.0853	3.1484	credible-set	red
rs2504069	6	152.0855	4.1285	credible-set	red
rs2813495	6	152.4770	2.4024	credible-set	red

eBMD SNP INDEX 110



date: Wed Jun 28 21:37:29 2017

build: hg19

display range: chr6:151585517–152585517 [151585517–152585517]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:152085517

number of SNPs plotted: 6990

min P-value: 4.4E-150 [chr6:151908012]

max P-value: 1E0 [chr6:151620293]

omitted GWAS Hits: chr6:151.932778–bone mineral density, chr6:152.00878–velocity of sound

omitted GWAS Hits: chr6:152.090707–bone mineral density, chr6:152.110943–body height

omitted GWAS Hits: chr6:152.358179–body height, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	151.8038	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs6933660	EFO_0004703	GCST002541
6	151.8741	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9478217	EFO_0004339	NA
6	151.8955	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs6909279	EFO_0003923	GCST001870
6	151.8985	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs1871859	EFO_0003923	GCST002276
6	151.9014	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs4870044	EFO_0003923	GCST000180
6	151.9018	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs4869739	EFO_0005654	GCST002333
6	151.9077	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4869742	EFO_0003923	GCST001482
6	151.9141	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3757318	EFO_0000305	GCST001937
6	151.9328	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1023940	EFO_0004339	NA
6	151.9332	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1038304	EFO_0003923	GCST000297
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000180
6	151.9332	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1038304	EFO_0003923	GCST000181
6	151.9367	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs6929137	EFO_0003923	GCST000295
6	151.9466	dense area , mammographic density	Lindstrom S	24/10/2014	Nat Commun	25342443	rs12665607	EFO_0006503, EFO_0005941	GCST002667
6	151.9484	breast carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs2046210	EFO_0000305	GCST001916
6	151.9484	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs2046210	EFO_0000305	GCST001930
6	151.9484	breast carcinoma	Zheng W	15/02/2009	Nat Genet	19219042	rs2046210	EFO_0000305	GCST000343
6	151.9577	breast size, breast carcinoma	Eriksson N	30/06/2012	BMC Med Genet	22747683	rs12173570	EFO_0004884, EFO_0000305	GCST001585
6	151.9874	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs9383938	EFO_0000305	GCST001683
6	152.0088	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0004514	GCST002335
6	152.0088	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs3020331	EFO_0005654	GCST002333
6	152.0096	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2941740	EFO_0003923	GCST000495
6	152.0596	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2982552	EFO_0004514	GCST002335
6	152.0684	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs1999805	EFO_0003923	GCST000180
6	152.0907	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2504063	EFO_0003923	GCST000494
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817
6	152.2857	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs2982694	EFO_0004278	GCST001099
6	152.3452	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3020418	EFO_0004339	GCST002647
6	152.3582	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2982712	EFO_0004339	GCST001956

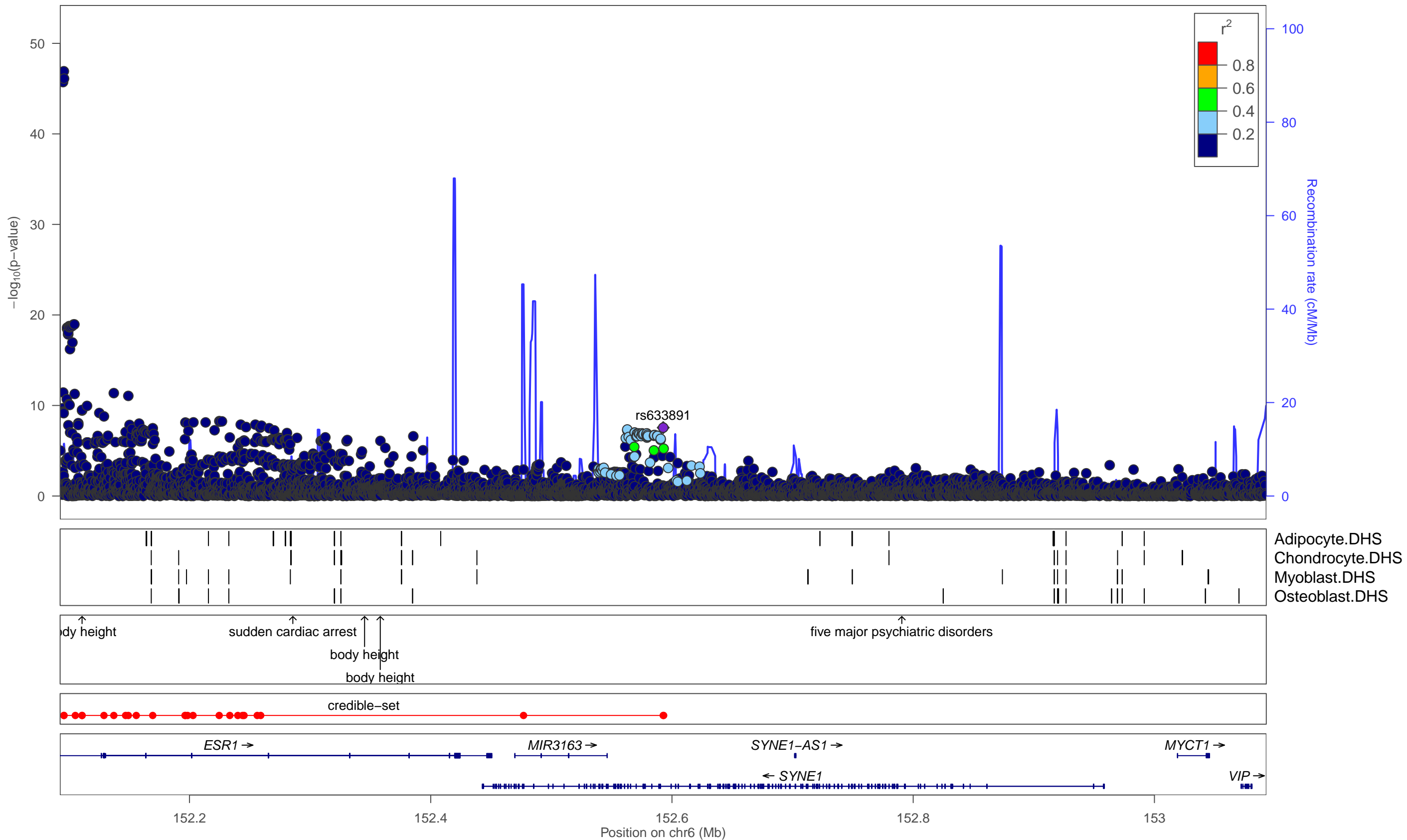
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1532401	6	151.8574	2.3507	credible-set	red
rs1482064	6	151.8581	2.5949	credible-set	red
rs4870034	6	151.8593	2.9156	credible-set	red
rs11412896	6	151.8604	2.5340	credible-set	red
rs4870035	6	151.8635	2.5967	credible-set	red
rs4870039	6	151.8715	2.7278	credible-set	red
rs6557150	6	151.8813	2.6866	credible-set	red
rs12205762	6	151.8910	2.3760	credible-set	red
rs4869737	6	151.8921	2.9058	credible-set	red
rs1817480	6	151.8928	2.0290	credible-set	red
rs12203877	6	151.8932	2.3764	credible-set	red
rs12203880	6	151.8932	2.1074	credible-set	red
rs12205837	6	151.8943	2.3553	credible-set	red
rs12197879	6	151.8958	2.0091	credible-set	red
rs6915088	6	151.8964	2.9428	credible-set	red
rs12203469	6	151.8983	3.0930	credible-set	red
rs1871859	6	151.8985	13.6438	credible-set	red
rs9479077	6	151.9001	2.5899	credible-set	red
rs9478222	6	151.9002	2.2281	credible-set	red
rs9478223	6	151.9002	2.2331	credible-set	red
rs6913493	6	151.9008	2.3646	credible-set	red
rs9478224	6	151.9092	2.4536	credible-set	red
rs57960590	6	151.9120	2.4174	credible-set	red
rs1023940	6	151.9328	3.1481	credible-set	red
rs1038304	6	151.9332	4.0601	credible-set	red
rs80234160	6	152.0042	2.1595	credible-set	red
rs2941741	6	152.0090	3.5541	credible-set	red
rs2941740	6	152.0096	2.9450	credible-set	red
rs142786557	6	152.0104	2.8452	credible-set	red
rs2982573	6	152.0105	2.3454	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2982572	6	152.0106	2.1322	credible-set	red
rs2982571	6	152.0127	2.7465	credible-set	red
rs1890010	6	152.0853	3.0513	credible-set	red
rs2504069	6	152.0855	4.2367	credible-set	red
rs2813495	6	152.4770	2.4275	credible-set	red
rs4869758	6	152.5641	2.0409	credible-set	red
rs7746802	6	152.5690	2.9149	credible-set	red
rs35065475	6	152.5692	2.9475	credible-set	red
rs6940851	6	152.5710	2.6336	credible-set	red
rs9383980	6	152.5723	2.6434	credible-set	red
rs34267661	6	152.5731	2.4731	credible-set	red
rs4870089	6	152.5752	2.7086	credible-set	red
rs7763242	6	152.5757	2.4286	credible-set	red
rs9397495	6	152.5766	2.4360	credible-set	red
rs9397091	6	152.5787	2.2459	credible-set	red
rs4869759	6	152.5791	2.6410	credible-set	red
rs9383615	6	152.5798	2.1314	credible-set	red

eBMD SNP INDEX 111



date: Wed Jun 28 21:37:39 2017

build: hg19

display range: chr6:152092751–153092751 [152092751–153092751]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:152592751

number of SNPs plotted: 6549

min P-value: 1.2E-47 [chr6:152095829]

max P-value: 1E0 [chr6:152102596]

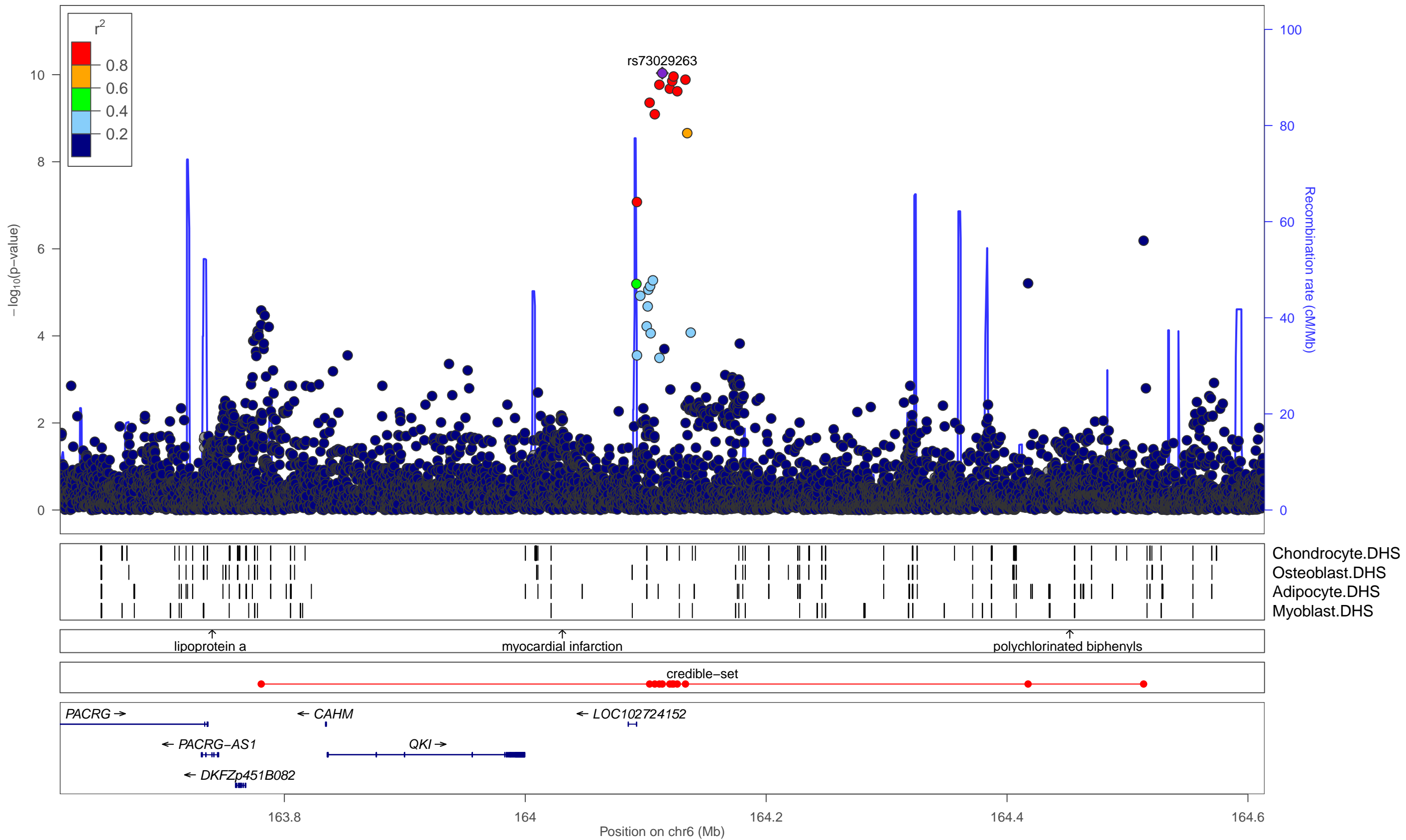
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	152.1109	body height	Lango Allen H	29/09/2010	Nature	20881960	rs543650	EFO_0004339	GCST000817
6	152.2857	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs2982694	EFO_0004278	GCST001099
6	152.3452	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3020418	EFO_0004339	GCST002647
6	152.3582	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2982712	EFO_0004339	GCST001956
6	152.7906	five major psychiatric disorders	Smoller JW	27/02/2013	Lancet	23453885	rs9371601	NA	GCST001877

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2504066	6	152.0958	4.4627	credible-set	red
rs2504067	6	152.0960	2.7383	credible-set	red
rs116246593	6	152.1053	2.8081	credible-set	red
rs543650	6	152.1109	3.3294	credible-set	red
rs543648	6	152.1109	3.5413	credible-set	red
rs2077647	6	152.1291	2.6780	credible-set	red
rs182530944	6	152.1372	3.7776	credible-set	red
rs556227699	6	152.1470	2.7999	credible-set	red
rs79031529	6	152.1493	3.4541	credible-set	red
rs181824225	6	152.1559	2.2832	credible-set	red
rs7454379	6	152.1695	2.1164	credible-set	red
rs151020329	6	152.1963	3.1638	credible-set	red
rs75551384	6	152.1966	2.5494	credible-set	red
rs190008706	6	152.1984	2.4841	credible-set	red
rs13204918	6	152.2029	2.3328	credible-set	red
6:152224635_G_C	6	152.2246	2.6979	credible-set	red
rs9340879	6	152.2334	2.8735	credible-set	red
rs538992156	6	152.2401	2.1521	credible-set	red
rs143502708	6	152.2440	3.3130	credible-set	red
rs11966313	6	152.2452	2.0866	credible-set	red
rs150689128	6	152.2562	2.8756	credible-set	red
rs75831348	6	152.2590	4.3137	credible-set	red
rs2813495	6	152.4770	2.1646	credible-set	red
rs633891	6	152.5928	4.1254	credible-set	red
rs6904757	6	152.5931	2.4799	credible-set	red

eBMD SNP INDEX 112



date: Wed Jun 28 21:38:59 2017

build: hg19

display range: chr6:163613762–164613762 [163613762–164613762]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:164113762

number of SNPs plotted: 7136

min P-value: 9.2E-11 [chr6:164113762]

max P-value: 1E0 [chr6:163639839]

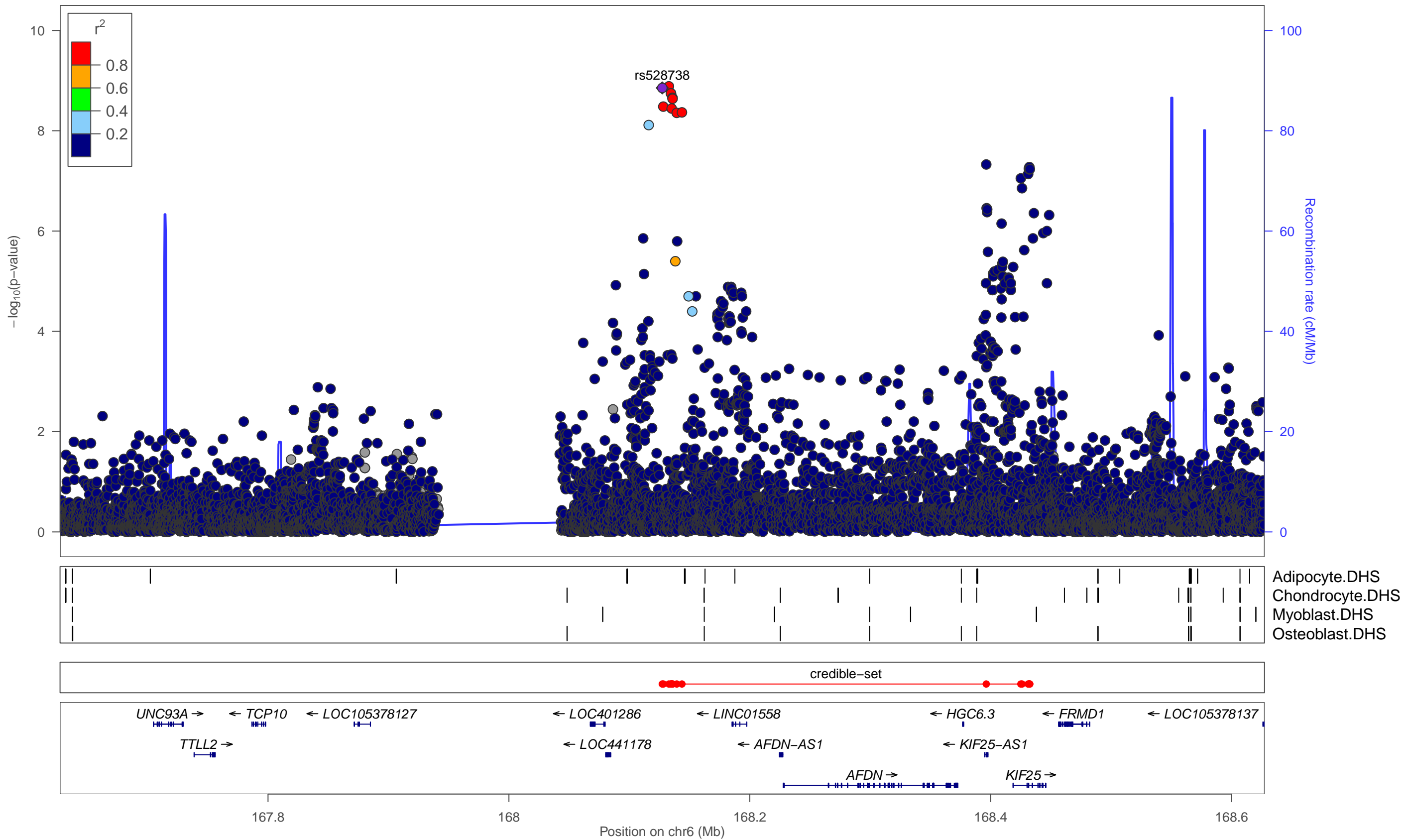
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
6	163.7401	lipoprotein a	Li J	17/09/2015	J Hum Genet	26377243	rs6927207	EFO_0006925	GCST003127
6	164.0308	myocardial infarction	Dehghan A	7/03/2016	PLoS One	26950853	rs6941513	EFO_0000612	GCST003430
6	164.4521	polychlorinated biphenyls	Ng E	2/04/2015	Environ Res	25839716	rs62437588	EFO_0007042	GCST002839

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13218651	6	163.7808	2.1348	credible-set	red
rs66930764	6	164.1032	2.2947	credible-set	red
rs17630640	6	164.1075	2.0218	credible-set	red
rs73029259	6	164.1113	2.7348	credible-set	red
rs73029263	6	164.1138	3.0627	credible-set	red
rs142951903	6	164.1200	2.6358	credible-set	red
rs10622588	6	164.1220	2.8385	credible-set	red
rs73029270	6	164.1231	2.9639	credible-set	red
rs73013411	6	164.1262	2.5842	credible-set	red
rs4709746	6	164.1330	2.8779	credible-set	red
rs573287115	6	164.4175	2.4027	credible-set	red
rs552343927	6	164.5134	3.6172	credible-set	red

eBMD SNP INDEX 113



date: Wed Jun 28 21:39:18 2017

build: hg19

display range: chr6:167627312–168627312 [167627312–168627312]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:168127312

number of SNPs plotted: 7993

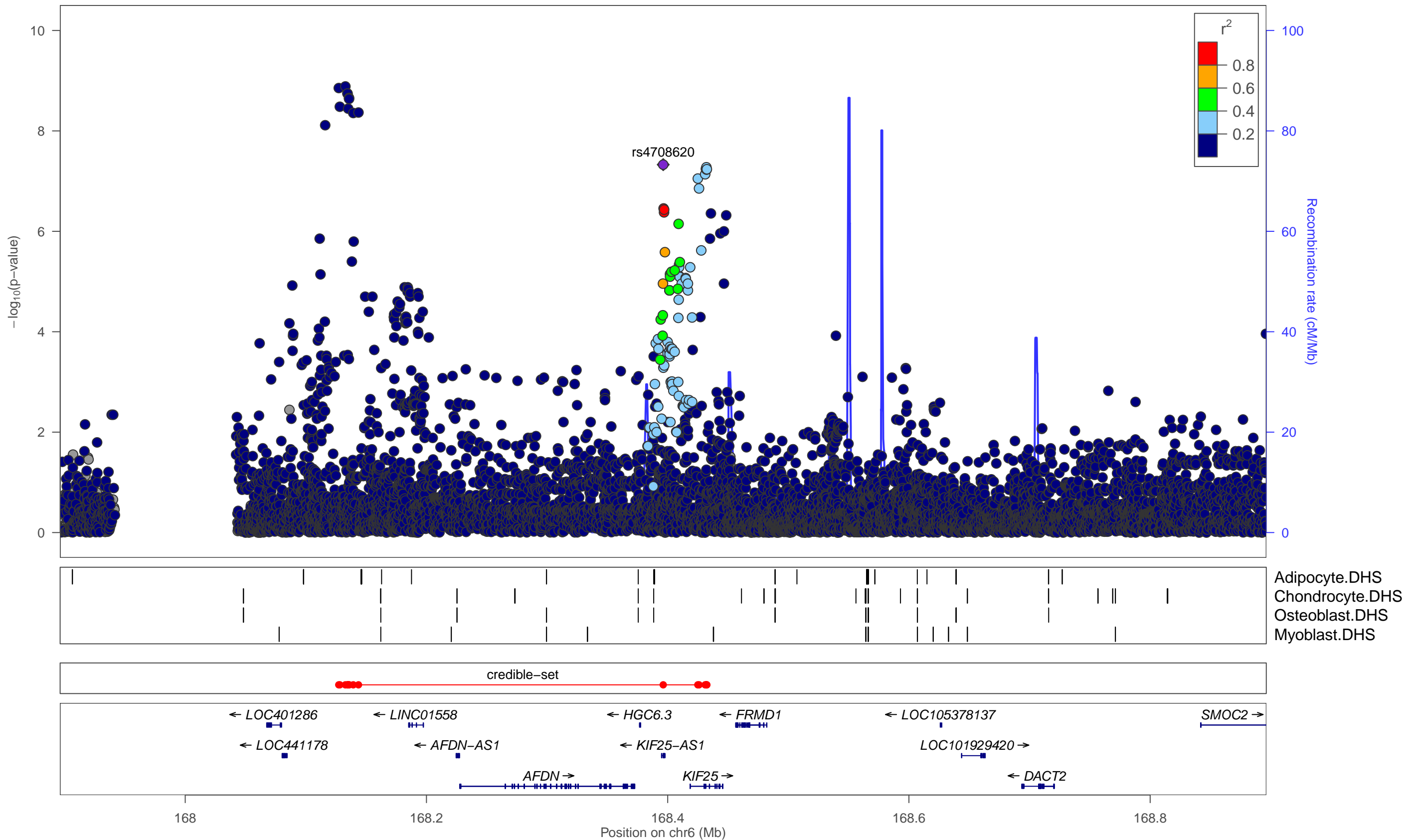
min P-value: 1.3E-9 [chr6:168132784]

max P-value: 1E0 [chr6:167636303]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs528738	6	168.1273	2.6809	credible-set	red
rs199528644	6	168.1282	2.2900	credible-set	red
rs578614	6	168.1328	3.0845	credible-set	red
rs502160	6	168.1345	2.9352	credible-set	red
rs524324	6	168.1346	2.9545	credible-set	red
rs111846718	6	168.1351	2.2603	credible-set	red
rs2742920	6	168.1358	2.8039	credible-set	red
rs2784887	6	168.1358	2.7497	credible-set	red
rs573335	6	168.1393	2.1821	credible-set	red
rs560315	6	168.1436	2.6609	credible-set	red
rs4708620	6	168.3963	2.4054	credible-set	red
rs139269950	6	168.4250	2.8792	credible-set	red
rs225776	6	168.4260	2.6146	credible-set	red
rs139317809	6	168.4311	2.7800	credible-set	red
rs2257743	6	168.4317	2.9671	credible-set	red
rs9364386	6	168.4321	2.9547	credible-set	red
rs9355156	6	168.4322	2.8985	credible-set	red
rs28585071	6	168.4325	2.9131	credible-set	red

eBMD SNP INDEX 114



date: Wed Jun 28 21:39:52 2017

build: hg19

display range: chr6:167896290–168896290 [167896290–168896290]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr6:168396290

number of SNPs plotted: 7706

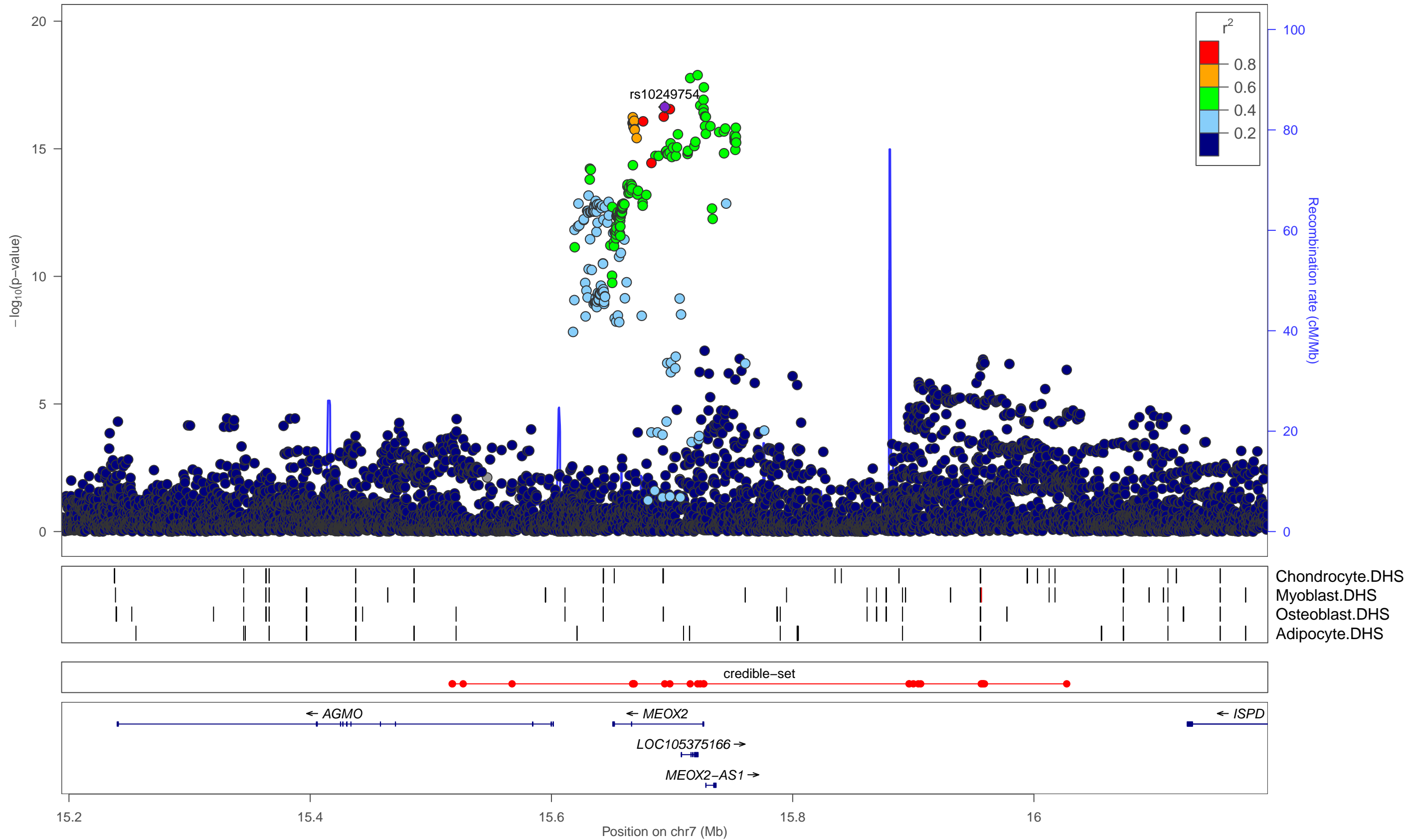
min P-value: 1.3E-9 [chr6:168132784]

max P-value: 1E0 [chr6:168049989]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs528738	6	168.1273	2.6670	credible-set	red
rs199528644	6	168.1282	2.2744	credible-set	red
rs578614	6	168.1328	3.0722	credible-set	red
rs502160	6	168.1345	2.9226	credible-set	red
rs524324	6	168.1346	2.9419	credible-set	red
rs111846718	6	168.1351	2.2453	credible-set	red
rs2742920	6	168.1358	2.7910	credible-set	red
rs2784887	6	168.1358	2.7367	credible-set	red
rs573335	6	168.1393	2.1681	credible-set	red
rs560315	6	168.1436	2.6474	credible-set	red
rs4708620	6	168.3963	2.3909	credible-set	red
rs139269950	6	168.4250	2.8667	credible-set	red
rs225776	6	168.4260	2.6014	credible-set	red
rs139317809	6	168.4311	2.7670	credible-set	red
rs2257743	6	168.4317	2.9543	credible-set	red
rs9364386	6	168.4321	2.9420	credible-set	red
rs9355156	6	168.4322	2.8856	credible-set	red
rs28585071	6	168.4325	2.9004	credible-set	red

eBMD SNP INDEX 115



date: Wed Jun 28 21:40:07 2017

build: hg19

display range: chr7:15193906–16193906 [15193906–16193906]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:15693906

number of SNPs plotted: 7010

min P-value: 1.3E-18 [chr7:15721178]

max P-value: 1E0 [chr7:15212882]

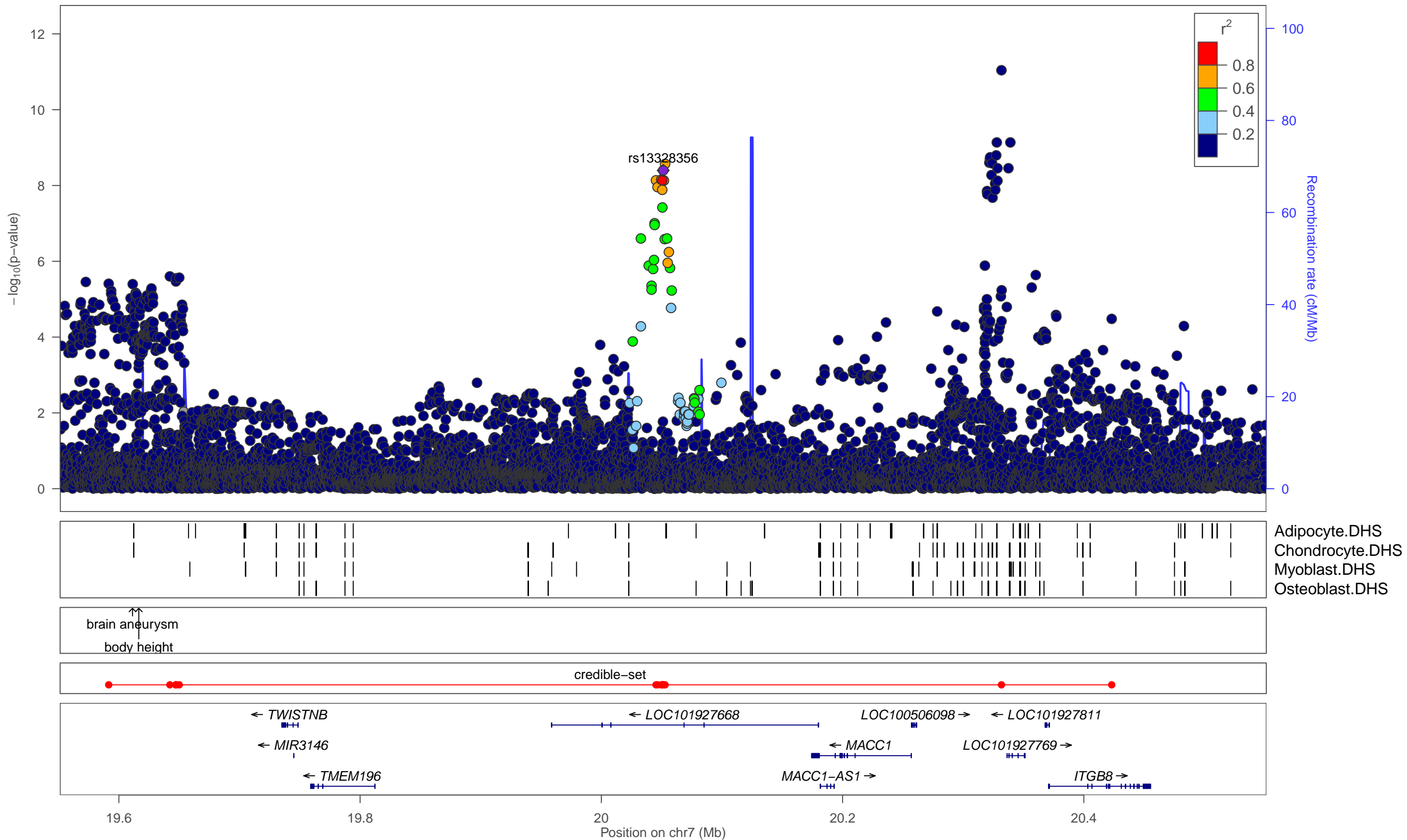
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11766612	7	15.51766	2.1665	credible-set	red
rs11766694	7	15.51794	2.1503	credible-set	red
rs10251581	7	15.52680	2.4216	credible-set	red
rs78649512	7	15.56734	2.3101	credible-set	red
rs3801416	7	15.66727	2.2186	credible-set	red
rs7786338	7	15.66745	2.5173	credible-set	red
rs7786661	7	15.66770	2.2295	credible-set	red
rs7805746	7	15.66788	2.2078	credible-set	red
rs6461198	7	15.66803	2.1729	credible-set	red
rs6953784	7	15.66807	2.0688	credible-set	red
rs4436006	7	15.66809	2.0890	credible-set	red
rs1548691	7	15.66853	2.1596	credible-set	red
rs2892794	7	15.66858	2.2231	credible-set	red
rs10249754	7	15.69391	2.0701	credible-set	red
rs7787043	7	15.69818	2.0357	credible-set	red
rs6980299	7	15.71506	3.1834	credible-set	red
rs3801427	7	15.72118	3.5207	credible-set	red
rs917439	7	15.72339	2.1352	credible-set	red
rs1050290	7	15.72607	2.0542	credible-set	red
rs917441	7	15.72637	2.6745	credible-set	red
rs17169114	7	15.89650	2.2556	credible-set	red
rs78479246	7	15.89657	2.0484	credible-set	red
rs142368257	7	15.90007	2.6432	credible-set	red
rs6943352	7	15.90413	2.9472	credible-set	red
rs76058114	7	15.90612	2.2062	credible-set	red
rs6461209	7	15.95639	2.5590	credible-set	red
rs2215169	7	15.95647	2.5767	credible-set	red
rs17351518	7	15.95750	2.6553	credible-set	red
rs10278969	7	15.95781	2.8757	credible-set	red
rs6959942	7	15.95813	2.7683	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10224295	7	15.95901	2.6359	credible-set	red
rs6953523	7	16.02719	2.6010	credible-set	red

eBMD SNP INDEX 116



date: Wed Jun 28 21:41:01 2017

build: hg19

display range: chr7:19551287–20551287 [19551287–20551287]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:20051287

number of SNPs plotted: 8044

min P-value: 9.1E-12 [chr7:20331713]

max P-value: 1E0 [chr7:19586120]

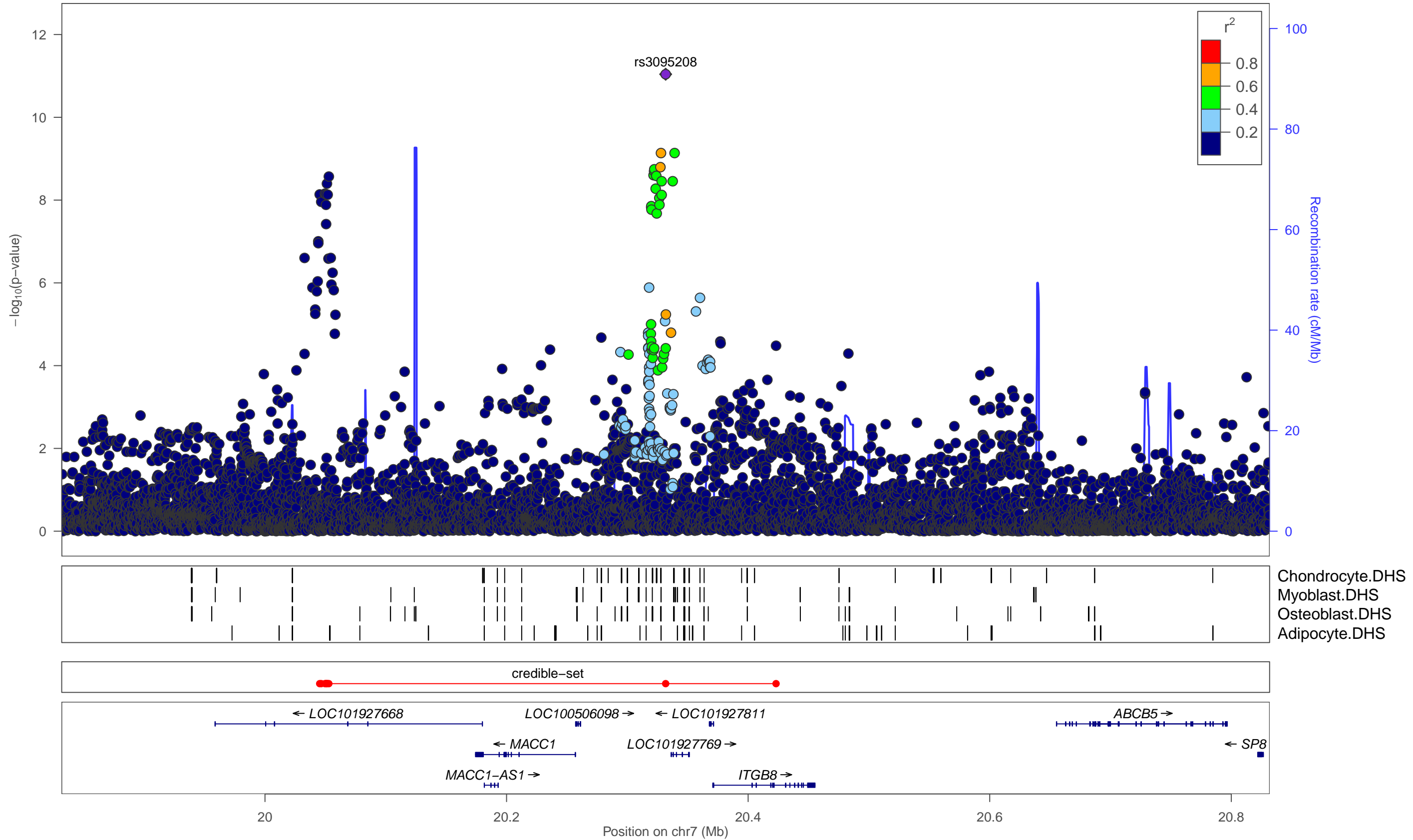
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	19.61131	brain aneurysm	Foroud T	25/09/2014	Stroke	25256182	rs10230207	EFO_0003870	GCST002633
7	19.61652	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs4470914	EFO_0004339	GCST002702
7	19.61652	body height	Lango Allen H	29/09/2010	Nature	20881960	rs4470914	EFO_0004339	GCST000817

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12673167	7	19.59156	2.0730	credible-set	red
rs7809851	7	19.64227	2.1605	credible-set	red
rs10261832	7	19.64709	2.0741	credible-set	red
rs10232959	7	19.64731	2.0025	credible-set	red
rs10236102	7	19.64744	2.1428	credible-set	red
rs10245106	7	19.65005	2.0568	credible-set	red
7:20045293_C_G	7	20.04529	2.5700	credible-set	red
rs2214919	7	20.04658	2.4341	credible-set	red
rs17362916	7	20.04966	2.6519	credible-set	red
rs4721857	7	20.05049	2.3849	credible-set	red
rs38149	7	20.05060	2.7765	credible-set	red
rs111362596	7	20.05061	2.3276	credible-set	red
rs13328356	7	20.05129	3.4399	credible-set	red
rs10246719	7	20.05190	2.6496	credible-set	red
rs11763267	7	20.05286	2.8797	credible-set	red
rs3095208	7	20.33171	5.3020	credible-set	red
rs188981754	7	20.42311	2.5928	credible-set	red

eBMD SNP INDEX 117



date: Wed Jun 28 21:36:44 2017

build: hg19

display range: chr7:19831713–20831713 [19831713–20831713]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:20331713

number of SNPs plotted: 7427

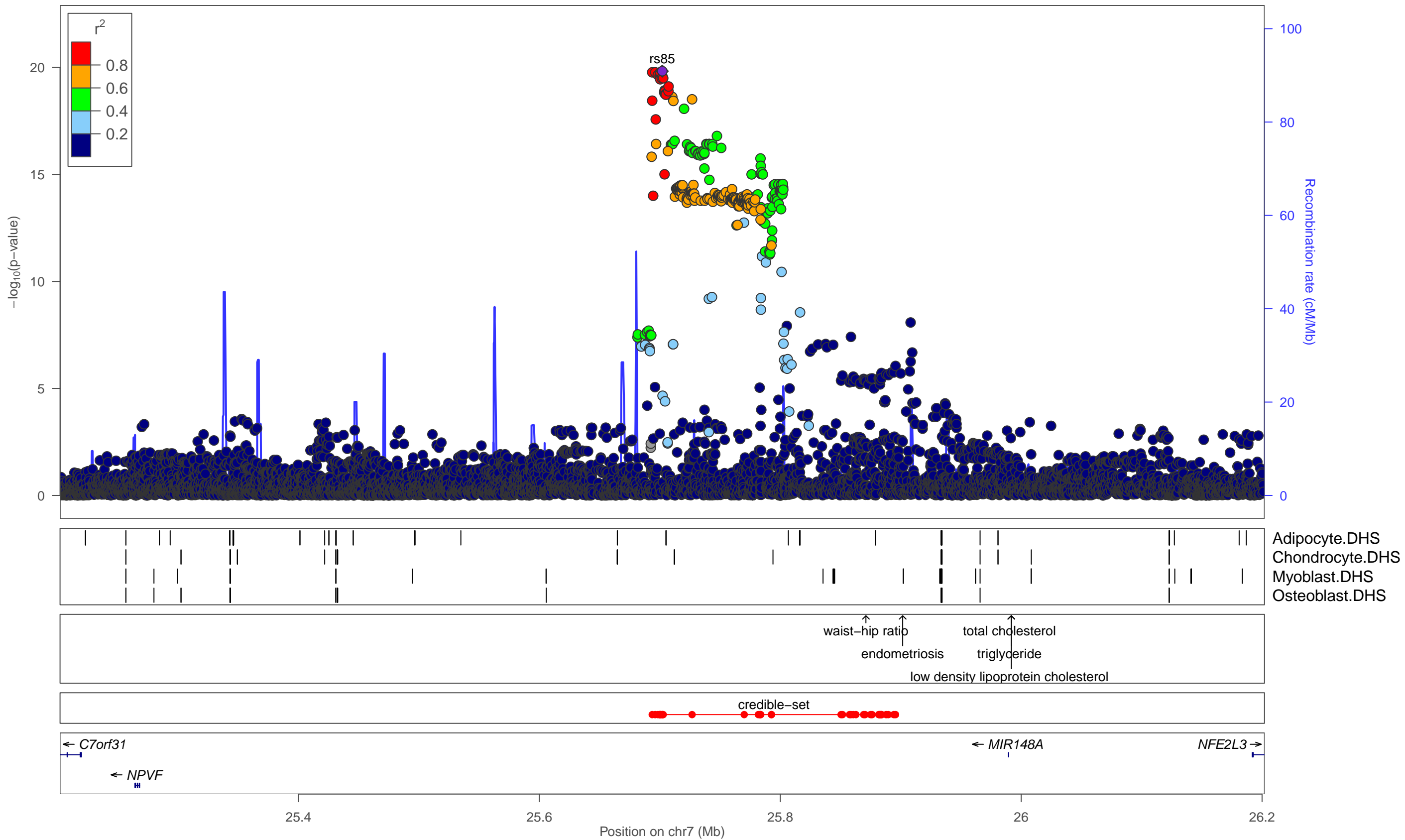
min P-value: 9.1E-12 [chr7:20331713]

max P-value: 1E0 [chr7:19832521]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
7:20045293_C_G	7	20.04529	2.6386	credible-set	red
rs2214919	7	20.04658	2.4517	credible-set	red
rs17362916	7	20.04966	2.6793	credible-set	red
rs4721857	7	20.05049	2.3933	credible-set	red
rs38149	7	20.05060	2.6418	credible-set	red
rs111362596	7	20.05061	2.2008	credible-set	red
rs13328356	7	20.05129	3.3082	credible-set	red
rs10246719	7	20.05190	2.6786	credible-set	red
rs11763267	7	20.05286	2.9617	credible-set	red
rs3095208	7	20.33171	5.1904	credible-set	red
rs188981754	7	20.42311	2.5597	credible-set	red

eBMD SNP INDEX 118



date: Wed Jun 28 21:41:41 2017

build: hg19

display range: chr7:25202026–26202026 [25202026–26202026]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:25702026

number of SNPs plotted: 6444

min P-value: 1.5E-20 [chr7:25702026]

max P-value: 1E0 [chr7:25207239]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	25.87111	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs1055144	EFO_0004343	GCST000829
7	25.90164	endometriosis	Nyholt DR	28/10/2012	Nat Genet	23104006	rs12700667	EFO_0001065	GCST001720
7	25.90164	endometriosis	Painter JN	12/12/2010	Nat Genet	21151130	rs12700667	EFO_0001065	GCST000916
7	25.99183	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4722551	EFO_0004611	GCST002222
7	25.99183	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs4722551	EFO_0004574	GCST002221
7	25.99183	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs4722551	EFO_0004530	GCST002216

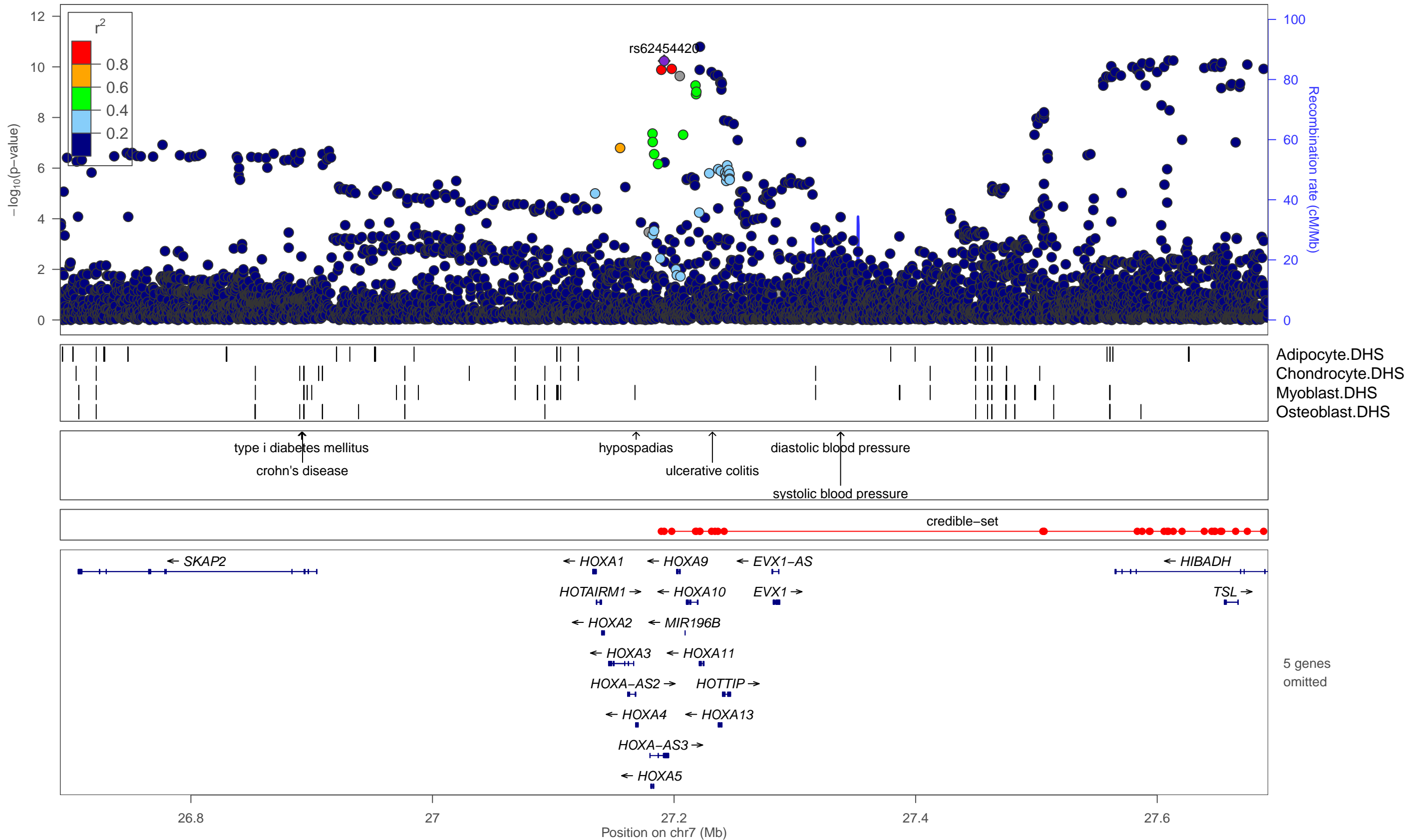
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2040636	7	25.69368	2.6539	credible-set	red
rs1016983	7	25.69620	2.6238	credible-set	red
rs6461879	7	25.69835	2.4733	credible-set	red
rs87	7	25.69986	2.4602	credible-set	red
rs7785991	7	25.70021	2.4192	credible-set	red
rs86	7	25.70029	2.6829	credible-set	red
rs36057798	7	25.70032	2.3665	credible-set	red
rs7795162	7	25.70160	2.3308	credible-set	red
rs85	7	25.70203	2.6986	credible-set	red
rs442	7	25.70225	2.4250	credible-set	red
rs84	7	25.70279	2.3203	credible-set	red
rs200578061	7	25.72678	2.5661	credible-set	red
rs112542605	7	25.77005	2.0771	credible-set	red
rs74693644	7	25.78182	2.0845	credible-set	red
rs7786181	7	25.78304	2.0849	credible-set	red
rs7805645	7	25.78330	2.0538	credible-set	red
rs4722514	7	25.78378	2.0834	credible-set	red
rs61418286	7	25.79266	2.1037	credible-set	red
rs58855472	7	25.79269	2.1399	credible-set	red
rs28392961	7	25.85046	2.2827	credible-set	red
rs67110837	7	25.85165	2.4741	credible-set	red
rs4141278	7	25.85752	2.0726	credible-set	red
rs10245353	7	25.85861	2.0371	credible-set	red
rs7798130	7	25.86065	2.1732	credible-set	red
rs2391168	7	25.86279	2.0214	credible-set	red
rs2893221	7	25.86920	2.0531	credible-set	red
rs41469349	7	25.87044	2.0162	credible-set	red
rs10260677	7	25.87499	2.0858	credible-set	red
rs28473292	7	25.87624	2.1003	credible-set	red
rs10267498	7	25.88173	2.0919	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10238703	7	25.88217	2.0619	credible-set	red
rs10242536	7	25.88282	2.1185	credible-set	red
rs9987000	7	25.88321	2.0050	credible-set	red
rs10262483	7	25.88404	2.3724	credible-set	red
rs4722530	7	25.88410	2.1241	credible-set	red
rs10241634	7	25.88793	2.3100	credible-set	red
rs57246313	7	25.88970	2.3306	credible-set	red
rs11770186	7	25.89423	2.5042	credible-set	red
rs12666961	7	25.89569	2.9015	credible-set	red

eBMD SNP INDEX 119



date: Wed Jun 28 21:37:47 2017

build: hg19

display range: chr7:26691804–27691804 [26691804–27691804]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:27191804

number of SNPs plotted: 5632

min P-value: 1.6E-11 [chr7:27221454]

max P-value: 1E0 [chr7:26694068]

omitted Genes: HOXA6, HOXA7, HOXA10–HOXA9

omitted Genes: HOXA10–AS, HOXA11–AS

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	26.89166	type i diabetes mellitus	Barrett JC	10/05/2009	Nat Genet	19430480	rs7804356	EFO_0001359	GCST000392
7	26.89244	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs10486483	EFO_0000384	GCST001729
7	26.89244	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs10486483	EFO_0000384	GCST003044
7	27.16859	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs1801085	EFO_0004209	GCST002563
7	27.23176	ulcerative colitis	Jostins L	1/11/2012	Nature	23128233	rs4722672	EFO_0000729	GCST001728
7	27.33787	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs17428471	EFO_0006336	GCST002143
7	27.33787	systolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs17428471	EFO_0006335	GCST002143

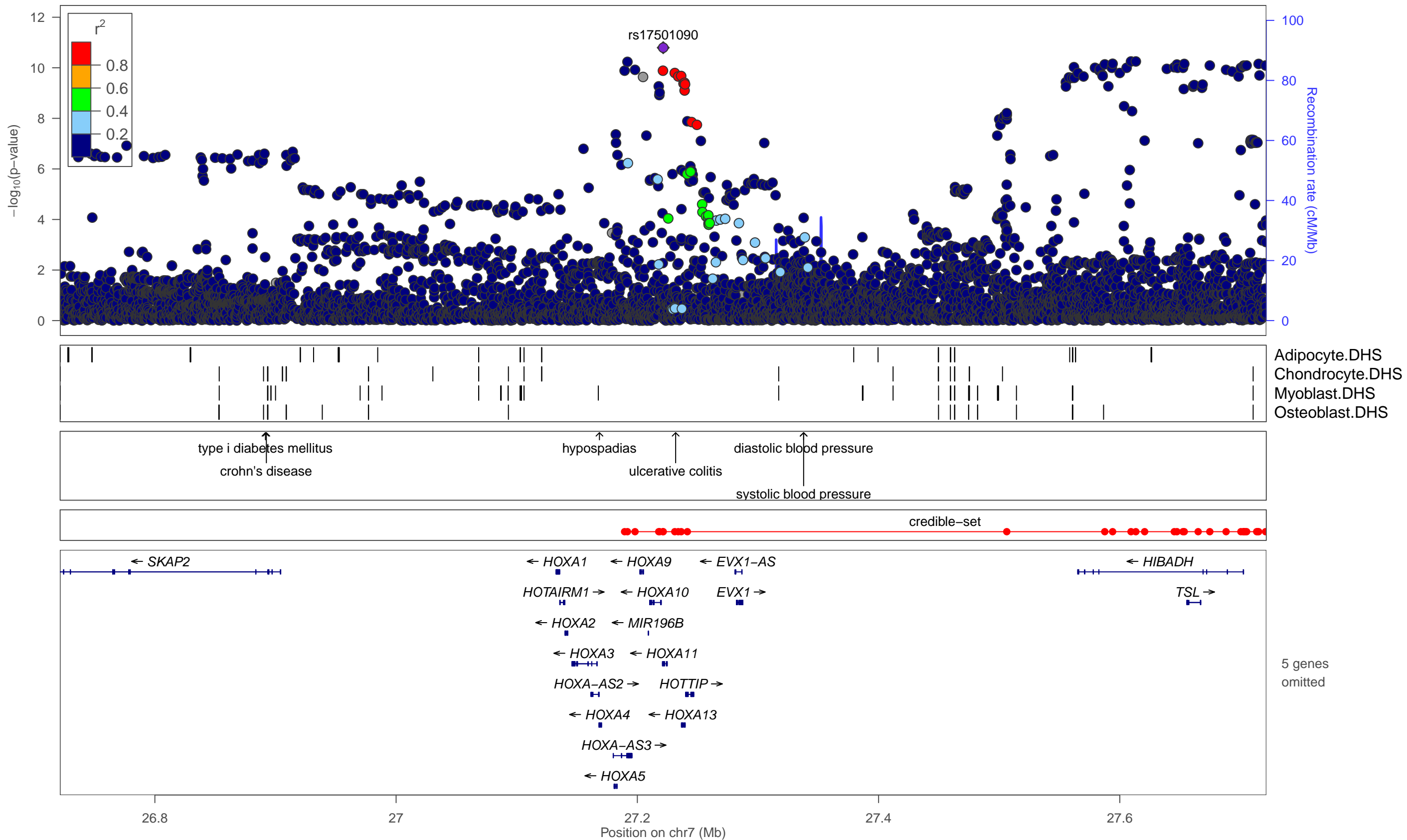
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs62454419	7	27.18945	2.9467	credible-set	red
rs62454420	7	27.19180	3.5144	credible-set	red
rs17437411	7	27.19809	2.9510	credible-set	red
rs7806799	7	27.21775	2.3311	credible-set	red
rs1859165	7	27.21847	2.0249	credible-set	red
rs67971665	7	27.22123	2.3776	credible-set	red
rs17501090	7	27.22145	3.9843	credible-set	red
rs17472350	7	27.23105	2.4025	credible-set	red
rs17501250	7	27.23389	2.1066	credible-set	red
rs17501278	7	27.23634	2.1187	credible-set	red
rs17501292	7	27.24147	4.5423	credible-set	red
rs55692627	7	27.50533	2.0477	credible-set	red
rs75943374	7	27.50629	2.5034	credible-set	red
rs76971062	7	27.50629	2.0526	credible-set	red
rs139182151	7	27.58348	2.0150	credible-set	red
rs35816118	7	27.58754	2.2320	credible-set	red
rs10586738	7	27.59341	2.0791	credible-set	red
rs71539525	7	27.59404	2.2670	credible-set	red
rs13236908	7	27.60567	2.0677	credible-set	red
rs2391440	7	27.60825	2.1724	credible-set	red
rs1000317	7	27.60929	2.3703	credible-set	red
rs71539527	7	27.61329	2.3698	credible-set	red
rs75396291	7	27.62060	3.6500	credible-set	red
rs77412787	7	27.63896	2.0070	credible-set	red
rs13232561	7	27.64516	2.2083	credible-set	red
rs71539529	7	27.64738	2.3790	credible-set	red
rs34578407	7	27.64792	2.1865	credible-set	red
rs71554099	7	27.65239	2.2214	credible-set	red
rs35771883	7	27.65344	2.3830	credible-set	red
rs17609417	7	27.66495	3.4490	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13231645	7	27.67461	2.3473	credible-set	red
rs4722725	7	27.68811	2.3098	credible-set	red

eBMD SNP INDEX 120



date: Wed Jun 28 21:37:00 2017

build: hg19

display range: chr7:26721454–27721454 [26721454–27721454]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:27221454

number of SNPs plotted: 5701

min P-value: 1.6E-11 [chr7:27221454]

max P-value: 1E0 [chr7:26789370]

omitted Genes: HOXA6, HOXA7, HOXA10–HOXA9

omitted Genes: HOXA10–AS, HOXA11–AS

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	26.89166	type i diabetes mellitus	Barrett JC	10/05/2009	Nat Genet	19430480	rs7804356	EFO_0001359	GCST000392
7	26.89244	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs10486483	EFO_0000384	GCST001729
7	26.89244	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs10486483	EFO_0000384	GCST003044
7	27.16859	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs1801085	EFO_0004209	GCST002563
7	27.23176	ulcerative colitis	Jostins L	1/11/2012	Nature	23128233	rs4722672	EFO_0000729	GCST001728
7	27.33787	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs17428471	EFO_0006336	GCST002143
7	27.33787	systolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs17428471	EFO_0006335	GCST002143

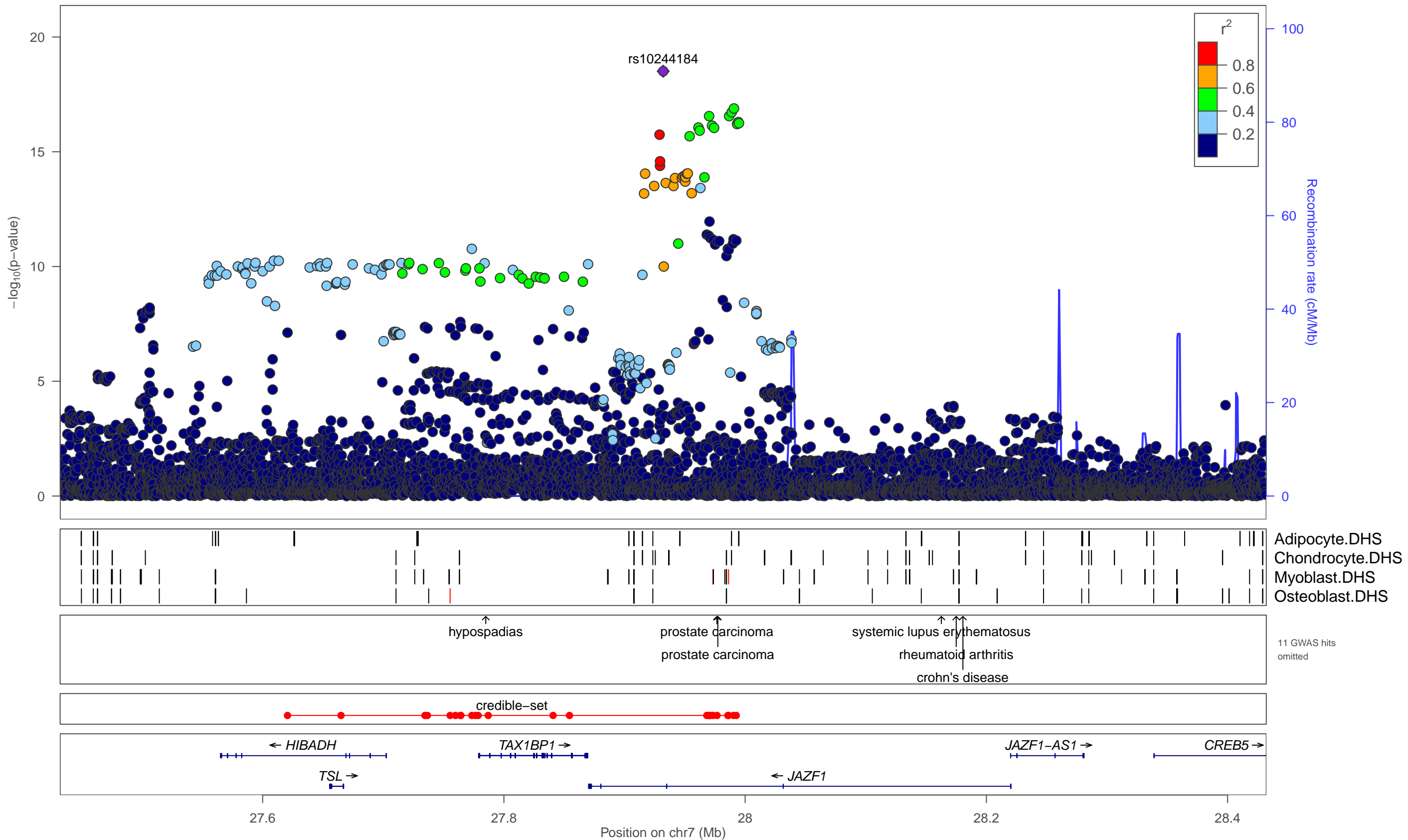
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs62454419	7	27.18945	2.9533	credible-set	red
rs62454420	7	27.19180	3.5287	credible-set	red
rs17437411	7	27.19809	2.9541	credible-set	red
rs7806799	7	27.21775	2.3260	credible-set	red
rs1859165	7	27.21847	2.0394	credible-set	red
rs67971665	7	27.22123	2.3644	credible-set	red
rs17501090	7	27.22145	4.0020	credible-set	red
rs17472350	7	27.23105	2.4097	credible-set	red
rs17501250	7	27.23389	2.0929	credible-set	red
rs17501278	7	27.23634	2.1002	credible-set	red
rs17501292	7	27.24147	4.6035	credible-set	red
rs75943374	7	27.50629	2.4579	credible-set	red
rs35816118	7	27.58754	2.0136	credible-set	red
rs71539525	7	27.59404	2.0588	credible-set	red
rs1000317	7	27.60929	2.1517	credible-set	red
rs71539527	7	27.61329	2.1521	credible-set	red
rs75396291	7	27.62060	3.6582	credible-set	red
rs13232561	7	27.64516	2.0022	credible-set	red
rs71539529	7	27.64738	2.1782	credible-set	red
rs71554099	7	27.65239	2.0049	credible-set	red
rs35771883	7	27.65344	2.1796	credible-set	red
rs17609417	7	27.66495	3.4518	credible-set	red
rs13231645	7	27.67461	2.1363	credible-set	red
rs4722725	7	27.68811	2.1141	credible-set	red
rs13227574	7	27.70039	2.0939	credible-set	red
rs6969043	7	27.70267	2.2063	credible-set	red
rs6968631	7	27.70268	2.1972	credible-set	red
rs6969207	7	27.70276	2.2038	credible-set	red
rs35105727	7	27.70401	2.2042	credible-set	red
rs12532737	7	27.70513	2.2188	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs42098	7	27.71351	2.0670	credible-set	red
rs34398407	7	27.71429	2.4789	credible-set	red
rs35232956	7	27.71509	2.2861	credible-set	red
rs35536764	7	27.72085	2.1653	credible-set	red

eBMD SNP INDEX 121



date: Wed Jun 28 21:39:50 2017

build: hg19

display range: chr7:27432076–28432076 [27432076–28432076]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:27932076

number of SNPs plotted: 6239

min P-value: 3.1E-19 [chr7:27932076]

max P-value: 1E0 [chr7:27562296]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

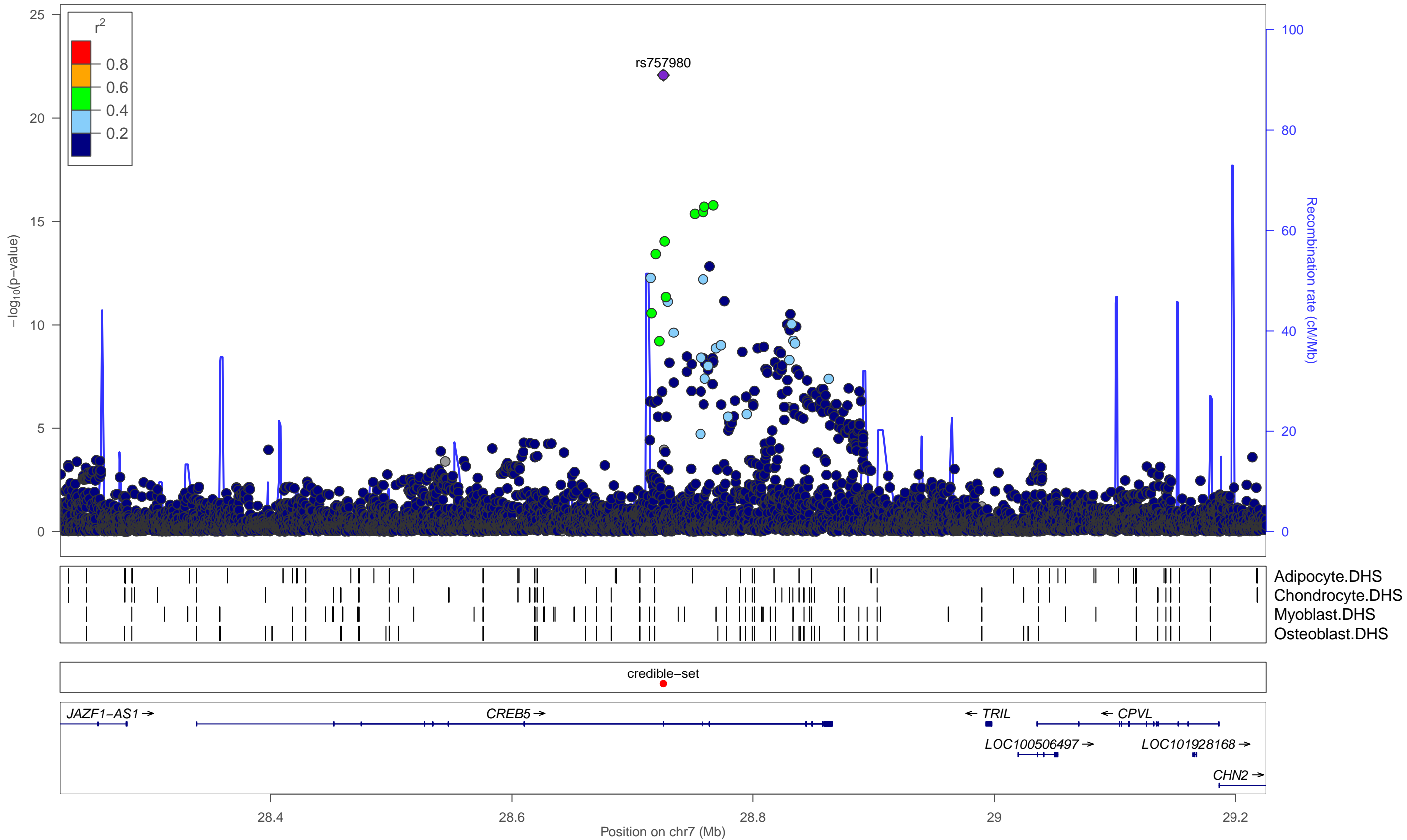
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	27.78495	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs10214930	EFO_0004209	GCST002563
7	27.97656	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs10486567	EFO_0001663	GCST002944
7	27.97736	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs7808935	EFO_0001663	GCST002944
7	28.16267	systemic lupus erythematosus	Bentham J	26/10/2015	Nat Genet	26502338	rs12531540	EFO_0002690	GCST003156
7	28.17499	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs67250450	EFO_0000685	GCST002318
7	28.18056	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs864745	EFO_0000384	GCST001729
7	28.18056	type ii diabetes mellitus	Zeggini E	30/03/2008	Nat Genet	18372903	rs864745	EFO_0001360	GCST000167
7	28.18509	body height	Soranzo N	3/04/2009	PLoS Genet	19343178	rs849141	EFO_0004339	GCST000372
7	28.18589	systemic lupus erythematosus	Bentham J	26/10/2015	Nat Genet	26502338	rs849142	EFO_0002690	GCST003155
7	28.18908	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs1029534	EFO_0004339	GCST001956
7	28.18941	body height	Johansson A	24/10/2008	Hum Mol Genet	18952825	rs1635852	EFO_0004339	GCST000254
7	28.18941	systemic lupus erythematosus	Martin JE	10/06/2013	Hum Mol Genet	23740937	rs1635852	EFO_0002690	GCST002069
7	28.18995	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1708299	EFO_0004339	GCST000817
7	28.19012	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs10276381	EFO_0000384	GCST003044
7	28.19622	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs849134	EFO_0001360	GCST000712
7	28.19641	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs849135	EFO_0001360	GCST002352
7	28.20530	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs552707	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs75396291	7	27.62060	3.7141	credible-set	red
rs17609417	7	27.66495	3.4479	credible-set	red
rs34369550	7	27.73453	2.6498	credible-set	red
rs7804317	7	27.73658	2.5663	credible-set	red
rs4722732	7	27.75538	2.5727	credible-set	red
rs757964	7	27.75979	2.0923	credible-set	red
rs34425029	7	27.76383	3.0762	credible-set	red
rs4722733	7	27.76438	2.6636	credible-set	red
rs11395541	7	27.77342	2.2507	credible-set	red
rs6978847	7	27.77647	2.5039	credible-set	red
rs7785305	7	27.77867	2.4975	credible-set	red
rs4722739	7	27.78697	2.0422	credible-set	red
rs560729238	7	27.84075	2.1734	credible-set	red
rs35816108	7	27.85436	2.0263	credible-set	red
rs2040666	7	27.96819	2.3231	credible-set	red
rs9801472	7	27.96989	2.2795	credible-set	red
rs2189036	7	27.97045	3.8322	credible-set	red
rs34118973	7	27.97136	2.3408	credible-set	red
rs7783465	7	27.97352	2.1015	credible-set	red
rs3919460	7	27.97671	2.0699	credible-set	red
rs67716336	7	27.98565	2.0956	credible-set	red
rs68104887	7	27.98630	2.0742	credible-set	red
rs17622746	7	27.99039	2.0714	credible-set	red
rs17622806	7	27.99266	2.0526	credible-set	red

eBMD SNP INDEX 122



date: Wed Jun 28 21:40:25 2017

build: hg19

display range: chr7:28225536–29225536 [28225536–29225536]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:28725536

number of SNPs plotted: 6752

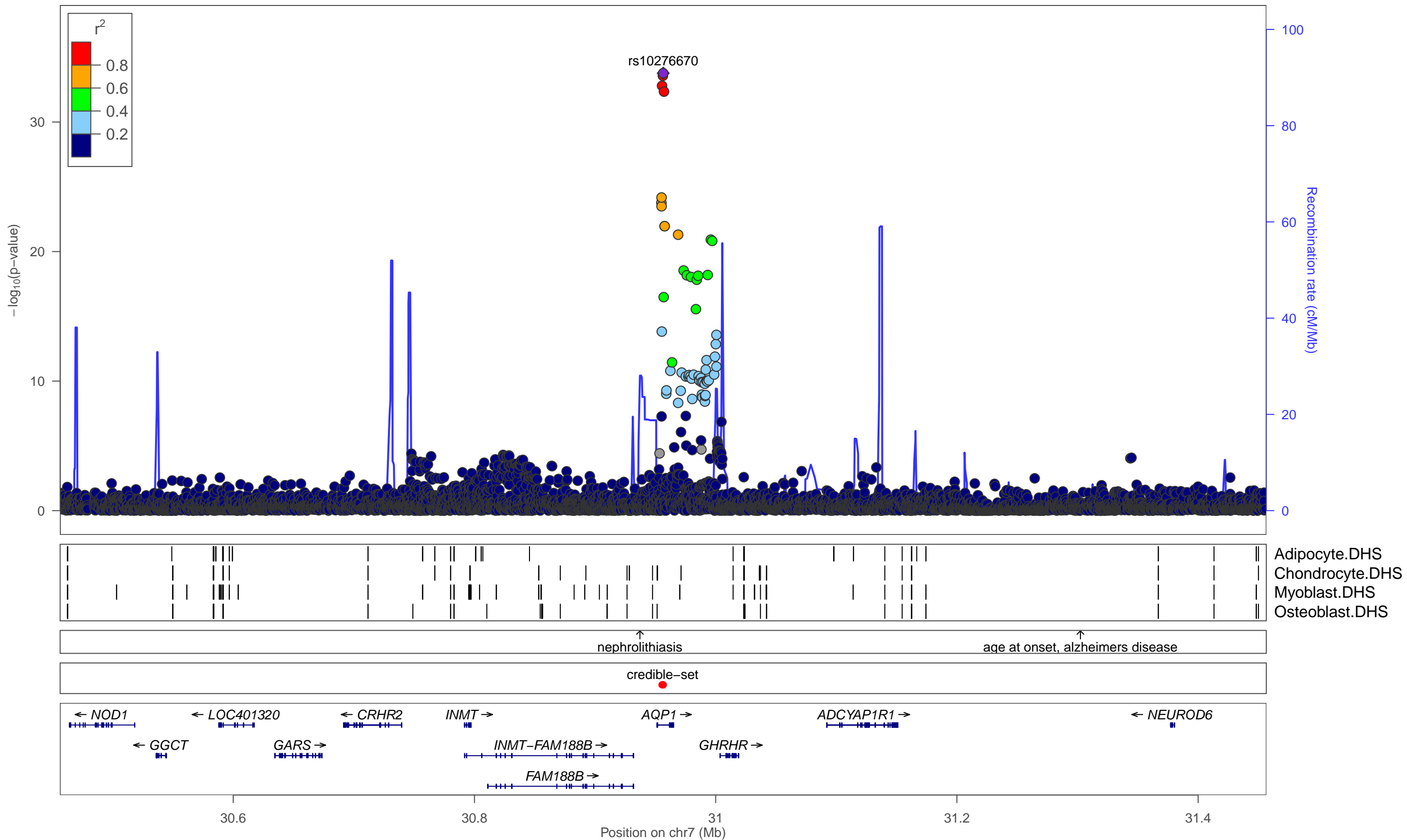
min P-value: 8.5E-23 [chr7:28725536]

max P-value: 1E0 [chr7:28379617]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs757980	7	28.72554	8.2882	credible-set	red

eBMD SNP INDEX 123



date: Wed Jun 28 21:40:24 2017

build: hg19

display range: chr7:30456489–31456489 [30456489–31456489]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:30956489

number of SNPs plotted: 6149

min P-value: 1.7E-34 [chr7:30956489]

max P-value: 1E0 [chr7:30523087]

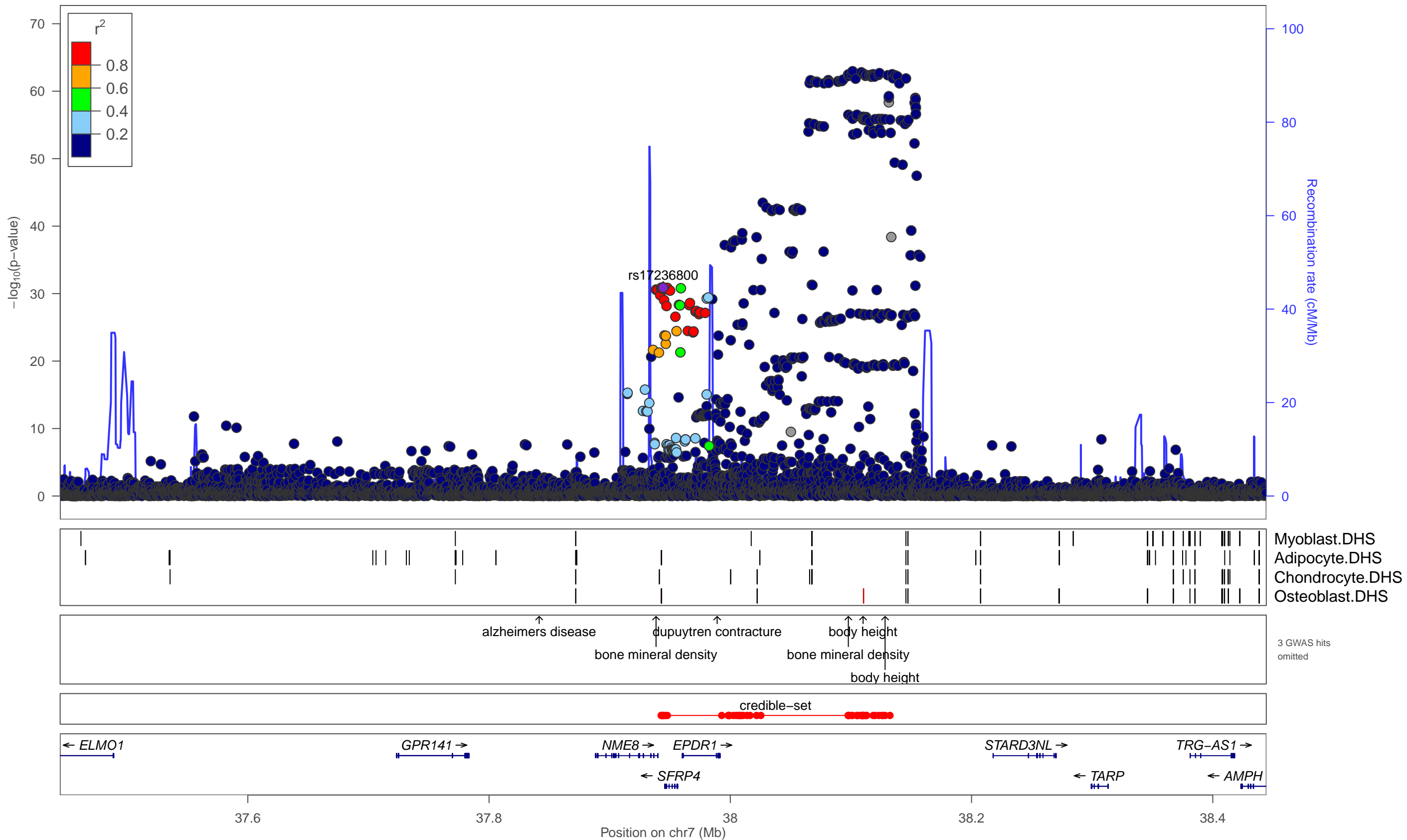
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	30.93718	nephrolithiasis	Urabe Y	1/03/2012	PLoS Genet	22396660	rs1000597	EFO_0004253	GCST001432
7	31.30239	age at onset, alzheimers disease	Herold C	2/02/2016	Mol Psychiatry	26830138	rs138090874	EFO_0004847, EFO_0000249	GCST003427

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
7:30955539_G_T	7	30.95554	2.3874	credible-set	red
rs10236571	7	30.95622	3.3365	credible-set	red
rs10276670	7	30.95649	3.6944	credible-set	red

eBMD SNP INDEX 124



date: Wed Jun 28 21:40:27 2017

build: hg19

display range: chr7:37444375–38444375 [37444375–38444375]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:37944375

number of SNPs plotted: 7250

min P-value: 1.1E-63 [chr7:38101405]

max P-value: 1E0 [chr7:37472656]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	37.84153	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs2718058	EFO_0000249	GCST002245
7	37.93842	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10226308	EFO_0003923	GCST001482
7	37.98909	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs16879765	EFO_0004229	GCST001144
7	38.09786	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1357651	EFO_0004339	NA
7	38.11007	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs6974574	EFO_0004339	GCST002647
7	38.12833	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6959212	EFO_0004339	GCST000817
7	38.12833	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6959212	EFO_0003923	GCST001482
7	38.13628	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1524058	EFO_0003923	GCST000494
7	38.15365	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4281029	EFO_0004339	NA

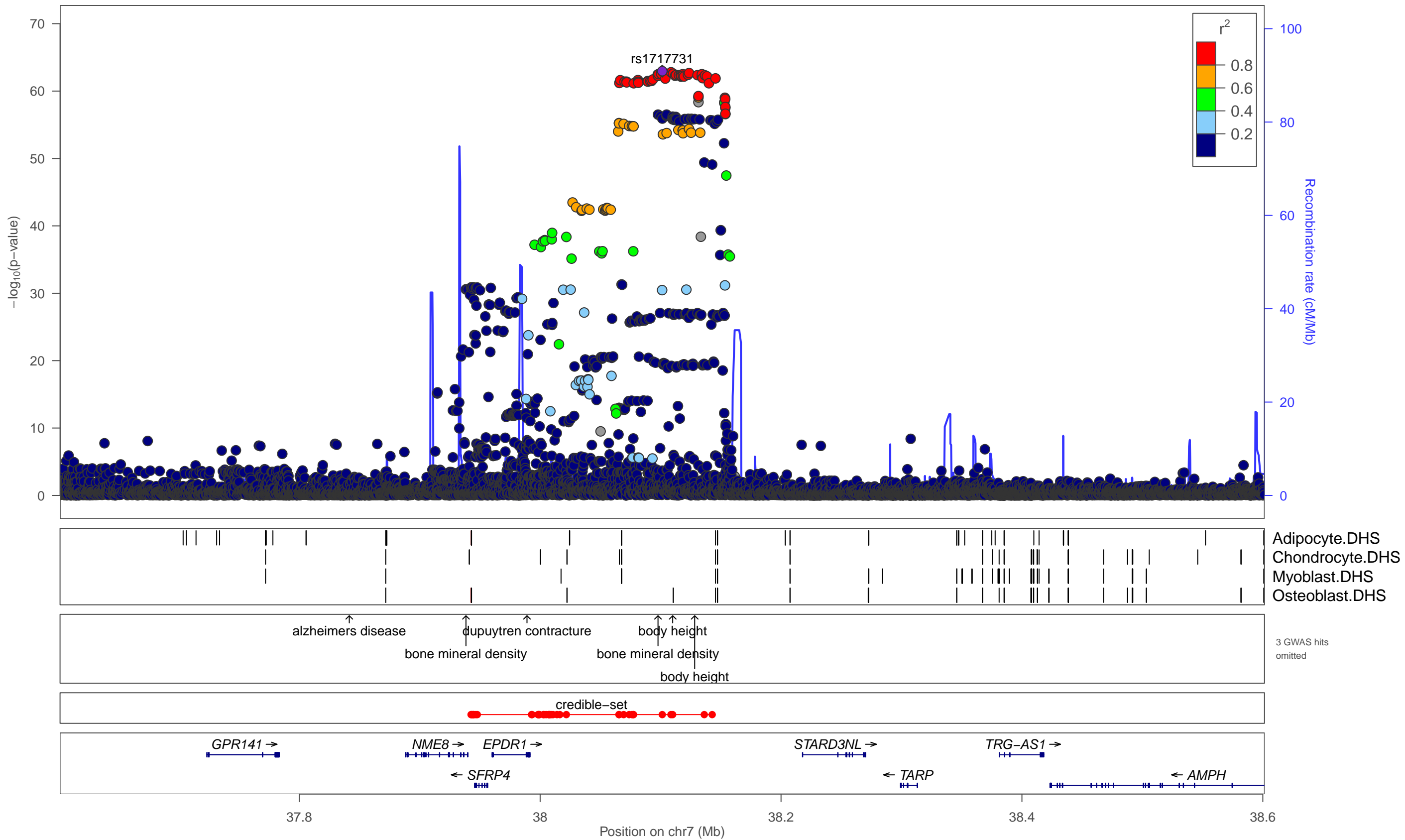
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35111064	7	37.94266	2.3490	credible-set	red
rs35755354	7	37.94286	2.5889	credible-set	red
rs10276922	7	37.94360	2.1684	credible-set	red
rs17236800	7	37.94438	2.4771	credible-set	red
rs28461247	7	37.94449	2.4868	credible-set	red
rs12701599	7	37.94510	3.8394	credible-set	red
rs1052974	7	37.94654	2.2265	credible-set	red
rs10264106	7	37.94782	2.1399	credible-set	red
rs1450849	7	37.99288	2.2932	credible-set	red
rs1621407	7	37.99821	2.2629	credible-set	red
rs1668362	7	37.99845	2.1886	credible-set	red
rs12701600	7	37.99885	2.1906	credible-set	red
rs1717732	7	37.99914	2.2645	credible-set	red
rs1668361	7	37.99943	2.0646	credible-set	red
rs4723719	7	38.00268	2.0770	credible-set	red
rs1717742	7	38.00500	2.1383	credible-set	red
rs1668354	7	38.00702	2.2043	credible-set	red
rs1619560	7	38.00722	2.0904	credible-set	red
rs976798	7	38.00817	2.2259	credible-set	red
rs1717744	7	38.00930	2.1859	credible-set	red
rs1668348	7	38.01075	2.1602	credible-set	red
rs1717737	7	38.01392	2.1517	credible-set	red
rs58039147	7	38.01637	2.3899	credible-set	red
rs74457970	7	38.02176	2.3838	credible-set	red
rs77336872	7	38.02534	2.0629	credible-set	red
rs1357652	7	38.09767	2.4012	credible-set	red
rs1357651	7	38.09786	2.3892	credible-set	red
rs1717747	7	38.09790	2.0960	credible-set	red
rs1721386	7	38.09831	2.3071	credible-set	red
rs1721385	7	38.10051	2.3438	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1717731	7	38.10140	3.1746	credible-set	red
rs1717726	7	38.10491	2.1099	credible-set	red
rs1721382	7	38.10498	2.4732	credible-set	red
rs6952567	7	38.10613	2.1120	credible-set	red
rs1464715	7	38.10860	2.8773	credible-set	red
rs1568758	7	38.10867	2.5025	credible-set	red
rs1464714	7	38.10880	2.2691	credible-set	red
rs1403988	7	38.10994	2.2859	credible-set	red
rs6956946	7	38.11003	2.9902	credible-set	red
rs6974574	7	38.11007	2.0134	credible-set	red
rs940347	7	38.11042	2.4299	credible-set	red
rs1524068	7	38.11063	2.2916	credible-set	red
rs1403987	7	38.11194	2.1143	credible-set	red
rs1717720	7	38.11261	2.2659	credible-set	red
rs112699728	7	38.11306	2.2825	credible-set	red
rs10272907	7	38.11846	2.0012	credible-set	red
rs10280939	7	38.12007	2.1975	credible-set	red
rs1524067	7	38.12297	2.3252	credible-set	red
rs1464712	7	38.12558	2.2858	credible-set	red
rs1524065	7	38.12659	2.2255	credible-set	red
rs6959212	7	38.12833	2.2243	credible-set	red
rs7793606	7	38.13237	2.0894	credible-set	red

eBMD SNP INDEX 125



date: Wed Jun 28 21:40:27 2017

build: hg19

display range: chr7:37601405–38601405 [37601405–38601405]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:38101405

number of SNPs plotted: 7372

min P-value: 1.1E-63 [chr7:38101405]

max P-value: 1E0 [chr7:37691637]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	37.84153	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs2718058	EFO_0000249	GCST002245
7	37.93842	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10226308	EFO_0003923	GCST001482
7	37.98909	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs16879765	EFO_0004229	GCST001144
7	38.09786	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1357651	EFO_0004339	NA
7	38.11007	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs6974574	EFO_0004339	GCST002647
7	38.12833	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6959212	EFO_0004339	GCST000817
7	38.12833	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6959212	EFO_0003923	GCST001482
7	38.13628	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1524058	EFO_0003923	GCST000494
7	38.15365	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4281029	EFO_0004339	NA

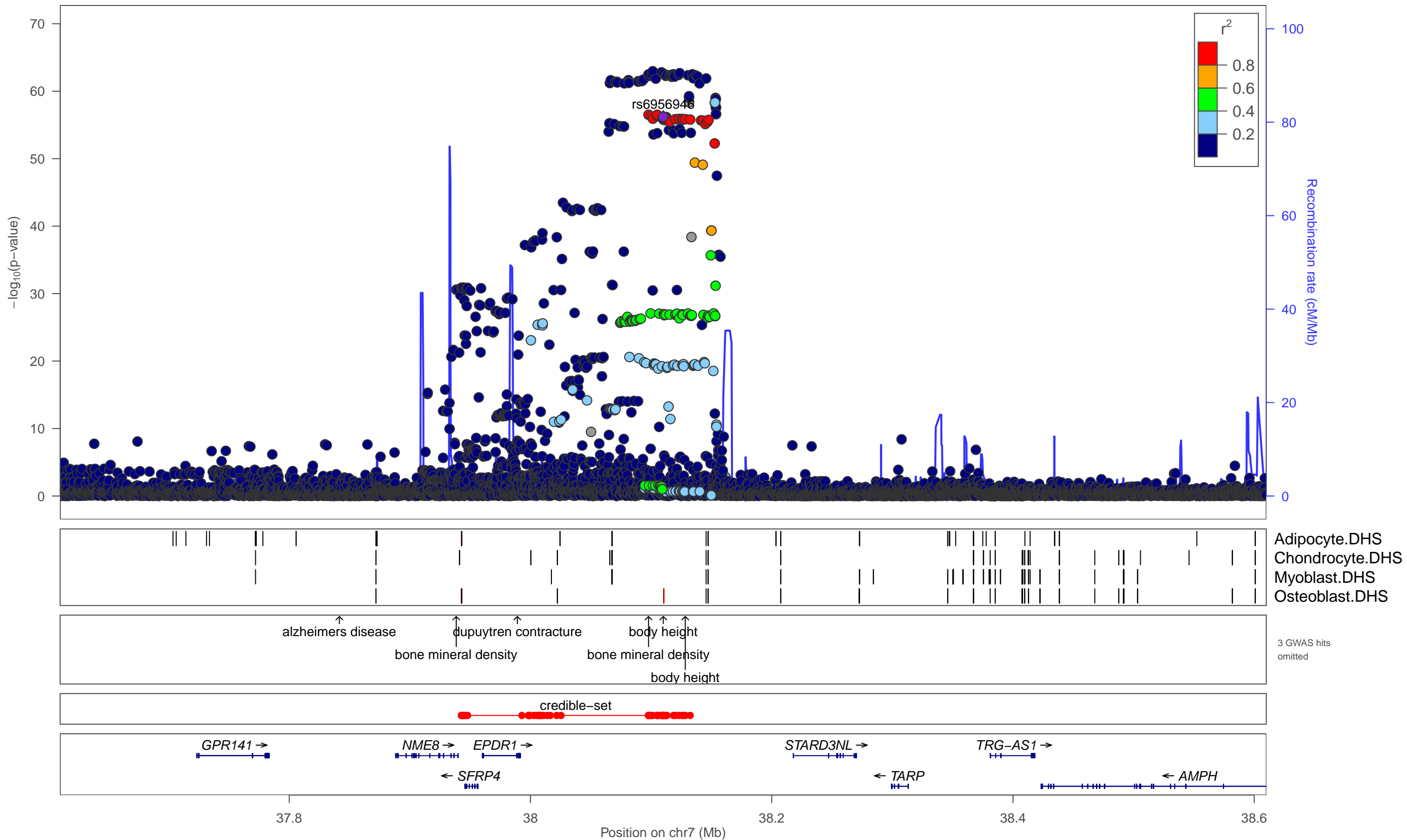
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35111064	7	37.94266	2.2289	credible-set	red
rs35755354	7	37.94286	2.3670	credible-set	red
rs10276922	7	37.94360	2.1277	credible-set	red
rs17236800	7	37.94438	2.3534	credible-set	red
rs28461247	7	37.94449	2.3278	credible-set	red
rs12701599	7	37.94510	3.9084	credible-set	red
rs1052974	7	37.94654	2.1993	credible-set	red
rs10264106	7	37.94782	2.1203	credible-set	red
rs1450849	7	37.99288	2.2620	credible-set	red
rs1993055	7	37.99334	2.0118	credible-set	red
rs1621407	7	37.99821	2.2300	credible-set	red
rs1668362	7	37.99845	2.1770	credible-set	red
rs12701600	7	37.99885	2.1762	credible-set	red
rs1717732	7	37.99914	2.2422	credible-set	red
rs1668361	7	37.99943	2.1278	credible-set	red
rs4723719	7	38.00268	2.1044	credible-set	red
rs2598090	7	38.00310	2.0358	credible-set	red
rs1717742	7	38.00500	2.1555	credible-set	red
rs1668354	7	38.00702	2.2009	credible-set	red
rs1619560	7	38.00722	2.1089	credible-set	red
rs1668353	7	38.00765	2.0221	credible-set	red
rs976798	7	38.00817	2.1982	credible-set	red
rs1717744	7	38.00930	2.2115	credible-set	red
rs1668348	7	38.01075	2.1740	credible-set	red
rs1717737	7	38.01392	2.1575	credible-set	red
rs58039147	7	38.01637	2.1442	credible-set	red
rs74457970	7	38.02176	2.1064	credible-set	red
rs1620285	7	38.06547	3.1029	credible-set	red
rs1721398	7	38.06548	3.0681	credible-set	red
rs1618546	7	38.06934	2.8788	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10278768	7	38.07392	2.5778	credible-set	red
rs1721394	7	38.07622	2.5279	credible-set	red
rs1717752	7	38.07740	2.4500	credible-set	red
rs1717751	7	38.07751	2.4819	credible-set	red
rs1717731	7	38.10140	2.3590	credible-set	red
rs1464715	7	38.10860	2.1038	credible-set	red
rs6956946	7	38.11003	2.1340	credible-set	red
rs1524058	7	38.13628	3.7823	credible-set	red
rs34102936	7	38.14284	3.2276	credible-set	red

eBMD SNP INDEX 126



date: Wed Jun 28 21:40:28 2017

build: hg19

display range: chr7:37610032–38610032 [37610032–38610032]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:38110032

number of SNPs plotted: 7393

min P-value: 1.1E-63 [chr7:38101405]

max P-value: 1E0 [chr7:37691637]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	37.84153	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs2718058	EFO_0000249	GCST002245
7	37.93842	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10226308	EFO_0003923	GCST001482
7	37.98909	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs16879765	EFO_0004229	GCST001144
7	38.09786	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1357651	EFO_0004339	NA
7	38.11007	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs6974574	EFO_0004339	GCST002647
7	38.12833	body height	Lango Allen H	29/09/2010	Nature	20881960	rs6959212	EFO_0004339	GCST000817
7	38.12833	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs6959212	EFO_0003923	GCST001482
7	38.13628	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs1524058	EFO_0003923	GCST000494
7	38.15365	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4281029	EFO_0004339	NA

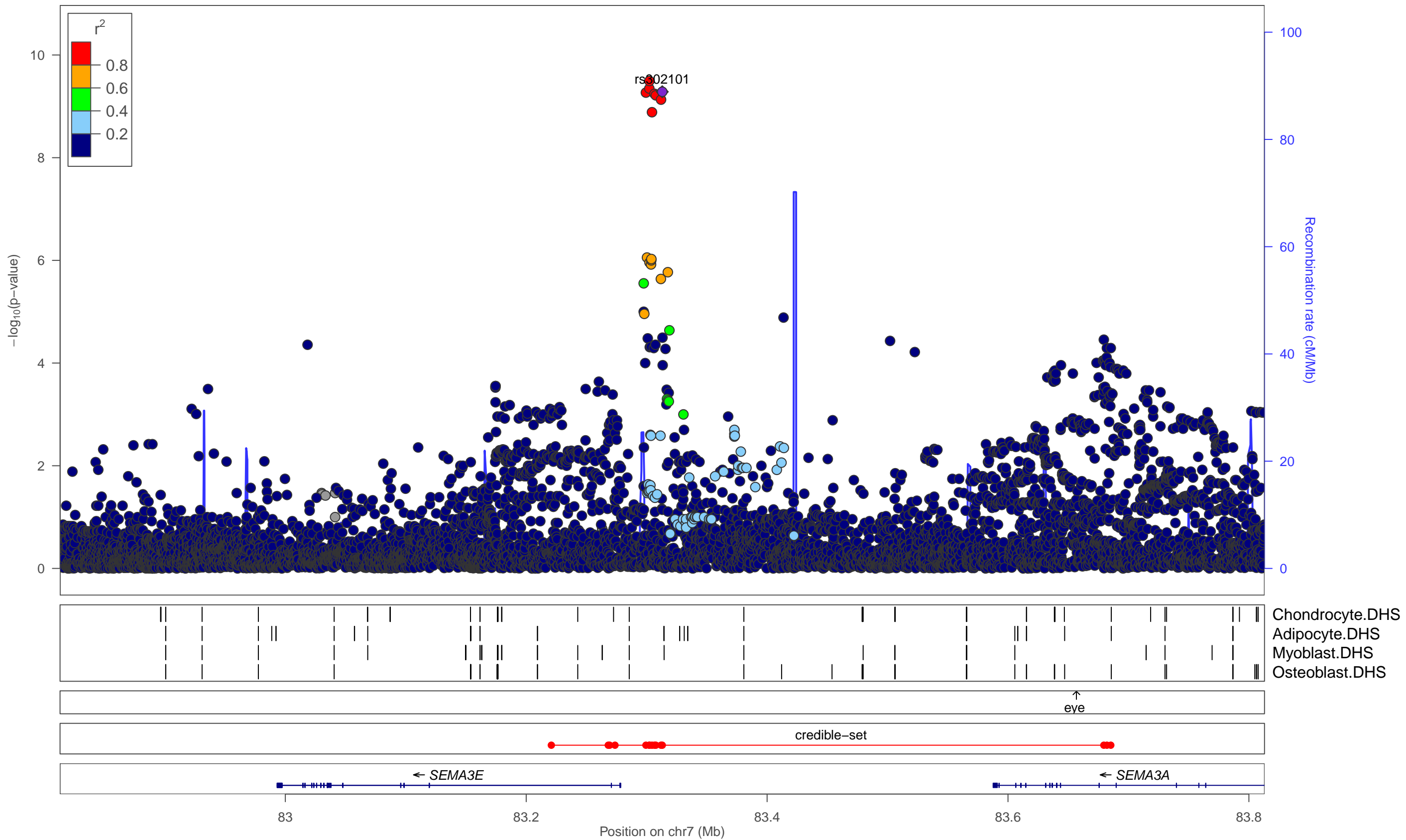
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35111064	7	37.94266	2.3635	credible-set	red
rs35755354	7	37.94286	2.5588	credible-set	red
rs10276922	7	37.94360	2.1215	credible-set	red
rs17236800	7	37.94438	2.5304	credible-set	red
rs28461247	7	37.94449	2.5653	credible-set	red
rs12701599	7	37.94510	3.8170	credible-set	red
rs1052974	7	37.94654	2.2880	credible-set	red
rs10264106	7	37.94782	2.2206	credible-set	red
rs1450849	7	37.99288	2.2858	credible-set	red
rs1621407	7	37.99821	2.2467	credible-set	red
rs1668362	7	37.99845	2.1999	credible-set	red
rs12701600	7	37.99885	2.2082	credible-set	red
rs1717732	7	37.99914	2.2590	credible-set	red
rs1668361	7	37.99943	2.0889	credible-set	red
rs4723719	7	38.00268	2.0448	credible-set	red
rs1717742	7	38.00500	2.1778	credible-set	red
rs1668354	7	38.00702	2.2185	credible-set	red
rs1619560	7	38.00722	2.0798	credible-set	red
rs976798	7	38.00817	2.2369	credible-set	red
rs1717744	7	38.00930	2.2340	credible-set	red
rs1668348	7	38.01075	2.1807	credible-set	red
rs1717737	7	38.01392	2.1590	credible-set	red
rs58039147	7	38.01637	2.4562	credible-set	red
rs74457970	7	38.02176	2.3579	credible-set	red
rs77336872	7	38.02534	2.0831	credible-set	red
rs1357652	7	38.09767	2.3691	credible-set	red
rs1357651	7	38.09786	2.4133	credible-set	red
rs1717747	7	38.09790	2.0636	credible-set	red
rs1721386	7	38.09831	2.3215	credible-set	red
rs5883629	7	38.09991	2.0506	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1721385	7	38.10051	2.3304	credible-set	red
rs1717731	7	38.10140	3.1764	credible-set	red
rs1717726	7	38.10491	2.1056	credible-set	red
rs1721382	7	38.10498	2.4734	credible-set	red
rs6952567	7	38.10613	2.0700	credible-set	red
rs1464715	7	38.10860	2.8832	credible-set	red
rs1568758	7	38.10867	2.5146	credible-set	red
rs1464714	7	38.10880	2.2598	credible-set	red
rs1403988	7	38.10994	2.3010	credible-set	red
rs6956946	7	38.11003	3.0043	credible-set	red
rs6974574	7	38.11007	2.0187	credible-set	red
rs939666	7	38.11039	2.0106	credible-set	red
rs940347	7	38.11042	2.4279	credible-set	red
rs1524068	7	38.11063	2.2872	credible-set	red
rs1403987	7	38.11194	2.1243	credible-set	red
rs1717720	7	38.11261	2.2658	credible-set	red
rs112699728	7	38.11306	2.3120	credible-set	red
rs10272907	7	38.11846	2.0768	credible-set	red
rs10280939	7	38.12007	2.1987	credible-set	red
rs1524067	7	38.12297	2.3507	credible-set	red
rs1464712	7	38.12558	2.3258	credible-set	red
rs1524065	7	38.12659	2.2354	credible-set	red
rs6959212	7	38.12833	2.2011	credible-set	red
rs7793606	7	38.13237	2.0787	credible-set	red

eBMD SNP INDEX 127



date: Wed Jun 28 21:40:24 2017

build: hg19

display range: chr7:82812959–83812959 [82812959–83812959]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:83312959

number of SNPs plotted: 6787

min P-value: 3.2E-10 [chr7:83302264]

max P-value: 1E0 [chr7:82819481]

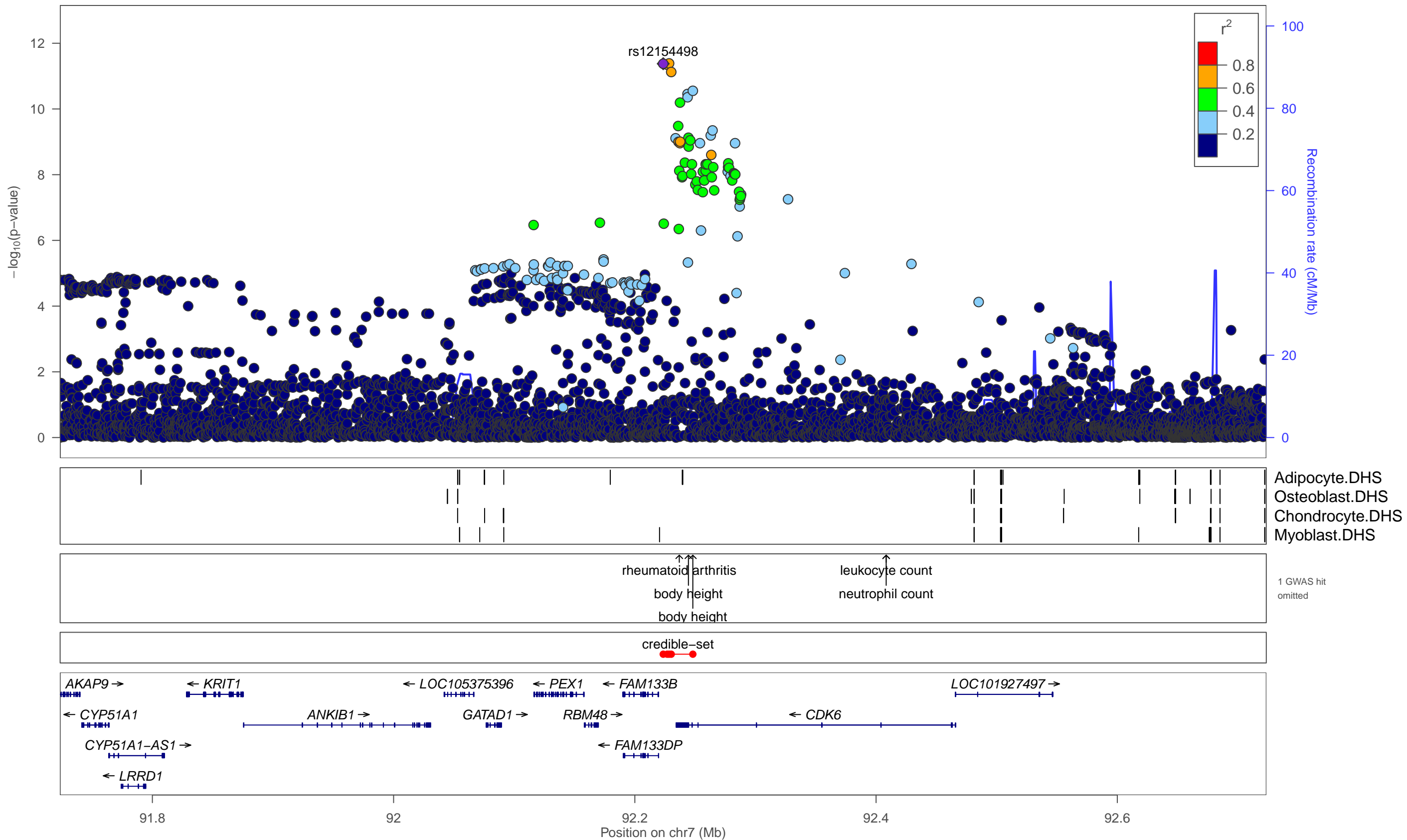
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	83.6568	eye	Larsson M	12/08/2011	Am J Hum Genet	21835309	rs10235789	EFO_0004731	GCST001199

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs113697470	7	83.22085	2.0412	credible-set	red
rs538007	7	83.26811	2.0455	credible-set	red
rs1391064	7	83.26925	2.0001	credible-set	red
rs73708517	7	83.27371	2.2428	credible-set	red
rs61254430	7	83.29937	2.8128	credible-set	red
rs489815	7	83.30221	2.9386	credible-set	red
rs643044	7	83.30226	3.1017	credible-set	red
rs613051	7	83.30442	2.3469	credible-set	red
rs571356	7	83.30649	2.7841	credible-set	red
rs540157	7	83.30760	2.6742	credible-set	red
rs215030	7	83.31193	2.5647	credible-set	red
rs302101	7	83.31296	2.7619	credible-set	red
rs10954741	7	83.67956	2.2786	credible-set	red
rs201804773	7	83.68211	2.2058	credible-set	red
rs10239684	7	83.68534	2.1264	credible-set	red

eBMD SNP INDEX 128



date: Wed Jun 28 21:40:16 2017

build: hg19

display range: chr7:91723518–92723518 [91723518–92723518]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:92223518

number of SNPs plotted: 4582

min P-value: 4.1E-12 [chr7:92228400]

max P-value: 1E0 [chr7:91780842]

omitted GWAS Hits: chr7:92.40837–leukocyte count

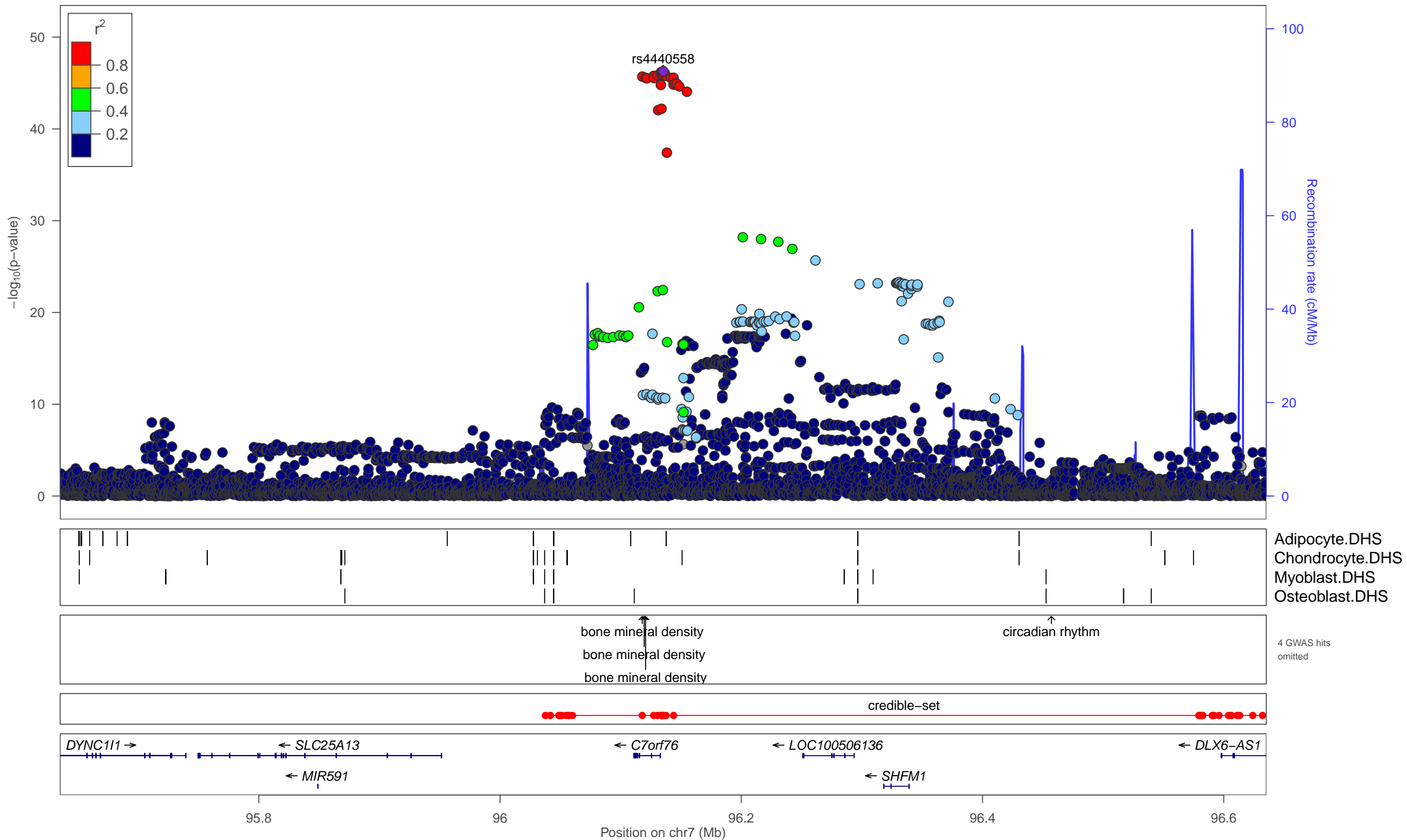
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	92.23683	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs4272	EFO_0000685	GCST002318
7	92.24442	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs42039	EFO_0004339	GCST002647
7	92.24808	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs42235	EFO_0004339	GCST001956
7	92.24808	body height	Lango Allen H	29/09/2010	Nature	20881960	rs42235	EFO_0004339	GCST000817
7	92.26441	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs2282978	EFO_0004339	GCST000175
7	92.26441	body height	Soranzo N	3/04/2009	PLoS Genet	19343178	rs2282978	EFO_0004339	GCST000372
7	92.26441	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs2282978	EFO_0004339	GCST000174
7	92.40837	leukocyte count	Kamatani Y	7/02/2010	Nat Genet	20139978	rs445	EFO_0004308	GCST000589
7	92.40837	leukocyte count	Keller MF	5/08/2014	Hum Mol Genet	25096241	rs445	EFO_0004308	GCST002556
7	92.40837	neutrophil count	Okada Y	30/06/2011	PLoS Genet	21738478	rs445	EFO_0004833	GCST001134

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12154498	7	92.22352	2.8724	credible-set	red
rs6973439	7	92.22681	2.9704	credible-set	red
rs2888877	7	92.22840	3.0293	credible-set	red
rs740047	7	92.23016	2.7228	credible-set	red
rs42235	7	92.24808	2.0276	credible-set	red

eBMD SNP INDEX 129



date: Wed Jun 28 21:40:29 2017

build: hg19

display range: chr7:95635274–96635274 [95635274–96635274]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:96135274

number of SNPs plotted: 5136

min P-value: 5.2E-47 [chr7:96135274]

max P-value: 1E0 [chr7:95657501]

omitted GWAS Hits: chr7:96.457119–circadian rhythm, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	96.11792	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs4729260	EFO_0003923	GCST000494
7	96.11948	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10429035	EFO_0003923	GCST002276
7	96.12068	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4727338	EFO_0003923	GCST001482
7	96.13332	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6965122	EFO_0004339	NA
7	96.13353	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7781370	EFO_0003923	GCST000495
7	96.13498	nicotine glucuronidation	Patel Y	7/10/2014	Cancer Epidemiol Biomarkers Prev	25293881	rs4132568	EFO_0006507	GCST002649
7	96.15491	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4448201	EFO_0004339	NA
7	96.45712	circadian rhythm	Hu Y	2/02/2016	Nat Commun	26835600	rs2948276	EFO_0004354	GCST003429

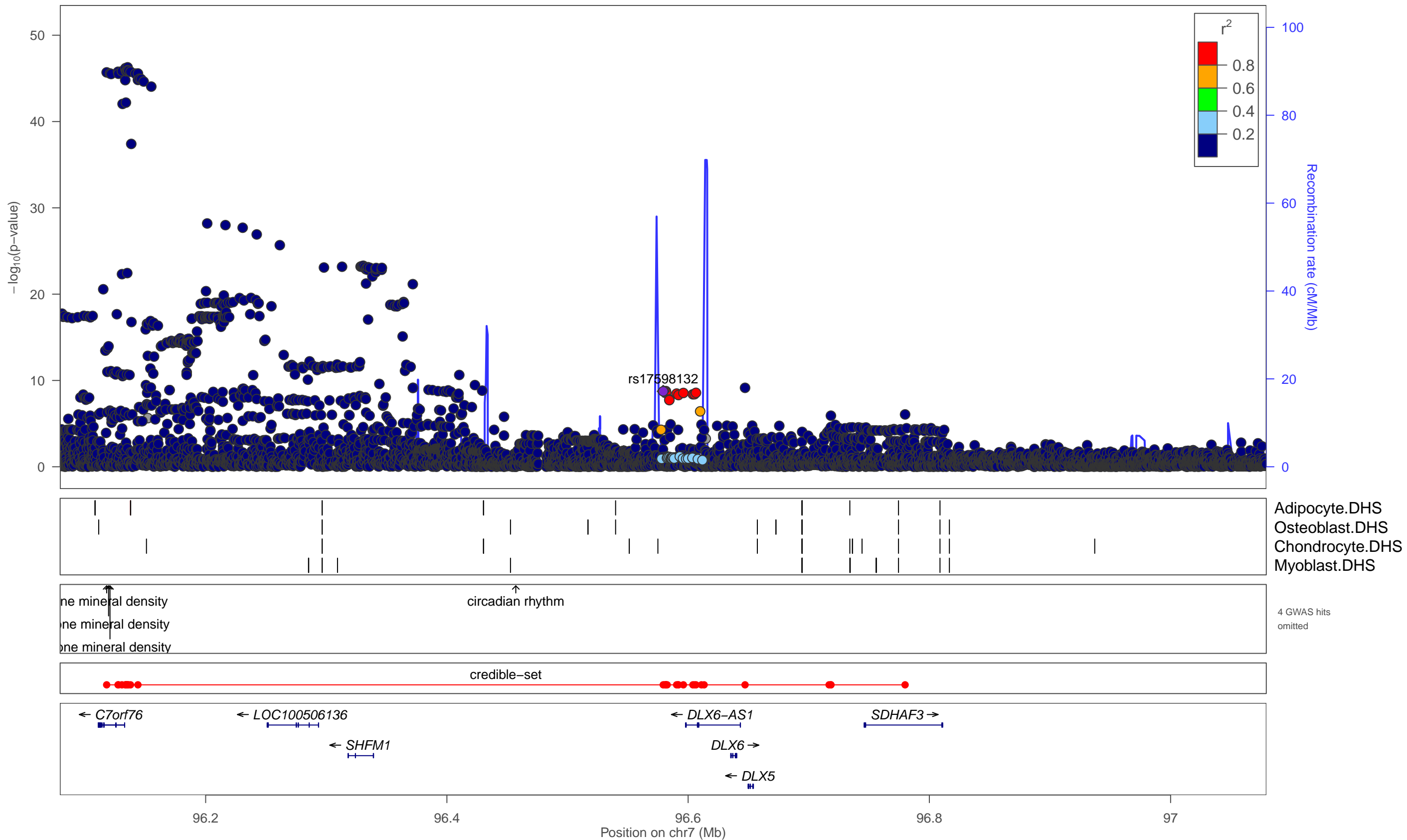
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12155455	7	96.03757	2.5404	credible-set	red
rs7778451	7	96.04156	2.3332	credible-set	red
rs1859279	7	96.04173	2.3749	credible-set	red
rs6465503	7	96.04871	2.3068	credible-set	red
rs1989968	7	96.04950	2.4128	credible-set	red
rs55798900	7	96.05102	2.5270	credible-set	red
rs17308346	7	96.05114	2.6346	credible-set	red
rs2524977	7	96.05454	2.2622	credible-set	red
rs17249054	7	96.05626	2.8190	credible-set	red
rs2524976	7	96.05734	2.5641	credible-set	red
rs2724022	7	96.06006	2.0812	credible-set	red
rs4729260	7	96.11792	2.1894	credible-set	red
rs6465508	7	96.12735	2.1967	credible-set	red
rs10808100	7	96.13055	2.2450	credible-set	red
rs7798294	7	96.13350	2.5470	credible-set	red
rs7781370	7	96.13353	2.6982	credible-set	red
rs6465511	7	96.13411	2.3056	credible-set	red
rs4370463	7	96.13440	2.3100	credible-set	red
rs4440558	7	96.13527	2.7987	credible-set	red
rs111924001	7	96.13529	2.4039	credible-set	red
rs4342521	7	96.13600	2.3417	credible-set	red
rs10085588	7	96.13767	2.1943	credible-set	red
7:96143841_A_ACC	7	96.14384	2.0188	credible-set	red
rs17598132	7	96.57934	2.6669	credible-set	red
rs73402670	7	96.58034	2.5634	credible-set	red
rs722470	7	96.58147	2.6311	credible-set	red
rs17656761	7	96.58155	2.6692	credible-set	red
rs138729562	7	96.58163	2.5284	credible-set	red
rs17598306	7	96.58181	2.3826	credible-set	red
rs73232631	7	96.58262	2.4881	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17598579	7	96.59047	2.3173	credible-set	red
rs73232633	7	96.59167	2.4533	credible-set	red
rs73402679	7	96.59197	2.1001	credible-set	red
rs2016644	7	96.59605	2.3810	credible-set	red
rs17657291	7	96.60394	2.2320	credible-set	red
rs2189774	7	96.60529	2.2284	credible-set	red
rs17657370	7	96.60649	2.4441	credible-set	red
rs56363908	7	96.61105	3.3120	credible-set	red
rs73232637	7	96.61325	2.1897	credible-set	red
rs79130674	7	96.62406	2.1507	credible-set	red
rs78006708	7	96.63215	2.1133	credible-set	red

eBMD SNP INDEX 130



date: Wed Jun 28 21:40:31 2017

build: hg19

display range: chr7:96079339–97079339 [96079339–97079339]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:96579339

number of SNPs plotted: 5771

min P-value: 5.2E-47 [chr7:96135274]

max P-value: 1E0 [chr7:96257900]

omitted GWAS Hits: chr7:96.457119–circadian rhythm, NA

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	96.11792	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs4729260	EFO_0003923	GCST000494
7	96.11948	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10429035	EFO_0003923	GCST002276
7	96.12068	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4727338	EFO_0003923	GCST001482
7	96.13332	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs6965122	EFO_0004339	NA
7	96.13353	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7781370	EFO_0003923	GCST000495
7	96.13498	nicotine glucuronidation	Patel Y	7/10/2014	Cancer Epidemiol Biomarkers Prev	25293881	rs4132568	EFO_0006507	GCST002649
7	96.15491	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4448201	EFO_0004339	NA
7	96.45712	circadian rhythm	Hu Y	2/02/2016	Nat Commun	26835600	rs2948276	EFO_0004354	GCST003429

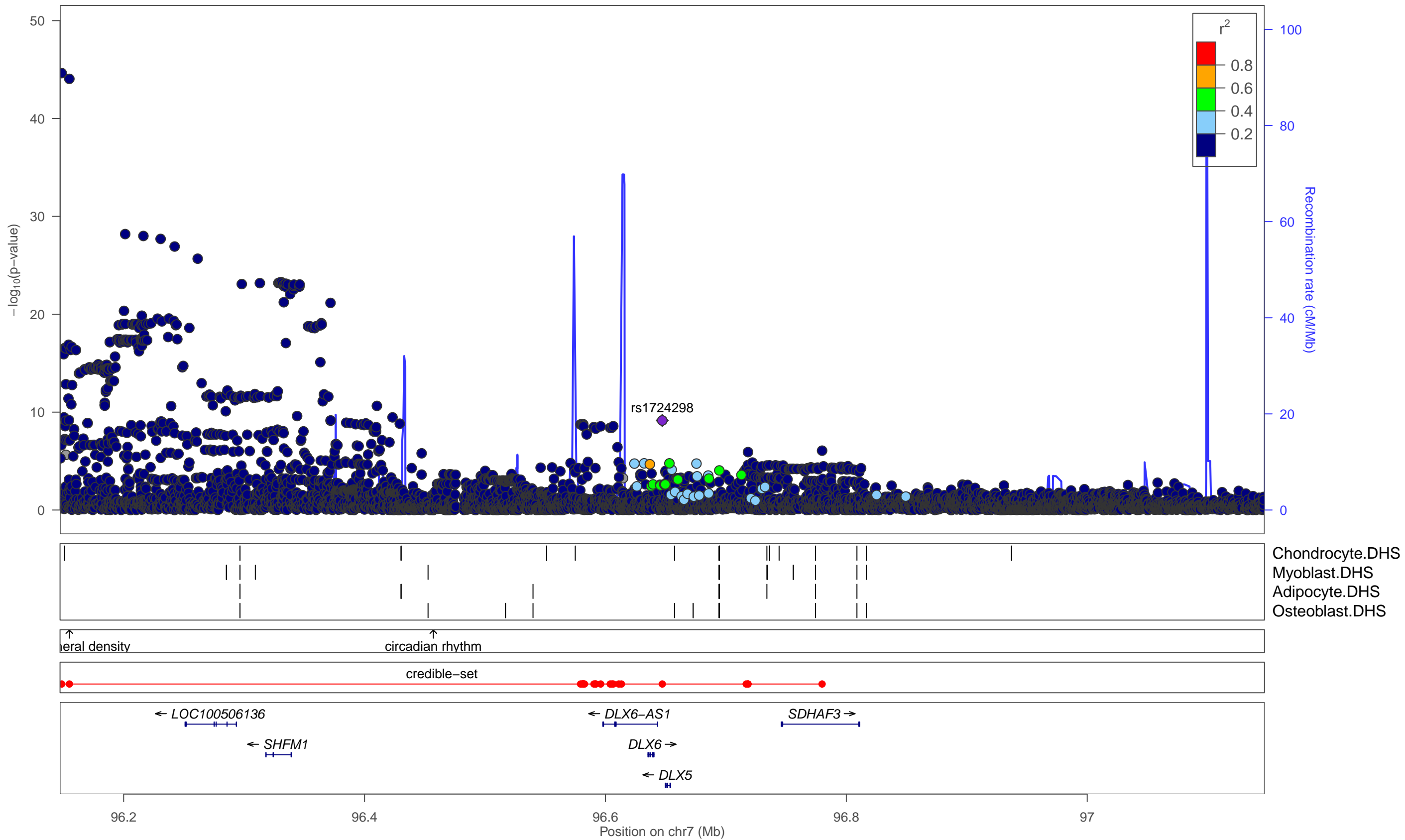
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4729260	7	96.11792	2.4966	credible-set	red
rs6465508	7	96.12735	2.3013	credible-set	red
rs10661423	7	96.12769	2.0117	credible-set	red
rs10808100	7	96.13055	2.2804	credible-set	red
rs7798294	7	96.13350	2.5825	credible-set	red
rs7781370	7	96.13353	2.7355	credible-set	red
rs6465511	7	96.13411	2.3124	credible-set	red
rs4370463	7	96.13440	2.3525	credible-set	red
rs4440558	7	96.13527	2.8347	credible-set	red
rs111924001	7	96.13529	2.4447	credible-set	red
rs4342521	7	96.13600	2.4054	credible-set	red
rs10085588	7	96.13767	2.2401	credible-set	red
7:96143841_A_ACC	7	96.14384	2.0122	credible-set	red
rs17598132	7	96.57934	2.7490	credible-set	red
rs73402670	7	96.58034	2.6545	credible-set	red
rs722470	7	96.58147	2.7198	credible-set	red
rs17656761	7	96.58155	2.7381	credible-set	red
rs138729562	7	96.58163	2.6231	credible-set	red
rs17598306	7	96.58181	2.4297	credible-set	red
rs73232631	7	96.58262	2.7365	credible-set	red
rs17598579	7	96.59047	2.3188	credible-set	red
rs73232633	7	96.59167	2.7133	credible-set	red
rs73402679	7	96.59197	2.0819	credible-set	red
rs2016644	7	96.59605	2.4064	credible-set	red
rs17657291	7	96.60394	2.2339	credible-set	red
rs2189774	7	96.60529	2.2441	credible-set	red
rs17657370	7	96.60649	2.4685	credible-set	red
rs56363908	7	96.61105	3.5859	credible-set	red
rs73232637	7	96.61325	2.3055	credible-set	red
rs1724298	7	96.64718	13.5608	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1917939	7	96.71686	2.1621	credible-set	red
rs66801005	7	96.71836	2.6581	credible-set	red
rs78456152	7	96.71837	2.8167	credible-set	red
rs34184405	7	96.77987	2.1888	credible-set	red

eBMD SNP INDEX 131



date: Wed Jun 28 21:40:19 2017

build: hg19

display range: chr7:96147184–97147184 [96147184–97147184]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:96647184

number of SNPs plotted: 5744

min P-value: 2.3E-45 [chr7:96148577]

max P-value: 1E0 [chr7:96257900]

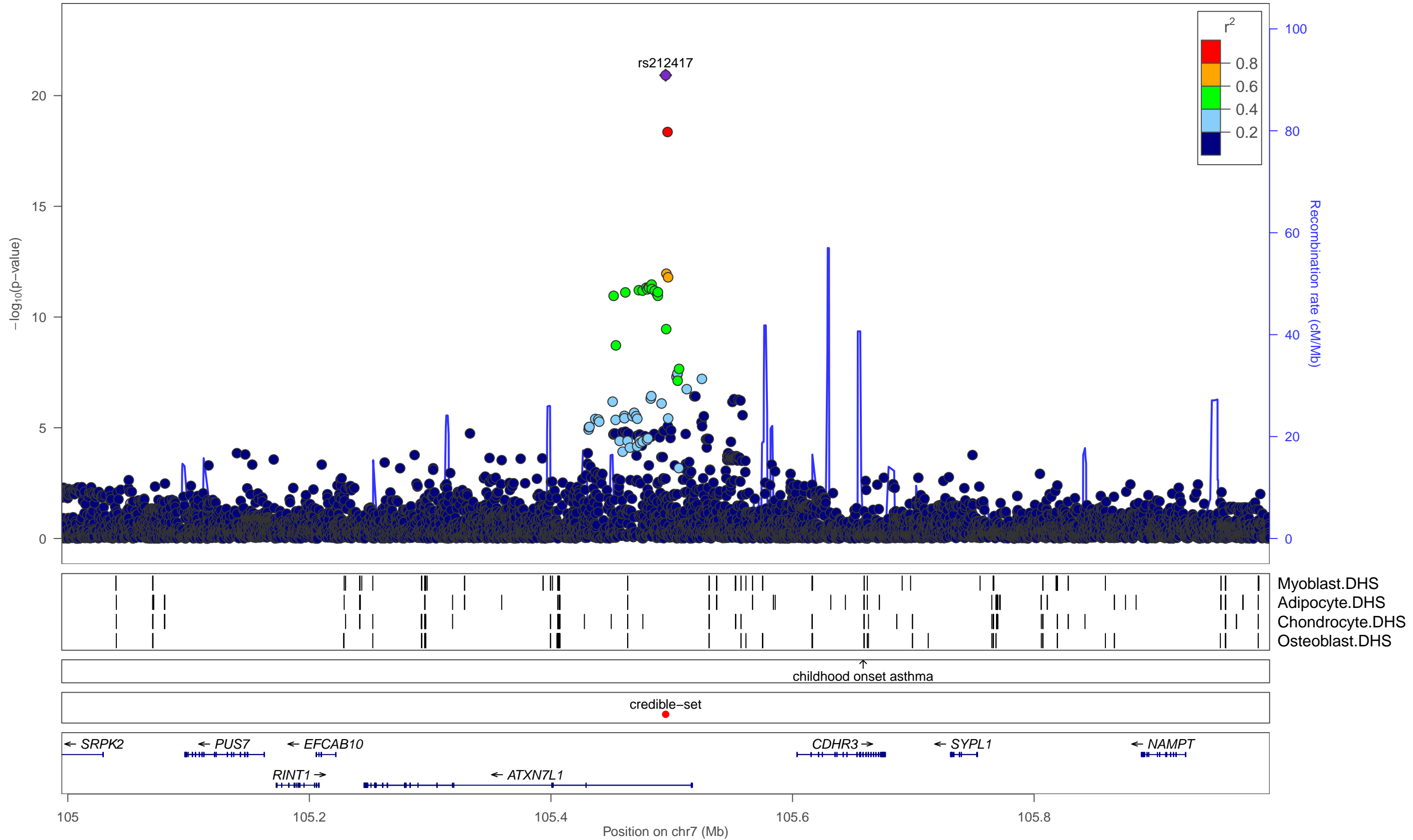
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	96.15491	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs4448201	EFO_0004339	NA
7	96.45712	circadian rhythm	Hu Y	2/02/2016	Nat Commun	26835600	rs2948276	EFO_0004354	GCST003429

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6971293	7	96.14858	4.2133	credible-set	red
rs4448201	7	96.15491	2.9042	credible-set	red
rs17598132	7	96.57934	2.7167	credible-set	red
rs73402670	7	96.58034	2.6334	credible-set	red
rs722470	7	96.58147	2.6916	credible-set	red
rs17656761	7	96.58155	2.7086	credible-set	red
rs138729562	7	96.58163	2.6112	credible-set	red
rs17598306	7	96.58181	2.4355	credible-set	red
rs73232631	7	96.58262	2.7588	credible-set	red
rs17598579	7	96.59047	2.3548	credible-set	red
rs73232633	7	96.59167	2.7412	credible-set	red
rs73402679	7	96.59197	2.1459	credible-set	red
rs2016644	7	96.59605	2.4268	credible-set	red
rs17657291	7	96.60394	2.2666	credible-set	red
rs2189774	7	96.60529	2.2765	credible-set	red
rs17657370	7	96.60649	2.4707	credible-set	red
rs56363908	7	96.61105	3.4927	credible-set	red
rs73232637	7	96.61325	2.4177	credible-set	red
rs1724298	7	96.64718	7.6153	credible-set	red
rs1917939	7	96.71686	2.0920	credible-set	red
rs66801005	7	96.71836	2.5848	credible-set	red
rs78456152	7	96.71837	2.7530	credible-set	red
rs34184405	7	96.77987	2.1091	credible-set	red

eBMD SNP INDEX 132



date: Wed Jun 28 21:40:32 2017

build: hg19

display range: chr7:104994963–105994963 [104994963–105994963]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:105494963

number of SNPs plotted: 6357

min P-value: 1.2E-21 [chr7:105494963]

max P-value: 1E0 [chr7:105007096]

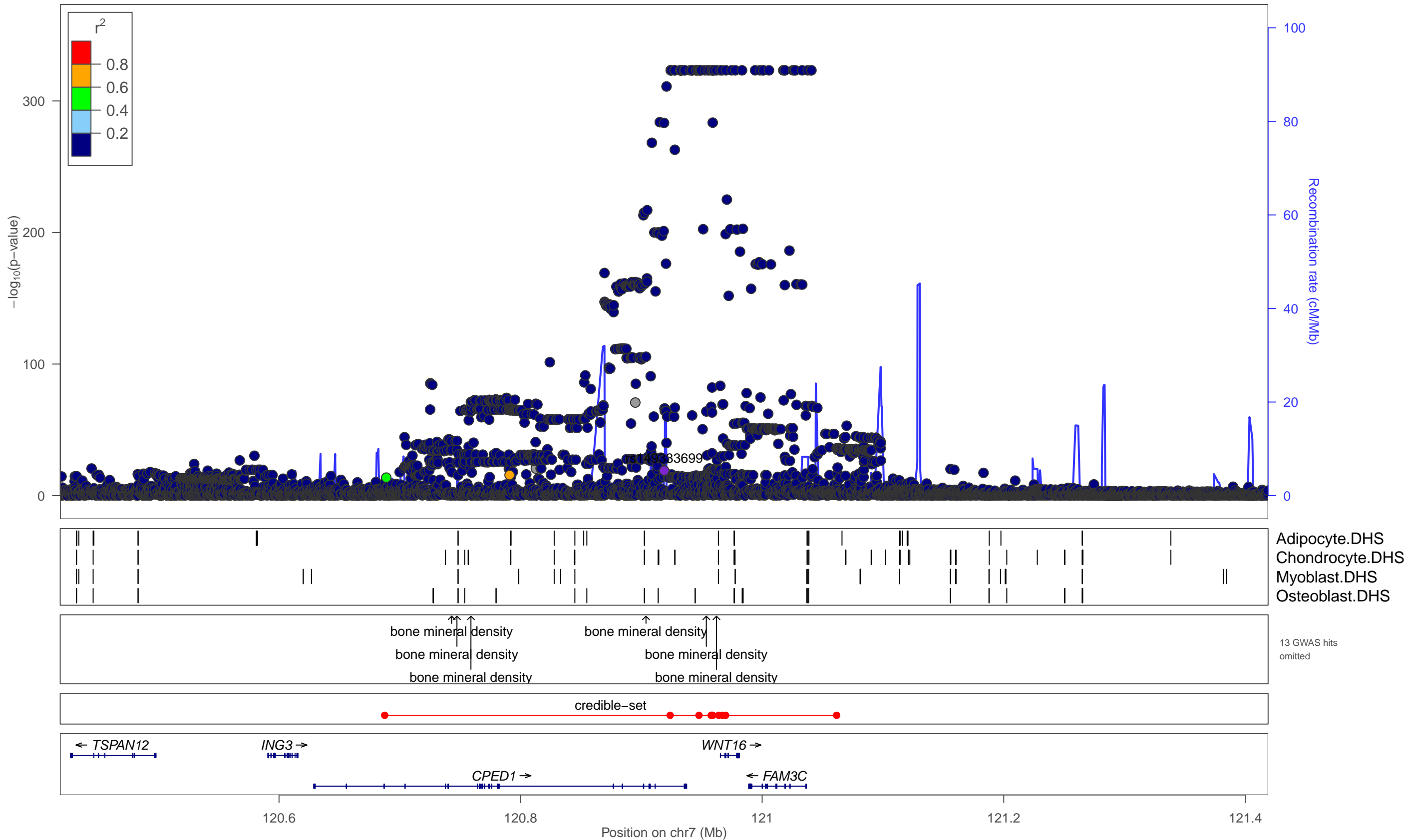
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	105.6585	childhood onset asthma	Bonnelykke K	17/11/2013	Nat Genet	24241537	rs6967330	EFO_0004591	GCST002275

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs212417	7	105.495	6.0873	credible-set	red

eBMD SNP INDEX 133



date: Wed Jun 28 21:40:43 2017

build: hg19

display range: chr7:120418863–121418863 [120418863–121418863]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:120918863

number of SNPs plotted: 6031

min P-value: 5E-324 [chr7:120924338]

max P-value: 1E0 [chr7:120514632]

omitted GWAS Hits: chr7:120.903815–bone mineral density, chr7:120.953756–bone mineral density

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

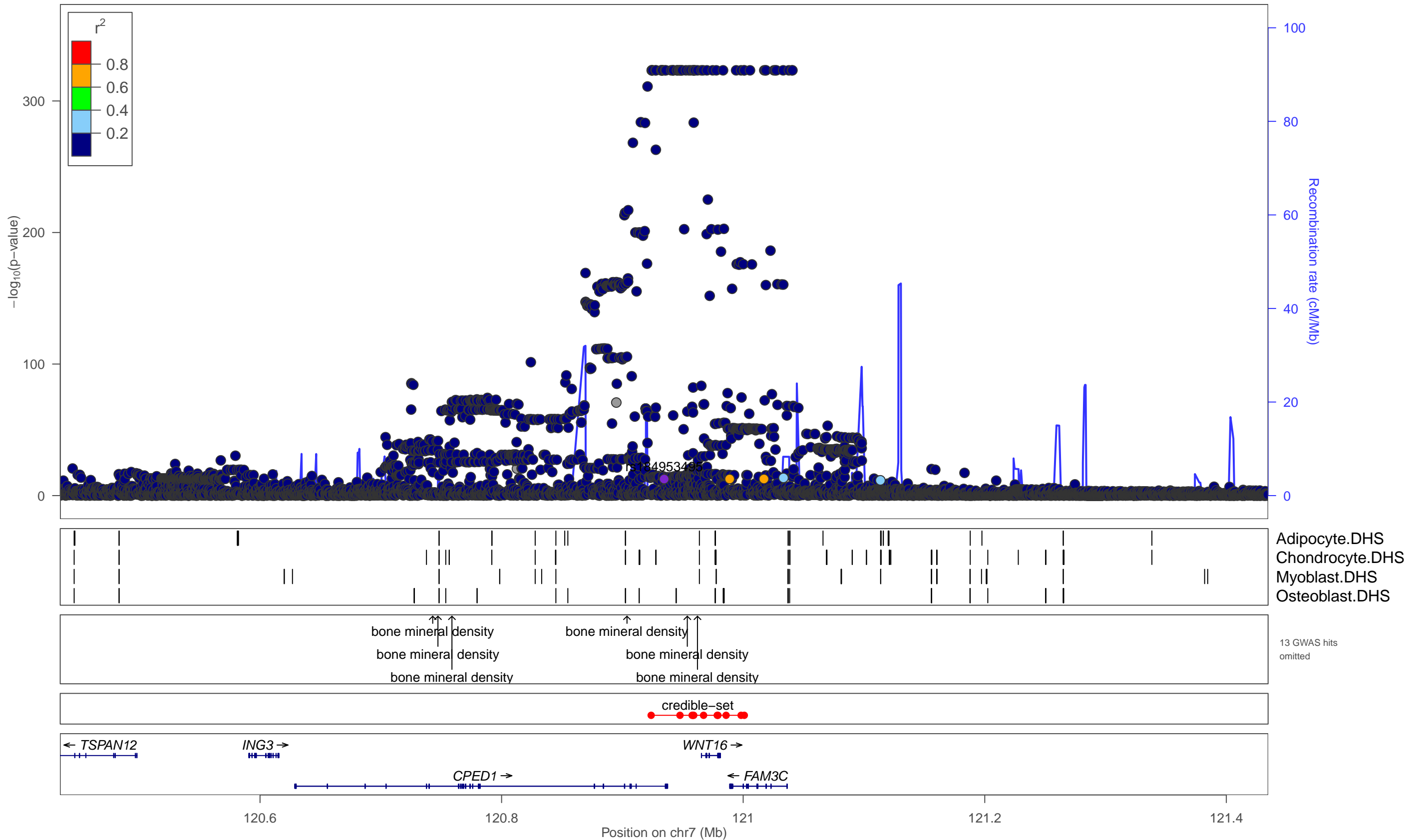
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	120.7430	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs148771817	EFO_0004339	NA
7	120.7473	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs13223036	EFO_0003923	GCST002493
7	120.7589	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs798943	EFO_0003923	GCST002496
7	120.7851	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13245690	EFO_0003923	GCST001482
7	120.8435	areal bone mineral density	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007620	GCST002953
7	120.8435	bone mineral content	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007621	GCST002952
7	120.9038	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs4609139	EFO_0003923	GCST001594
7	120.9538	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs76042375	EFO_0004339	NA
7	120.9622	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0003923	GCST002334
7	120.9622	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0004514	GCST002335
7	120.9622	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0005654	GCST002333
7	120.9668	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs3779381	EFO_0004339	NA
7	120.9698	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2908004	EFO_0003923	GCST002492
7	120.9698	bone mineral density	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2908004	EFO_0003923	GCST001595
7	120.9748	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3801387	EFO_0003923	GCST001482
7	120.9791	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2707466	EFO_0004840	GCST001593
7	120.9833	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10242100	EFO_0003923	GCST002276
7	121.0007	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7807953	EFO_0004339	NA
7	121.0186	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs917727	EFO_0003923	GCST001594
7	121.0331	bone mineral density	Cho YS	26/04/2009	Nat Genet	19396169	rs7776725	EFO_0003923	GCST000381
7	121.0331	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7776725	EFO_0003923	GCST002494
7	121.0331	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7776725	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs192528800	7	120.6875	13.5779	credible-set	red
7:120923818_A_G	7	120.9238	13.5779	credible-set	red
rs117191816	7	120.9477	13.5779	credible-set	red
rs150602309	7	120.9577	13.5779	credible-set	red
rs2536201	7	120.9584	13.5779	credible-set	red
rs2908008	7	120.9591	13.5779	credible-set	red
rs3757552	7	120.9640	13.5779	credible-set	red
rs2536192	7	120.9672	13.1334	credible-set	red
rs2908004	7	120.9698	13.5779	credible-set	red
rs574242738	7	121.0617	5.9345	credible-set	red

eBMD SNP INDEX 134



date: Wed Jun 28 21:40:43 2017

build: hg19

display range: chr7:120434584–121434584 [120434584–121434584]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:120934584

number of SNPs plotted: 6054

min P-value: 5E-324 [chr7:120924338]

max P-value: 1E0 [chr7:120514632]

omitted GWAS Hits: chr7:120.903815–bone mineral density, chr7:120.953756–bone mineral density

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

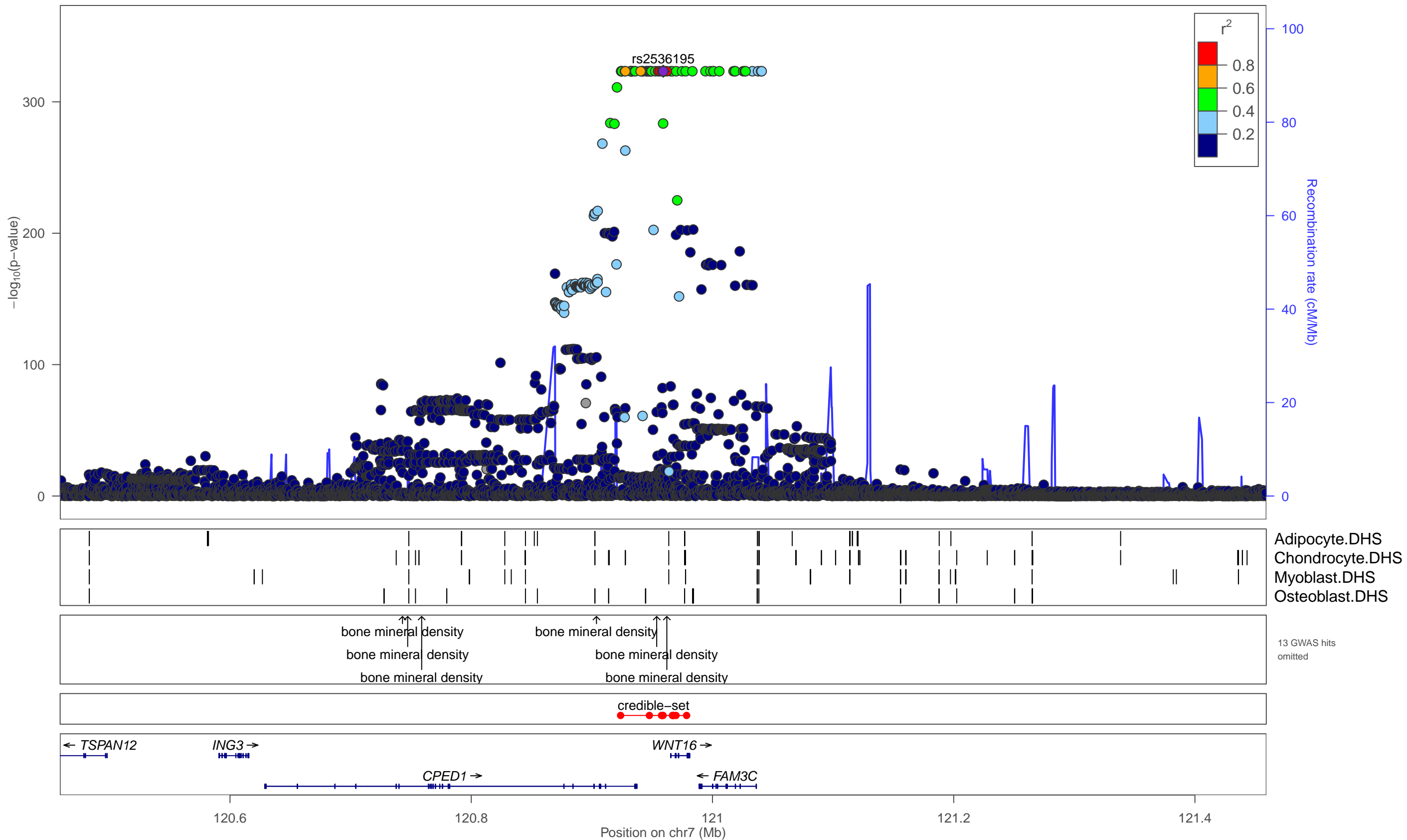
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	120.7430	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs148771817	EFO_0004339	NA
7	120.7473	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs13223036	EFO_0003923	GCST002493
7	120.7589	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs798943	EFO_0003923	GCST002496
7	120.7851	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13245690	EFO_0003923	GCST001482
7	120.8435	areal bone mineral density	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007620	GCST002953
7	120.8435	bone mineral content	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007621	GCST002952
7	120.9038	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs4609139	EFO_0003923	GCST001594
7	120.9538	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs76042375	EFO_0004339	NA
7	120.9622	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0003923	GCST002334
7	120.9622	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0004514	GCST002335
7	120.9622	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0005654	GCST002333
7	120.9668	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs3779381	EFO_0004339	NA
7	120.9698	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2908004	EFO_0003923	GCST002492
7	120.9698	bone mineral density	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2908004	EFO_0003923	GCST001595
7	120.9748	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3801387	EFO_0003923	GCST001482
7	120.9791	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2707466	EFO_0004840	GCST001593
7	120.9833	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10242100	EFO_0003923	GCST002276
7	121.0007	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7807953	EFO_0004339	NA
7	121.0186	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs917727	EFO_0003923	GCST001594
7	121.0331	bone mineral density	Cho YS	26/04/2009	Nat Genet	19396169	rs7776725	EFO_0003923	GCST000381
7	121.0331	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7776725	EFO_0003923	GCST002494
7	121.0331	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7776725	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
7:120923818_A_G	7	120.9238	13.5809	credible-set	red
rs117191816	7	120.9477	13.5809	credible-set	red
rs150602309	7	120.9577	13.5809	credible-set	red
rs2536201	7	120.9584	13.5809	credible-set	red
rs2908008	7	120.9591	13.5809	credible-set	red
rs2536192	7	120.9672	7.4677	credible-set	red
rs575530507	7	120.9785	13.5809	credible-set	red
rs2707466	7	120.9791	13.5809	credible-set	red
rs2041490	7	120.9859	11.2926	credible-set	red
rs3801382	7	120.9983	5.0699	credible-set	red
rs7808155	7	121.0009	2.0919	credible-set	red

eBMD SNP INDEX 135



date: Wed Jun 28 21:40:38 2017

build: hg19

display range: chr7:120459155–121459155 [120459155–121459155]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:120959155

number of SNPs plotted: 6096

min P-value: 5E-324 [chr7:120924338]

max P-value: 1E0 [chr7:120514632]

omitted GWAS Hits: chr7:120.903815–bone mineral density, chr7:120.953756–bone mineral density

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

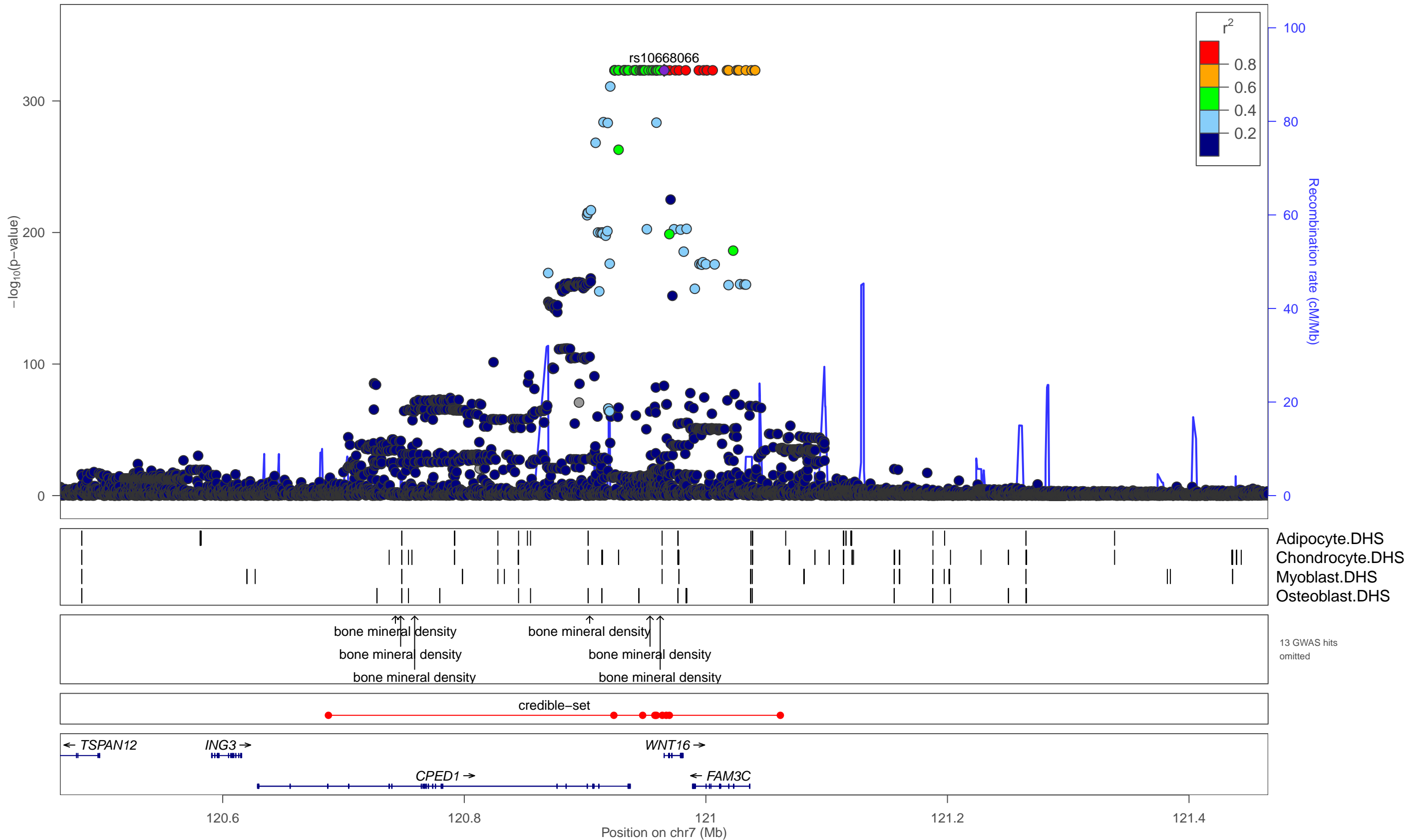
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	120.7430	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs148771817	EFO_0004339	NA
7	120.7473	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs13223036	EFO_0003923	GCST002493
7	120.7589	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs798943	EFO_0003923	GCST002496
7	120.7851	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13245690	EFO_0003923	GCST001482
7	120.8435	areal bone mineral density	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007620	GCST002953
7	120.8435	bone mineral content	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007621	GCST002952
7	120.9038	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs4609139	EFO_0003923	GCST001594
7	120.9538	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs76042375	EFO_0004339	NA
7	120.9622	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0003923	GCST002334
7	120.9622	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0004514	GCST002335
7	120.9622	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0005654	GCST002333
7	120.9668	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs3779381	EFO_0004339	NA
7	120.9698	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2908004	EFO_0003923	GCST002492
7	120.9698	bone mineral density	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2908004	EFO_0003923	GCST001595
7	120.9748	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3801387	EFO_0003923	GCST001482
7	120.9791	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2707466	EFO_0004840	GCST001593
7	120.9833	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10242100	EFO_0003923	GCST002276
7	121.0007	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7807953	EFO_0004339	NA
7	121.0186	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs917727	EFO_0003923	GCST001594
7	121.0331	bone mineral density	Cho YS	26/04/2009	Nat Genet	19396169	rs7776725	EFO_0003923	GCST000381
7	121.0331	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7776725	EFO_0003923	GCST002494
7	121.0331	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7776725	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
7:120923818_A_G	7	120.9238	7.5683	credible-set	red
rs117191816	7	120.9477	13.5856	credible-set	red
rs150602309	7	120.9577	13.5856	credible-set	red
rs2536201	7	120.9584	13.5856	credible-set	red
rs2908008	7	120.9591	13.5856	credible-set	red
rs3779381	7	120.9668	13.5856	credible-set	red
rs2536192	7	120.9672	13.5856	credible-set	red
rs2536191	7	120.9676	13.5856	credible-set	red
rs2908004	7	120.9698	13.5856	credible-set	red
rs575530507	7	120.9785	13.5856	credible-set	red

eBMD SNP INDEX 136



date: Wed Jun 28 21:40:43 2017

build: hg19

display range: chr7:120465464–121465464 [120465464–121465464]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:120965464

number of SNPs plotted: 6098

min P-value: 5E-324 [chr7:120924338]

max P-value: 1E0 [chr7:120514632]

omitted GWAS Hits: chr7:120.903815–bone mineral density, chr7:120.953756–bone mineral density

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

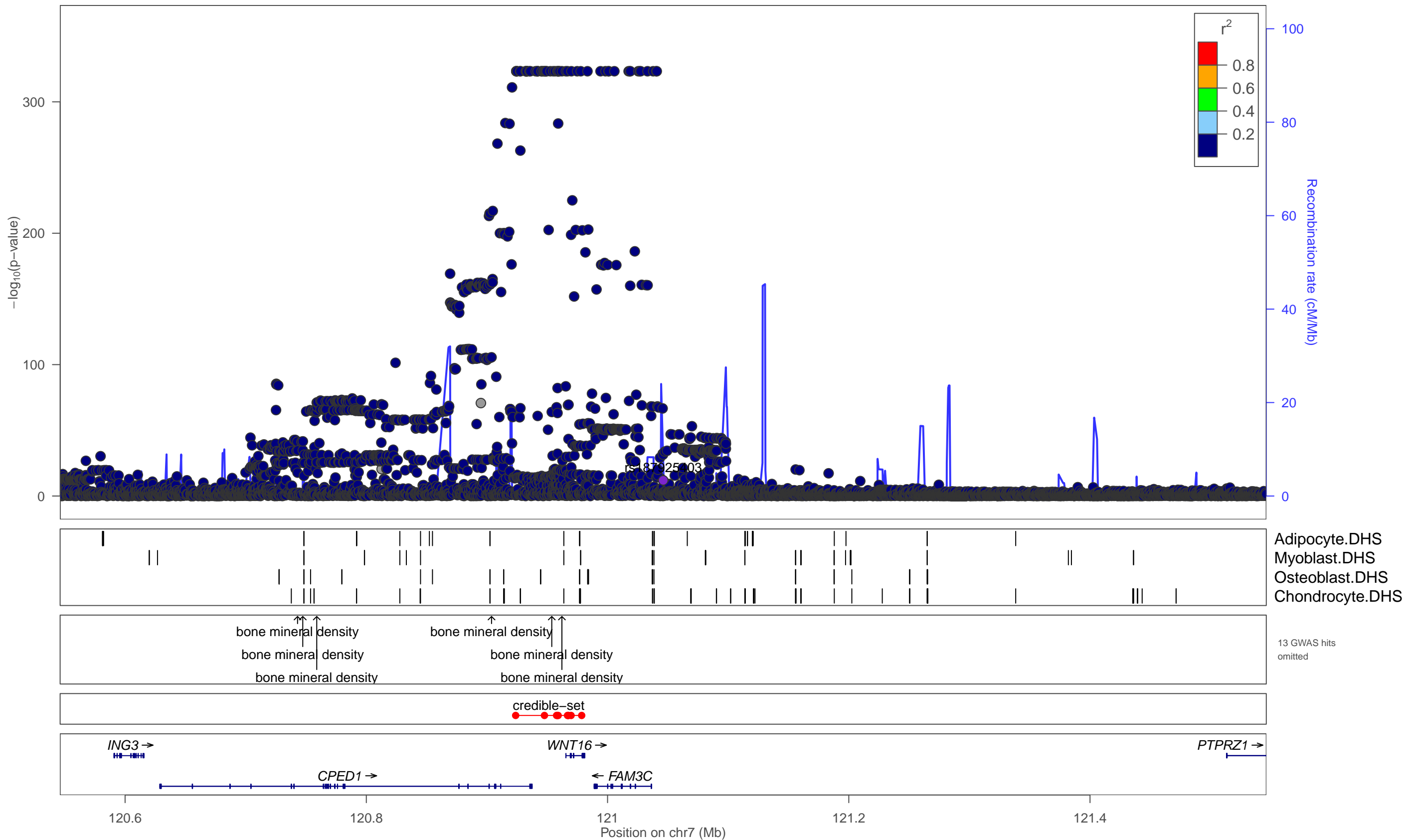
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	120.7430	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs148771817	EFO_0004339	NA
7	120.7473	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs13223036	EFO_0003923	GCST002493
7	120.7589	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs798943	EFO_0003923	GCST002496
7	120.7851	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13245690	EFO_0003923	GCST001482
7	120.8435	areal bone mineral density	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007620	GCST002953
7	120.8435	bone mineral content	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007621	GCST002952
7	120.9038	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs4609139	EFO_0003923	GCST001594
7	120.9538	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs76042375	EFO_0004339	NA
7	120.9622	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0003923	GCST002334
7	120.9622	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0004514	GCST002335
7	120.9622	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0005654	GCST002333
7	120.9668	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs3779381	EFO_0004339	NA
7	120.9698	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2908004	EFO_0003923	GCST002492
7	120.9698	bone mineral density	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2908004	EFO_0003923	GCST001595
7	120.9748	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3801387	EFO_0003923	GCST001482
7	120.9791	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2707466	EFO_0004840	GCST001593
7	120.9833	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10242100	EFO_0003923	GCST002276
7	121.0007	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7807953	EFO_0004339	NA
7	121.0186	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs917727	EFO_0003923	GCST001594
7	121.0331	bone mineral density	Cho YS	26/04/2009	Nat Genet	19396169	rs7776725	EFO_0003923	GCST000381
7	121.0331	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7776725	EFO_0003923	GCST002494
7	121.0331	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7776725	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs192528800	7	120.6875	13.5827	credible-set	red
7:120923818_A_G	7	120.9238	13.5827	credible-set	red
rs117191816	7	120.9477	13.5827	credible-set	red
rs150602309	7	120.9577	13.5827	credible-set	red
rs2536201	7	120.9584	13.5827	credible-set	red
rs2908008	7	120.9591	13.5827	credible-set	red
rs3757552	7	120.9640	13.5827	credible-set	red
rs2536192	7	120.9672	13.1383	credible-set	red
rs2908004	7	120.9698	13.5827	credible-set	red
rs574242738	7	121.0617	5.9393	credible-set	red

eBMD SNP INDEX 137



date: Wed Jun 28 21:40:49 2017

build: hg19

display range: chr7:120546144–121546144 [120546144–121546144]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:121046144

number of SNPs plotted: 6006

min P-value: 5E-324 [chr7:120924338]

max P-value: 1E0 [chr7:120612239]

omitted GWAS Hits: chr7:120.903815–bone mineral density, chr7:120.953756–bone mineral density

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

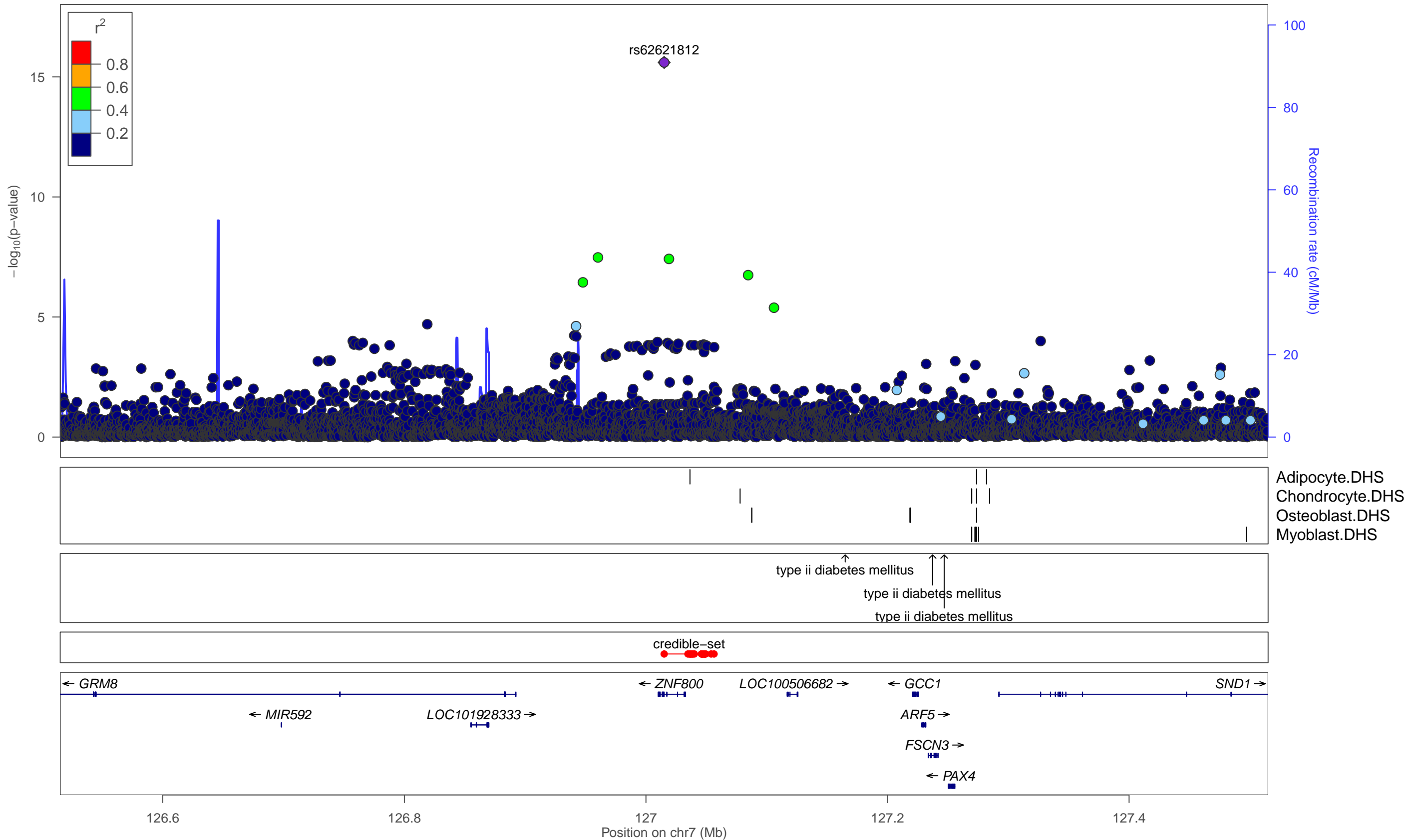
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	120.7430	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs148771817	EFO_0004339	NA
7	120.7473	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs13223036	EFO_0003923	GCST002493
7	120.7589	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs798943	EFO_0003923	GCST002496
7	120.7851	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs13245690	EFO_0003923	GCST001482
7	120.8435	areal bone mineral density	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007620	GCST002953
7	120.8435	bone mineral content	Chesi A	3/06/2015	Hum Mol Genet	26041818	rs7797976	EFO_0007621	GCST002952
7	120.9038	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs4609139	EFO_0003923	GCST001594
7	120.9538	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs76042375	EFO_0004339	NA
7	120.9622	bone mineral density	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0003923	GCST002334
7	120.9622	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0004514	GCST002335
7	120.9622	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs2908007	EFO_0005654	GCST002333
7	120.9668	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs3779381	EFO_0004339	NA
7	120.9698	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2908004	EFO_0003923	GCST002492
7	120.9698	bone mineral density	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2908004	EFO_0003923	GCST001595
7	120.9748	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3801387	EFO_0003923	GCST001482
7	120.9791	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs2707466	EFO_0004840	GCST001593
7	120.9833	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs10242100	EFO_0003923	GCST002276
7	121.0007	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7807953	EFO_0004339	NA
7	121.0186	bone mineral density	Medina–Gomez C	5/07/2012	PLoS Genet	22792070	rs917727	EFO_0003923	GCST001594
7	121.0331	bone mineral density	Cho YS	26/04/2009	Nat Genet	19396169	rs7776725	EFO_0003923	GCST000381
7	121.0331	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7776725	EFO_0003923	GCST002494
7	121.0331	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7776725	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
7:120923818_A_G	7	120.9238	7.5661	credible-set	red
rs117191816	7	120.9477	13.5793	credible-set	red
rs150602309	7	120.9577	13.5793	credible-set	red
rs2536201	7	120.9584	13.5793	credible-set	red
rs2908008	7	120.9591	13.5793	credible-set	red
rs3779381	7	120.9668	13.5793	credible-set	red
rs2536192	7	120.9672	13.5793	credible-set	red
rs2536191	7	120.9676	13.5793	credible-set	red
rs2908004	7	120.9698	13.5793	credible-set	red
rs575530507	7	120.9785	13.5793	credible-set	red

eBMD SNP INDEX 138



date: Wed Jun 28 21:40:48 2017

build: hg19

display range: chr7:126515083–127515083 [126515083–127515083]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr7:127015083

number of SNPs plotted: 5222

min P-value: 2.5E-16 [chr7:127015083]

max P-value: 1E0 [chr7:126549685]

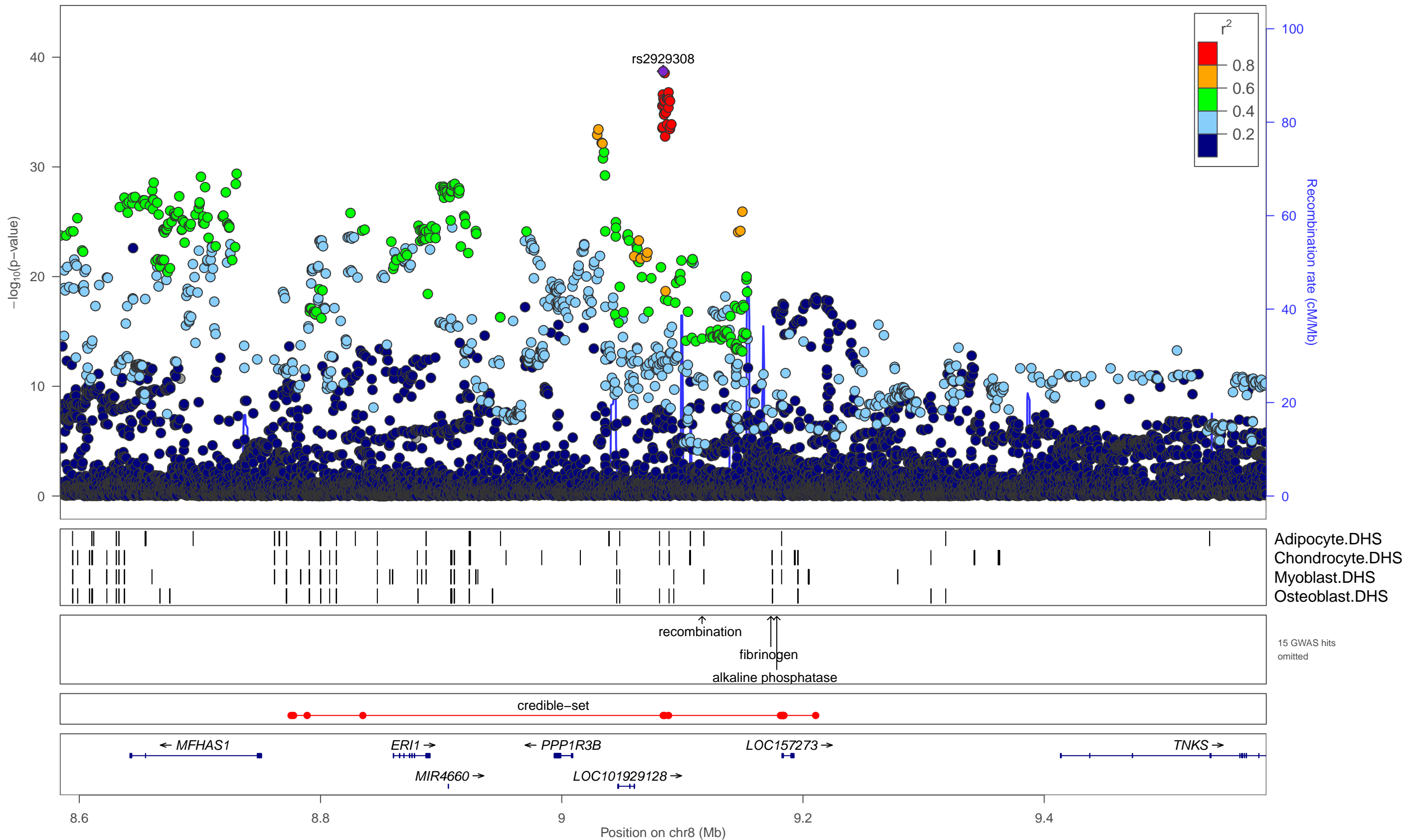
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
7	127.1650	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs6467136	EFO_0001360	GCST001351
7	127.2373	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs806215	EFO_0001360	GCST003400
7	127.2469	type ii diabetes mellitus	Ma RC	27/03/2013	Diabetologia	23532257	rs10229583	EFO_0001360	GCST001919

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs62621812	7	127.0151	13.5176	credible-set	red
rs13229578	7	127.0348	4.2422	credible-set	red
rs17869209	7	127.0362	4.7802	credible-set	red
rs17864920	7	127.0366	2.1175	credible-set	red
rs28536603	7	127.0373	2.3190	credible-set	red
rs10954149	7	127.0383	3.0552	credible-set	red
rs1419414	7	127.0387	2.0096	credible-set	red
rs1419415	7	127.0401	2.8258	credible-set	red
rs1029358	7	127.0460	2.9569	credible-set	red
rs1029359	7	127.0462	2.9563	credible-set	red
rs17863295	7	127.0462	2.9298	credible-set	red
rs13228039	7	127.0464	2.4691	credible-set	red
rs1029360	7	127.0471	2.9565	credible-set	red
rs1557640	7	127.0478	2.2637	credible-set	red
rs5887340	7	127.0487	2.7608	credible-set	red
rs1419418	7	127.0487	4.2742	credible-set	red
rs986585	7	127.0494	2.2621	credible-set	red
rs17863297	7	127.0540	2.7094	credible-set	red
rs13233168	7	127.0564	3.0778	credible-set	red

eBMD SNP INDEX 139



date: Wed Jun 28 21:40:50 2017

build: hg19

display range: chr8:8584121–9584121 [8584121–9584121]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:9084121

number of SNPs plotted: 9341

min P-value: 1.9E-39 [chr8:9084121]

max P-value: 1E0 [chr8:8604353]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

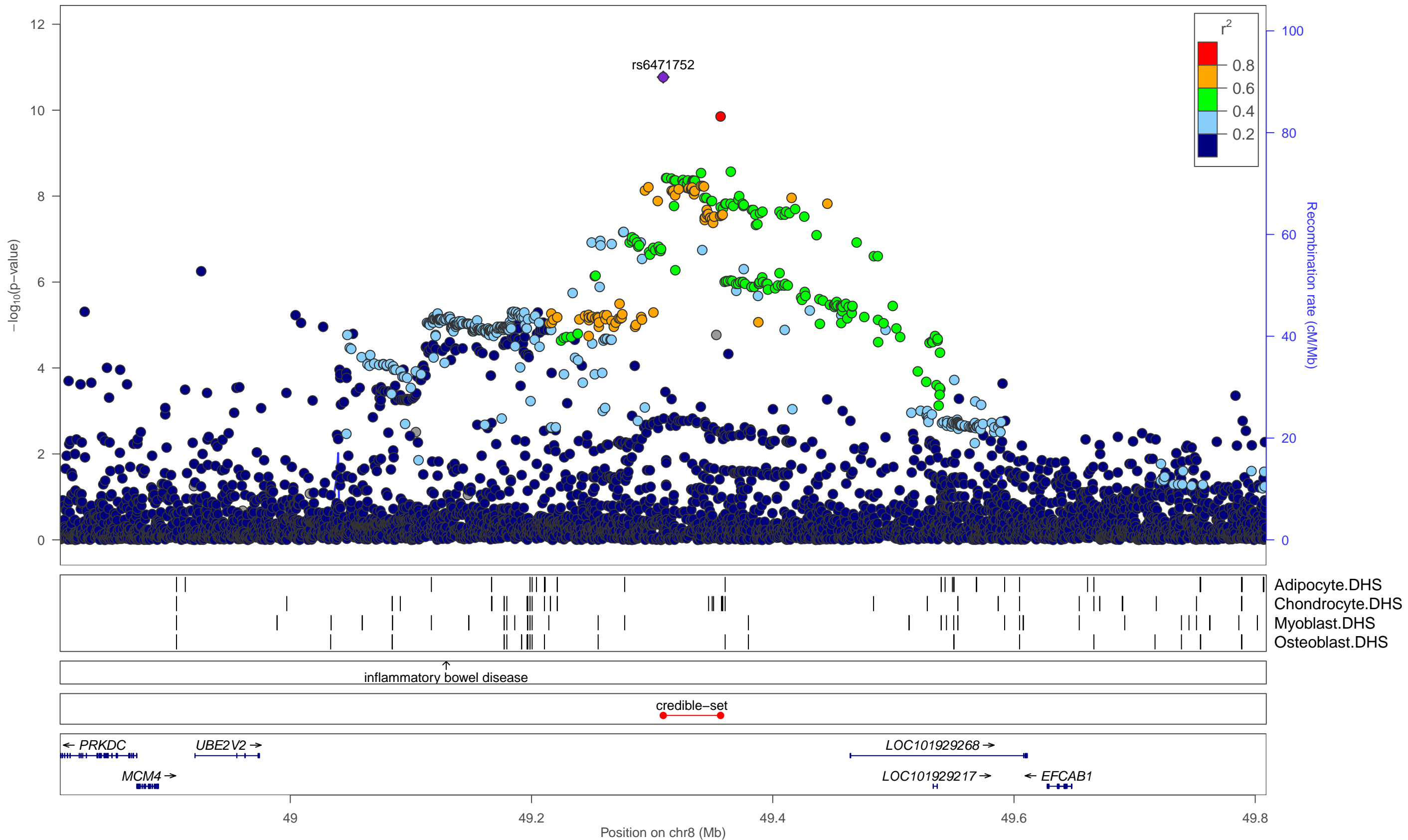
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	9.116349	recombination	Hinch AG	20/07/2011	Nature	21775986	rs9987353	EFO_0005919	GCST001168
8	9.173358	fibrinogen	de Vries PS	10/11/2015	Hum Mol Genet	26561523	rs7012814	EFO_0004623	GCST003194
8	9.178268	alkaline phosphatase	Chambers JC	16/10/2011	Nat Genet	22001757	rs6984305	EFO_0004533	GCST001276
8	9.181395	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs2169387	EFO_0004611	GCST002898
8	9.183358	c-reactive protein	Dehghan A	7/02/2011	Circulation	21300955	rs9987289	EFO_0004458	GCST000965
8	9.183358	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs9987289	EFO_0004612	GCST000755
8	9.183358	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs9987289	EFO_0004612	GCST002223
8	9.183358	lactate	Tin A	3/10/2015	Diabet Med	26433129	rs9987289	EFO_0007745	GCST003147
8	9.183358	low density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs9987289	EFO_0004611	GCST000759
8	9.183358	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs9987289	EFO_0004611	GCST002222
8	9.183358	metabolic syndrome	Kraja AT	8/03/2011	Diabetes	21386085	rs9987289	EFO_0000195	GCST001007
8	9.183358	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs9987289	EFO_0004574	GCST002896
8	9.183358	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs9987289	EFO_0004574	GCST000760
8	9.183358	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs9987289	EFO_0004574	GCST002221
8	9.183358	metabolic syndrome	Kraja AT	8/03/2011	Diabetes	21386085	rs9987289	EFO_0004530, EFO_0004612	GCST001005
8	9.183596	coronary artery calcification	Inouye M	16/08/2012	PLoS Genet	22916037	rs4841132	EFO_0004723	GCST001639
8	9.183596	c-peptide	Hayes MG	31/07/2013	Diabetes	23903356	rs4841132	EFO_0005187	GCST002110
8	9.183596	fasting blood glucose	Hayes MG	31/07/2013	Diabetes	23903356	rs4841132	EFO_0004465	GCST002110
8	9.183596	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs4841132	EFO_0004612	GCST002899
8	9.184691	high density lipoprotein cholesterol	Lettre G	10/02/2011	PLoS Genet	21347282	rs6601299	EFO_0004612	GCST000974
8	9.185146	low density lipoprotein cholesterol	Waterworth DM	23/09/2010	Arterioscler Thromb Vasc Biol	20864672	rs2126259	EFO_0004611	GCST000807
8	9.187242	high density lipoprotein cholesterol	Coram MA	29/05/2013	Am J Hum Genet	23726366	rs1461729	EFO_0004612	GCST002043

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs182156681	8	8.775613	2.6803	credible-set	red
rs146287474	8	8.777673	2.6828	credible-set	red
rs186710203	8	8.788908	3.0819	credible-set	red
rs547710759	8	8.835105	2.5173	credible-set	red
rs2929308	8	9.084121	3.7833	credible-set	red
rs2929451	8	9.085295	3.5939	credible-set	red
rs34900446	8	9.088524	2.2673	credible-set	red
rs2169387	8	9.181395	2.9049	credible-set	red
rs2126263	8	9.181611	3.0081	credible-set	red
rs111675407	8	9.183102	2.9205	credible-set	red
rs9987289	8	9.183358	2.8591	credible-set	red
rs4841132	8	9.183596	2.4390	credible-set	red
rs4841133	8	9.183664	2.6958	credible-set	red
rs4240624	8	9.184231	2.8244	credible-set	red
rs35066532	8	9.210512	2.0626	credible-set	red

eBMD SNP INDEX 140



date: Wed Jun 28 21:40:48 2017

build: hg19

display range: chr8:48809167–49809167 [48809167–49809167]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:49309167

number of SNPs plotted: 4836

min P-value: 1.7E-11 [chr8:49309167]

max P-value: 1E0 [chr8:48821712]

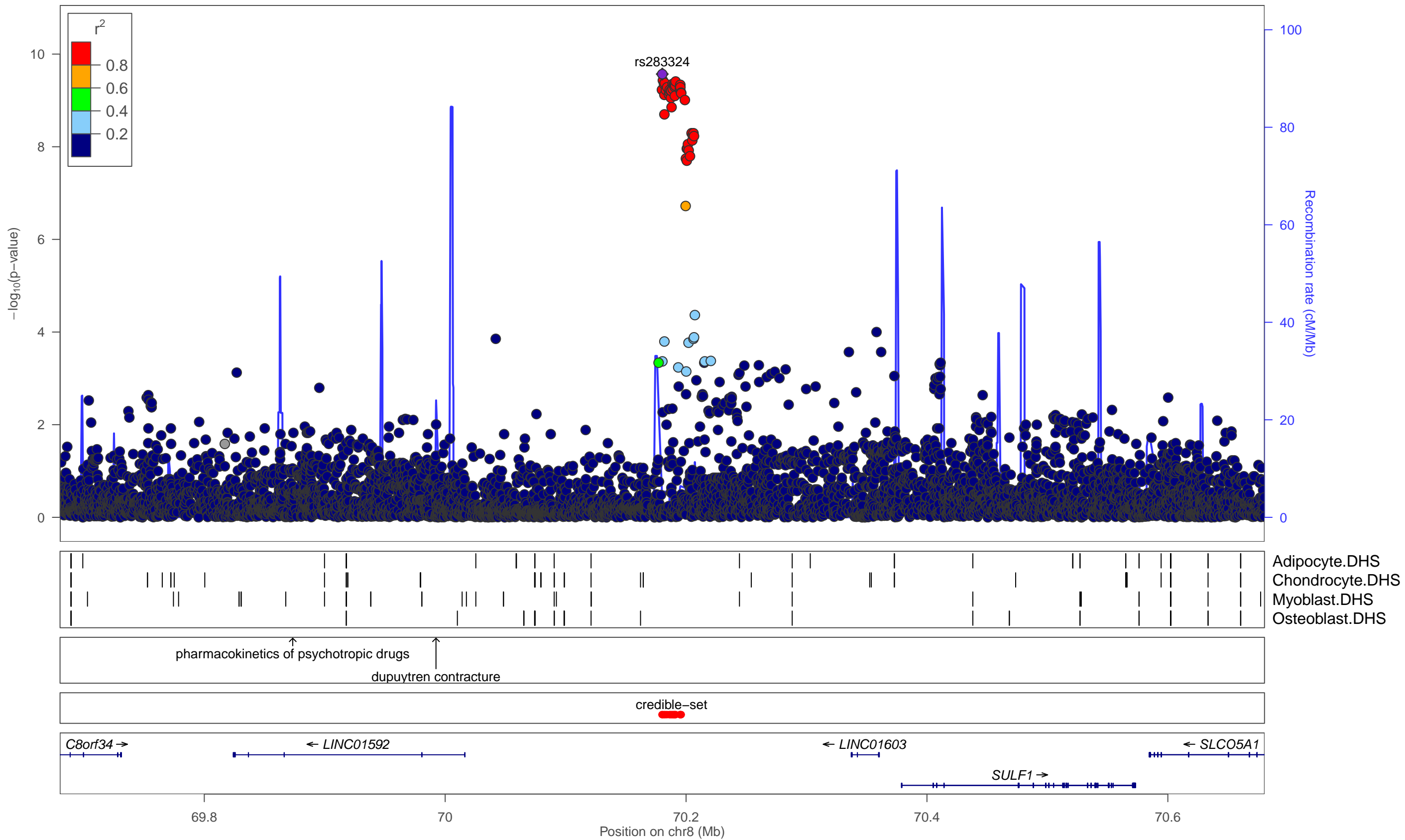
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	49.12924	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs7011507	EFO_0003767	GCST003043

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6471752	8	49.30917	3.9582	credible-set	red
rs16937171	8	49.35674	2.5080	credible-set	red

eBMD SNP INDEX 141



date: Wed Jun 28 21:40:49 2017

build: hg19

display range: chr8:69680251–70680251 [69680251–70680251]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:70180251

number of SNPs plotted: 6265

min P-value: 2.7E-10 [chr8:70180251]

max P-value: 1E0 [chr8:69699149]

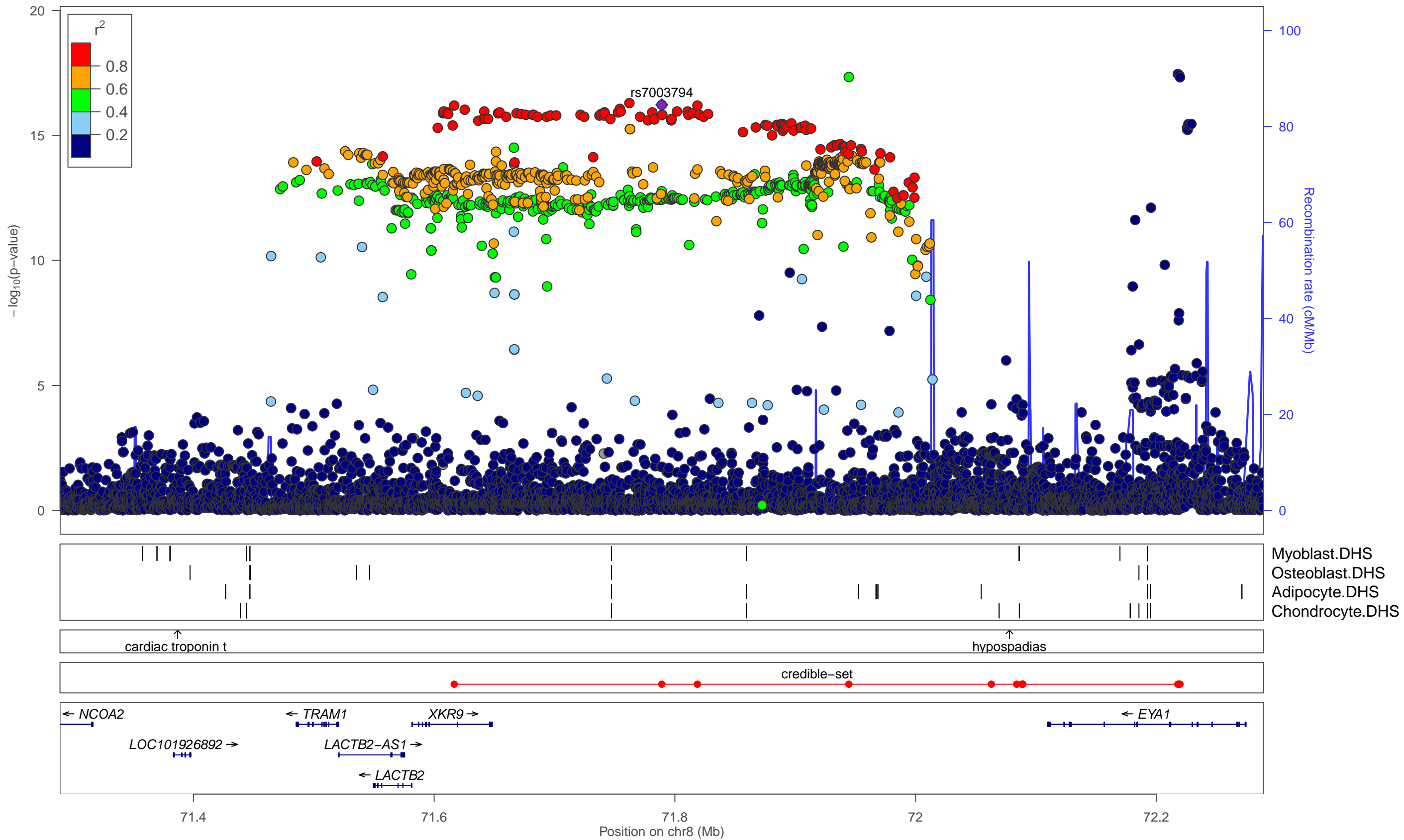
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	69.87345	pharmacokinetics of psychotropic drugs	Athanasiu L	5/05/2015	J Psychopharmacol	25944848	rs16935279	NA	GCST002887
8	69.99238	dupuytren contracture	Dolmans GH	6/07/2011	N Engl J Med	21732829	rs2912522	EFO_0004229	GCST001144

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs283323	8	70.17998	2.0813	credible-set	red
rs283324	8	70.18025	2.4454	credible-set	red
rs283325	8	70.18074	2.2989	credible-set	red
rs34207027	8	70.18178	2.2065	credible-set	red
rs283326	8	70.18227	2.2372	credible-set	red
rs831727	8	70.18327	2.0765	credible-set	red
rs831728	8	70.18433	2.1456	credible-set	red
rs831733	8	70.18614	2.0335	credible-set	red
rs831734	8	70.18641	2.0798	credible-set	red
rs283348	8	70.18748	2.0593	credible-set	red
rs169514	8	70.18759	2.0614	credible-set	red
rs283347	8	70.18878	2.2157	credible-set	red
rs35739544	8	70.18890	2.0945	credible-set	red
rs283346	8	70.18967	2.1906	credible-set	red
rs283345	8	70.19031	2.1854	credible-set	red
rs283344	8	70.19045	2.1488	credible-set	red
rs283342	8	70.19110	2.1771	credible-set	red
rs283341	8	70.19135	2.2668	credible-set	red
rs185839	8	70.19489	2.1280	credible-set	red
rs283338	8	70.19515	2.0749	credible-set	red
rs283337	8	70.19523	2.1916	credible-set	red
rs283336	8	70.19528	2.1358	credible-set	red
rs283335	8	70.19591	2.0214	credible-set	red
rs283334	8	70.19597	2.0060	credible-set	red

eBMD SNP INDEX 142



date: Wed Jun 28 21:40:44 2017

build: hg19

display range: chr8:71289146–72289146 [71289146–72289146]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:71789146

number of SNPs plotted: 5729

min P-value: 3.5E-18 [chr8:72217903]

max P-value: 1E0 [chr8:71456092]

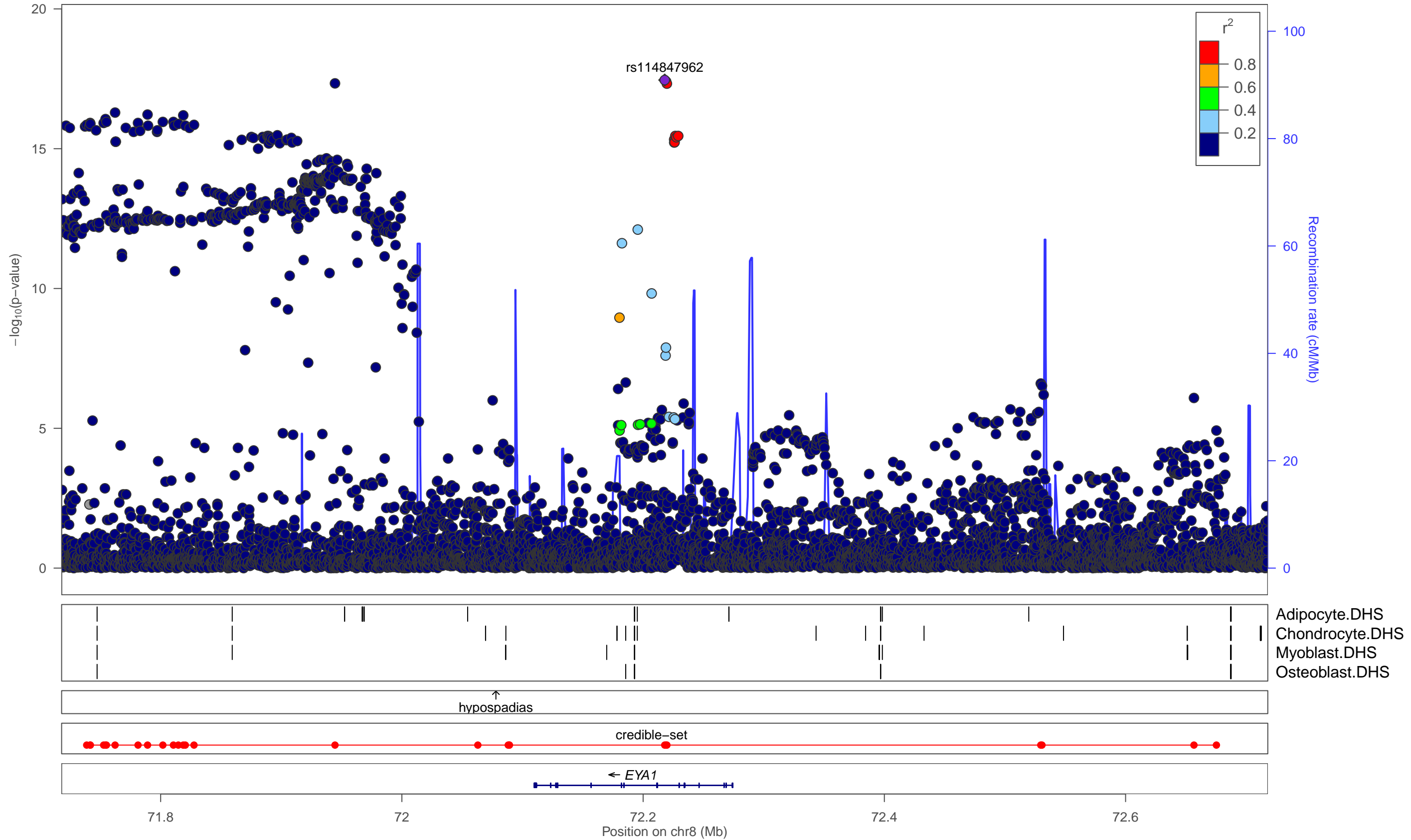
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	71.38690	cardiac troponin t	Yu B	16/12/2012	Circ Cardiovasc Genet	23247143	rs10091374	EFO_0005043	GCST001776
8	72.07796	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs16937456	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13252808	8	71.61665	2.1198	credible-set	red
rs7003794	8	71.78915	2.0550	credible-set	red
rs13248937	8	71.81875	2.0994	credible-set	red
rs72652027	8	71.94454	2.3344	credible-set	red
rs35382182	8	72.06296	2.4200	credible-set	red
rs1481814	8	72.08396	2.1972	credible-set	red
rs737534	8	72.08817	2.4917	credible-set	red
rs1481793	8	72.08894	2.5280	credible-set	red
rs4103014	8	72.08917	2.1122	credible-set	red
rs114847962	8	72.21790	3.3656	credible-set	red
rs34143349	8	72.21900	3.2363	credible-set	red
rs7830123	8	72.21970	3.1259	credible-set	red

eBMD SNP INDEX 143



date: Wed Jun 28 21:40:47 2017

build: hg19

display range: chr8:71717903–72717903 [71717903–72717903]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:72217903

number of SNPs plotted: 6080

min P-value: 3.5E-18 [chr8:72217903]

max P-value: 1E0 [chr8:71727961]

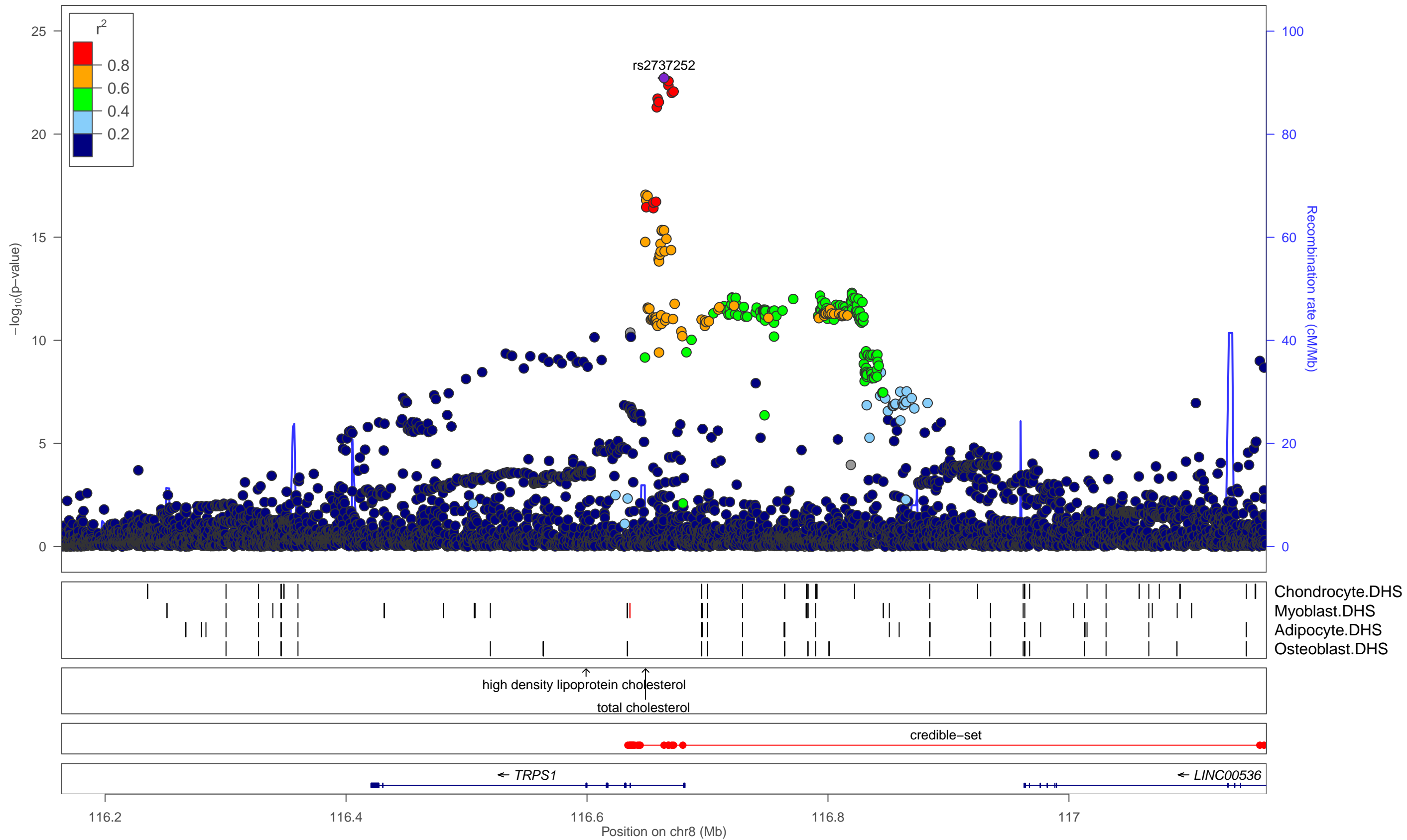
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	72.07796	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs16937456	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs111318613	8	71.73870	2.0209	credible-set	red
rs11281000	8	71.74154	2.0935	credible-set	red
rs13271606	8	71.74172	2.0561	credible-set	red
rs13255849	8	71.75275	2.0882	credible-set	red
rs6472548	8	71.75430	2.2485	credible-set	red
rs1156956	8	71.75504	2.1286	credible-set	red
rs36000812	8	71.76222	2.2218	credible-set	red
rs7009464	8	71.78124	2.1036	credible-set	red
rs7003794	8	71.78915	2.3770	credible-set	red
rs13255749	8	71.80182	2.1461	credible-set	red
rs11985482	8	71.81058	2.1261	credible-set	red
rs4581086	8	71.81464	2.0519	credible-set	red
rs13248937	8	71.81875	2.4246	credible-set	red
rs11357289	8	71.82045	2.0003	credible-set	red
rs6984663	8	71.82766	2.0379	credible-set	red
rs72652027	8	71.94454	2.5047	credible-set	red
rs35382182	8	72.06296	2.2726	credible-set	red
rs737534	8	72.08817	2.4394	credible-set	red
rs1481793	8	72.08894	2.4819	credible-set	red
rs4103014	8	72.08917	2.0241	credible-set	red
rs114847962	8	72.21790	3.3850	credible-set	red
rs34143349	8	72.21900	3.2793	credible-set	red
rs7830123	8	72.21970	3.1574	credible-set	red
rs10098878	8	72.52968	2.2584	credible-set	red
rs538636874	8	72.53068	2.1475	credible-set	red
rs141654124	8	72.65667	3.4297	credible-set	red
rs13255611	8	72.67529	2.2314	credible-set	red

eBMD SNP INDEX 144



date: Wed Jun 28 21:40:48 2017

build: hg19

display range: chr8:116163898–117163898 [116163898–117163898]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:116663898

number of SNPs plotted: 4922

min P-value: 1.9E-23 [chr8:116663898]

max P-value: 1E0 [chr8:116206258]

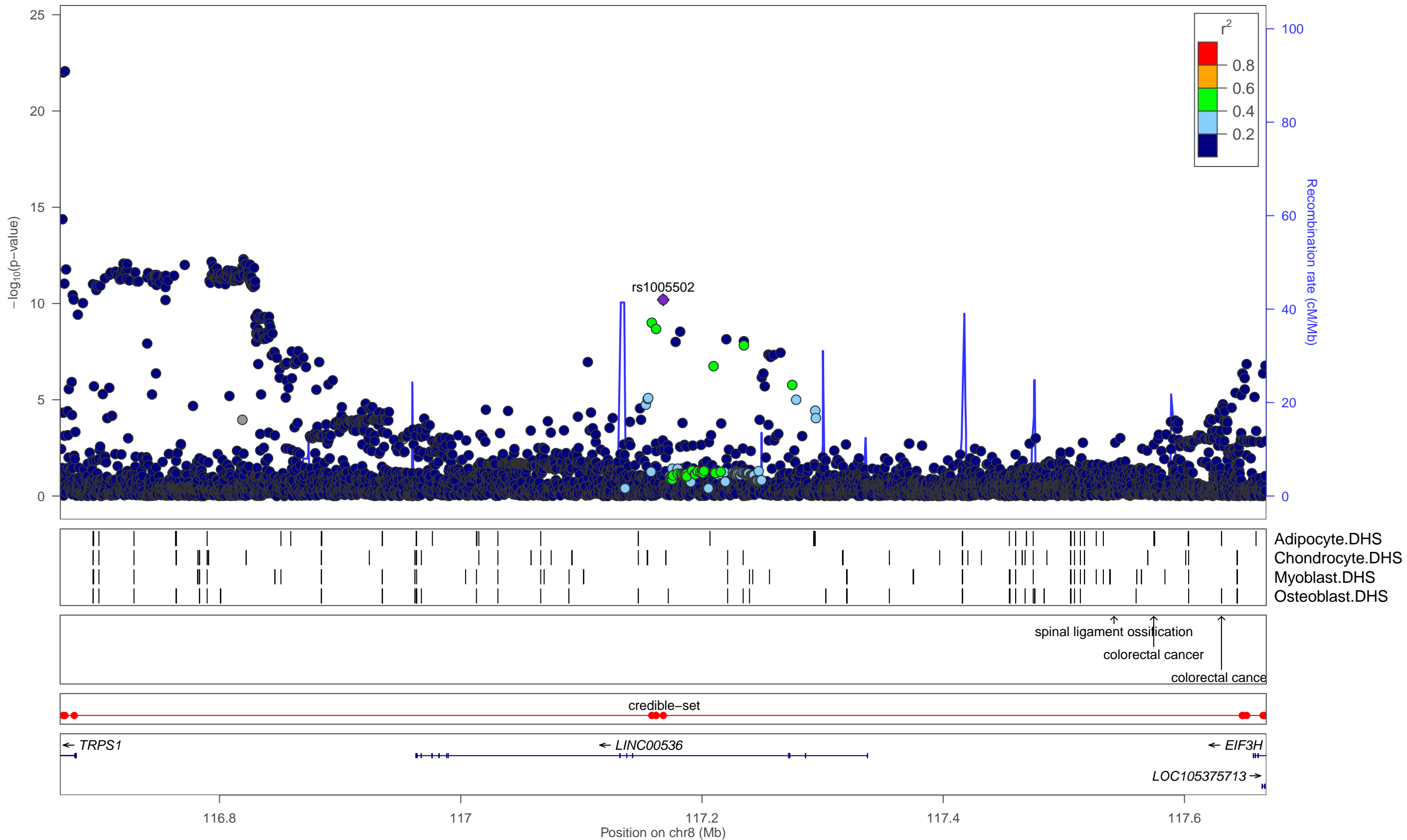
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	116.5992	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs2293889	EFO_0004612	GCST000755
8	116.5992	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs2293889	EFO_0004612	GCST002223
8	116.6486	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs2737229	EFO_0004574	GCST000760

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2009382	8	116.6339	2.0313	credible-set	red
rs2721938	8	116.6356	2.1374	credible-set	red
rs2737219	8	116.6357	2.1546	credible-set	red
rs2721939	8	116.6359	2.1256	credible-set	red
rs2721940	8	116.6363	2.2309	credible-set	red
rs5894282	8	116.6364	2.0815	credible-set	red
rs2142331	8	116.6367	2.1565	credible-set	red
rs2737220	8	116.6377	2.2538	credible-set	red
rs2721942	8	116.6377	2.2736	credible-set	red
rs2721943	8	116.6380	2.1598	credible-set	red
rs28447075	8	116.6383	2.3298	credible-set	red
rs2737226	8	116.6395	2.0934	credible-set	red
rs2721946	8	116.6420	2.0903	credible-set	red
rs2721948	8	116.6433	2.1320	credible-set	red
rs2737227	8	116.6441	2.1489	credible-set	red
rs2737252	8	116.6639	3.4232	credible-set	red
rs2737263	8	116.6675	2.6682	credible-set	red
rs2737265	8	116.6676	3.0790	credible-set	red
rs3808477	8	116.6703	2.0838	credible-set	red
rs4876611	8	116.6718	2.1963	credible-set	red
rs13277568	8	116.6795	4.1960	credible-set	red
rs2205270	8	117.1584	3.8890	credible-set	red
rs4455868	8	117.1619	3.0931	credible-set	red

eBMD SNP INDEX 145



date: Wed Jun 28 21:41:05 2017

build: hg19

display range: chr8:116667843–117667843 [116667843–117667843]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:117167843

number of SNPs plotted: 4941

min P-value: 8.6E–23 [chr8:116671848]

max P-value: 1E0 [chr8:116701789]

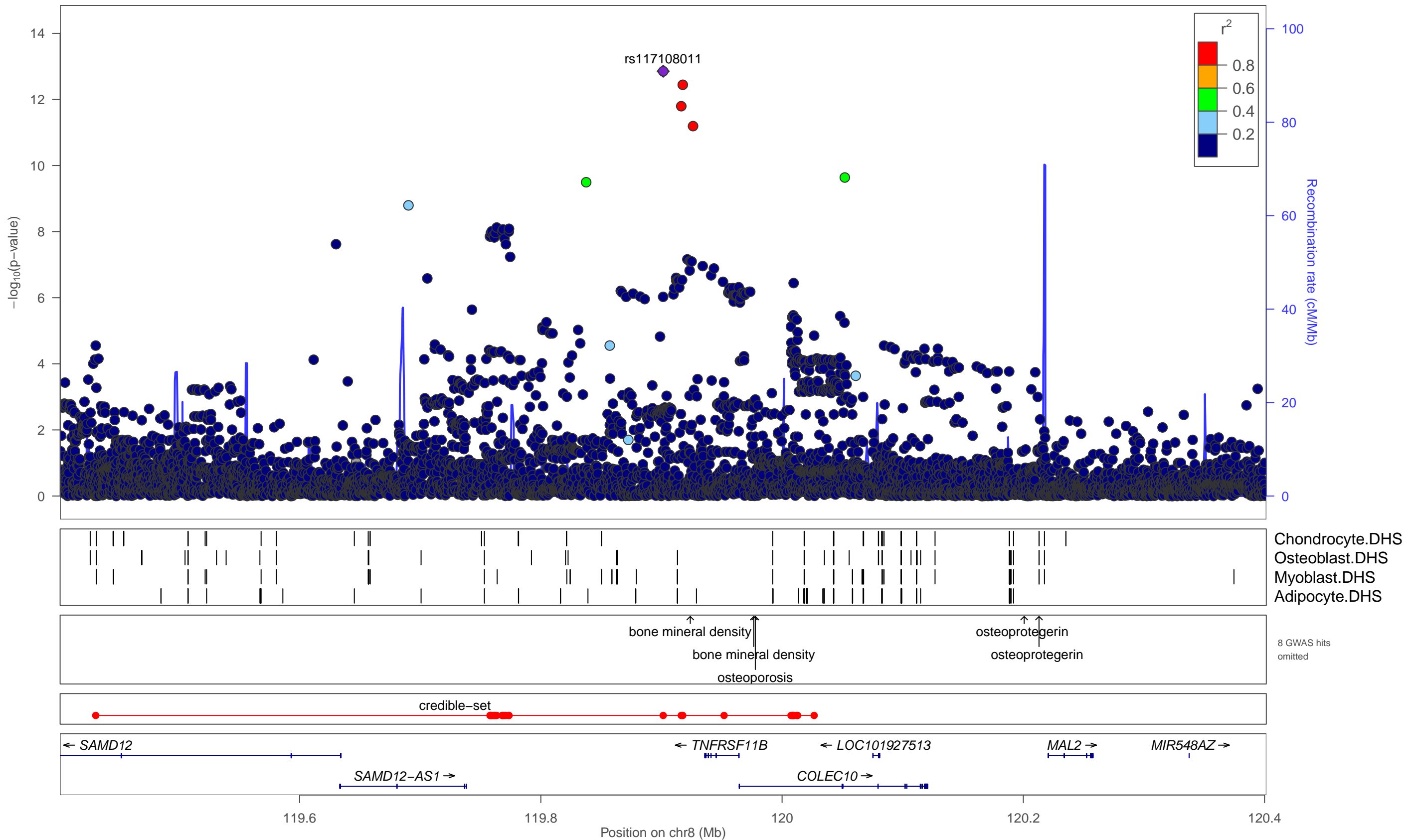
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	117.5416	spinal ligament ossification	Nakajima M	27/07/2014	Nat Genet	25064007	rs13279799	EFO_0005895	GCST002545
8	117.5745	colorectal cancer	Whiffin N	15/04/2014	Hum Mol Genet	24737748	rs140355816	EFO_0005842	GCST002411
8	117.6307	colorectal cancer	Schumacher FR	7/07/2015	Nat Commun	26151821	rs16892766	EFO_0005842	GCST003017
8	117.6307	colorectal cancer	Tomlinson IP	30/03/2008	Nat Genet	18372905	rs16892766	EFO_0005842	GCST000169

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs3808477	8	116.6703	3.3848	credible-set	red
rs4876611	8	116.6718	3.5994	credible-set	red
rs13277568	8	116.6795	4.9704	credible-set	red
rs2205270	8	117.1584	2.9407	credible-set	red
rs4455868	8	117.1619	2.4722	credible-set	red
rs1005502	8	117.1678	3.8478	credible-set	red
rs5894341	8	117.6480	2.1717	credible-set	red
rs4406425	8	117.6485	2.1392	credible-set	red
rs4335154	8	117.6515	2.5529	credible-set	red
rs1436767	8	117.6652	2.1694	credible-set	red
rs11403704	8	117.6671	2.5018	credible-set	red

eBMD SNP INDEX 146



date: Wed Jun 28 21:40:58 2017

build: hg19

display range: chr8:119401442–120401442 [119401442–120401442]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:119901442

number of SNPs plotted: 6309

min P-value: 1.4E-13 [chr8:119901442]

max P-value: 1E0 [chr8:119447930]

omitted GWAS Hits: chr8:120.200702–osteoprotegerin , chr8:120.21299–osteoprotegerin

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

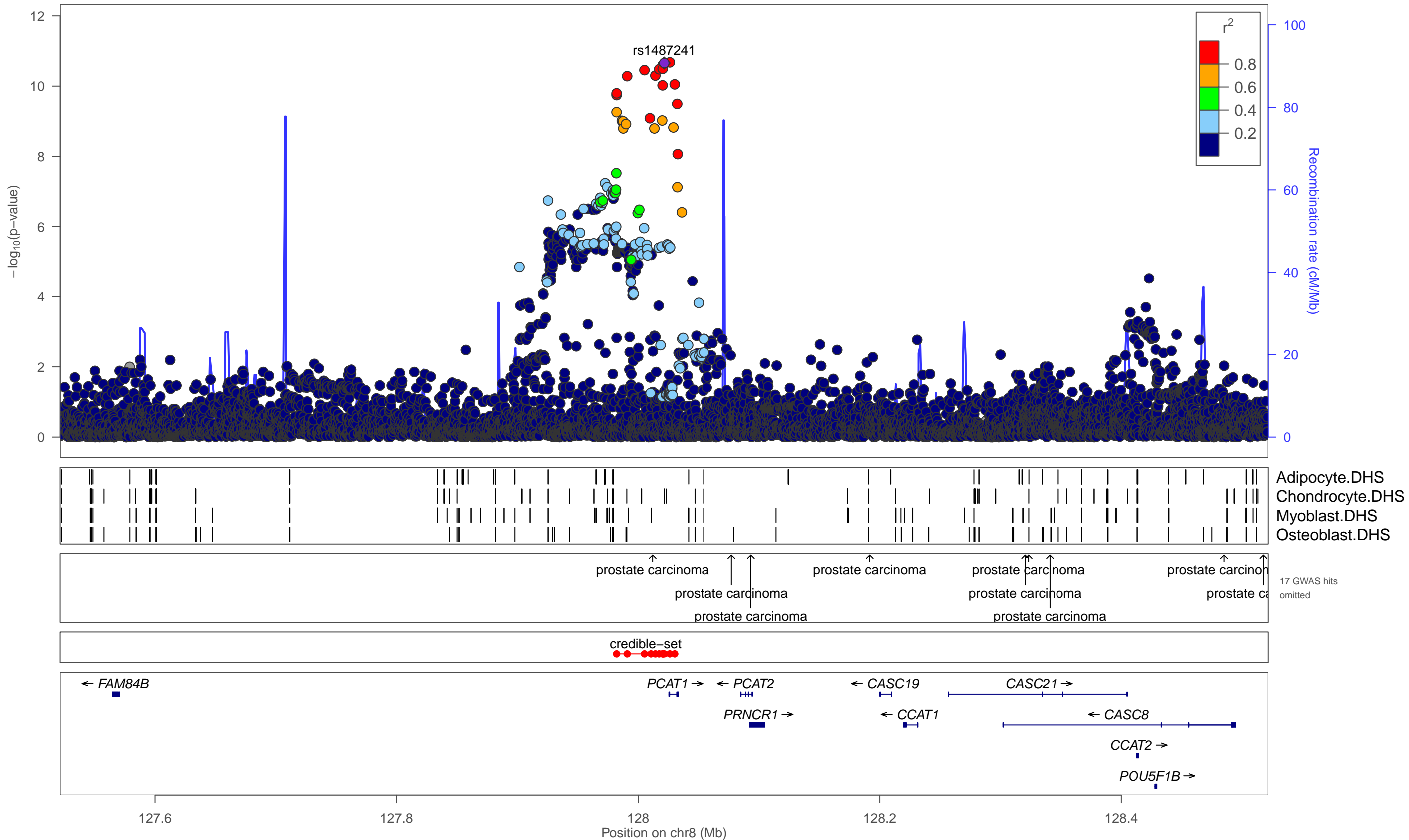
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	119.9239	bone mineral density	Richards JB	29/04/2008	Lancet	18455228	rs4355801	EFO_0003923	GCST000182
8	119.9765	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs7839059	EFO_0003923	GCST001870
8	119.9778	osteoporosis	Hsu YH	10/06/2010	PLoS Genet	20548944	rs2062375	EFO_0003882	GCST000698
8	120.0074	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs1485307	EFO_0004339	NA
8	120.0074	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs2062377	EFO_0003923	GCST001482
8	120.0074	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs2062377	EFO_0003923	GCST000494
8	120.0077	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2220189	EFO_0004339	NA
8	120.0127	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs11995824	EFO_0003923	GCST000495
8	120.0133	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs4424296	EFO_0003923	GCST002276
8	120.0448	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs6469804	EFO_0003923	GCST000180
8	120.0522	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs6993813	EFO_0003923	GCST000181
8	120.0635	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs2450083	EFO_0003923	GCST002493
8	120.2007	osteoprotegerin	Kwan JS	30/07/2014	Hum Mol Genet	25080503	rs2468186	EFO_0005918	GCST002546
8	120.2130	osteoprotegerin	Kwan JS	30/07/2014	Hum Mol Genet	25080503	rs1425053	EFO_0005918	GCST002546

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs545742157	8	119.4310	2.0363	credible-set	red
rs764982	8	119.7578	2.4662	credible-set	red
rs1389541	8	119.7582	2.4605	credible-set	red
rs4876857	8	119.7586	2.4429	credible-set	red
rs1160272	8	119.7594	2.4949	credible-set	red
rs6469765	8	119.7608	2.3637	credible-set	red
rs1493933	8	119.7614	2.4451	credible-set	red
rs4876427	8	119.7624	2.4552	credible-set	red
rs7823835	8	119.7634	2.6303	credible-set	red
rs12334995	8	119.7678	2.4793	credible-set	red
rs7000310	8	119.7686	2.5233	credible-set	red
rs13253934	8	119.7698	2.3830	credible-set	red
rs11304849	8	119.7710	2.2202	credible-set	red
rs4876858	8	119.7734	2.5128	credible-set	red
rs34512502	8	119.7736	2.6018	credible-set	red
rs117108011	8	119.9014	3.9291	credible-set	red
rs140306080	8	119.9164	2.4267	credible-set	red
rs117204589	8	119.9176	3.0941	credible-set	red
rs1032129	8	119.9519	2.3357	credible-set	red
rs1485307	8	120.0074	2.2129	credible-set	red
rs6469792	8	120.0084	2.7885	credible-set	red
rs7824837	8	120.0087	2.8241	credible-set	red
rs4416847	8	120.0093	2.8717	credible-set	red
rs2062376	8	120.0100	2.8092	credible-set	red
rs60373739	8	120.0121	2.6764	credible-set	red
rs13264172	8	120.0129	2.0125	credible-set	red
rs1586274	8	120.0266	2.1449	credible-set	red

eBMD SNP INDEX 147



date: Wed Jun 28 21:40:58 2017

build: hg19

display range: chr8:127521488–128521488 [127521488–128521488]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr8:128021488

number of SNPs plotted: 6883

min P-value: 2.1E-11 [chr8:128026128]

max P-value: 1E0 [chr8:127550597]

omitted GWAS Hits: chr8:128.191672–prostate carcinoma, chr8:128.320346–prostate carcinoma

omitted GWAS Hits: chr8:128.340908–prostate carcinoma, chr8:128.485038–prostate carcinoma

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	128.0119	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs10086908	EFO_0001663	GCST002944
8	128.0771	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs77541621	EFO_0001663	GCST002944
8	128.0933	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs1016343	EFO_0001663	GCST002944
8	128.0933	prostate carcinoma	Schumacher FR	8/07/2011	Hum Mol Genet	21743057	rs1016343	EFO_0001663	GCST001147
8	128.1039	prostate carcinoma	Takata R	1/08/2010	Nat Genet	20676098	rs1456315	EFO_0001663	GCST000750
8	128.1039	prostate carcinoma	Xu J	30/09/2012	Nat Genet	23023329	rs1456315	EFO_0001663	GCST001702
8	128.1040	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs72725879	EFO_0001663	GCST002944
8	128.1043	prostate carcinoma	Cheng I	24/08/2012	Cancer Epidemiol Biomarkers Prev	22923026	rs13254738	EFO_0001663	GCST001646
8	128.1068	prostate carcinoma	Knipe DW	21/04/2014	Cancer Epidemiol Biomarkers Prev	24753544	rs12682344	EFO_0001663	GCST002421
8	128.1069	prostate carcinoma	Cheng I	24/08/2012	Cancer Epidemiol Biomarkers Prev	22923026	rs6983561	EFO_0001663	GCST001646
8	128.1069	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs6983561	EFO_0001663	GCST002944
8	128.1249	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs16901979	EFO_0001663	GCST002890
8	128.1249	prostate carcinoma	Gudmundsson J	1/04/2007	Nat Genet	17401366	rs16901979	EFO_0001663	GCST000019
8	128.1249	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs16901979	EFO_0001663	GCST000489
8	128.1249	prostate carcinoma	Wang M	7/10/2015	Nat Commun	26443449	rs16901979	EFO_0001663	GCST003148
8	128.1252	prostate carcinoma	Cheng I	24/08/2012	Cancer Epidemiol Biomarkers Prev	22923026	rs10505483	EFO_0001663	GCST001646
8	128.1917	prostate carcinoma	Gudmundsson J	28/10/2012	Nat Genet	23104005	rs188140481	EFO_0001663	GCST001719
8	128.2112	chronic lymphocytic leukemia	Berndt SI	16/06/2013	Nat Genet	23770605	rs2466035	EFO_0000095	GCST002073
8	128.3203	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs16902094	EFO_0001663	GCST000489
8	128.3232	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs445114	EFO_0001663	GCST000489
8	128.3409	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs16902104	EFO_0001663	GCST002944
8	128.3556	breast carcinoma	Easton DF	27/05/2007	Nature	17529967	rs13281615	EFO_0000305	GCST000035
8	128.3556	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs13281615	EFO_0000305	GCST001937
8	128.3879	breast carcinoma	Fletcher O	24/01/2011	J Natl Cancer Inst	21263130	rs1562430	EFO_0000305	GCST000952
8	128.3880	breast carcinoma	Ahsan H	3/02/2014	Cancer Epidemiol Biomarkers Prev	24493630	rs2392780	EFO_0000305	GCST002346
8	128.4074	colorectal cancer	Whiffin N	15/04/2014	Hum Mol Genet	24737748	rs10505477	EFO_0005842	GCST002411
8	128.4074	colorectal cancer	Zanke BW	8/07/2007	Nat Genet	17618283	rs10505477	EFO_0005842	GCST000052
8	128.4074	prostate carcinoma	Lange EM	16/04/2014	PLoS One	24740154	rs10505477	EFO_0001663	GCST002413
8	128.4133	colorectal cancer	Cui R	17/01/2011	Gut	21242260	rs6983267	EFO_0005842	GCST000948
8	128.4133	colorectal cancer	Peters U	21/12/2012	Gastroenterology	23266556	rs6983267	EFO_0005842	GCST001787

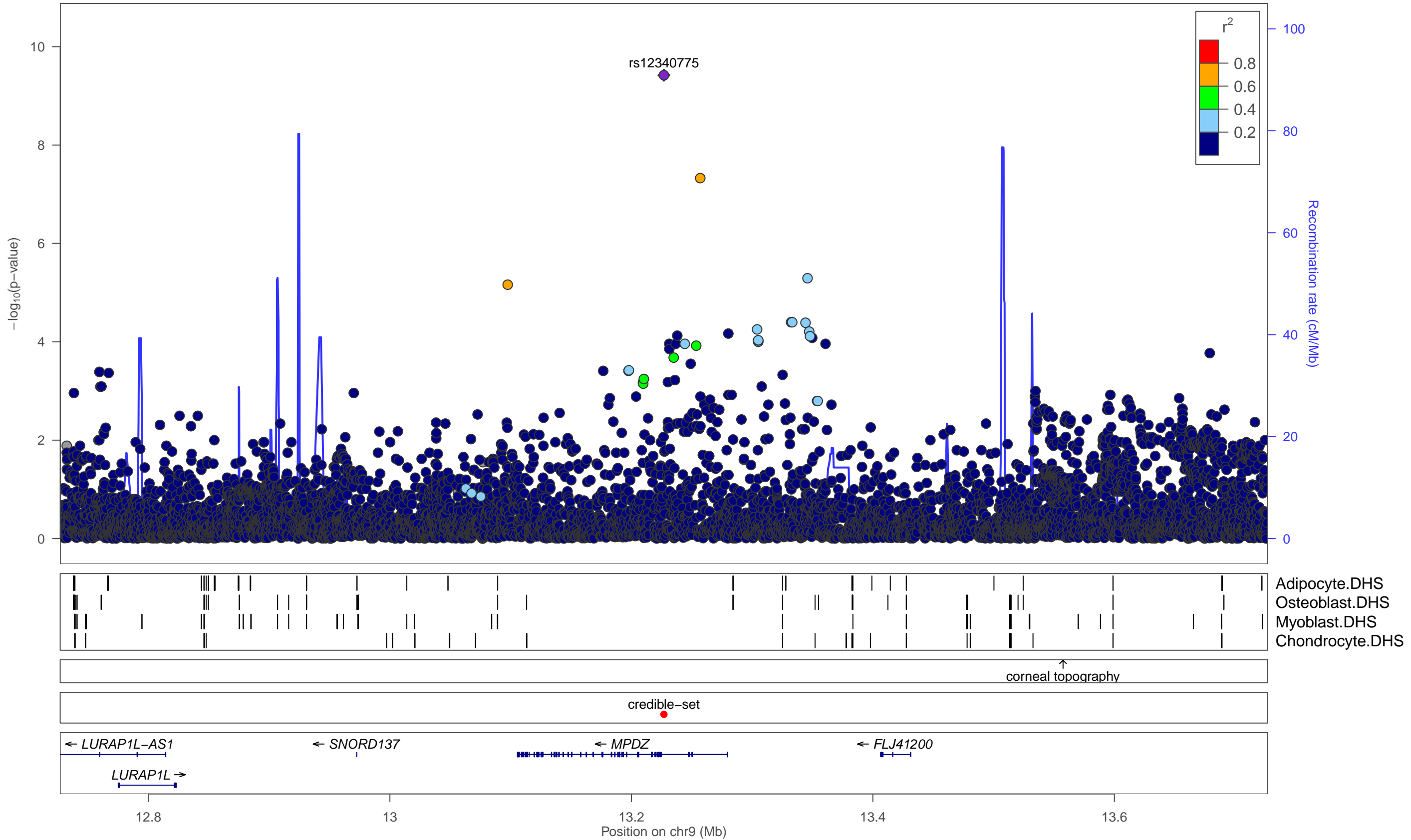
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
8	128.4133	colorectal cancer	Schumacher FR	7/07/2015	Nat Commun	26151821	rs6983267	EFO_0005842	GCST003017
8	128.4133	colorectal cancer	Tomlinson I	8/07/2007	Nat Genet	17618284	rs6983267	EFO_0005842	GCST000053
8	128.4133	colorectal cancer	Tomlinson IP	30/03/2008	Nat Genet	18372905	rs6983267	EFO_0005842	GCST000169
8	128.4133	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs6983267	EFO_0005842	GCST002454
8	128.4133	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs6983267	EFO_0001663	GCST002890
8	128.4133	prostate carcinoma	Eeles RA	10/02/2008	Nat Genet	18264097	rs6983267	EFO_0001663	GCST000152
8	128.4133	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs6983267	EFO_0001663	GCST002944
8	128.4133	prostate carcinoma	Knipe DW	21/04/2014	Cancer Epidemiol Biomarkers Prev	24753544	rs6983267	EFO_0001663	GCST002421
8	128.4133	prostate carcinoma	Lange EM	16/04/2014	PLoS One	24740154	rs6983267	EFO_0001663	GCST002413
8	128.4133	prostate carcinoma	Thomas G	10/02/2008	Nat Genet	18264096	rs6983267	EFO_0001663	GCST000154
8	128.4133	prostate carcinoma	Yeager M	1/04/2007	Nat Genet	17401363	rs6983267	EFO_0001663	GCST000017
8	128.4248	colorectal cancer	Al-Tassan NA	20/05/2015	Sci Rep	25990418	rs7014346	EFO_0005842	GCST002919
8	128.4248	colorectal cancer	Tenesa A	30/03/2008	Nat Genet	18372901	rs7014346	EFO_0005842	GCST000168
8	128.4850	prostate carcinoma	Gudmundsson J	1/04/2007	Nat Genet	17401366	rs1447295	EFO_0001663	GCST000019
8	128.4850	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs1447295	EFO_0001663	GCST000489
8	128.4850	prostate carcinoma	Knipe DW	21/04/2014	Cancer Epidemiol Biomarkers Prev	24753544	rs1447295	EFO_0001663	GCST002421
8	128.4850	prostate carcinoma	Wang M	7/10/2015	Nat Commun	26443449	rs1447295	EFO_0001663	GCST003148
8	128.4850	prostate carcinoma	Yeager M	1/04/2007	Nat Genet	17401363	rs1447295	EFO_0001663	GCST000017
8	128.5176	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs4242382	EFO_0001663	GCST002890
8	128.5176	prostate carcinoma	Thomas G	10/02/2008	Nat Genet	18264096	rs4242382	EFO_0001663	GCST000154
8	128.5186	prostate carcinoma	Eeles RA	10/02/2008	Nat Genet	18264097	rs4242384	EFO_0001663	GCST000152
8	128.5186	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs4242384	EFO_0001663	GCST000488
8	128.5186	prostate carcinoma	Schumacher FR	8/07/2011	Hum Mol Genet	21743057	rs4242384	EFO_0001663	GCST001147

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4871004	8	127.9821	2.0082	credible-set	red
rs7014448	8	127.9908	2.5183	credible-set	red
rs961023	8	128.0051	2.7107	credible-set	red
rs77924496	8	128.0106	2.0376	credible-set	red
rs79928828	8	128.0142	2.5402	credible-set	red
rs4871006	8	128.0173	2.7436	credible-set	red
rs5894865	8	128.0202	2.2468	credible-set	red
rs1516943	8	128.0203	2.7595	credible-set	red
rs1487241	8	128.0215	2.9440	credible-set	red
rs710885	8	128.0261	2.9679	credible-set	red
rs785004	8	128.0302	2.2741	credible-set	red

eBMD SNP INDEX 148



date: Wed Jun 28 21:38:46 2017

build: hg19

display range: chr9:12726945–13726945 [12726945–13726945]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:13226945

number of SNPs plotted: 6839

min P-value: 3.8E-10 [chr9:13226945]

max P-value: 1E0 [chr9:12770297]

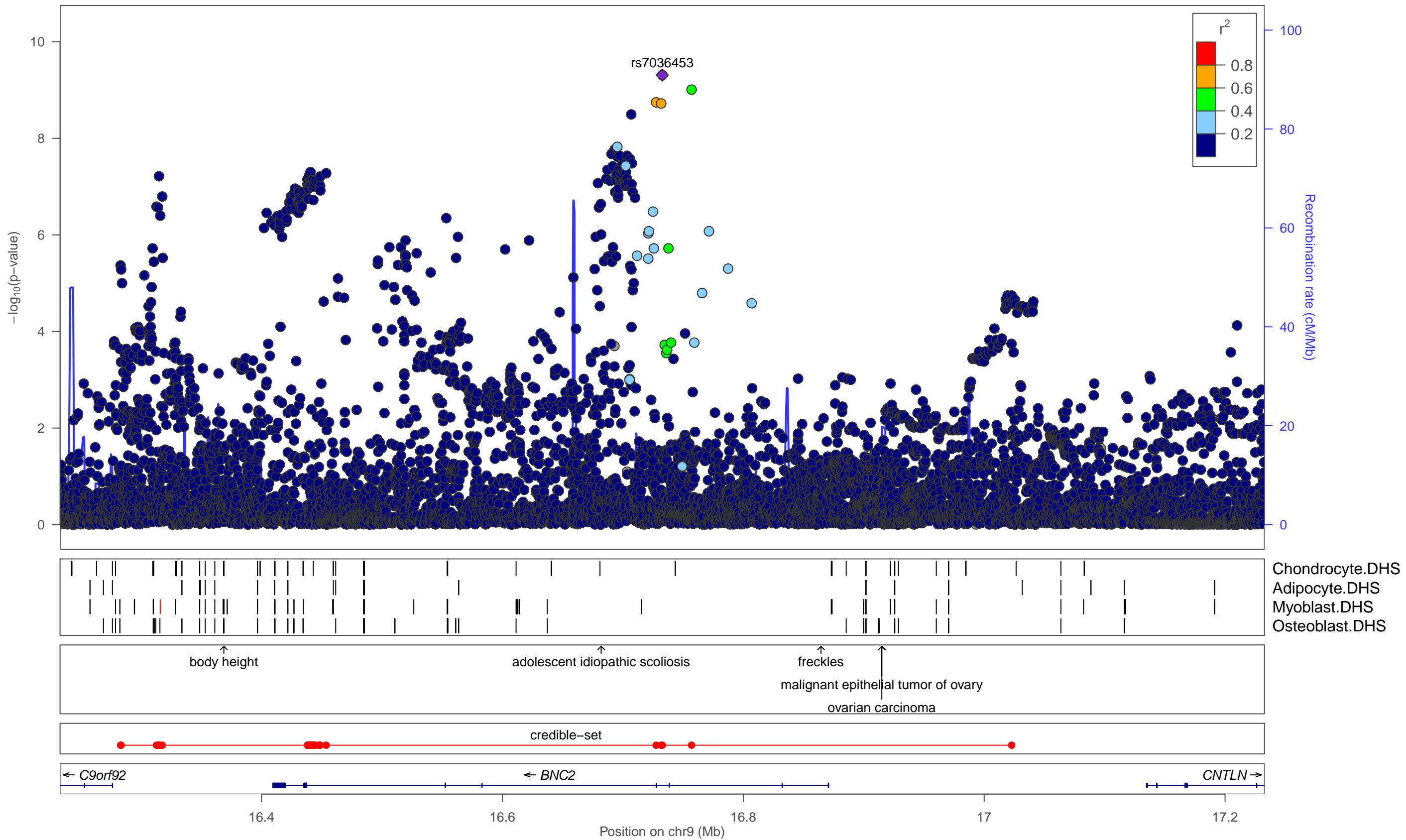
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	13.55749	corneal topography	Lu Y	6/01/2013	Nat Genet	23291589	rs1324183	EFO_0004345	GCST001806

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12340775	9	13.22695	5.6579	credible-set	red

eBMD SNP INDEX 149



date: Wed Jun 28 21:40:26 2017

build: hg19

display range: chr9:16232735–17232735 [16232735–17232735]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:16732735

number of SNPs plotted: 7416

min P-value: 4.9E-10 [chr9:16732735]

max P-value: 1E0 [chr9:16243162]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	16.36873	body height	Lango Allen H	29/09/2010	Nature	20881960	rs7864648	EFO_0004339	GCST000817
9	16.68199	adolescent idiopathic scoliosis	Ogura Y	23/07/2015	Am J Hum Genet	26211971	rs3904778	EFO_0005423	GCST003052
9	16.86452	freckles	Eriksson N	24/06/2010	PLoS Genet	20585627	rs2153271	EFO_0003963	GCST000708
9	16.91502	malignant epithelial tumor of ovary	Kuchenbaecker KB	12/01/2015	Nat Genet	25581431	rs3814113	Orphanet_398934	GCST002748
9	16.91502	ovarian carcinoma	Couch FJ	27/03/2013	PLoS Genet	23544013	rs3814113	EFO_0001075	GCST001917
9	16.91502	ovarian carcinoma	Pharoah PD	1/04/2013	Nat Genet	23535730	rs3814113	EFO_0001075	GCST001941
9	16.91502	ovarian carcinoma	Song H	2/08/2009	Nat Genet	19648919	rs3814113	EFO_0001075	GCST000455

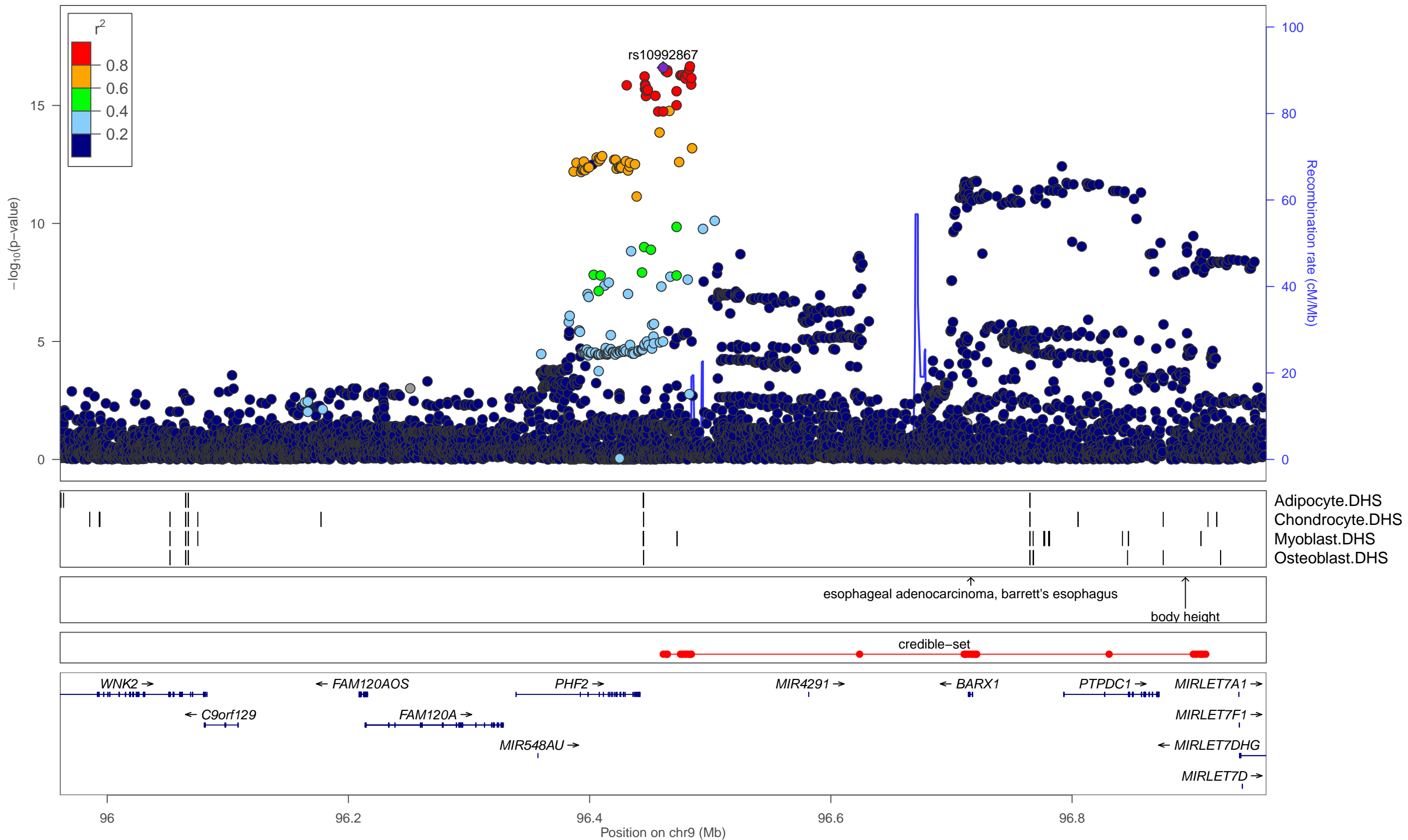
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7851095	9	16.28298	2.0885	credible-set	red
rs7042839	9	16.28345	2.0360	credible-set	red
rs9406620	9	16.31282	2.6434	credible-set	red
rs9407752	9	16.31408	2.6371	credible-set	red
rs7867771	9	16.31491	3.3950	credible-set	red
rs7858247	9	16.31592	2.4342	credible-set	red
rs9406621	9	16.31760	2.9130	credible-set	red
rs367974553	9	16.43811	2.0879	credible-set	red
rs113041038	9	16.43812	2.1946	credible-set	red
rs61393085	9	16.43886	2.0307	credible-set	red
rs1927625	9	16.43978	2.2314	credible-set	red
rs113750986	9	16.44033	2.1882	credible-set	red
rs7021534	9	16.44061	2.0175	credible-set	red
rs59049761	9	16.44066	2.3412	credible-set	red
rs60573475	9	16.44074	2.0283	credible-set	red
rs58105894	9	16.44088	2.0753	credible-set	red
rs7041544	9	16.44122	2.0730	credible-set	red
rs76395872	9	16.44145	2.1601	credible-set	red
rs1927624	9	16.44231	2.0567	credible-set	red
rs1927623	9	16.44279	2.1053	credible-set	red
rs60299869	9	16.44336	2.0214	credible-set	red
rs1927622	9	16.44346	2.0292	credible-set	red
rs16934675	9	16.44480	2.1589	credible-set	red
rs74874160	9	16.44735	2.0629	credible-set	red
rs16934679	9	16.44863	2.2640	credible-set	red
rs75405473	9	16.44869	2.0504	credible-set	red
rs76586581	9	16.45368	2.3087	credible-set	red
rs2282071	9	16.72762	2.5907	credible-set	red
rs67789544	9	16.73182	2.4633	credible-set	red
rs7036453	9	16.73274	3.9610	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72614234	9	16.75705	2.9696	credible-set	red
rs263635	9	17.02278	2.3196	credible-set	red

eBMD SNP INDEX 150



date: Wed Jun 28 21:40:27 2017

build: hg19

display range: chr9:95961013–96961013 [95961013–96961013]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:96461013

number of SNPs plotted: 6347

min P-value: 2.2E-17 [chr9:96483152]

max P-value: 1E0 [chr9:96016221]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	96.71603	esophageal adenocarcinoma, barrett's esophagus	Levine DM	13/10/2013	Nat Genet	24121790	rs11789015	EFO_0000478, EFO_0000280	GCST002231
9	96.89395	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1257763	EFO_0004339	GCST000817

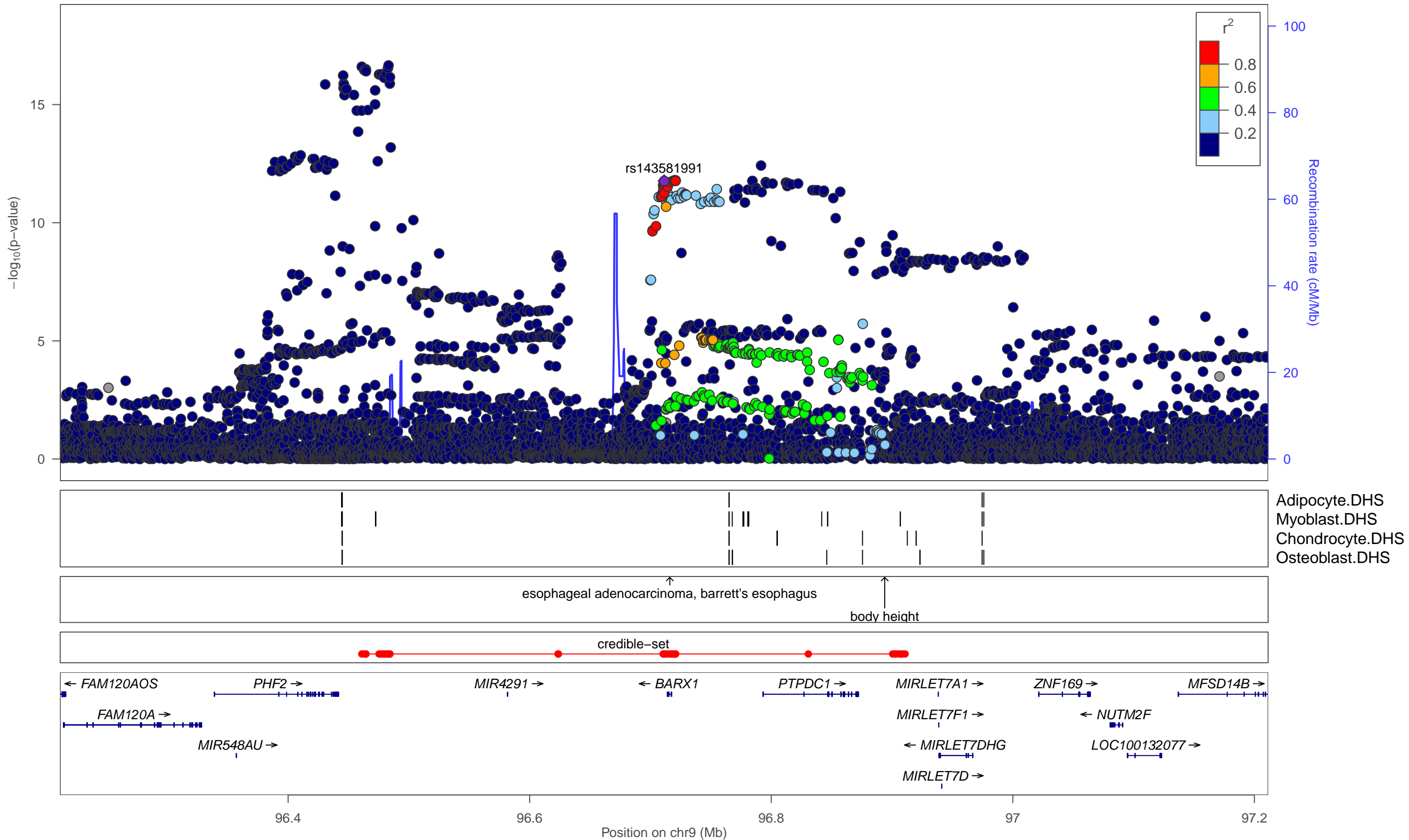
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10992867	9	96.46101	2.0717	credible-set	red
rs12683791	9	96.46309	2.2689	credible-set	red
rs4744270	9	96.46438	2.3181	credible-set	red
rs4744271	9	96.46447	2.2516	credible-set	red
rs7045925	9	96.47531	2.4572	credible-set	red
rs10992875	9	96.47658	2.4052	credible-set	red
rs10992876	9	96.47714	2.4483	credible-set	red
rs10992880	9	96.47917	2.4048	credible-set	red
rs62574025	9	96.47956	2.2749	credible-set	red
rs12551601	9	96.48128	2.4834	credible-set	red
rs4744275	9	96.48263	2.8319	credible-set	red
rs2398869	9	96.48315	2.9818	credible-set	red
rs2398871	9	96.48422	2.0102	credible-set	red
rs9650755	9	96.48434	2.3685	credible-set	red
rs4744295	9	96.62382	2.0017	credible-set	red
rs4437716	9	96.71049	2.2862	credible-set	red
rs11788035	9	96.71109	2.3785	credible-set	red
rs10821273	9	96.71128	2.3312	credible-set	red
rs143581991	9	96.71134	2.3546	credible-set	red
rs10821274	9	96.71142	2.0397	credible-set	red
rs35001304	9	96.71199	2.3578	credible-set	red
rs1057713	9	96.71416	2.4263	credible-set	red
rs7872123	9	96.71616	2.4702	credible-set	red
rs578112281	9	96.71716	3.0731	credible-set	red
rs4563951	9	96.71859	2.5346	credible-set	red
rs1320546	9	96.71990	2.5585	credible-set	red
rs11999521	9	96.72029	2.5798	credible-set	red
rs11999551	9	96.72040	2.5305	credible-set	red
rs13291289	9	96.72078	2.5747	credible-set	red
rs12005806	9	96.72085	2.5337	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs113824873	9	96.83071	2.9048	credible-set	red
rs7854962	9	96.90050	3.5564	credible-set	red
rs55990139	9	96.90244	2.3179	credible-set	red
rs7866254	9	96.90347	2.1882	credible-set	red
rs10761318	9	96.90590	2.2395	credible-set	red
rs76771682	9	96.90714	2.6104	credible-set	red
rs10821302	9	96.90745	2.1585	credible-set	red
rs10821303	9	96.90872	2.1309	credible-set	red
rs10821304	9	96.91081	3.0476	credible-set	red

eBMD SNP INDEX 151



date: Wed Jun 28 21:39:05 2017

build: hg19

display range: chr9:96211337–97211337 [96211337–97211337]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:96711337

number of SNPs plotted: 6218

min P-value: 2.2E-17 [chr9:96483152]

max P-value: 1E0 [chr9:96277315]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	96.71603	esophageal adenocarcinoma, barrett's esophagus	Levine DM	13/10/2013	Nat Genet	24121790	rs11789015	EFO_0000478, EFO_0000280	GCST002231
9	96.89395	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1257763	EFO_0004339	GCST000817

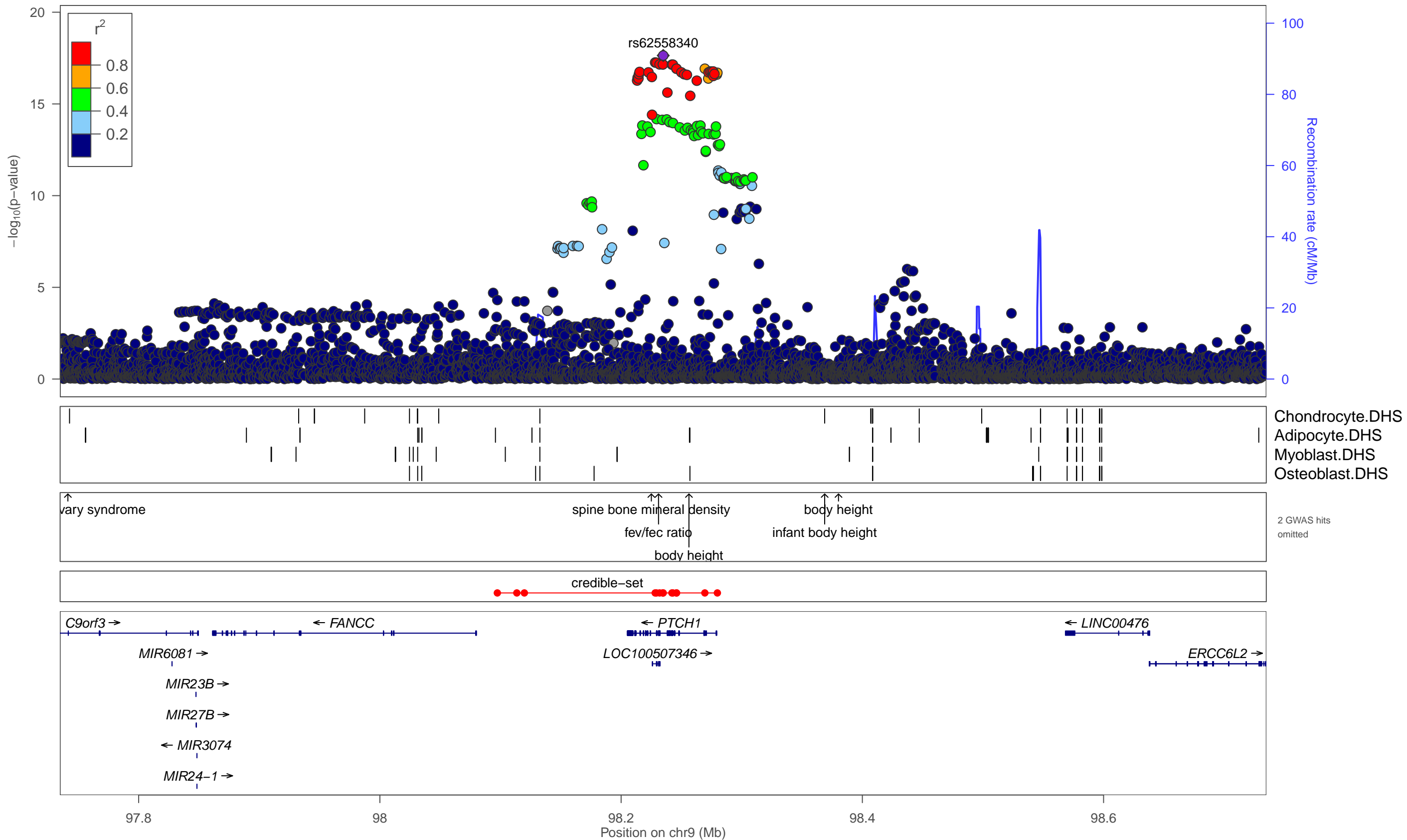
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10992867	9	96.46101	2.0030	credible-set	red
rs12683791	9	96.46309	2.2036	credible-set	red
rs4744270	9	96.46438	2.2721	credible-set	red
rs4744271	9	96.46447	2.2018	credible-set	red
rs7045925	9	96.47531	2.4551	credible-set	red
rs10992875	9	96.47658	2.4217	credible-set	red
rs10992876	9	96.47714	2.4083	credible-set	red
rs10992880	9	96.47917	2.3715	credible-set	red
rs62574025	9	96.47956	2.2438	credible-set	red
rs12551601	9	96.48128	2.4692	credible-set	red
rs4744275	9	96.48263	2.8606	credible-set	red
rs2398869	9	96.48315	3.0155	credible-set	red
rs2398871	9	96.48422	2.0252	credible-set	red
rs9650755	9	96.48434	2.3456	credible-set	red
rs4428725	9	96.62345	2.1963	credible-set	red
rs4744295	9	96.62382	2.1758	credible-set	red
rs4437716	9	96.71049	2.2728	credible-set	red
rs11788035	9	96.71109	2.3588	credible-set	red
rs10821273	9	96.71128	2.3022	credible-set	red
rs143581991	9	96.71134	2.3650	credible-set	red
rs10821274	9	96.71142	2.0121	credible-set	red
rs35001304	9	96.71199	2.3401	credible-set	red
rs1057713	9	96.71416	2.4127	credible-set	red
rs7872123	9	96.71616	2.4467	credible-set	red
rs578112281	9	96.71716	3.1538	credible-set	red
rs4563951	9	96.71859	2.5359	credible-set	red
rs1320546	9	96.71990	2.5656	credible-set	red
rs11999521	9	96.72029	2.5891	credible-set	red
rs11999551	9	96.72040	2.5420	credible-set	red
rs13291289	9	96.72078	2.5621	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12005806	9	96.72085	2.5331	credible-set	red
rs113824873	9	96.83071	2.9649	credible-set	red
rs7854962	9	96.90050	3.4512	credible-set	red
rs55990139	9	96.90244	2.2838	credible-set	red
rs7866254	9	96.90347	2.1263	credible-set	red
rs10761318	9	96.90590	2.1837	credible-set	red
rs76771682	9	96.90714	2.5507	credible-set	red
rs10821302	9	96.90745	2.0729	credible-set	red
rs10821303	9	96.90872	2.0735	credible-set	red
rs10821304	9	96.91081	2.9928	credible-set	red

eBMD SNP INDEX 152



date: Wed Jun 28 21:40:34 2017

build: hg19

display range: chr9:97734903–98734903 [97734903–98734903]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:98234903

number of SNPs plotted: 5539

min P-value: 2.3E–18 [chr9:98234903]

max P-value: 1E0 [chr9:97820558]

omitted GWAS Hits: chr9:98.368761–infant body height, chr9:98.380222–body height

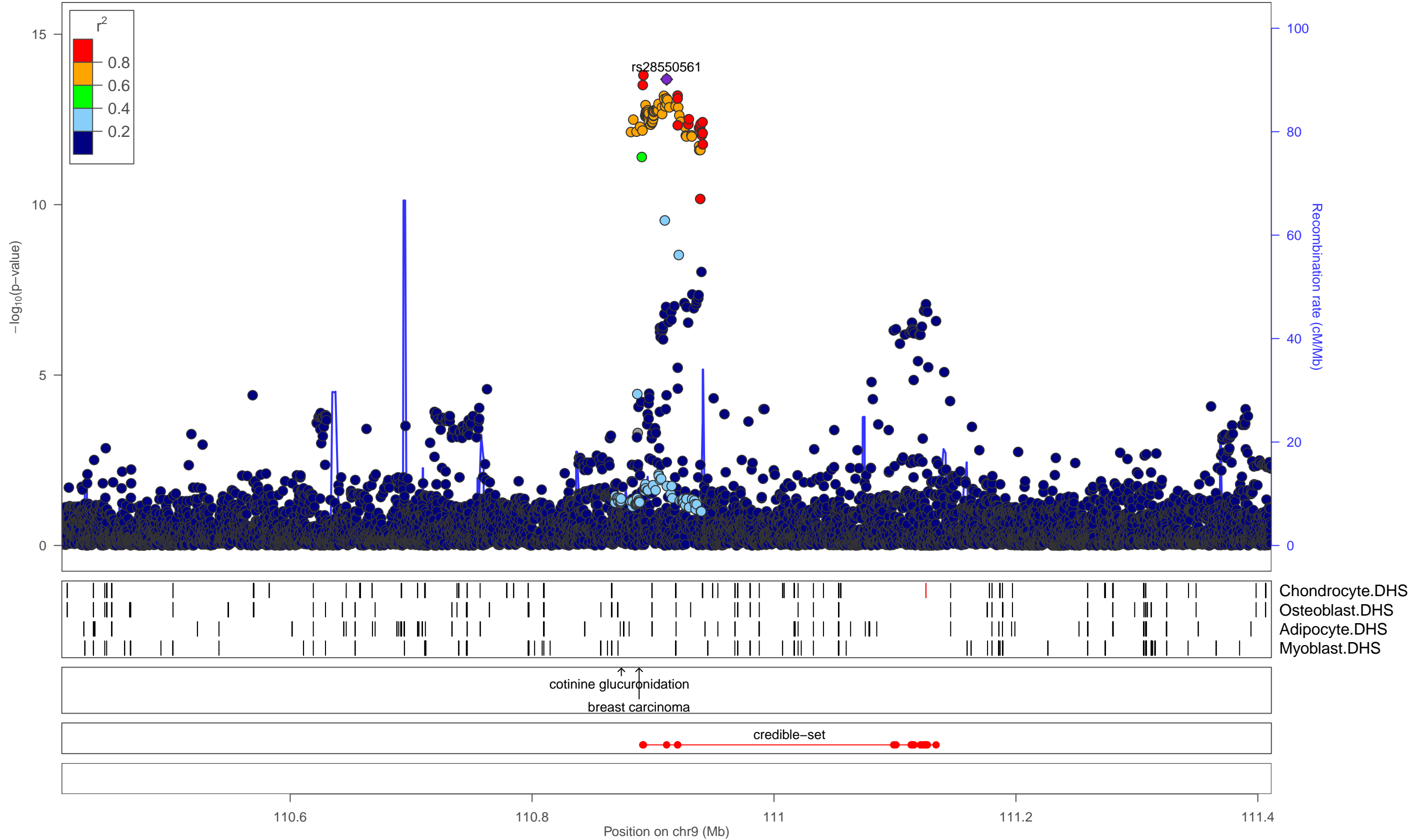
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	97.74134	polycystic ovary syndrome	Shi Y	12/08/2012	Nat Genet	22885925	rs3802457	EFO_0000660	GCST001634
9	98.22506	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs28377268	EFO_0007701	GCST003388
9	98.23101	fev/fec ratio	Hancock DB	20/12/2012	PLoS Genet	23284291	rs16909898	EFO_0004713	GCST001784
9	98.25624	body height	Lango Allen H	29/09/2010	Nature	20881960	rs473902	EFO_0004339	GCST000817
9	98.25970	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs10512248	EFO_0004339	GCST000174
9	98.26637	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs4448343	EFO_0004339	GCST002647
9	98.36876	infant body height	van der Valk RJ	3/10/2014	Hum Mol Genet	25281659	rs1984119	EFO_0006785	GCST002646
9	98.38022	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs817300	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs140755465	9	98.09738	2.4727	credible-set	red
rs575547572	9	98.11354	2.3762	credible-set	red
rs191128063	9	98.11979	2.3915	credible-set	red
rs28394554	9	98.22822	2.3821	credible-set	red
rs2274693	9	98.22930	2.3646	credible-set	red
rs28702657	9	98.23191	2.2698	credible-set	red
rs28442014	9	98.23456	2.2692	credible-set	red
rs71498964	9	98.23465	2.2695	credible-set	red
rs62558340	9	98.23490	2.8191	credible-set	red
rs2274694	9	98.24211	2.2540	credible-set	red
rs2297087	9	98.24292	2.2541	credible-set	red
rs28488553	9	98.24586	2.0192	credible-set	red
rs17369383	9	98.24597	2.0192	credible-set	red
rs11362678	9	98.26942	2.1686	credible-set	red
rs28705285	9	98.27980	2.0319	credible-set	red

eBMD SNP INDEX 153



date: Wed Jun 28 21:40:36 2017

build: hg19

display range: chr9:110411197–111411197 [110411197–111411197]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:110911197

number of SNPs plotted: 7390

min P-value: 1.6E-14 [chr9:110892030]

max P-value: 1E0 [chr9:110432297]

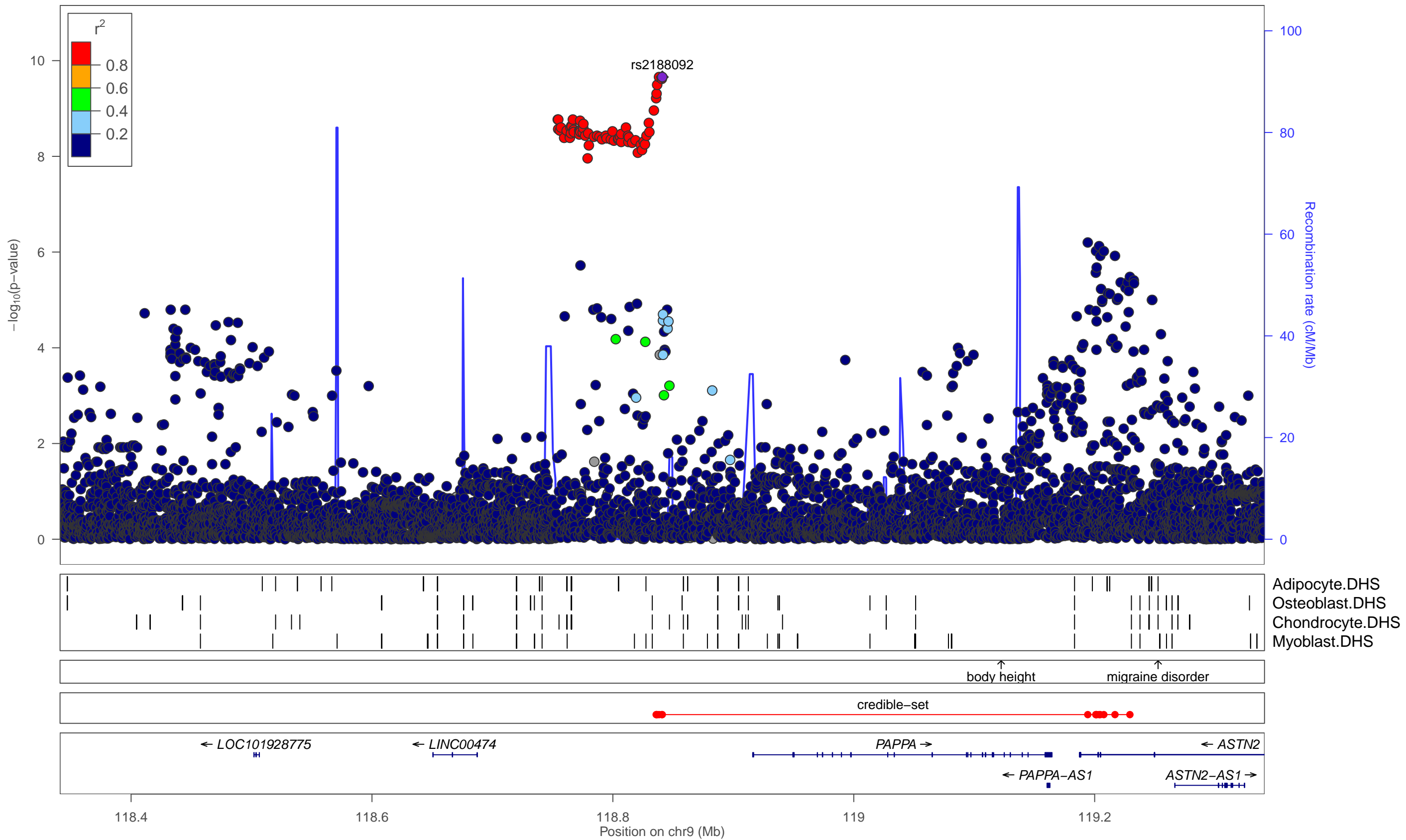
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	110.8738	cotinine glucuronidation	Patel Y	7/10/2014	Cancer Epidemiol Biomarkers Prev	25293881	rs60634637	EFO_0006508	GCST002652
9	110.8885	breast carcinoma	Fletcher O	24/01/2011	J Natl Cancer Inst	21263130	rs865686	EFO_0000305	GCST000952
9	110.8885	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs865686	EFO_0000305	GCST001937

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7870781	9	110.8915	2.6283	credible-set	red
rs6477617	9	110.8920	2.9373	credible-set	red
rs28550561	9	110.9112	2.9456	credible-set	red
rs7850979	9	110.9203	2.3974	credible-set	red
rs7866211	9	110.9203	2.2538	credible-set	red
rs10979319	9	111.0990	2.1089	credible-set	red
rs16936302	9	111.1008	2.1465	credible-set	red
rs13295219	9	111.1134	2.0914	credible-set	red
rs9644920	9	111.1141	2.2021	credible-set	red
rs9644921	9	111.1143	2.0220	credible-set	red
rs9644922	9	111.1145	2.0656	credible-set	red
rs10979321	9	111.1147	2.0479	credible-set	red
rs9644900	9	111.1157	2.0090	credible-set	red
rs10979328	9	111.1211	2.0054	credible-set	red
rs2025323	9	111.1223	2.3152	credible-set	red
rs10979330	9	111.1240	2.8028	credible-set	red
rs10979331	9	111.1251	2.8499	credible-set	red
rs35935818	9	111.1256	2.9720	credible-set	red
rs34401929	9	111.1268	2.7249	credible-set	red
rs2146778	9	111.1340	2.3045	credible-set	red

eBMD SNP INDEX 154



date: Wed Jun 28 21:39:17 2017

build: hg19

display range: chr9:118341009–119341009 [118341009–119341009]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:118841009

number of SNPs plotted: 5843

min P-value: 2.2E-10 [chr9:118838314]

max P-value: 1E0 [chr9:118366263]

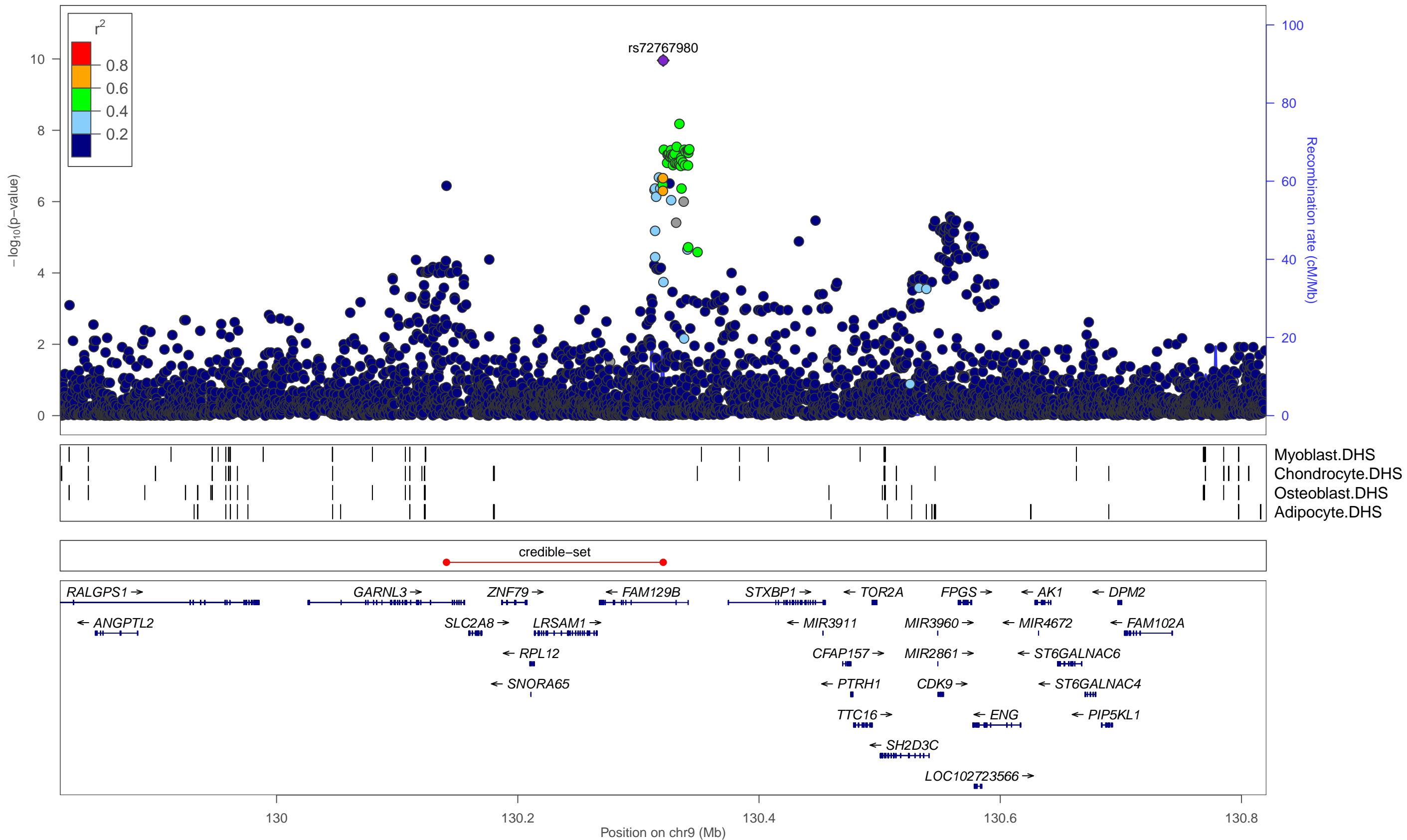
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	119.1223	body height	Lango Allen H	29/09/2010	Nature	20881960	rs751543	EFO_0004339	GCST000817
9	119.2526	migraine disorder	Anttila V	23/06/2013	Nat Genet	23793025	rs6478241	EFO_0003821	GCST002079
9	119.2526	migraine disorder	Freiling T	10/06/2012	Nat Genet	22683712	rs6478241	EFO_0003821	GCST001563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs77784158	9	118.8359	2.2048	credible-set	red
rs76968739	9	118.8363	2.3169	credible-set	red
rs78468346	9	118.8368	2.5278	credible-set	red
rs916561	9	118.8383	2.7587	credible-set	red
rs78819557	9	118.8406	2.6828	credible-set	red
rs2188092	9	118.8410	2.7275	credible-set	red
9:119194284_T_TA	9	119.1943	2.7639	credible-set	red
rs7851264	9	119.2009	2.0779	credible-set	red
rs35071621	9	119.2012	2.5355	credible-set	red
rs112183369	9	119.2017	2.2459	credible-set	red
rs5900210	9	119.2037	2.6721	credible-set	red
rs2302827	9	119.2046	2.4229	credible-set	red
rs888401	9	119.2076	2.5274	credible-set	red
rs10739462	9	119.2169	2.4507	credible-set	red
rs4837545	9	119.2292	2.1409	credible-set	red

eBMD SNP INDEX 155



date: Wed Jun 28 21:39:24 2017

build: hg19

display range: chr9:129820557–130820557 [129820557–130820557]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:130320557

number of SNPs plotted: 4866

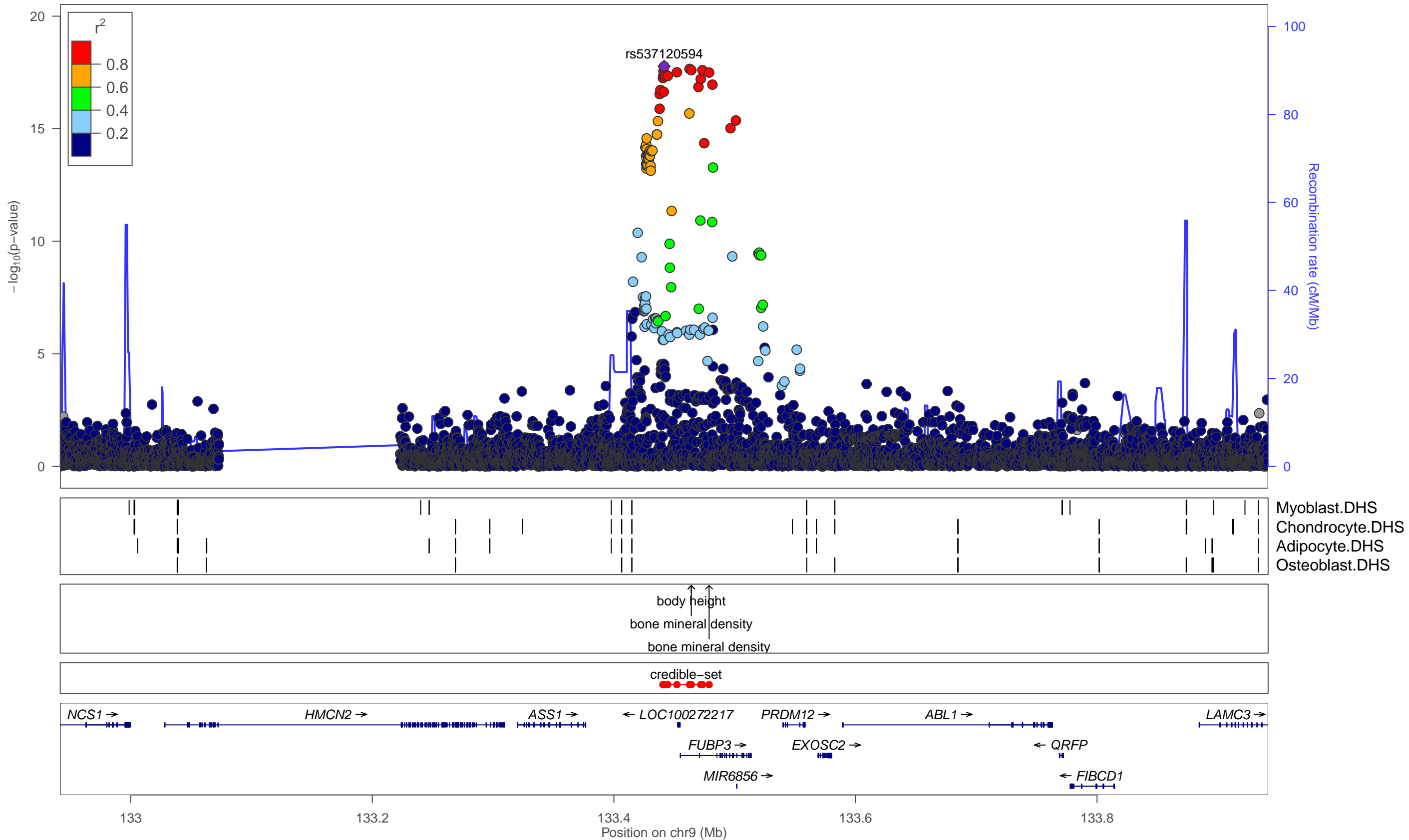
min P-value: 1.1E-10 [chr9:130320557]

max P-value: 1E0 [chr9:129857402]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs201780684	9	130.1409	2.1123	credible-set	red
rs72767980	9	130.3206	4.4326	credible-set	red

eBMD SNP INDEX 156



date: Wed Jun 28 21:39:32 2017

build: hg19

display range: chr9:132941613–133941613 [132941613–133941613]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:133441613

number of SNPs plotted: 6246

min P-value: 1.7E-18 [chr9:133441613]

max P-value: 1E0 [chr9:132998359]

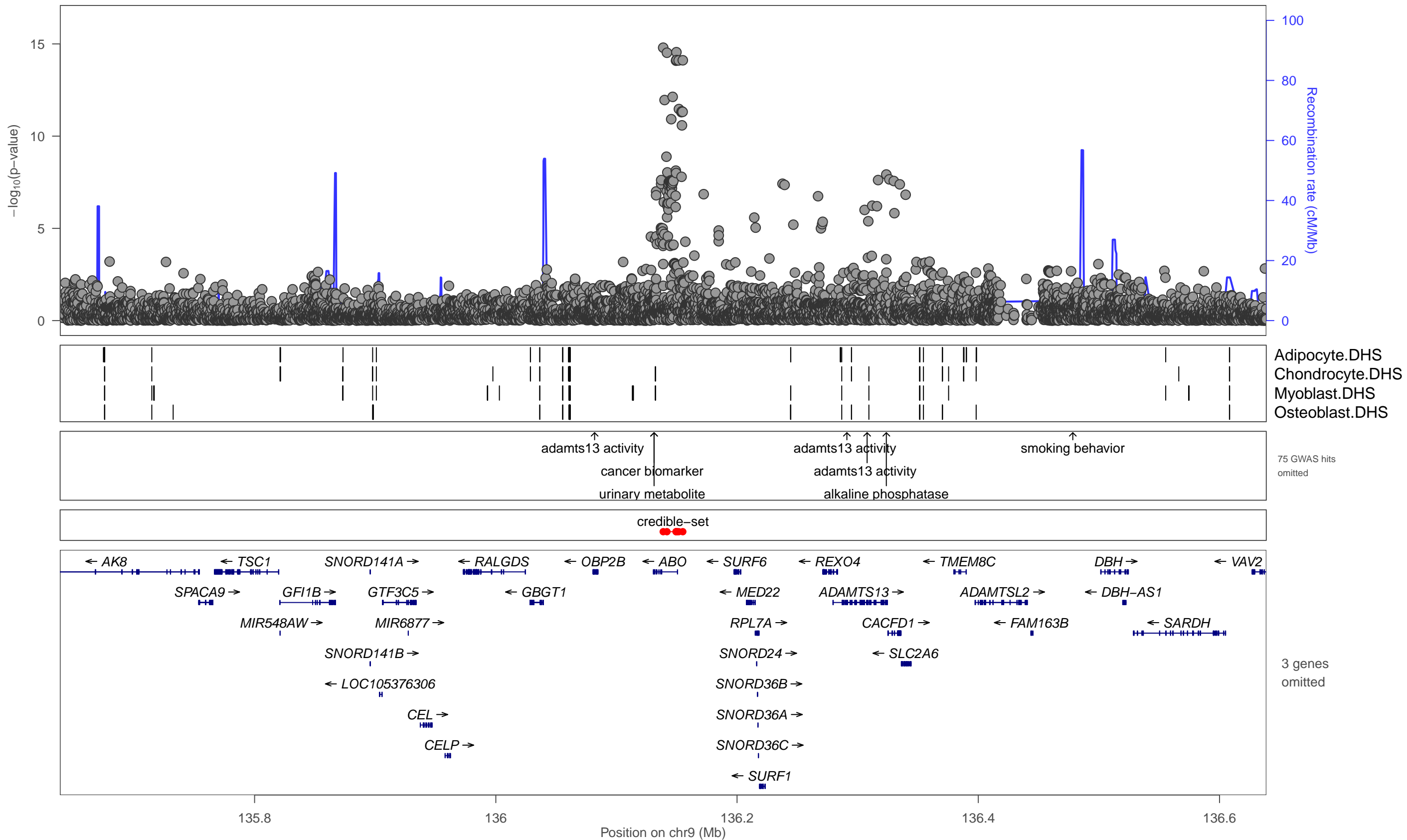
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	133.4641	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs7466269	EFO_0004339	GCST001956
9	133.4641	body height	Lango Allen H	29/09/2010	Nature	20881960	rs7466269	EFO_0004339	GCST000817
9	133.4641	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs7466269	EFO_0004339	GCST002647
9	133.4641	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7466269	EFO_0003923	GCST002492
9	133.4641	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs7466269	EFO_0003923	GCST002494
9	133.4788	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7851693	EFO_0003923	GCST001482

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7030440	9	133.4406	2.2098	credible-set	red
rs7870114	9	133.4410	2.3212	credible-set	red
rs7853319	9	133.4411	2.5401	credible-set	red
rs537120594	9	133.4416	2.7842	credible-set	red
rs10901186	9	133.4418	2.4036	credible-set	red
rs10120359	9	133.4427	2.2907	credible-set	red
rs7037020	9	133.4446	2.3109	credible-set	red
rs7040344	9	133.4522	2.4897	credible-set	red
rs10901208	9	133.4626	2.6598	credible-set	red
rs7466269	9	133.4641	2.5992	credible-set	red
rs10901216	9	133.4719	2.1630	credible-set	red
rs3802342	9	133.4733	2.5983	credible-set	red
rs7851693	9	133.4788	2.4741	credible-set	red

eBMD SNP INDEX 157



date: Wed Jun 28 21:39:30 2017

build: hg19

display range: chr9:135638777–136638777 [135638777–136638777]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr9:136138777

number of SNPs plotted: 7690

min P-value: 1.6E-15 [chr9:136138765]

max P-value: 1E0 [chr9:135677385]

omitted Genes: SURF2, SURF4, STKLD1

omitted GWAS Hits: chr9:136.291063–adamts13 activity , chr9:136.307825–adamts13 activity

omitted GWAS Hits: chr9:136.478355–smoking behavior, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

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

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	136.0819	adamts13 activity	de Vries PS	1/05/2015	Blood	25934476	rs139911703	EFO_0006955	GCST002881
9	136.1312	cancer biomarker	He M	7/01/2013	Gut	23300138	rs8176749	EFO_0005127	GCST001808
9	136.1312	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs8176749	EFO_0005116	GCST002364
9	136.1313	hemoglobin	Kamatani Y	7/02/2010	Nat Genet	20139978	rs8176746	EFO_0004509, EFO_0004527	GCST000582
9	136.1314	intraocular pressure	Hysi PG	31/08/2014	Nat Genet	25173106	rs8176743	EFO_0004695	GCST002580
9	136.1314	von willebrand factor	Williams FM	1/01/2013	Ann Neurol	23381943	rs8176743	EFO_0004629	GCST001798
9	136.1315	serum carcinoembryonic antigen	Liang Y	18/06/2014	PLoS One	24941225	rs8176741	EFO_0005760	GCST002485
9	136.1328	malaria	Band G	23/05/2013	PLoS Genet	23717212	rs8176722	EFO_0001068	GCST002033
9	136.1329	alkaline phosphatase	Li J	5/10/2013	BMC Genomics	24094242	rs8176720	EFO_0004533	GCST002214
9	136.1329	malaria	Timmann C	15/08/2012	Nature	22895189	rs8176719	EFO_0001068	GCST001637
9	136.1329	venous thromboembolism	Heit JA	5/06/2012	J Thromb Haemost	22672568	rs8176719	EFO_0004286	GCST001557
9	136.1356	coagulation factor	Desch KC	24/12/2012	Proc Natl Acad Sci U S A	23267103	rs8176704	EFO_0004634	GCST001793
9	136.1356	von willebrand factor	van Loon J	21/10/2015	Eur J Hum Genet	26486471	rs8176704	EFO_0004629	GCST003210
9	136.1371	partial thromboplastin time	Tang W	14/06/2012	Am J Hum Genet	22703881	rs687621	EFO_0004310	GCST001574
9	136.1371	venous thromboembolism	Tang W	5/05/2013	Genet Epidemiol	23650146	rs687621	EFO_0004286	GCST002012
9	136.1371	von willebrand factor	Smith NL	15/03/2010	Circulation	20231535	rs687621	EFO_0004629	GCST000627
9	136.1371	coagulation factor	Desch KC	24/12/2012	Proc Natl Acad Sci U S A	23267103	rs687289	EFO_0004634	GCST001793
9	136.1371	factor viii	Smith NL	15/03/2010	Circulation	20231535	rs687289	EFO_0004630	GCST000626
9	136.1371	pancreatic carcinoma	Wolpin BM	3/08/2014	Nat Genet	25086665	rs687289	EFO_0002618	GCST002553
9	136.1371	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs687289	EFO_0005116	GCST002364
9	136.1377	endothelial growth factor	Lieb W	31/12/2014	Circ Cardiovasc Genet	25552591	rs8176693	EFO_0006900, EFO_0006902	GCST002731
9	136.1377	serum lipase activity	Weiss FU	15/07/2014	Gut	25028398	rs8176693	EFO_0005849	GCST002530
9	136.1377	serum lipase activity	Weiss FU	15/07/2014	Gut	25028398	rs8176693	EFO_0005849	GCST002532
9	136.1393	alkaline phosphatase	Li J	5/10/2013	BMC Genomics	24094242	rs657152	EFO_0004533	GCST002214
9	136.1393	alkaline phosphatase	Yuan X	10/10/2008	Am J Hum Genet	18940312	rs657152	EFO_0004533, EFO_0004582	GCST000248
9	136.1393	interleukin-6	Comuzzie AG	4/12/2012	PLoS One	23251661	rs657152	EFO_0004810	GCST001762
9	136.1393	phytosterol	Teupser D	7/06/2010	Circ Cardiovasc Genet	20529992	rs657152	EFO_0004862	GCST000694
9	136.1393	thyroid stimulating hormone	Porcu E	7/02/2013	PLoS Genet	23408906	rs657152	EFO_0004748	GCST001856
9	136.1393	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs657152	EFO_0005116	GCST002364
9	136.1419	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs2519093	EFO_0000378	GCST003116

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	136.1419	venous thromboembolism	Heit JA	5/06/2012	J Thromb Haemost	22672568	rs2519093	EFO_0004286	GCST001557
9	136.1422	coronary heart disease, myocardial infarction	Reilly MP	14/01/2011	Lancet	21239051	rs514659	EFO_0001645, EFO_0000612	GCST000946
9	136.1422	protein	de Boer RA	9/10/2012	PLoS One	23056639	rs644234	EFO_0004747	GCST001711
9	136.1424	interleukin-6	Naitza S	26/01/2012	PLoS Genet	22291609	rs643434	EFO_0004810	GCST001385
9	136.1424	von willebrand factor	Williams FM	1/01/2013	Ann Neurol	23381943	rs643434	EFO_0004629	GCST001798
9	136.1434	metabolite	Suhre K	31/08/2011	Nature	21886157	rs612169	EFO_0004725	GCST001217
9	136.1466	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs550057	EFO_0004611	GCST002898
9	136.1492	duodenal ulcer	Tanikawa C	4/03/2012	Nat Genet	22387998	rs505922	EFO_0004607	GCST001433
9	136.1492	graves disease	Zhao SX	29/04/2013	Hum Mol Genet	23612905	rs505922	EFO_0004237	GCST001982
9	136.1492	pancreatic carcinoma	Childs EJ	22/06/2015	Nat Genet	26098869	rs505922	EFO_0002618	GCST002991
9	136.1492	tumor necrosis factor-alpha	Melzer D	9/05/2008	PLoS Genet	18464913	rs505922	EFO_0004684	GCST000189
9	136.1492	venous thromboembolism	Germain M	27/09/2011	PLoS One	21980494	rs505922	EFO_0004286	GCST001253
9	136.1492	venous thromboembolism	Tregouet DA	10/03/2009	Blood	19278955	rs505922	EFO_0004286	GCST000354
9	136.1492	von willebrand factor	Williams FM	1/01/2013	Ann Neurol	23381943	rs505922	EFO_0004629	GCST001798
9	136.1494	icam-1	Pare G	21/04/2011	PLoS Genet	21533024	rs507666	EFO_0004520	GCST001047
9	136.1494	icam-1	Pare G	4/07/2008	PLoS Genet	18604267	rs507666	EFO_0004520	GCST000210
9	136.1494	low density lipoprotein cholesterol	Zhou L	30/12/2013	PLoS One	24386095	rs507666	EFO_0004611	GCST002321
9	136.1494	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs507666	EFO_0004574	GCST002896
9	136.1494	total cholesterol	Zhou L	30/12/2013	PLoS One	24386095	rs507666	EFO_0004574	GCST002321
9	136.1495	thrombosis	Hinds DA	9/02/2016	Hum Mol Genet	26908601	rs529565	HP_0001977	GCST003390
9	136.1495	venous thromboembolism	Germain M	12/03/2015	Am J Hum Genet	25772935	rs529565	EFO_0004286	GCST002808
9	136.1498	myocardial infarction	Nikpay M	7/09/2015	Nat Genet	26343387	rs532436	EFO_0000612	GCST003117
9	136.1539	alkaline phosphatase	Li J	5/10/2013	BMC Genomics	24094242	rs651007	EFO_0004533	GCST002214
9	136.1539	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs651007	EFO_0005664	GCST002443
9	136.1539	e-selectin	Qi L	22/02/2010	Hum Mol Genet	20147318	rs651007	EFO_0004575	GCST000606
9	136.1539	factor viii	Williams FM	1/01/2013	Ann Neurol	23381943	rs651007	EFO_0004630	GCST001798
9	136.1539	iron biomarker , ferritin	Benyamin B	29/10/2014	Nat Commun	25352340	rs651007	EFO_0004461, EFO_0004459	GCST002677
9	136.1539	low density lipoprotein cholesterol	Kim YJ	11/09/2011	Nat Genet	21909109	rs651007	EFO_0004611	GCST001233
9	136.1542	alkaline phosphatase	Chambers JC	16/10/2011	Nat Genet	22001757	rs579459	EFO_0004533	GCST001276
9	136.1542	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs579459	EFO_0005664	GCST002442

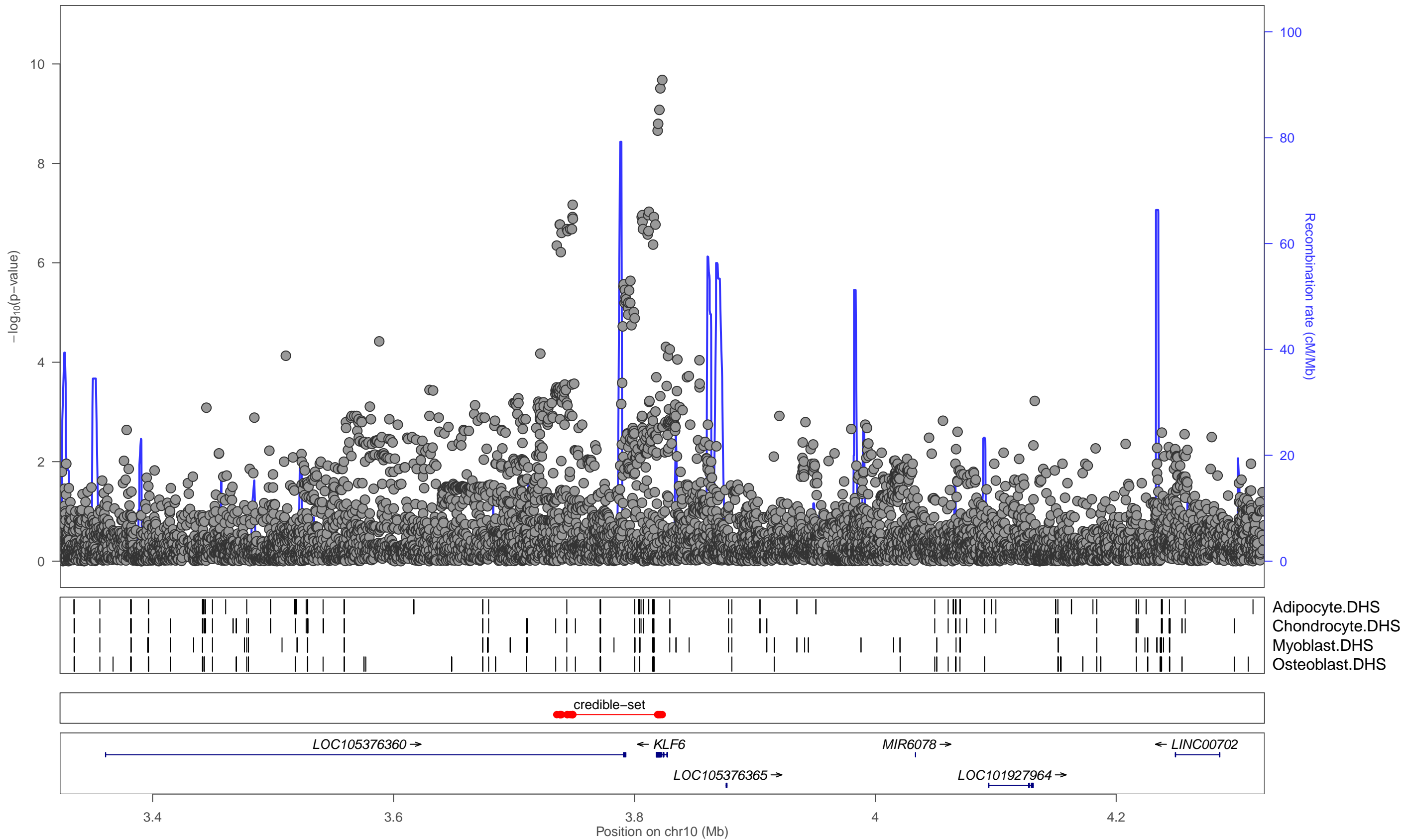
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
9	136.1542	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs579459	EFO_0001645	GCST000998
9	136.1542	erythrocyte count	van der Harst P	5/12/2012	Nature	23222517	rs579459	EFO_0004305	GCST001765
9	136.1542	e-selectin	Paterson AD	3/09/2009	Arterioscler Thromb Vasc Biol	19729612	rs579459	EFO_0004575	GCST000476
9	136.1542	large artery stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs579459	EFO_0005524, EFO_0001645	GCST002290
9	136.1542	low density lipoprotein cholesterol	Lu X	18/11/2015	Circ Cardiovasc Genet	26582766	rs579459	EFO_0004611	GCST003216
9	136.1542	soluble p-selectin	Barbalic M	18/02/2010	Hum Mol Genet	20167578	rs579459	EFO_0004519	GCST000599
9	136.1542	stroke, coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs579459	EFO_0000712, EFO_0001645	GCST002287
9	136.1542	total cholesterol	Lu X	18/11/2015	Circ Cardiovasc Genet	26582766	rs579459	EFO_0004574	GCST003214
9	136.1542	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs579459	EFO_0005116	GCST002364
9	136.1543	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs649129	EFO_0005664	GCST002442
9	136.1543	icam-1	Barbalic M	18/02/2010	Hum Mol Genet	20167578	rs649129	EFO_0004520	GCST000599
9	136.1549	alkaline phosphatase	Kamatani Y	7/02/2010	Nat Genet	20139978	rs495828	EFO_0004533	GCST000583
9	136.1549	angiotensin converting enzyme activity	Chung CM	12/01/2010	Pharmacogenomics J	20066004	rs495828	EFO_0004463	GCST000565
9	136.1549	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs495828	EFO_0005664	GCST002442
9	136.1549	erythrocyte count	Kamatani Y	7/02/2010	Nat Genet	20139978	rs495828	EFO_0004305	GCST000588
9	136.1549	hematocrit	Kamatani Y	7/02/2010	Nat Genet	20139978	rs495828	EFO_0004348	GCST000583
9	136.1549	hemoglobin	Kamatani Y	7/02/2010	Nat Genet	20139978	rs495828	EFO_0004509	GCST000583
9	136.1549	venous thromboembolism	Heit JA	5/06/2012	J Thromb Haemost	22672568	rs495828	EFO_0004286	GCST001557
9	136.1550	low density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs635634	EFO_0004611	GCST000759
9	136.1550	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs635634	EFO_0004574	GCST000760
9	136.1554	serum carcinoembryonic antigen	Liang Y	18/06/2014	PLoS One	24941225	rs7030248	EFO_0005760	GCST002485
9	136.1663	alkaline phosphatase	Li J	5/10/2013	BMC Genomics	24094242	rs7025162	EFO_0004533	GCST002214
9	136.2911	adamts13 activity	de Vries PS	1/05/2015	Blood	25934476	rs3118667	EFO_0006955	GCST002881
9	136.3078	adamts13 activity	de Vries PS	1/05/2015	Blood	25934476	rs41314453	EFO_0006955	GCST002881
9	136.3238	alkaline phosphatase	Yuan X	10/10/2008	Am J Hum Genet	18940312	rs4962153	EFO_0004533, EFO_0004582	GCST000248
9	136.4784	smoking behavior	TGC	25/04/2010	Nat Genet	20418890	rs3025343	EFO_0004318	GCST000666

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs587729126	9	136.1388	3.3452	credible-set	red
rs2519093	9	136.1419	2.9939	credible-set	red
rs507666	9	136.1494	2.5100	credible-set	red
rs8176643	9	136.1497	2.5687	credible-set	red
rs115478735	9	136.1497	3.0298	credible-set	red
rs532436	9	136.1498	2.5478	credible-set	red
rs587745765	9	136.1516	2.5284	credible-set	red
rs635634	9	136.1550	2.5347	credible-set	red

eBMD SNP INDEX 158



date: Wed Jun 28 21:42:10 2017

build: hg19

display range: chr10:3323147–4323147 [3323147–4323147]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:3823147

number of SNPs plotted: 7844

min P-value: 2.1E-10 [chr10:3823142]

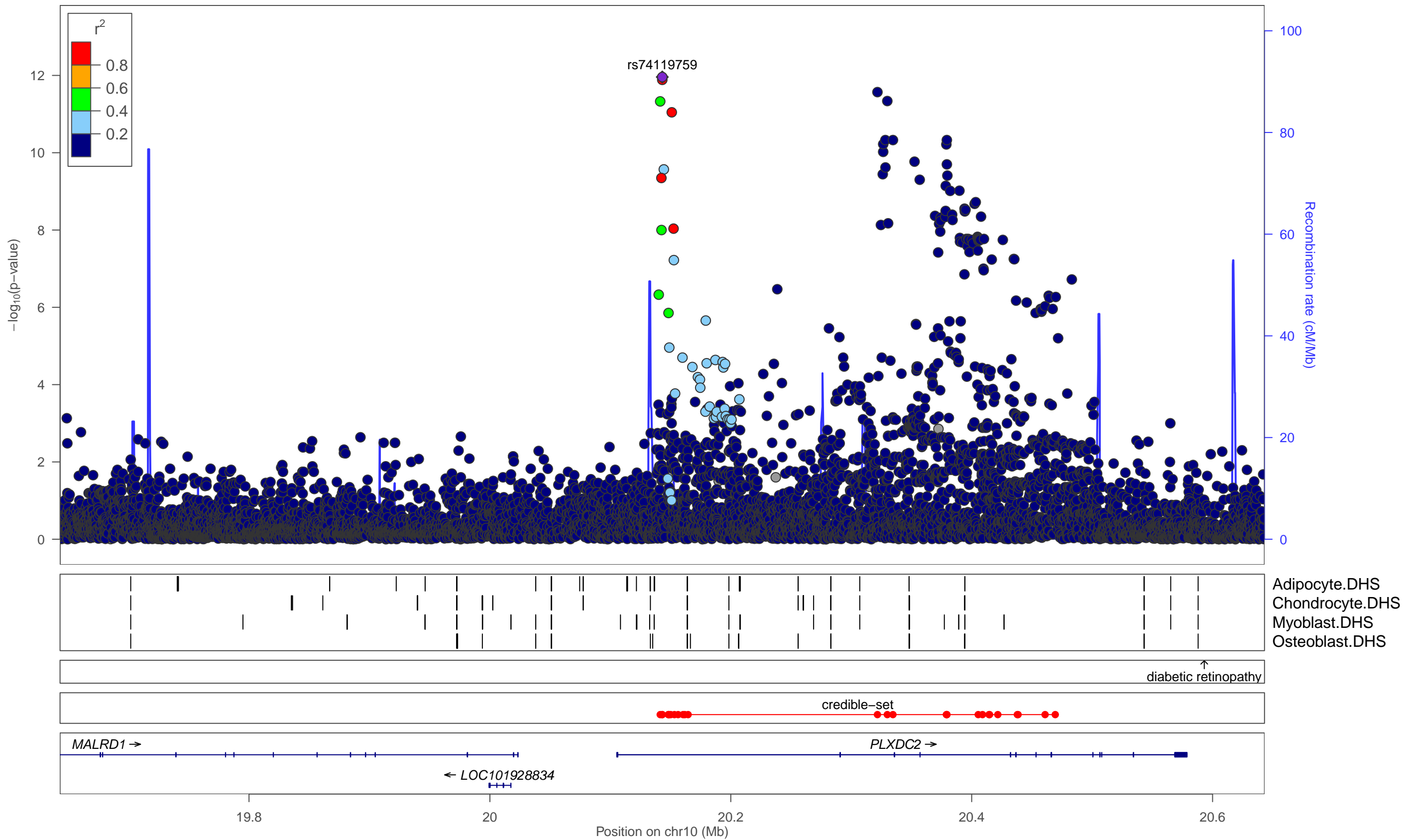
max P-value: 1E0 [chr10:3325533]

Warning: No usable LD information for reference SNP.

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4880623	10	3.735552	2.2572	credible-set	red
rs7923636	10	3.737978	2.6684	credible-set	red
rs6601748	10	3.738246	2.6700	credible-set	red
rs10466268	10	3.738912	2.0185	credible-set	red
rs4881197	10	3.739510	2.3684	credible-set	red
rs560381515	10	3.744022	2.5996	credible-set	red
rs2388854	10	3.744575	2.5171	credible-set	red
rs2129445	10	3.746775	2.5550	credible-set	red
rs549285543	10	3.748139	2.5516	credible-set	red
rs150159360	10	3.748616	2.7820	credible-set	red
rs7906487	10	3.748756	3.1037	credible-set	red
rs7906744	10	3.748936	2.7854	credible-set	red
rs538095251	10	3.819321	2.3962	credible-set	red
rs1043009	10	3.819714	2.5371	credible-set	red
rs1043003	10	3.820787	2.8358	credible-set	red
rs17731	10	3.821561	3.3554	credible-set	red
rs68192277	10	3.823142	3.5934	credible-set	red

eBMD SNP INDEX 159



date: Wed Jun 28 21:40:28 2017

build: hg19

display range: chr10:19643109–20643109 [19643109–20643109]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:20143109

number of SNPs plotted: 7627

min P-value: 1.1E-12 [chr10:20143109]

max P-value: 1E0 [chr10:19649406]

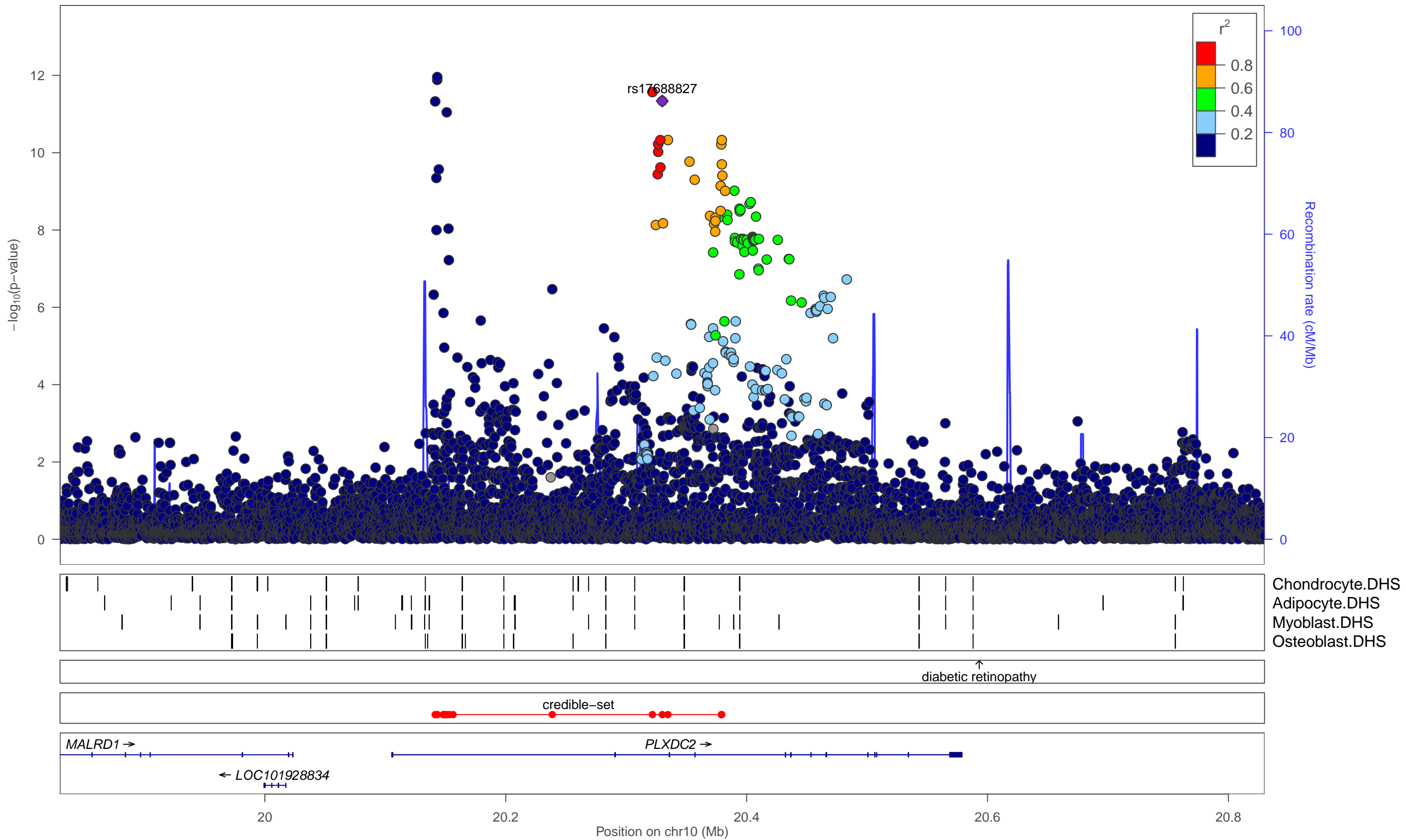
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	20.59309	diabetic retinopathy	Huang YC	8/02/2011	Ophthalmology	21310492	rs12219125	EFO_0003770	GCST000966

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12255607	10	20.14140	3.5363	credible-set	red
rs74119758	10	20.14311	3.2154	credible-set	red
rs74119759	10	20.14311	3.3329	credible-set	red
rs74119763	10	20.14812	2.3936	credible-set	red
rs16919446	10	20.14826	2.2611	credible-set	red
rs12098815	10	20.14894	2.4692	credible-set	red
rs113140332	10	20.15013	2.4142	credible-set	red
rs77865567	10	20.15320	2.5456	credible-set	red
rs7911356	10	20.15625	2.8805	credible-set	red
rs74119779	10	20.16037	2.1603	credible-set	red
rs74119780	10	20.16180	2.2269	credible-set	red
rs4997680	10	20.16455	2.1626	credible-set	red
rs55860822	10	20.32176	3.5020	credible-set	red
rs17688827	10	20.32994	3.1474	credible-set	red
rs7089618	10	20.33463	2.5596	credible-set	red
rs7916674	10	20.37897	2.7577	credible-set	red
rs10764201	10	20.37938	2.8429	credible-set	red
rs60809009	10	20.37940	2.1750	credible-set	red
rs375626460	10	20.40542	2.6670	credible-set	red
rs539434618	10	20.40898	2.5894	credible-set	red
rs80037860	10	20.41441	3.7733	credible-set	red
rs113729277	10	20.41485	3.4281	credible-set	red
10:20421699_T_C	10	20.42170	2.2534	credible-set	red
rs151275521	10	20.43790	2.1851	credible-set	red
rs117137833	10	20.43851	2.1854	credible-set	red
rs148378425	10	20.46094	8.3794	credible-set	red
rs77038298	10	20.46938	4.8174	credible-set	red

eBMD SNP INDEX 160



date: Wed Jun 28 21:43:17 2017

build: hg19

display range: chr10:19829943–20829943 [19829943–20829943]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:20329943

number of SNPs plotted: 7572

min P-value: 1.1E-12 [chr10:20143109]

max P-value: 1E0 [chr10:19886608]

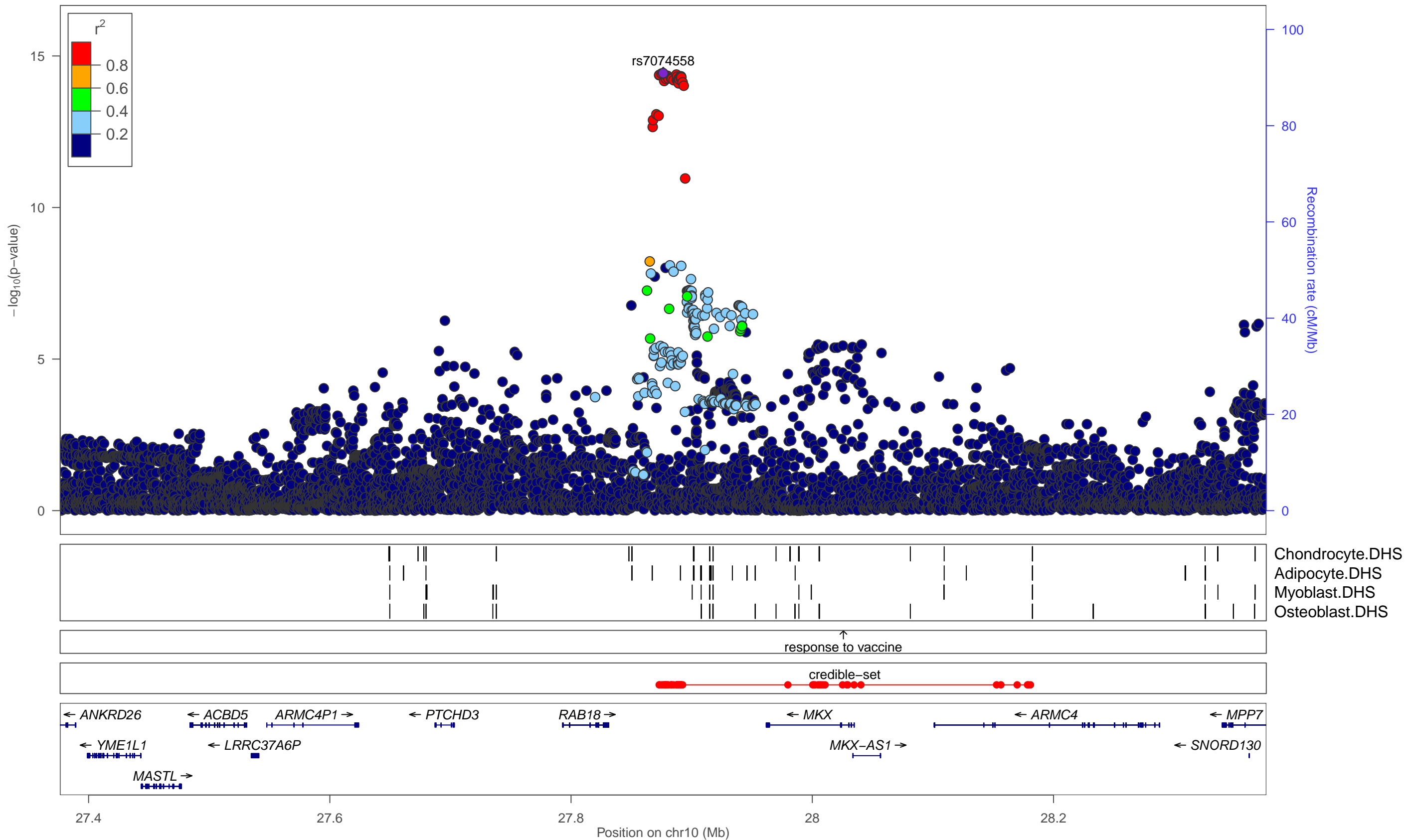
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	20.59309	diabetic retinopathy	Huang YC	8/02/2011	Ophthalmology	21310492	rs12219125	EFO_0003770	GCST000966

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12255607	10	20.14140	3.8203	credible-set	red
rs74119758	10	20.14311	3.0247	credible-set	red
rs74119759	10	20.14311	3.1185	credible-set	red
rs74119763	10	20.14812	2.1525	credible-set	red
rs16919446	10	20.14826	2.0257	credible-set	red
rs12098815	10	20.14894	2.2225	credible-set	red
rs113140332	10	20.15013	2.1630	credible-set	red
rs12266731	10	20.15098	2.0382	credible-set	red
rs77865567	10	20.15320	2.4058	credible-set	red
rs7911356	10	20.15625	2.6013	credible-set	red
rs74486297	10	20.23860	2.2392	credible-set	red
rs55860822	10	20.32176	3.6330	credible-set	red
rs17688827	10	20.32994	3.3040	credible-set	red
rs7089618	10	20.33463	2.4699	credible-set	red
rs7916674	10	20.37897	2.3884	credible-set	red
rs10764201	10	20.37938	2.4882	credible-set	red

eBMD SNP INDEX 161



date: Wed Jun 28 21:43:23 2017

build: hg19

display range: chr10:27376397–28376397 [27376397–28376397]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:27876397

number of SNPs plotted: 6872

min P-value: 3.7E-15 [chr10:27876397]

max P-value: 1E0 [chr10:27524332]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	28.02577	response to vaccine	Ovsyannikova IG	25/04/2012	Vaccine	22542470	rs10508727	EFO_0004645	GCST001491

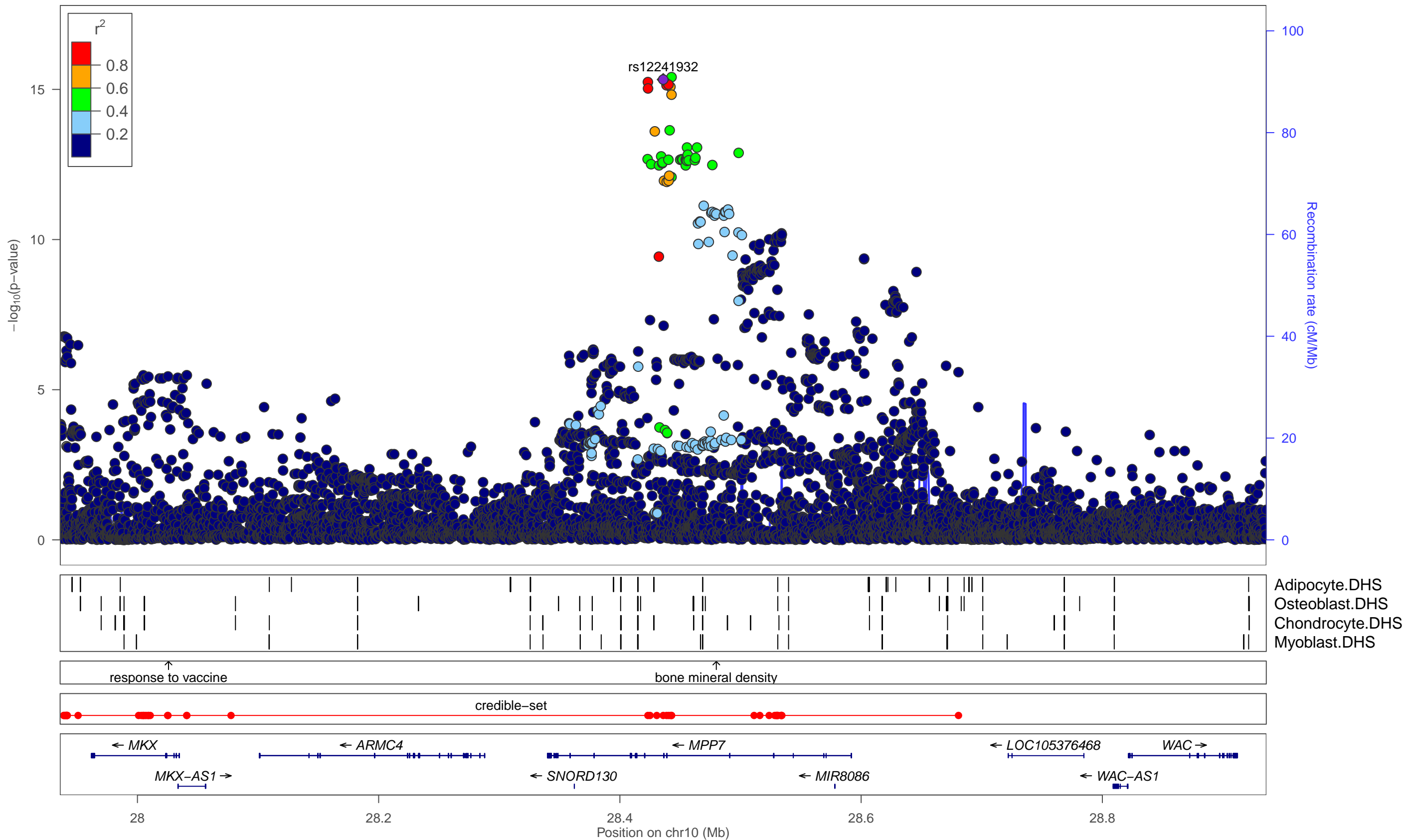
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10829282	10	27.87302	2.2647	credible-set	red
rs982004	10	27.87323	2.3029	credible-set	red
rs1494209	10	27.87501	2.3545	credible-set	red
rs7074558	10	27.87640	2.3279	credible-set	red
rs10764716	10	27.87722	2.0818	credible-set	red
rs7100865	10	27.87794	2.2066	credible-set	red
rs9731405	10	27.87854	2.1791	credible-set	red
rs138678328	10	27.87879	2.1337	credible-set	red
rs2201367	10	27.87997	2.2666	credible-set	red
rs202096516	10	27.88059	2.1563	credible-set	red
rs7072380	10	27.88283	2.1905	credible-set	red
rs1472249	10	27.88305	2.1563	credible-set	red
rs10734066	10	27.88356	2.1416	credible-set	red
rs2201366	10	27.88502	2.0943	credible-set	red
rs4749252	10	27.88734	2.3161	credible-set	red
rs4747599	10	27.88769	2.1025	credible-set	red
rs1580683	10	27.88792	2.2415	credible-set	red
rs7073173	10	27.88863	2.0218	credible-set	red
rs10764717	10	27.88885	2.1218	credible-set	red
rs150745868	10	27.88898	2.1069	credible-set	red
rs1389654	10	27.88941	2.1298	credible-set	red
rs1494201	10	27.88982	2.1088	credible-set	red
rs6482632	10	27.89067	2.2599	credible-set	red
rs10741137	10	27.89114	2.1592	credible-set	red
rs7086976	10	27.89120	2.2618	credible-set	red
rs2887201	10	27.89144	2.2244	credible-set	red
rs10764720	10	27.89250	2.0502	credible-set	red
rs12217587	10	27.97973	2.0660	credible-set	red
rs138811939	10	28.00034	2.4046	credible-set	red
rs11015961	10	28.00100	2.5398	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10829311	10	28.00216	2.3824	credible-set	red
rs11015964	10	28.00473	2.7507	credible-set	red
rs11015965	10	28.00614	2.7648	credible-set	red
rs11015966	10	28.00734	2.5880	credible-set	red
rs60663563	10	28.00892	2.7030	credible-set	red
rs12258832	10	28.01061	2.6733	credible-set	red
rs4417171	10	28.02503	2.5855	credible-set	red
rs11006695	10	28.02856	2.2511	credible-set	red
rs1907374	10	28.02942	2.3683	credible-set	red
rs11006701	10	28.03463	2.1897	credible-set	red
rs72799605	10	28.04029	2.0436	credible-set	red
rs4749267	10	28.15273	2.0108	credible-set	red
rs2152018	10	28.15637	2.0574	credible-set	red
rs7096964	10	28.16984	2.1213	credible-set	red
rs2368269	10	28.17842	2.0467	credible-set	red
rs4749273	10	28.17905	2.0399	credible-set	red
rs147592957	10	28.18088	2.1086	credible-set	red

eBMD SNP INDEX 162



date: Wed Jun 28 21:42:31 2017

build: hg19

display range: chr10:27935915–28935915 [27935915–28935915]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:28435915

number of SNPs plotted: 6396

min P-value: 3.9E–16 [chr10:28442841]

max P-value: 1E0 [chr10:27988590]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	28.02577	response to vaccine	Ovsyannikova IG	25/04/2012	Vaccine	22542470	rs10508727	EFO_0004645	GCST001491
10	28.47994	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3905706	EFO_0003923	GCST001482

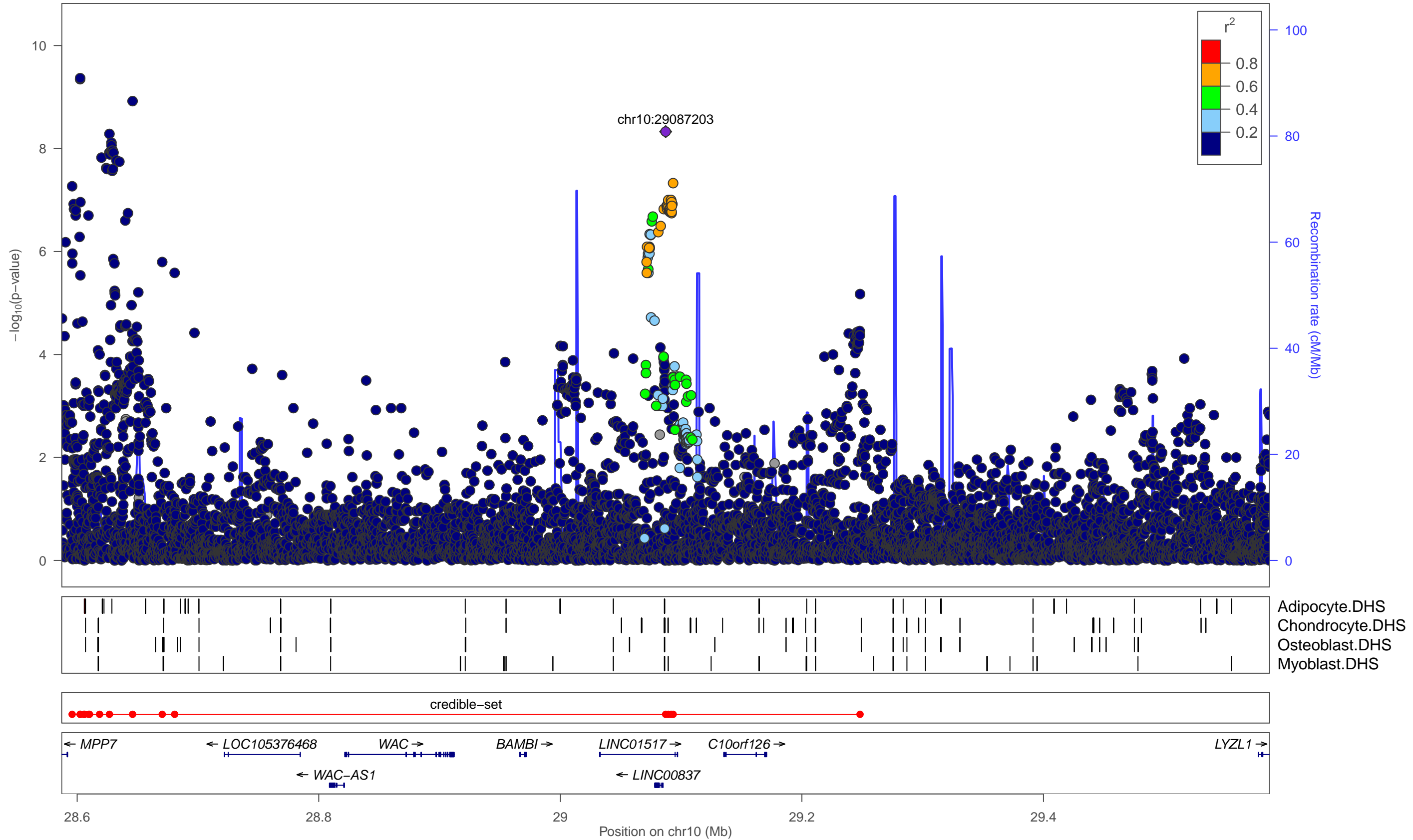
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1494197	10	27.93888	2.2135	credible-set	red
rs1494196	10	27.93904	2.2136	credible-set	red
rs2492907	10	27.93977	2.2437	credible-set	red
rs12354830	10	27.94024	2.2668	credible-set	red
rs2637299	10	27.94071	2.5011	credible-set	red
rs2808272	10	27.94080	2.1832	credible-set	red
rs1687726	10	27.94121	2.7707	credible-set	red
rs1690682	10	27.94165	2.0971	credible-set	red
rs2808273	10	27.94171	2.2809	credible-set	red
rs2808274	10	27.94172	3.0165	credible-set	red
rs2808275	10	27.94182	3.0090	credible-set	red
rs2815542	10	27.95080	2.5354	credible-set	red
rs11015961	10	28.00100	2.2980	credible-set	red
rs118144480	10	28.00321	2.1306	credible-set	red
rs11015964	10	28.00473	2.4167	credible-set	red
rs9299861	10	28.00486	2.1032	credible-set	red
rs11015965	10	28.00614	2.4886	credible-set	red
rs11015966	10	28.00734	2.0343	credible-set	red
rs60663563	10	28.00892	2.3783	credible-set	red
rs2637296	10	28.00914	2.0639	credible-set	red
rs12258832	10	28.01061	2.1985	credible-set	red
rs4417171	10	28.02503	2.0119	credible-set	red
rs71388931	10	28.02531	2.1650	credible-set	red
rs2637317	10	28.04082	2.2137	credible-set	red
rs2637316	10	28.04099	2.1159	credible-set	red
rs35249787	10	28.07761	2.7807	credible-set	red
rs1986268	10	28.42320	2.1692	credible-set	red
rs117731202	10	28.42498	2.1068	credible-set	red
rs78131314	10	28.43057	2.6489	credible-set	red
rs12241932	10	28.43592	2.2661	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs5784043	10	28.43865	2.2009	credible-set	red
rs4747616	10	28.44031	2.2746	credible-set	red
rs11425871	10	28.44188	3.4585	credible-set	red
rs10508731	10	28.44279	2.9304	credible-set	red
rs9299597	10	28.44284	3.0570	credible-set	red
rs7070175	10	28.51124	2.0249	credible-set	red
rs16928633	10	28.51602	2.1368	credible-set	red
rs111503640	10	28.52372	2.2539	credible-set	red
rs11006941	10	28.52836	2.1769	credible-set	red
rs11006942	10	28.52960	2.3384	credible-set	red
rs71961090	10	28.52972	2.3444	credible-set	red
rs10826432	10	28.53055	2.1667	credible-set	red
rs113674171	10	28.53057	2.1922	credible-set	red
rs12354769	10	28.53105	2.4560	credible-set	red
rs1418758	10	28.53356	2.1889	credible-set	red
rs7896797	10	28.53394	2.4032	credible-set	red
rs7911615	10	28.53399	2.6140	credible-set	red
rs7072173	10	28.53428	2.4955	credible-set	red
rs190995267	10	28.68071	2.4399	credible-set	red

eBMD SNP INDEX 163



date: Wed Jun 28 16:27:03 2017

build: hg19

display range: chr10:28587203–29587203 [28587203–29587203]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:29087203

number of SNPs plotted: 7615

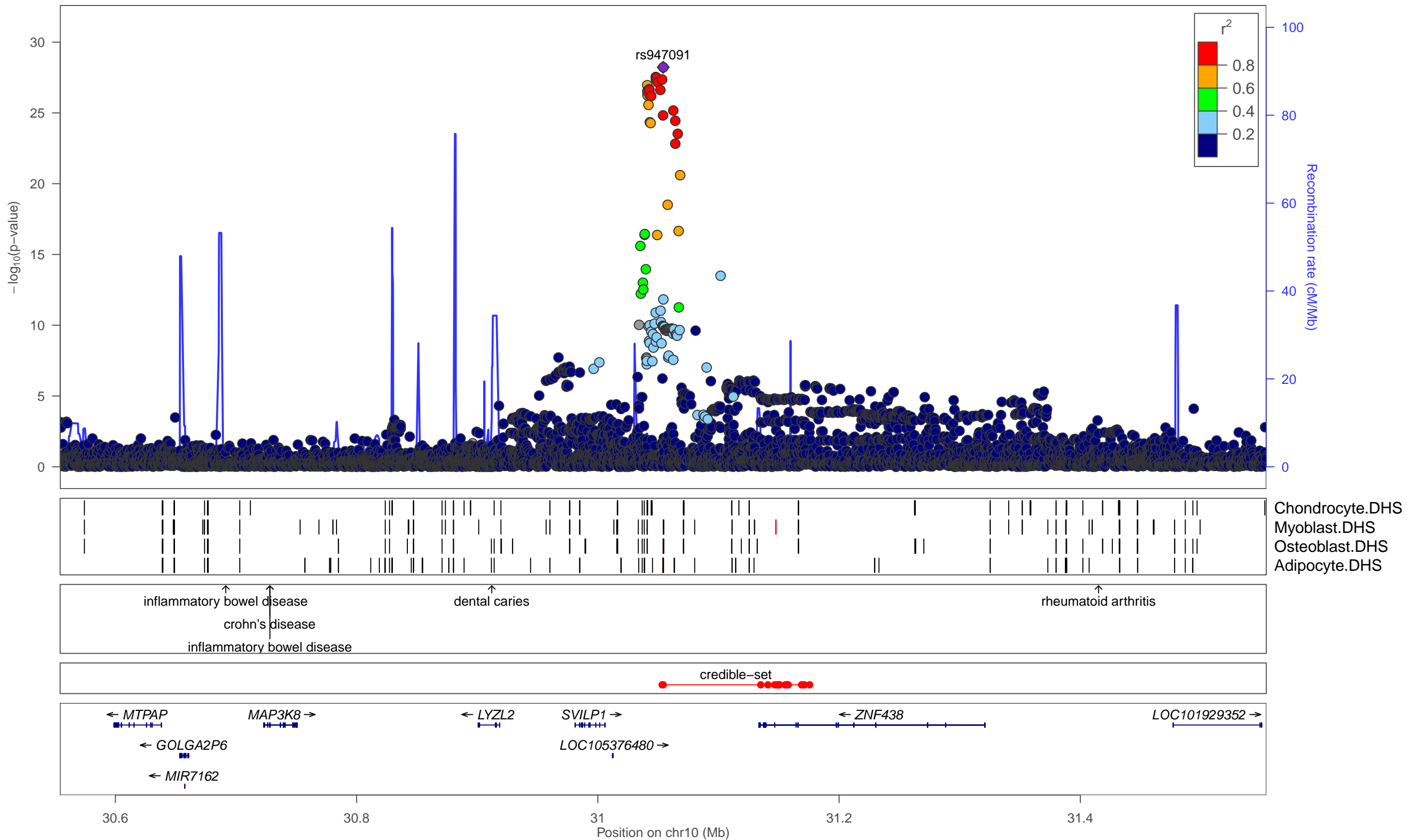
min P-value: 4.3E-10 [chr10:28602475]

max P-value: 1E0 [chr10:28605920]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12098410	10	28.59584	3.1622	credible-set	red
rs72432349	10	28.60244	2.8925	credible-set	red
rs2616615	10	28.60247	2.9103	credible-set	red
rs786399	10	28.60553	2.0083	credible-set	red
rs786397	10	28.60614	2.0739	credible-set	red
rs786392	10	28.60955	2.0402	credible-set	red
rs703015	10	28.61020	2.2263	credible-set	red
rs560000516	10	28.61856	2.5001	credible-set	red
rs34089037	10	28.62671	2.0717	credible-set	red
rs530665978	10	28.64587	3.8375	credible-set	red
rs559540657	10	28.67041	2.1312	credible-set	red
rs190995267	10	28.68071	2.2280	credible-set	red
10:29087203_C_CCA	10	29.08720	3.6460	credible-set	red
rs7913147	10	29.08940	2.0100	credible-set	red
rs7894031	10	29.09169	2.0031	credible-set	red
rs12766414	10	29.09338	2.3182	credible-set	red
rs574008174	10	29.24812	2.1864	credible-set	red

eBMD SNP INDEX 164



date: Wed Jun 28 21:44:38 2017

build: hg19

display range: chr10:30554186–31554186 [30554186–31554186]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:31054186

number of SNPs plotted: 6519

min P-value: 6E-29 [chr10:31054186]

max P-value: 1E0 [chr10:30657602]

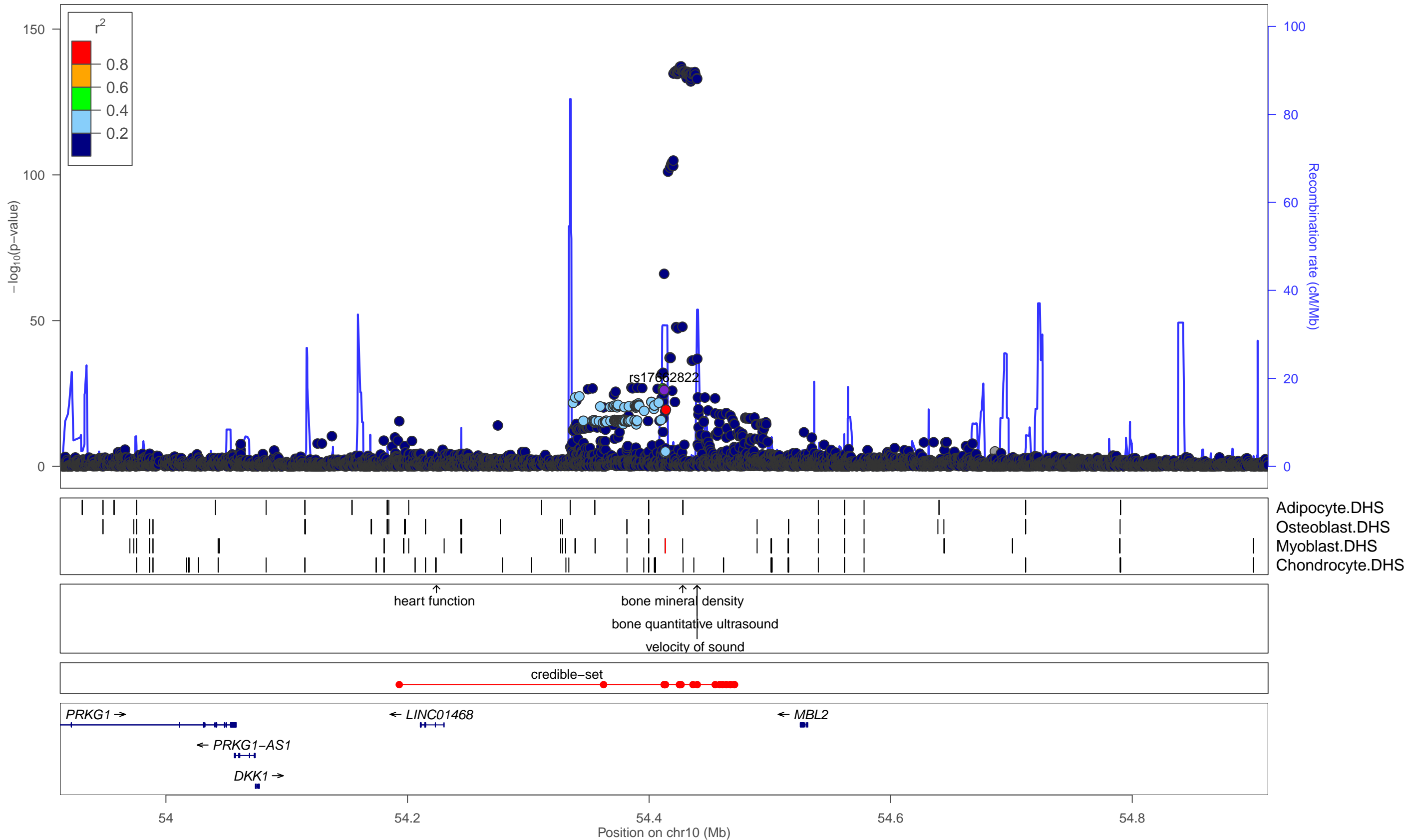
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	30.69150	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2050392	EFO_0003767	GCST003043
10	30.72810	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs1042058	EFO_0000384	GCST003044
10	30.72810	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs1042058	EFO_0003767	GCST001725
10	30.91203	dental caries	Shaffer JR	11/10/2012	J Dent Res	23064961	rs399593	EFO_0003819	GCST001713
10	31.41511	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs793108	EFO_0000685	GCST002318

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs903276	10	31.05328	2.6808	credible-set	red
rs947091	10	31.05419	4.2191	credible-set	red
rs55867315	10	31.13503	2.2254	credible-set	red
rs61845696	10	31.14099	2.4051	credible-set	red
rs16932010	10	31.14662	2.1327	credible-set	red
rs72814434	10	31.14772	2.2086	credible-set	red
rs17295437	10	31.14954	2.2558	credible-set	red
rs16932012	10	31.14963	2.1861	credible-set	red
rs61843570	10	31.15013	2.2614	credible-set	red
rs147156416	10	31.15069	2.2554	credible-set	red
rs61843571	10	31.15526	2.4883	credible-set	red
rs59934134	10	31.15689	2.4381	credible-set	red
rs60441381	10	31.15708	2.3048	credible-set	red
rs60008987	10	31.15723	2.2946	credible-set	red
rs58361287	10	31.15782	2.2197	credible-set	red
rs55846128	10	31.16889	2.3037	credible-set	red
rs58828017	10	31.16918	2.2809	credible-set	red
rs11814082	10	31.17133	2.2039	credible-set	red
rs2220816	10	31.17561	2.0750	credible-set	red

eBMD SNP INDEX 165



date: Wed Jun 28 21:42:22 2017

build: hg19

display range: chr10:53912481–54912481 [53912481–54912481]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:54412481

number of SNPs plotted: 6586

min P-value: 6E-138 [chr10:54426489]

max P-value: 1E0 [chr10:53975271]

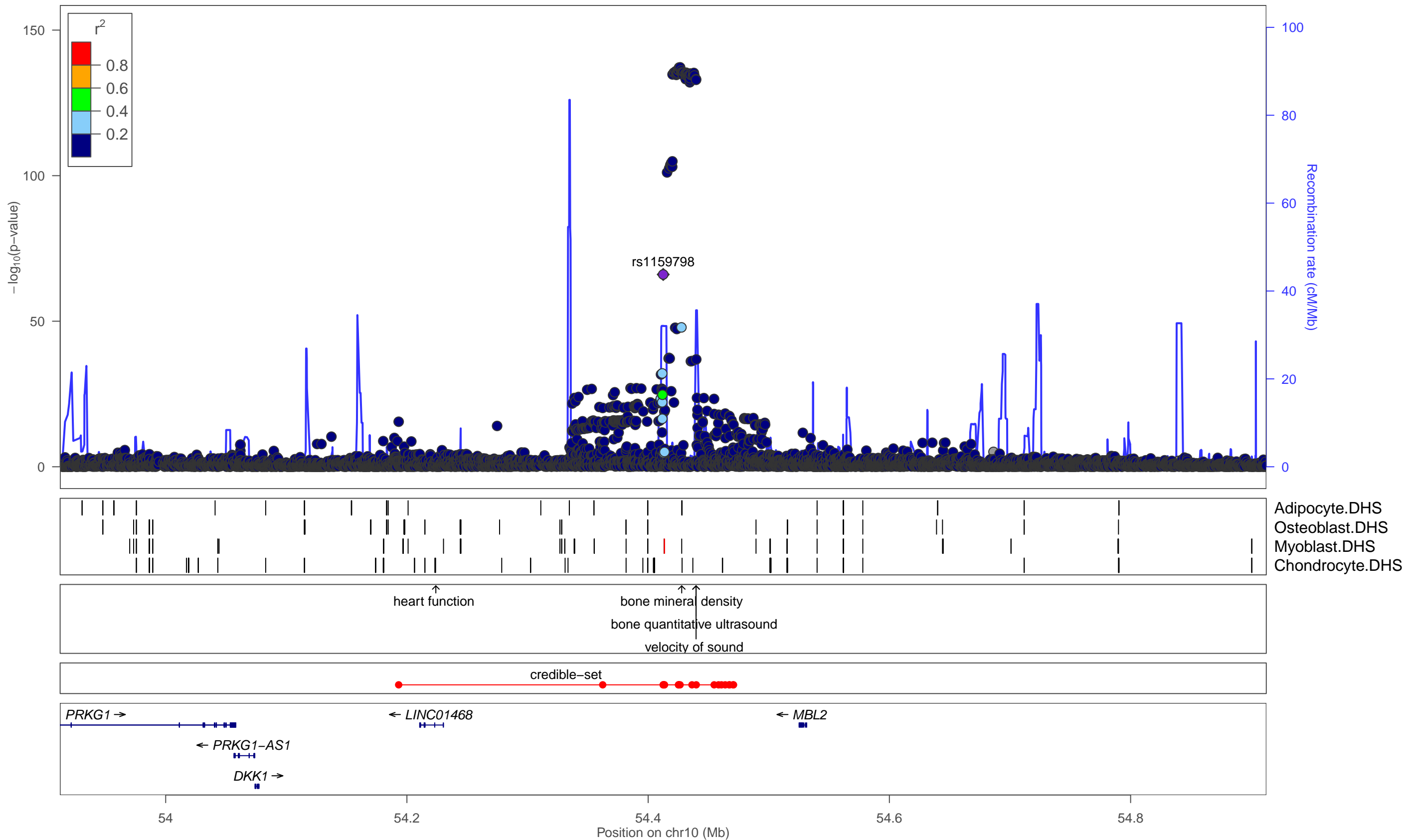
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	54.22398	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs1733724	EFO_0004311	GCST000872
10	54.42782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1373004	EFO_0003923	GCST001482
10	54.43973	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0004514	GCST002335
10	54.43973	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0005654	GCST002333

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72789147	10	54.19317	3.0275	credible-set	red
rs72791023	10	54.36233	3.2342	credible-set	red
rs17662822	10	54.41248	5.4294	credible-set	red
rs1159798	10	54.41249	3.4880	credible-set	red
rs1912619	10	54.41287	2.8973	credible-set	red
rs1912618	10	54.41292	3.0540	credible-set	red
rs74394067	10	54.41340	2.7774	credible-set	red
rs991681	10	54.41355	3.0542	credible-set	red
rs11002987	10	54.42511	2.2478	credible-set	red
rs10824760	10	54.42533	2.5271	credible-set	red
rs7095115	10	54.42544	2.6377	credible-set	red
rs7095538	10	54.42567	3.2877	credible-set	red
rs7099953	10	54.42649	3.4196	credible-set	red
rs145971876	10	54.43633	2.5264	credible-set	red
rs141896865	10	54.43988	2.8298	credible-set	red
rs10824769	10	54.45470	2.8887	credible-set	red
rs2099901	10	54.45838	2.5823	credible-set	red
rs12218358	10	54.46078	2.4687	credible-set	red
rs7088220	10	54.46390	3.2190	credible-set	red
rs1542117	10	54.46718	2.4402	credible-set	red
rs11814440	10	54.46746	2.3668	credible-set	red
rs11296385	10	54.47042	2.4012	credible-set	red
rs35184993	10	54.47078	2.5850	credible-set	red

eBMD SNP INDEX 166



date: Wed Jun 28 21:41:53 2017

build: hg19

display range: chr10:53912493–54912493 [53912493–54912493]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:54412493

number of SNPs plotted: 6586

min P-value: 6E-138 [chr10:54426489]

max P-value: 1E0 [chr10:53975271]

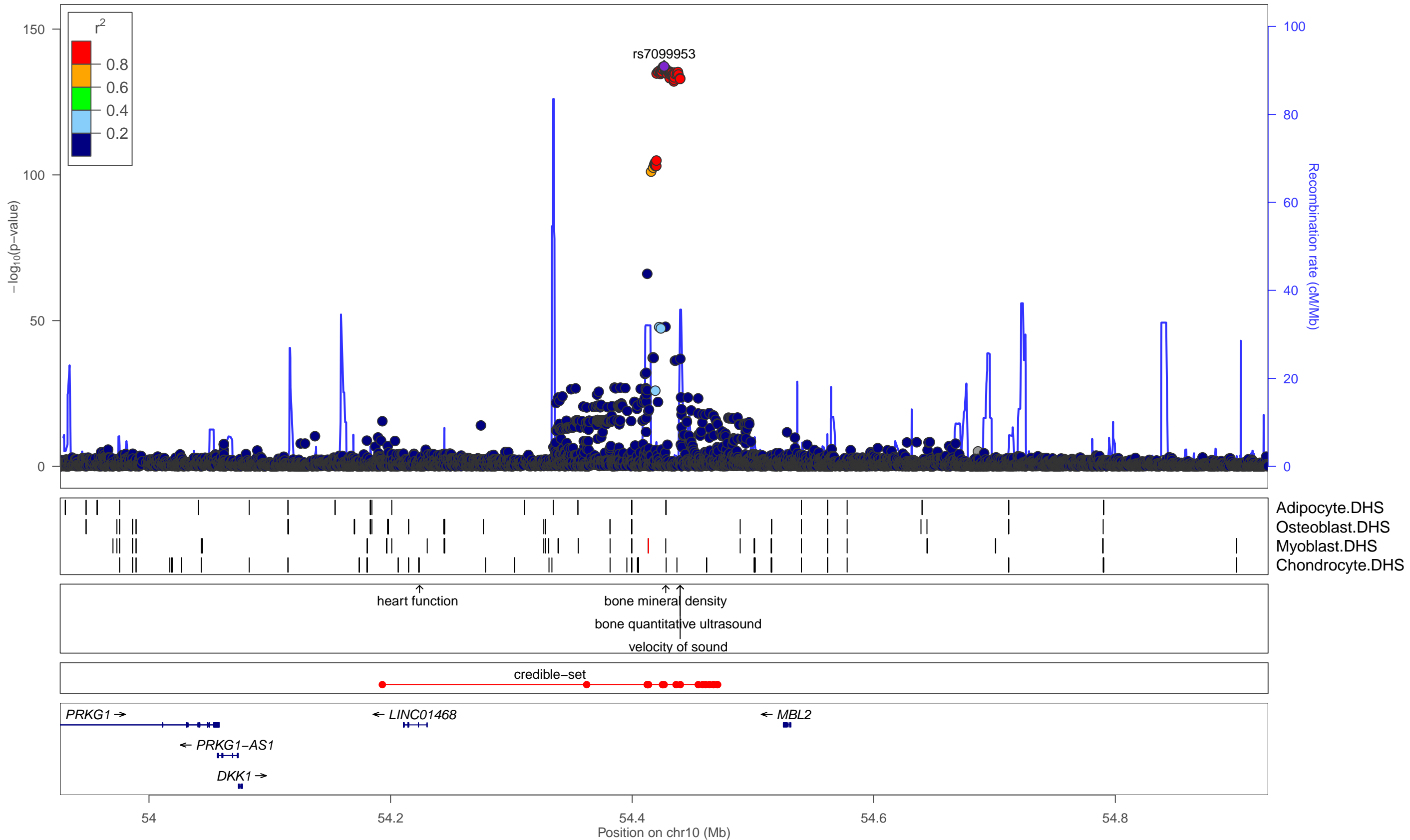
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	54.22398	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs1733724	EFO_0004311	GCST000872
10	54.42782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1373004	EFO_0003923	GCST001482
10	54.43973	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0004514	GCST002335
10	54.43973	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0005654	GCST002333

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72789147	10	54.19317	3.0219	credible-set	red
rs72791023	10	54.36233	3.2378	credible-set	red
rs17662822	10	54.41248	5.4084	credible-set	red
rs1159798	10	54.41249	3.4891	credible-set	red
rs1912619	10	54.41287	2.9131	credible-set	red
rs1912618	10	54.41292	3.0498	credible-set	red
rs74394067	10	54.41340	2.7717	credible-set	red
rs991681	10	54.41355	3.0459	credible-set	red
rs11002987	10	54.42511	2.2415	credible-set	red
rs10824760	10	54.42533	2.5252	credible-set	red
rs7095115	10	54.42544	2.6396	credible-set	red
rs7095538	10	54.42567	3.2887	credible-set	red
rs7099953	10	54.42649	3.4199	credible-set	red
rs145971876	10	54.43633	2.5306	credible-set	red
rs141896865	10	54.43988	2.8320	credible-set	red
rs10824769	10	54.45470	2.8800	credible-set	red
rs2099901	10	54.45838	2.5836	credible-set	red
rs12218358	10	54.46078	2.4654	credible-set	red
rs7088220	10	54.46390	3.2248	credible-set	red
rs1542117	10	54.46718	2.4281	credible-set	red
rs11814440	10	54.46746	2.3686	credible-set	red
rs11296385	10	54.47042	2.4022	credible-set	red
rs35184993	10	54.47078	2.5882	credible-set	red

eBMD SNP INDEX 167



date: Wed Jun 28 21:46:09 2017

build: hg19

display range: chr10:53926489–54926489 [53926489–54926489]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:54426489

number of SNPs plotted: 6622

min P-value: 6E-138 [chr10:54426489]

max P-value: 1E0 [chr10:53975271]

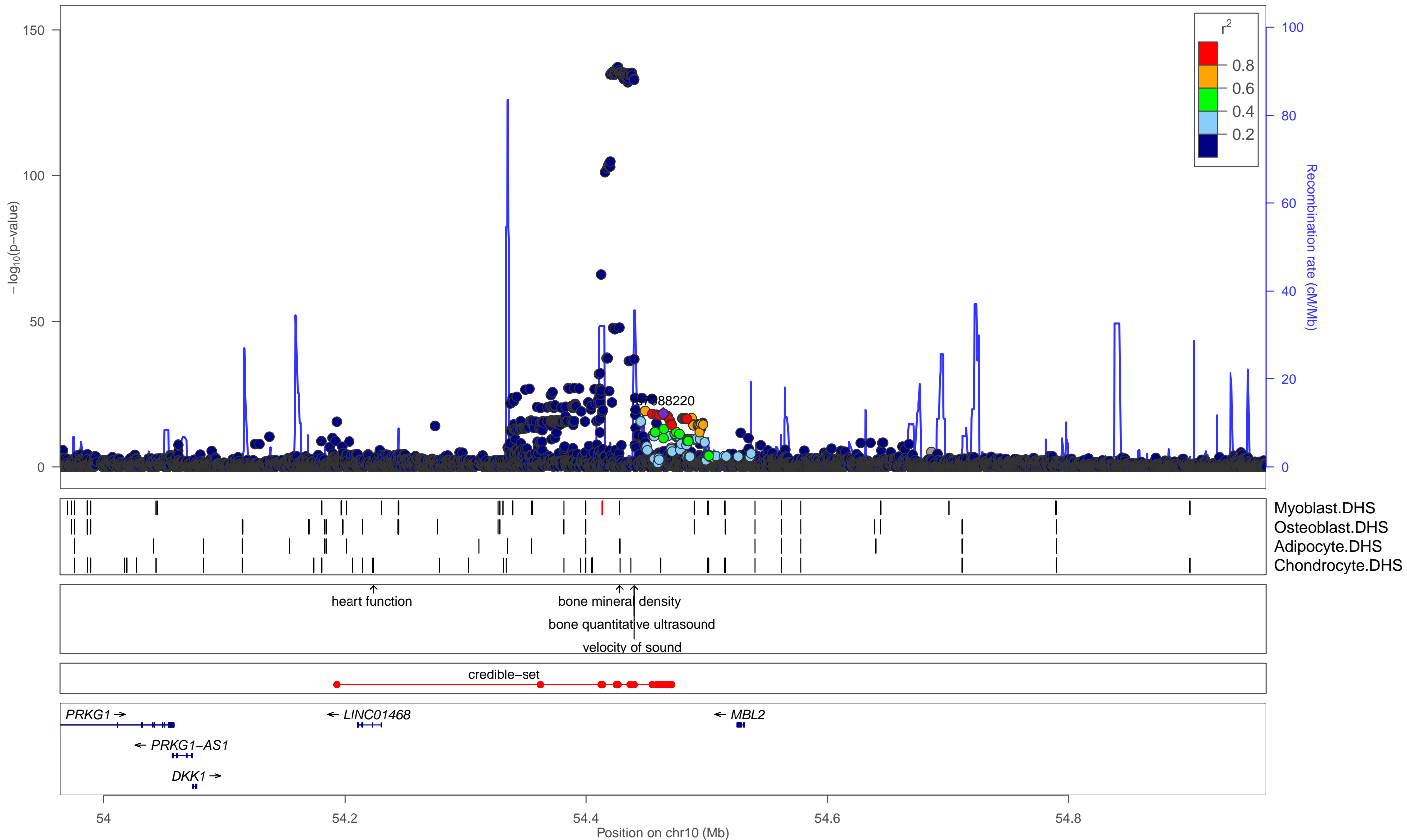
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	54.22398	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs1733724	EFO_0004311	GCST000872
10	54.42782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1373004	EFO_0003923	GCST001482
10	54.43973	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0004514	GCST002335
10	54.43973	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0005654	GCST002333

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72789147	10	54.19317	3.0275	credible-set	red
rs72791023	10	54.36233	3.2431	credible-set	red
rs17662822	10	54.41248	5.4536	credible-set	red
rs1159798	10	54.41249	3.4900	credible-set	red
rs1912619	10	54.41287	2.9057	credible-set	red
rs1912618	10	54.41292	3.0519	credible-set	red
rs74394067	10	54.41340	2.7754	credible-set	red
rs991681	10	54.41355	3.0544	credible-set	red
rs11002987	10	54.42511	2.2473	credible-set	red
rs10824760	10	54.42533	2.5191	credible-set	red
rs7095115	10	54.42544	2.6449	credible-set	red
rs7095538	10	54.42567	3.2913	credible-set	red
rs7099953	10	54.42649	3.4239	credible-set	red
rs145971876	10	54.43633	2.5300	credible-set	red
rs141896865	10	54.43988	2.8338	credible-set	red
rs10824769	10	54.45470	2.8898	credible-set	red
rs2099901	10	54.45838	2.5913	credible-set	red
rs12218358	10	54.46078	2.4575	credible-set	red
rs7088220	10	54.46390	3.2279	credible-set	red
rs1542117	10	54.46718	2.4394	credible-set	red
rs11814440	10	54.46746	2.3743	credible-set	red
rs11296385	10	54.47042	2.3917	credible-set	red
rs35184993	10	54.47078	2.5918	credible-set	red

eBMD SNP INDEX 168



date: Wed Jun 28 21:48:19 2017

build: hg19

display range: chr10:53963900–54963900 [53963900–54963900]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:54463900

number of SNPs plotted: 6670

min P-value: 6E-138 [chr10:54426489]

max P-value: 1E0 [chr10:53975271]

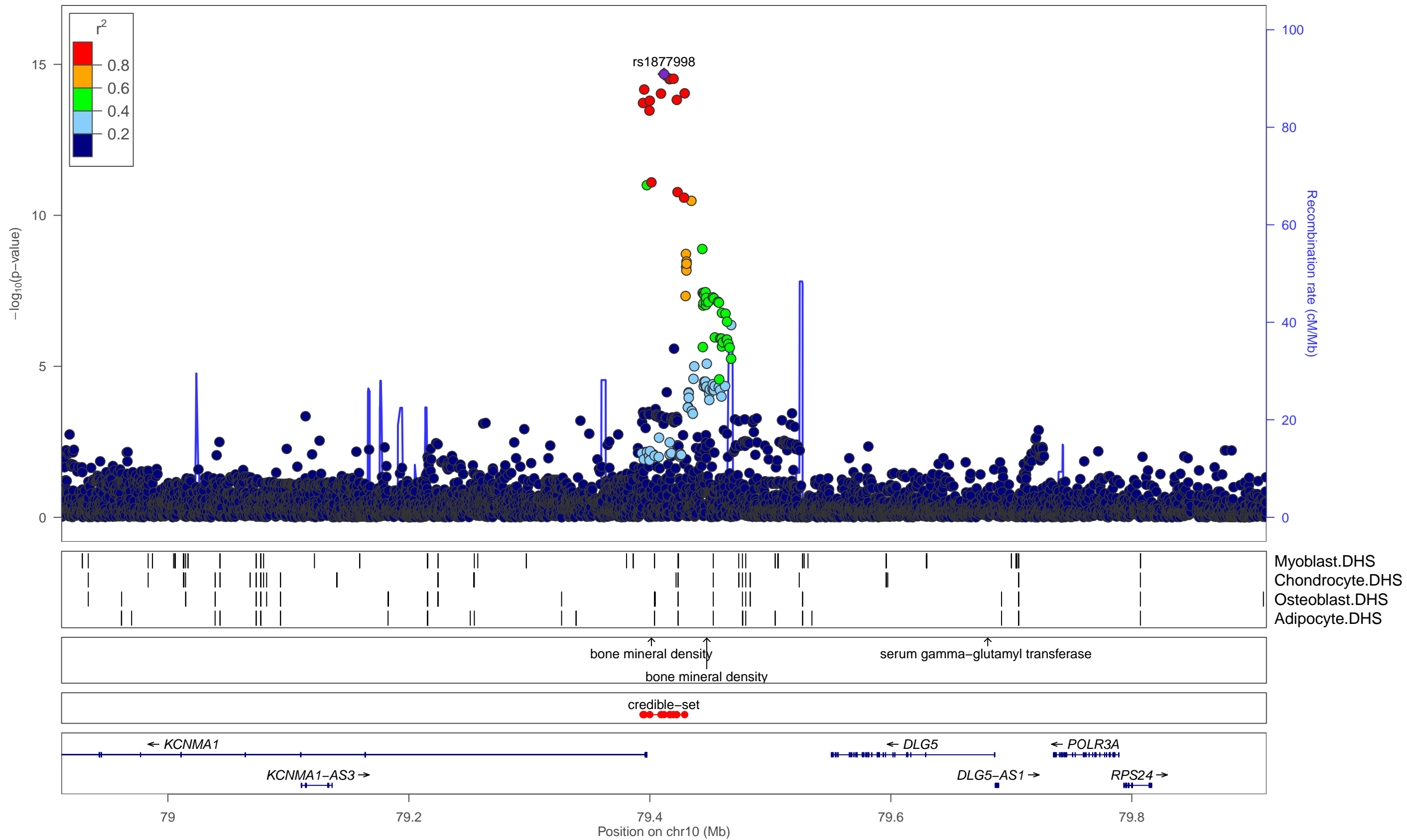
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	54.22398	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs1733724	EFO_0004311	GCST000872
10	54.42782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1373004	EFO_0003923	GCST001482
10	54.43973	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0004514	GCST002335
10	54.43973	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs7902708	EFO_0005654	GCST002333

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72789147	10	54.19317	3.0317	credible-set	red
rs72791023	10	54.36233	3.2443	credible-set	red
rs17662822	10	54.41248	5.4192	credible-set	red
rs1159798	10	54.41249	3.4987	credible-set	red
rs1912619	10	54.41287	2.9057	credible-set	red
rs1912618	10	54.41292	3.0571	credible-set	red
rs74394067	10	54.41340	2.7779	credible-set	red
rs991681	10	54.41355	3.0531	credible-set	red
rs11002987	10	54.42511	2.2341	credible-set	red
rs10824760	10	54.42533	2.5255	credible-set	red
rs7095115	10	54.42544	2.6401	credible-set	red
rs7095538	10	54.42567	3.2949	credible-set	red
rs7099953	10	54.42649	3.4275	credible-set	red
rs145971876	10	54.43633	2.5344	credible-set	red
rs141896865	10	54.43988	2.8341	credible-set	red
rs10824769	10	54.45470	2.8908	credible-set	red
rs2099901	10	54.45838	2.5947	credible-set	red
rs12218358	10	54.46078	2.4726	credible-set	red
rs7088220	10	54.46390	3.2303	credible-set	red
rs1542117	10	54.46718	2.4309	credible-set	red
rs11814440	10	54.46746	2.3731	credible-set	red
rs11296385	10	54.47042	2.3988	credible-set	red
rs35184993	10	54.47078	2.5979	credible-set	red

eBMD SNP INDEX 169



date: Wed Jun 28 21:44:51 2017

build: hg19

display range: chr10:78911740–79911740 [78911740–79911740]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:79411740

number of SNPs plotted: 6112

min P-value: 2.1E-15 [chr10:79411740]

max P-value: 1E0 [chr10:79035676]

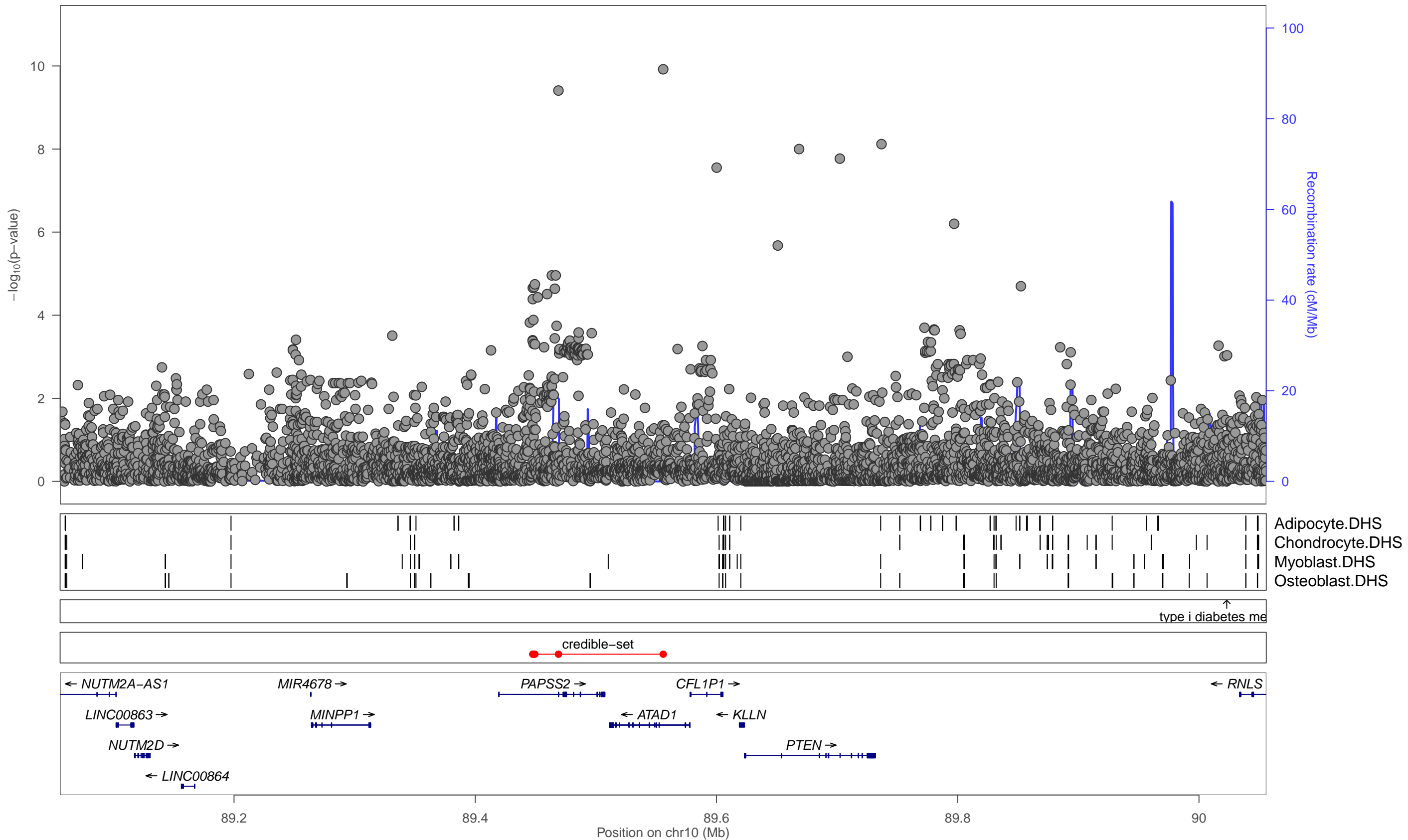
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	79.40132	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7071206	EFO_0003923	GCST001482
10	79.44723	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11002249	EFO_0004339	NA
10	79.68043	serum gamma-glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs754466	EFO_0004532	GCST001277

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs28706743	10	79.39433	2.0061	credible-set	red
rs1356090	10	79.39531	2.4831	credible-set	red
rs4979902	10	79.39995	2.0841	credible-set	red
rs10824559	10	79.40922	2.3409	credible-set	red
rs1877998	10	79.41174	3.0648	credible-set	red
rs4979905	10	79.41637	2.8591	credible-set	red
rs10824560	10	79.41690	2.8758	credible-set	red
rs716255	10	79.41968	2.8758	credible-set	red
rs10509391	10	79.42237	2.1137	credible-set	red
rs57420220	10	79.42889	2.3506	credible-set	red

eBMD SNP INDEX 170



date: Wed Jun 28 21:44:48 2017

build: hg19

display range: chr10:89055815–90055815 [89055815–90055815]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:89555815

number of SNPs plotted: 5560

min P-value: 1.2E-10 [chr10:89555811]

max P-value: 1E0 [chr10:89059371]

Warning: No usable LD information for reference SNP.

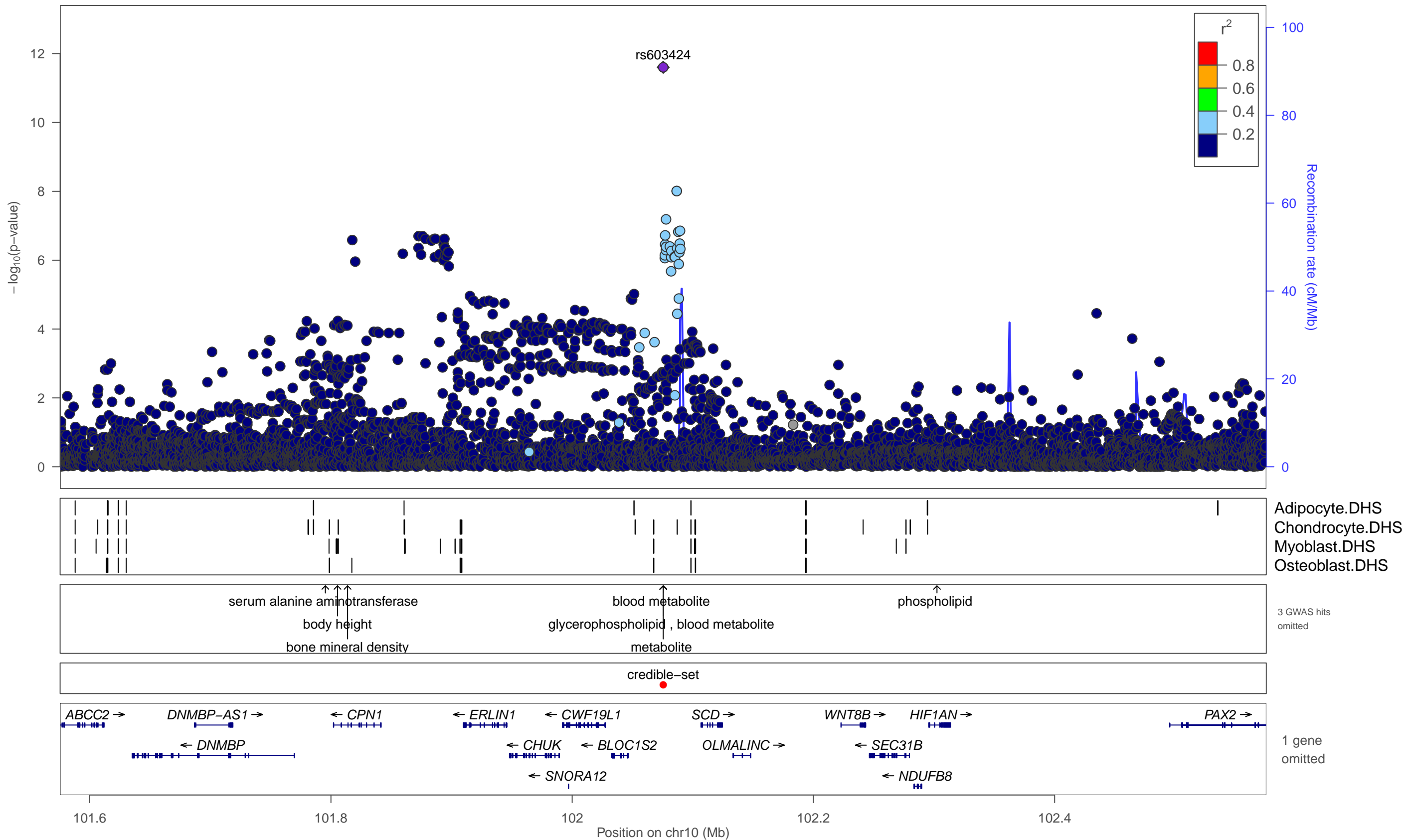
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	90.02303	type i diabetes mellitus	Barrett JC	10/05/2009	Nat Genet	19430480	rs10509540	EFO_0001359	GCST000392

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6586094	10	89.44769	2.5326	credible-set	red
rs6586095	10	89.44772	2.8856	credible-set	red
rs541821509	10	89.44820	2.0673	credible-set	red
rs112850608	10	89.44873	2.9208	credible-set	red
rs11202510	10	89.44940	2.9974	credible-set	red
rs17173698	10	89.46895	3.0098	credible-set	red
rs147048550	10	89.55581	4.0492	credible-set	red

eBMD SNP INDEX 171



date: Wed Jun 28 21:43:11 2017

build: hg19

display range: chr10:101575479–102575479 [101575479–102575479]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:102075479

number of SNPs plotted: 5556

min P-value: 2.5E-12 [chr10:102075479]

max P-value: 1E0 [chr10:101611277]

omitted Genes: PKD2L1

omitted GWAS Hits: chr10:102.075479–blood metabolite , NA

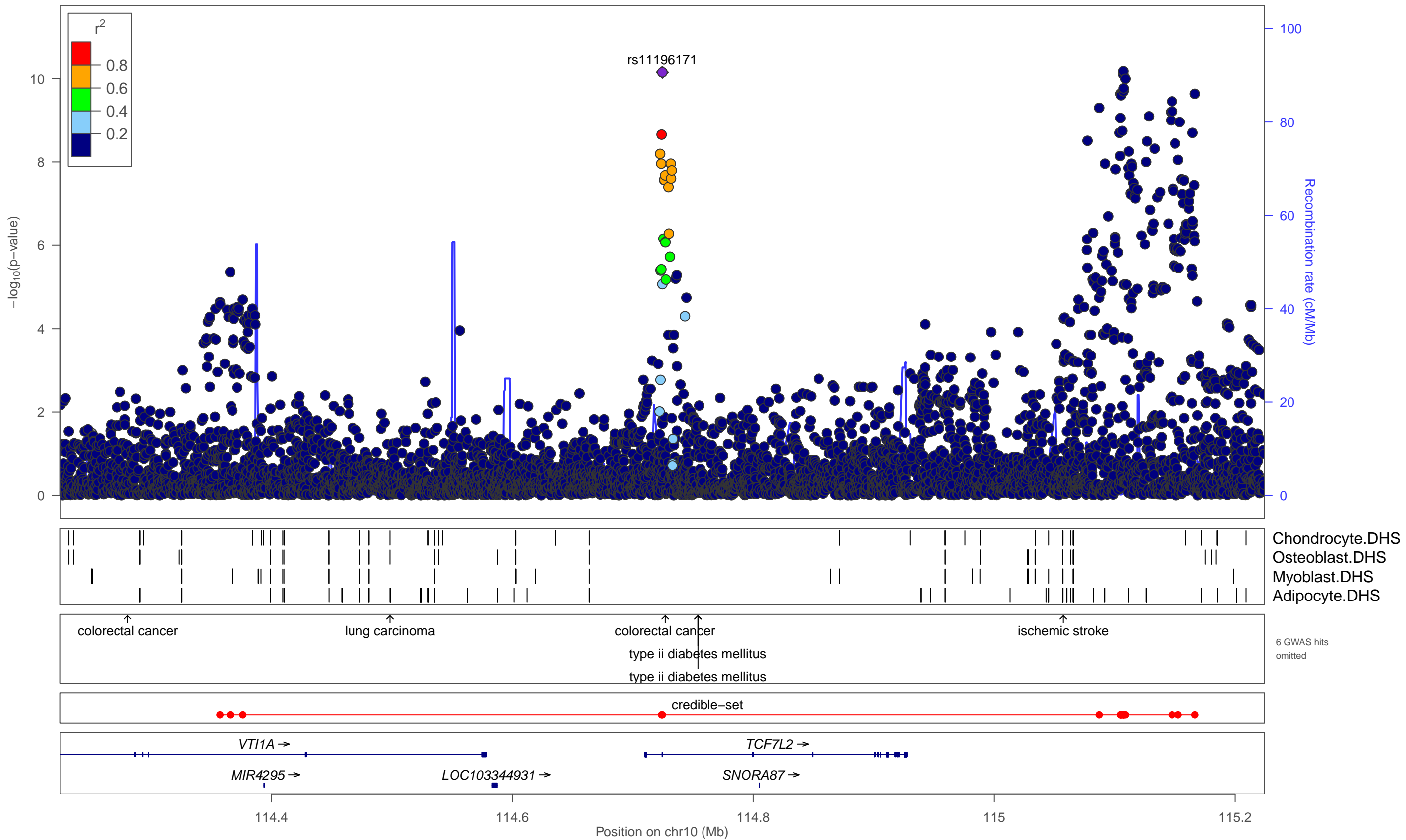
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	101.7954	serum alanine aminotransferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs10883437	EFO_0004735	GCST001275
10	101.8054	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11599750	EFO_0004339	GCST000817
10	101.8138	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7084921	EFO_0003923	GCST001482
10	101.8614	liver enzyme , serum alanine aminotransferase	Yuan X	10/10/2008	Am J Hum Genet	18940312	rs11597390	EFO_0004582, EFO_0004735	GCST000248
10	102.0755	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs603424	EFO_0005664	GCST002442
10	102.0755	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs603424	EFO_0005664	GCST002443
10	102.0755	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs603424	EFO_0007630, EFO_0005664	GCST002965
10	102.0755	metabolite	Suhre K	31/08/2011	Nature	21886157	rs603424	EFO_0004725	GCST001217
10	102.0755	phospholipid	Demirkan A	16/02/2012	PLoS Genet	22359512	rs603424	EFO_0004639	GCST001414
10	102.0755	phospholipid	Wu JH	29/01/2013	Circ Cardiovasc Genet	23362303	rs603424	EFO_0004639	GCST001841
10	102.0755	serum metabolite	Yu B	13/03/2014	PLoS Genet	24625756	rs603424	EFO_0005653	GCST002388
10	102.3025	phospholipid	Wu JH	29/01/2013	Circ Cardiovasc Genet	23362303	rs11190604	EFO_0004639	GCST001841

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs603424	10	102.0755	6.5638	credible-set	red

eBMD SNP INDEX 172



date: Wed Jun 28 21:43:13 2017

build: hg19

display range: chr10:114224473–115224473 [114224473–115224473]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:114724473

number of SNPs plotted: 5409

min P-value: 6.6E-11 [chr10:115107258]

max P-value: 1E0 [chr10:114226526]

omitted GWAS Hits: chr10:115.057443–ischemic stroke, NA

omitted GWAS Hits: NA, NA

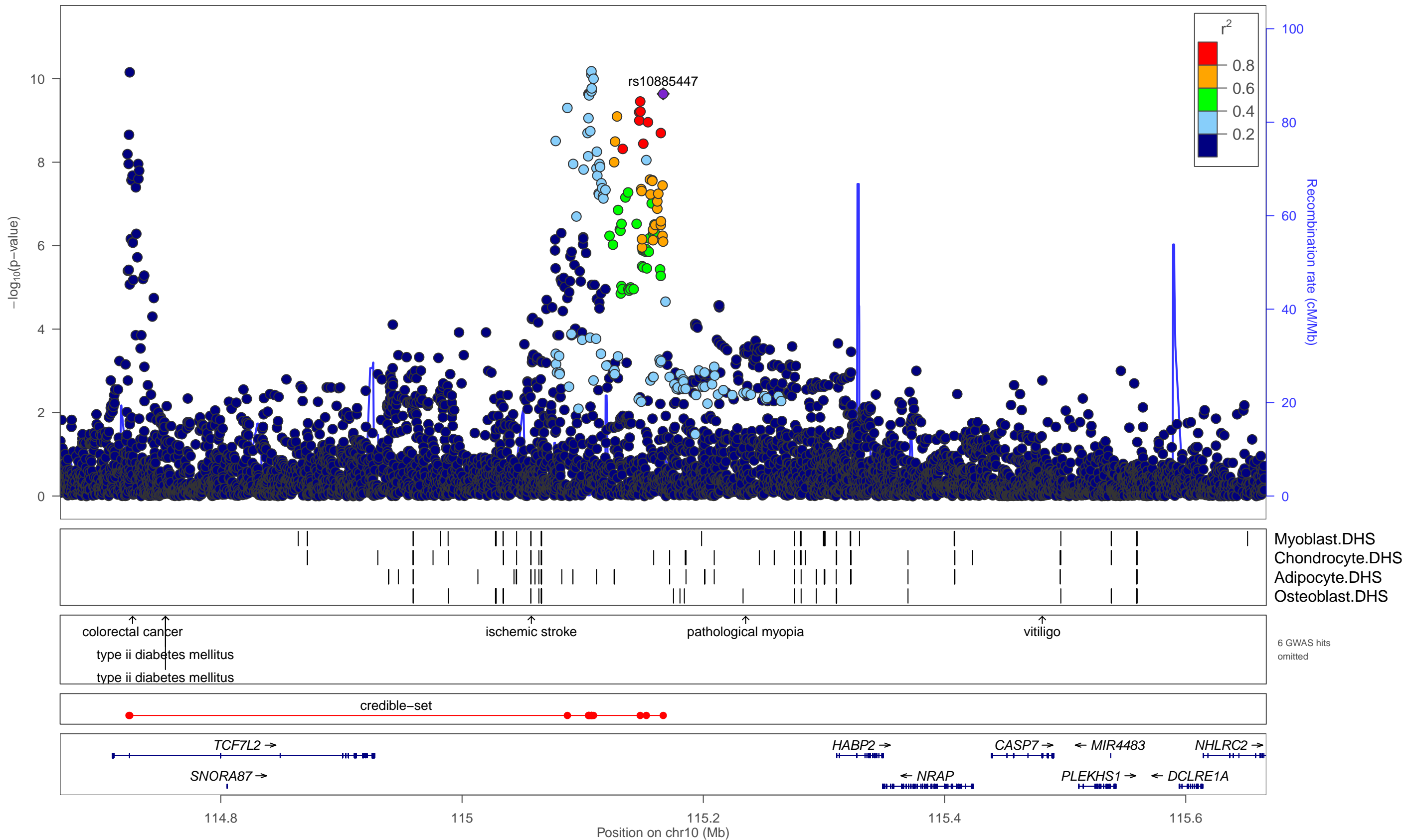
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	114.2807	colorectal cancer	Wang H	8/08/2014	Nat Commun	25105248	rs12241008	EFO_0005842	GCST002561
10	114.4985	lung carcinoma	Lan Q	11/11/2012	Nat Genet	23143601	rs7086803	EFO_0001071	GCST001740
10	114.7268	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs11196172	EFO_0005842	GCST002454
10	114.7541	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs34872471	EFO_0001360	GCST003400
10	114.7541	type ii diabetes mellitus	Zeggini E	26/04/2007	Science	17463249	rs7901695	EFO_0001360	GCST000025
10	114.7560	fasting blood glucose	Dupuis J	17/01/2010	Nat Genet	20081858	rs4506565	EFO_0004465	GCST000568
10	114.7560	type ii diabetes mellitus	WTCCC	7/06/2007	Nature	17554300	rs4506565	EFO_0001360	GCST000047
10	114.7583	insulin	Strawbridge RJ	26/08/2011	Diabetes	21873549	rs7903146	EFO_0004467	GCST001212
10	114.7583	type ii diabetes mellitus, autoantibody	Rung J	6/09/2009	Nat Genet	19734900	rs7903146	EFO_0001360, EFO_0004866	GCST000478
10	114.7583	type ii diabetes mellitus	Hara K	14/08/2013	Hum Mol Genet	23945395	rs7903146	EFO_0001360	GCST002128
10	114.7583	type ii diabetes mellitus	Kho AN	19/11/2011	J Am Med Inform Assoc	22101970	rs7903146	EFO_0001360	GCST001326
10	114.7583	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs7903146	EFO_0001360	GCST002352
10	114.7583	type ii diabetes mellitus	Ng MC	7/08/2014	PLoS Genet	25102180	rs7903146	EFO_0001360	GCST002560
10	114.7583	type ii diabetes mellitus	Perry JR	31/05/2012	PLoS Genet	22693455	rs7903146	EFO_0001360	GCST001550
10	114.7583	type ii diabetes mellitus	Scott LJ	26/04/2007	Science	17463248	rs7903146	EFO_0001360	GCST000024
10	114.7583	type ii diabetes mellitus	Sladek R	11/02/2007	Nature	17293876	rs7903146	EFO_0001360	GCST000012
10	114.7583	type ii diabetes mellitus	Steinthorsdottir V	26/04/2007	Nat Genet	17460697	rs7903146	EFO_0001360	GCST000027
10	114.7583	type ii diabetes mellitus	Tabassum R	3/12/2012	Diabetes	23209189	rs7903146	EFO_0001360	GCST001759
10	114.7583	type ii diabetes mellitus	Takeuchi F	29/04/2009	Diabetes	19401414	rs7903146	EFO_0001360	GCST000383
10	114.7583	type ii diabetes mellitus	Timpson NJ	3/12/2008	Diabetes	19056611	rs7903146	EFO_0001360	GCST000277
10	114.7583	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs7903146	EFO_0001360	GCST000712
10	114.7583	type ii diabetes mellitus	Williams AL	25/12/2013	Nature	24390345	rs7903146	EFO_0001360	GCST002317
10	114.7583	type ii diabetes mellitus	Zeggini E	30/03/2008	Nat Genet	18372903	rs7903146	EFO_0001360	GCST000167
10	114.7739	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs7904519	EFO_0000305	GCST001937
10	115.0574	ischemic stroke	Cheng YC	5/01/2016	Stroke	26732560	rs11196288	HP_0002140	GCST003324

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10736222	10	114.3572	2.0135	credible-set	red
rs557429454	10	114.3658	3.0011	credible-set	red
rs4918760	10	114.3763	2.1787	credible-set	red
rs2296782	10	114.7239	2.0357	credible-set	red
rs11196171	10	114.7245	4.6562	credible-set	red
rs144907317	10	115.0873	2.2509	credible-set	red
rs7079935	10	115.1048	2.2639	credible-set	red
rs7080221	10	115.1050	2.2780	credible-set	red
rs2221422	10	115.1052	2.2506	credible-set	red
rs111430350	10	115.1053	2.2370	credible-set	red
rs4336963	10	115.1072	2.7088	credible-set	red
rs7090377	10	115.1073	2.8101	credible-set	red
rs7090401	10	115.1073	2.2822	credible-set	red
rs7093880	10	115.1075	2.3421	credible-set	red
rs10885434	10	115.1090	2.5741	credible-set	red
rs502324	10	115.1477	2.1569	credible-set	red
rs35621703	10	115.1528	2.3596	credible-set	red
rs10885447	10	115.1668	2.4289	credible-set	red

eBMD SNP INDEX 173



date: Wed Jun 28 21:43:32 2017

build: hg19

display range: chr10:114666770–115666770 [114666770–115666770]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:115166770

number of SNPs plotted: 5638

min P-value: 6.6E-11 [chr10:115107258]

max P-value: 1E0 [chr10:114688582]

omitted GWAS Hits: chr10:115.057443–ischemic stroke, chr10:115.235114–pathological myopia

omitted GWAS Hits: NA, NA

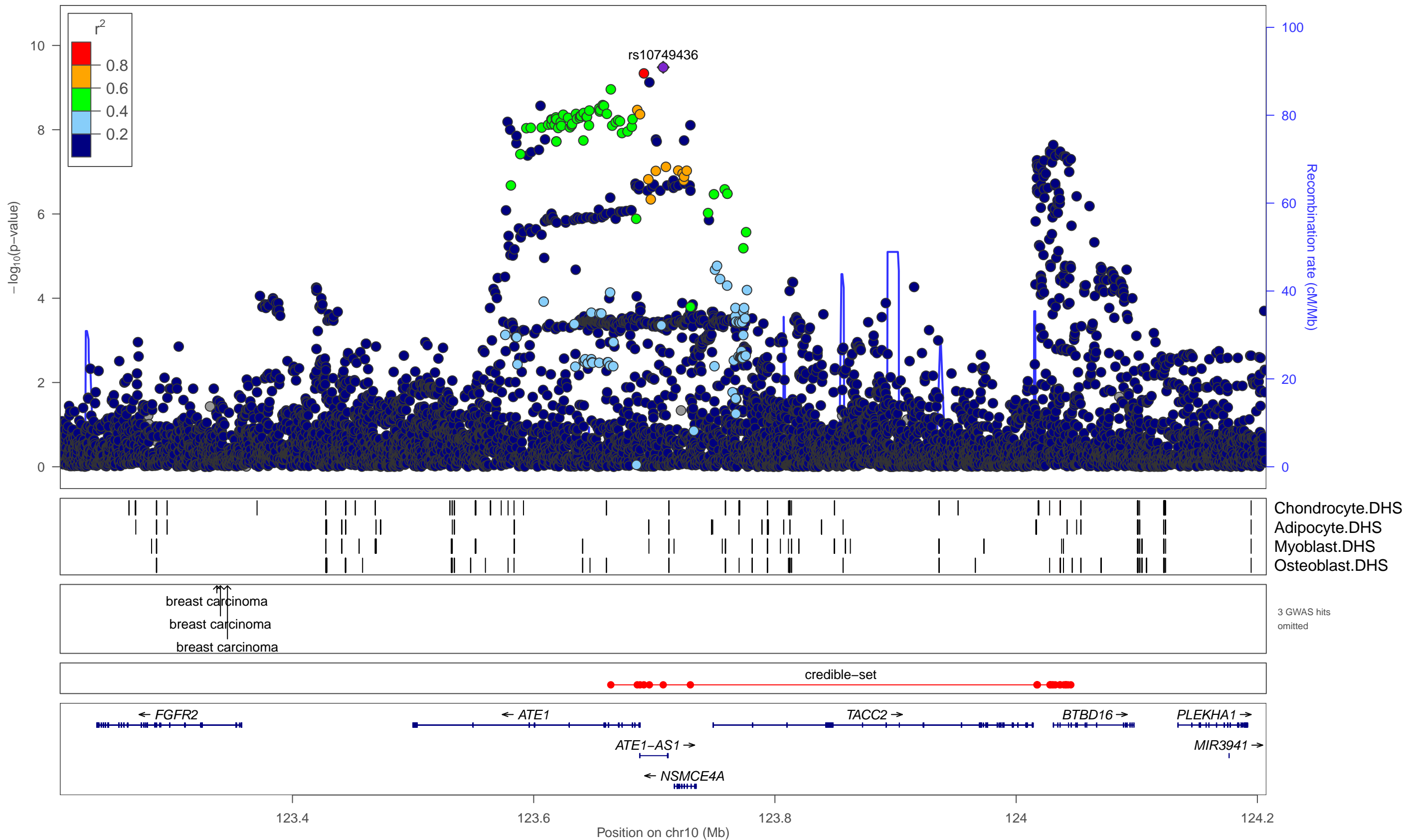
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	114.7268	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs11196172	EFO_0005842	GCST002454
10	114.7541	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs34872471	EFO_0001360	GCST003400
10	114.7541	type ii diabetes mellitus	Zeggini E	26/04/2007	Science	17463249	rs7901695	EFO_0001360	GCST000025
10	114.7560	fasting blood glucose	Dupuis J	17/01/2010	Nat Genet	20081858	rs4506565	EFO_0004465	GCST000568
10	114.7560	type ii diabetes mellitus	WTCCC	7/06/2007	Nature	17554300	rs4506565	EFO_0001360	GCST000047
10	114.7583	insulin	Strawbridge RJ	26/08/2011	Diabetes	21873549	rs7903146	EFO_0004467	GCST001212
10	114.7583	type ii diabetes mellitus, autoantibody	Rung J	6/09/2009	Nat Genet	19734900	rs7903146	EFO_0001360, EFO_0004866	GCST000478
10	114.7583	type ii diabetes mellitus	Hara K	14/08/2013	Hum Mol Genet	23945395	rs7903146	EFO_0001360	GCST002128
10	114.7583	type ii diabetes mellitus	Kho AN	19/11/2011	J Am Med Inform Assoc	22101970	rs7903146	EFO_0001360	GCST001326
10	114.7583	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs7903146	EFO_0001360	GCST002352
10	114.7583	type ii diabetes mellitus	Ng MC	7/08/2014	PLoS Genet	25102180	rs7903146	EFO_0001360	GCST002560
10	114.7583	type ii diabetes mellitus	Perry JR	31/05/2012	PLoS Genet	22693455	rs7903146	EFO_0001360	GCST001550
10	114.7583	type ii diabetes mellitus	Scott LJ	26/04/2007	Science	17463248	rs7903146	EFO_0001360	GCST000024
10	114.7583	type ii diabetes mellitus	Sladek R	11/02/2007	Nature	17293876	rs7903146	EFO_0001360	GCST000012
10	114.7583	type ii diabetes mellitus	Steinthorsdottir V	26/04/2007	Nat Genet	17460697	rs7903146	EFO_0001360	GCST000027
10	114.7583	type ii diabetes mellitus	Tabassum R	3/12/2012	Diabetes	23209189	rs7903146	EFO_0001360	GCST001759
10	114.7583	type ii diabetes mellitus	Takeuchi F	29/04/2009	Diabetes	19401414	rs7903146	EFO_0001360	GCST000383
10	114.7583	type ii diabetes mellitus	Timpson NJ	3/12/2008	Diabetes	19056611	rs7903146	EFO_0001360	GCST000277
10	114.7583	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs7903146	EFO_0001360	GCST000712
10	114.7583	type ii diabetes mellitus	Williams AL	25/12/2013	Nature	24390345	rs7903146	EFO_0001360	GCST002317
10	114.7583	type ii diabetes mellitus	Zeggini E	30/03/2008	Nat Genet	18372903	rs7903146	EFO_0001360	GCST000167
10	114.7739	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs7904519	EFO_0000305	GCST001937
10	115.0574	ischemic stroke	Cheng YC	5/01/2016	Stroke	26732560	rs11196288	HP_0002140	GCST003324
10	115.2351	pathological myopia	Meng W	9/10/2012	Invest Ophthalmol Vis Sci	23049088	rs1472750	EFO_0004207	GCST001712
10	115.4810	vitiligo	Jin Y	6/05/2012	Nat Genet	22561518	rs3814231	EFO_0004208	GCST001509

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2296782	10	114.7239	2.0391	credible-set	red
rs11196171	10	114.7245	4.6744	credible-set	red
rs144907317	10	115.0873	2.2608	credible-set	red
rs7079935	10	115.1048	2.2825	credible-set	red
rs7080221	10	115.1050	2.2884	credible-set	red
rs2221422	10	115.1052	2.2751	credible-set	red
rs111430350	10	115.1053	2.2575	credible-set	red
rs4336963	10	115.1072	2.7280	credible-set	red
rs7090377	10	115.1073	2.8247	credible-set	red
rs7090401	10	115.1073	2.2976	credible-set	red
rs7093880	10	115.1075	2.3608	credible-set	red
rs10885434	10	115.1090	2.5950	credible-set	red
rs502324	10	115.1477	2.1721	credible-set	red
rs35621703	10	115.1528	2.4198	credible-set	red
rs10885447	10	115.1668	2.4058	credible-set	red

eBMD SNP INDEX 174



date: Wed Jun 28 21:43:26 2017

build: hg19

display range: chr10:123207383–124207383 [123207383–124207383]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:123707383

number of SNPs plotted: 7169

min P-value: 3.3E-10 [chr10:123707383]

max P-value: 1E0 [chr10:123317731]

omitted GWAS Hits: NA, NA

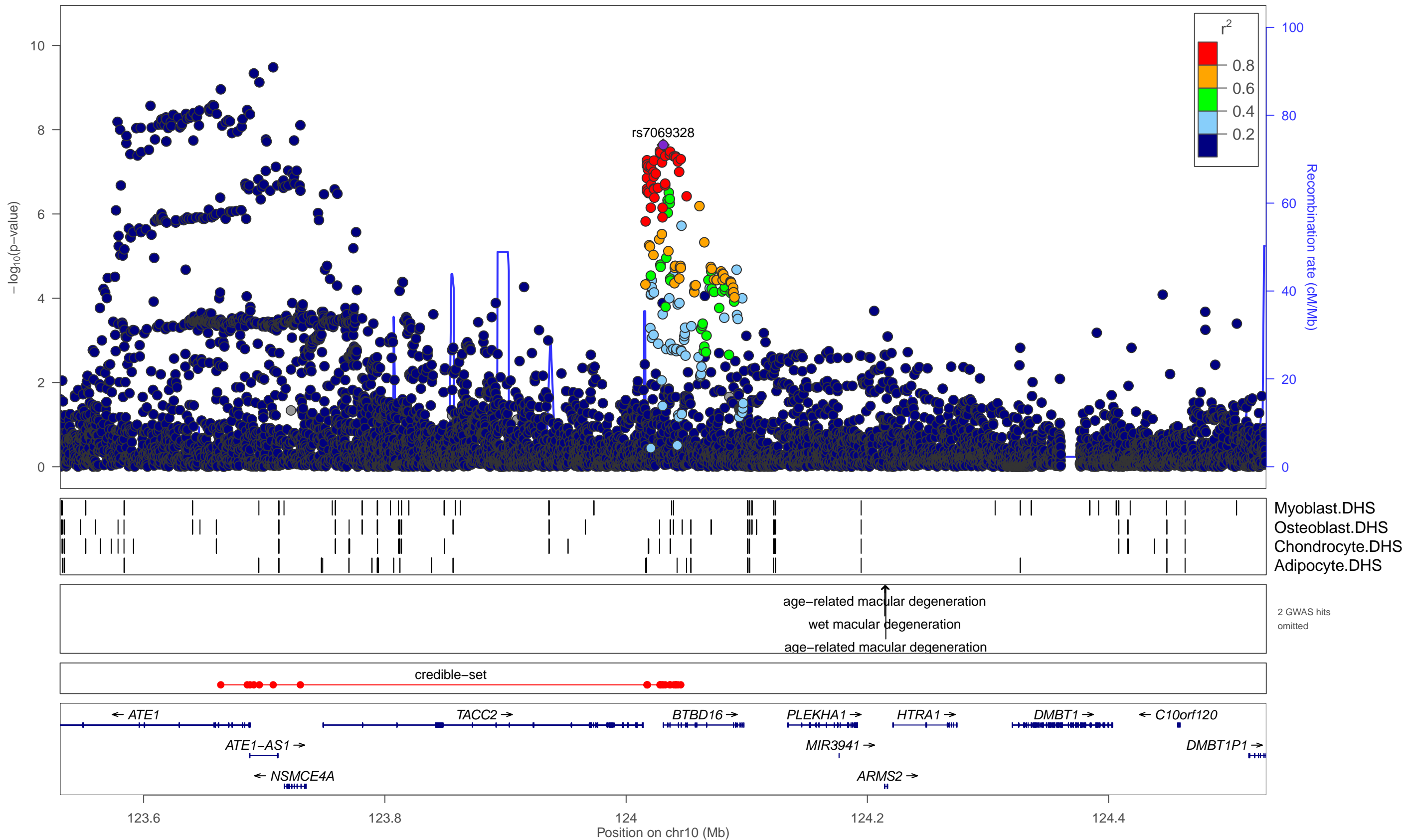
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	123.3373	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs2981579	EFO_0000305	GCST001937
10	123.3373	breast carcinoma	Thomas G	29/03/2009	Nat Genet	19330030	rs2981579	EFO_0000305	GCST000365
10	123.3373	breast carcinoma	Turnbull C	9/05/2010	Nat Genet	20453838	rs2981579	EFO_0000305	GCST000678
10	123.3403	breast carcinoma	Low SK	15/10/2013	PLoS One	24143190	rs2981578	EFO_0000305	GCST002234
10	123.3461	breast carcinoma	Gaudet MM	28/10/2010	PLoS Genet	21060860	rs2981575	EFO_0000305	GCST000846
10	123.3462	breast carcinoma	Fletcher O	24/01/2011	J Natl Cancer Inst	21263130	rs1219648	EFO_0000305	GCST000952
10	123.3462	breast carcinoma	Hunter DJ	27/05/2007	Nat Genet	17529973	rs1219648	EFO_0000305	GCST000036
10	123.3462	breast carcinoma	Li J	26/09/2010	Breast Cancer Res Treat	20872241	rs1219648	EFO_0000305	GCST000811
10	123.3487	breast carcinoma	Ahsan H	3/02/2014	Cancer Epidemiol Biomarkers Prev	24493630	rs2912774	EFO_0000305	GCST002346
10	123.3523	breast carcinoma	Easton DF	27/05/2007	Nature	17529967	rs2981582	EFO_0000305	GCST000035

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7899628	10	123.6639	2.2325	credible-set	red
rs11200264	10	123.6859	2.6252	credible-set	red
rs10887024	10	123.6882	2.5068	credible-set	red
rs10887025	10	123.6914	3.0499	credible-set	red
rs34947271	10	123.6959	2.4990	credible-set	red
rs10749436	10	123.7074	3.2424	credible-set	red
rs4752627	10	123.7299	2.0306	credible-set	red
rs9630109	10	124.0173	2.0154	credible-set	red
rs9630110	10	124.0173	2.1453	credible-set	red
rs9630083	10	124.0174	2.0291	credible-set	red
rs911786	10	124.0176	2.0436	credible-set	red
rs10749451	10	124.0280	2.4107	credible-set	red
rs10749452	10	124.0281	2.3646	credible-set	red
rs5017041	10	124.0284	2.3517	credible-set	red
rs4751887	10	124.0298	2.0748	credible-set	red
rs7069328	10	124.0307	2.5447	credible-set	red
rs1034533	10	124.0324	2.2872	credible-set	red
rs7086403	10	124.0362	2.3417	credible-set	red
rs7090214	10	124.0365	2.4280	credible-set	red
rs4752678	10	124.0397	2.2725	credible-set	red
rs7092500	10	124.0411	2.2873	credible-set	red
rs7076349	10	124.0412	2.3087	credible-set	red
rs6585810	10	124.0414	2.2708	credible-set	red
rs7076102	10	124.0430	2.1226	credible-set	red
rs911775	10	124.0453	2.2288	credible-set	red

eBMD SNP INDEX 175



date: Wed Jun 28 21:43:27 2017

build: hg19

display range: chr10:123530741–124530741 [123530741–124530741]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:124030741

number of SNPs plotted: 7231

min P-value: 3.3E-10 [chr10:123707383]

max P-value: 1E0 [chr10:123653512]

omitted GWAS Hits: NA, NA

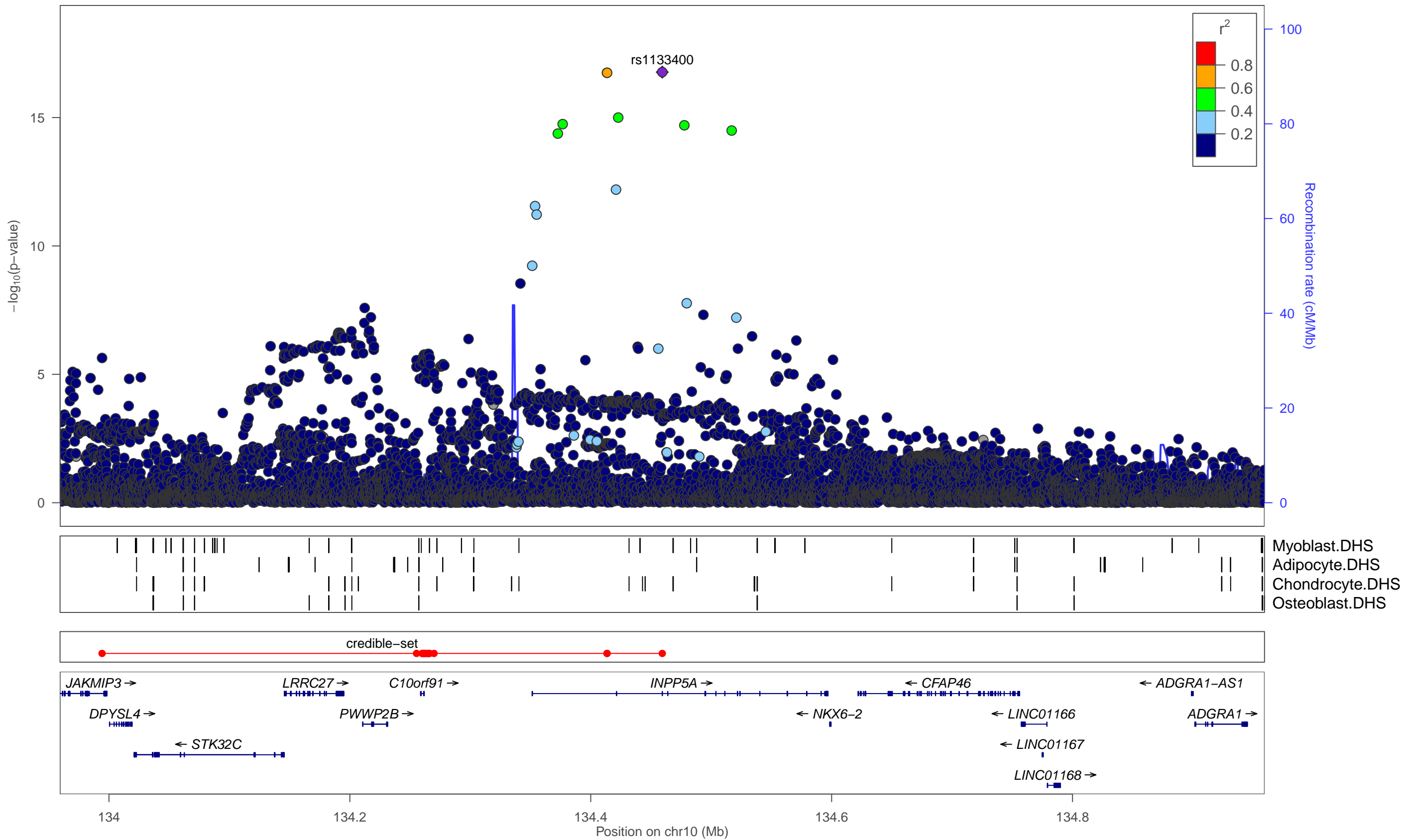
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
10	124.2144	age-related macular degeneration	Cipriani V	13/06/2012	Hum Mol Genet	22694956	rs10490924	EFO_0001365	GCST001571
10	124.2144	age-related macular degeneration	Fritsche LG	3/03/2013	Nat Genet	23455636	rs10490924	EFO_0001365	GCST001884
10	124.2144	age-related macular degeneration	Kopplin LJ	23/09/2010	Genes Immun	20861866	rs10490924	EFO_0001365	GCST000806
10	124.2144	age-related macular degeneration	Naj AC	1/05/2013	Ann Hum Genet	23577725	rs10490924	EFO_0001365	GCST001986
10	124.2144	age-related macular degeneration	Neale BM	12/04/2010	Proc Natl Acad Sci U S A	20385826	rs10490924	EFO_0001365	GCST000653
10	124.2144	age-related macular degeneration	Sobrin L	15/06/2012	Ophthalmology	22705344	rs10490924	EFO_0001365	GCST001577
10	124.2144	age-related macular degeneration	Sobrin L	15/06/2012	Ophthalmology	22705344	rs10490924	EFO_0001365	GCST001578
10	124.2144	age-related macular degeneration	Sobrin L	15/06/2012	Ophthalmology	22705344	rs10490924	EFO_0001365	GCST001579
10	124.2144	age-related macular degeneration	Yu Y	10/06/2011	Hum Mol Genet	21665990	rs10490924	EFO_0001365	GCST001100
10	124.2144	wet macular degeneration	Cheng CY	28/01/2015	Nat Commun	25629512	rs10490924	EFO_0004683	GCST002766
10	124.2153	age-related macular degeneration	Naj AC	1/05/2013	Ann Hum Genet	23577725	rs3750848	EFO_0001365	GCST001987
10	124.2193	age-related macular degeneration	Chen W	12/04/2010	Proc Natl Acad Sci U S A	20385819	rs3793917	EFO_0001365	GCST000652
10	124.2193	age-related macular degeneration	Holliday EG	11/01/2013	PLoS One	23326517	rs3793917	EFO_0001365	GCST001814
10	124.2205	age-related macular degeneration	Dewan A	19/10/2006	Science	17053108	rs11200638	EFO_0001365	GCST000006

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7899628	10	123.6639	2.2597	credible-set	red
rs11200264	10	123.6859	2.6311	credible-set	red
rs10887024	10	123.6882	2.5119	credible-set	red
rs10887025	10	123.6914	3.0543	credible-set	red
rs34947271	10	123.6959	2.4794	credible-set	red
rs10749436	10	123.7074	3.2460	credible-set	red
rs4752627	10	123.7299	2.0324	credible-set	red
rs9630109	10	124.0173	2.0183	credible-set	red
rs9630110	10	124.0173	2.1557	credible-set	red
rs9630083	10	124.0174	2.0551	credible-set	red
rs911785	10	124.0175	2.0065	credible-set	red
rs911786	10	124.0176	2.0620	credible-set	red
rs10749451	10	124.0280	2.4174	credible-set	red
rs10749452	10	124.0281	2.3704	credible-set	red
rs5017041	10	124.0284	2.3544	credible-set	red
rs4751887	10	124.0298	2.0710	credible-set	red
rs7069328	10	124.0307	2.5444	credible-set	red
rs1034533	10	124.0324	2.2845	credible-set	red
rs7086403	10	124.0362	2.3456	credible-set	red
rs7090214	10	124.0365	2.4208	credible-set	red
rs4752678	10	124.0397	2.2926	credible-set	red
rs7092500	10	124.0411	2.2895	credible-set	red
rs7076349	10	124.0412	2.2992	credible-set	red
rs6585810	10	124.0414	2.2716	credible-set	red
rs7076102	10	124.0430	2.1487	credible-set	red
rs911775	10	124.0453	2.2288	credible-set	red

eBMD SNP INDEX 176



date: Wed Jun 28 21:43:59 2017

build: hg19

display range: chr10:133959388–134959388 [133959388–134959388]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr10:134459388

number of SNPs plotted: 9082

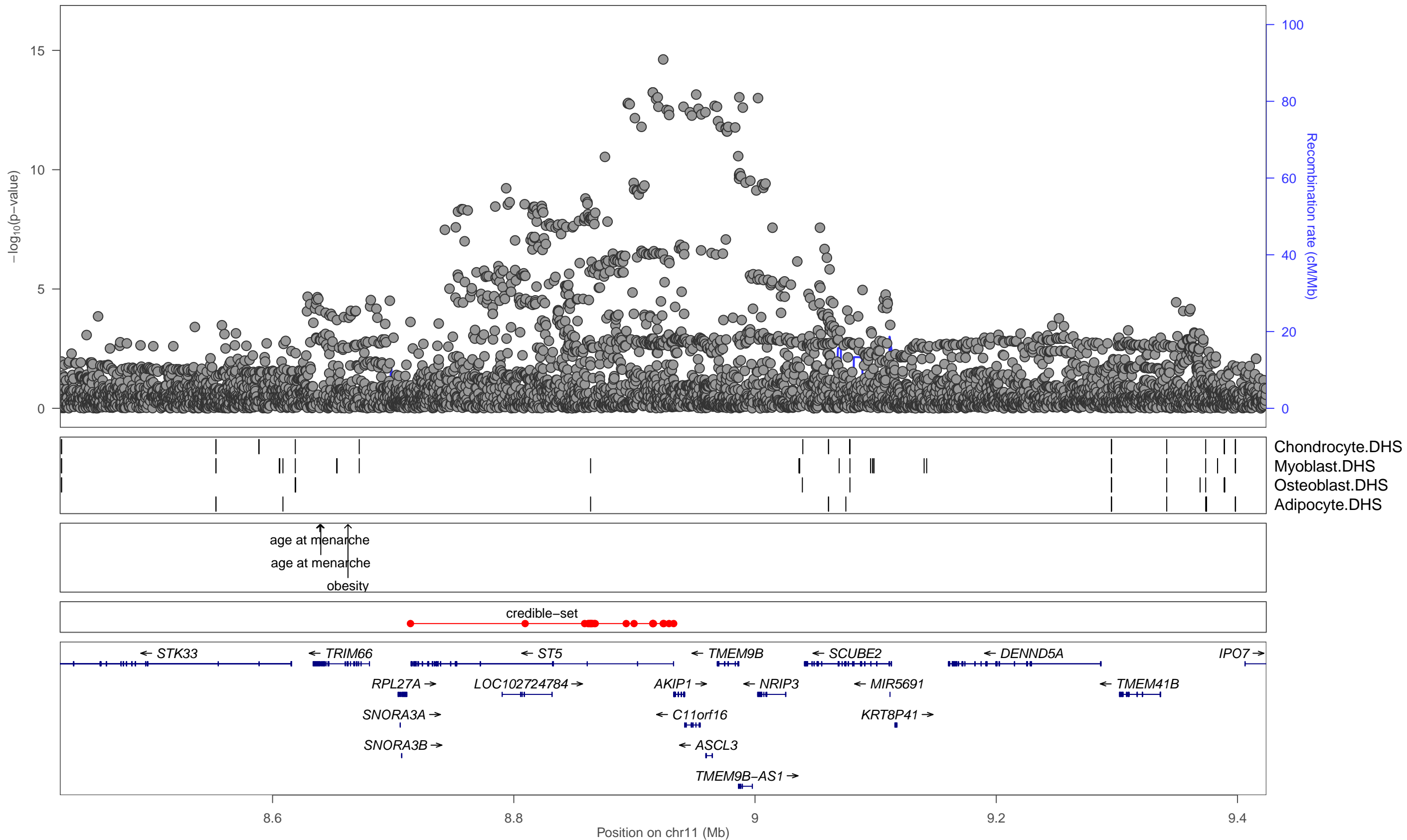
min P-value: 1.7E-17 [chr10:134459388]

max P-value: 1E0 [chr10:133999575]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs28564559	10	133.9943	2.5598	credible-set	red
rs12244896	10	134.2553	2.1400	credible-set	red
rs4880255	10	134.2601	2.1029	credible-set	red
rs4880377	10	134.2601	2.1401	credible-set	red
rs77550739	10	134.2604	2.0646	credible-set	red
rs61865612	10	134.2611	2.3420	credible-set	red
rs61865613	10	134.2617	2.4086	credible-set	red
rs11146377	10	134.2617	2.0605	credible-set	red
rs11146378	10	134.2618	2.0793	credible-set	red
rs112192849	10	134.2620	2.3706	credible-set	red
rs4387275	10	134.2634	2.3805	credible-set	red
rs4880378	10	134.2642	2.2530	credible-set	red
rs112070220	10	134.2648	2.4319	credible-set	red
rs113429037	10	134.2649	2.1075	credible-set	red
rs112821738	10	134.2650	2.1787	credible-set	red
rs11814626	10	134.2655	2.3819	credible-set	red
rs61865614	10	134.2663	2.2100	credible-set	red
rs4543902	10	134.2699	2.0898	credible-set	red
rs80226362	10	134.4135	3.3512	credible-set	red
rs75523587	10	134.4136	3.3520	credible-set	red
rs1133400	10	134.4594	3.6139	credible-set	red

eBMD SNP INDEX 177



date: Wed Jun 28 21:44:20 2017

build: hg19

display range: chr11:8423873–9423873 [8423873–9423873]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:8923873

number of SNPs plotted: 5928

min P-value: 2.4E-15 [chr11:8923872]

max P-value: 1E0 [chr11:8525273]

Warning: No usable LD information for reference SNP.

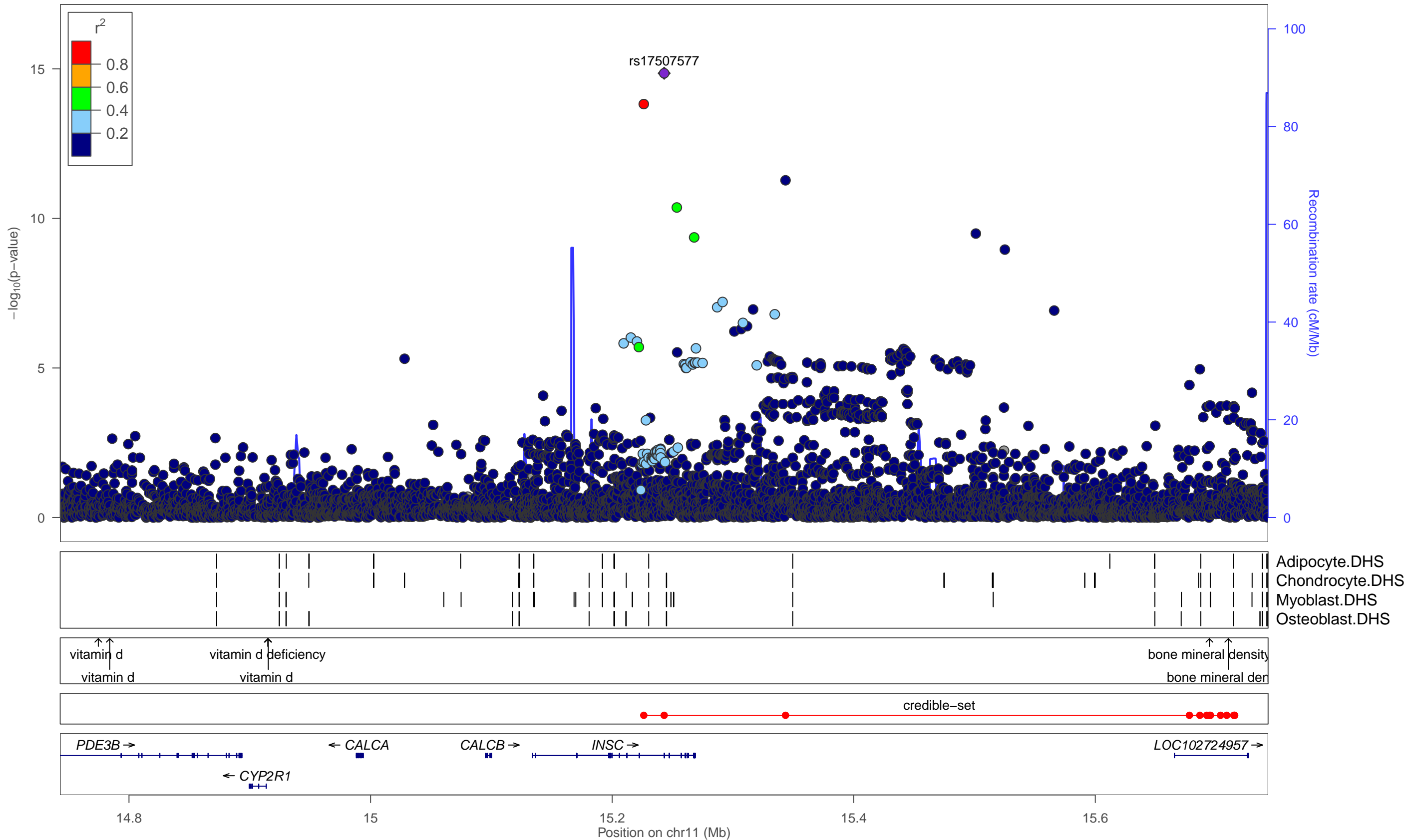
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	8.639200	age at menarche	Elks CE	21/11/2010	Nat Genet	21102462	rs4929923	EFO_0004703	GCST000880
11	8.639994	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs4929947	EFO_0004703	GCST002541
11	8.662516	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs11042023	EFO_0001073	GCST001953

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4929908	11	8.714325	3.2274	credible-set	red
rs139563052	11	8.809389	2.2082	credible-set	red
rs10769967	11	8.858730	2.1843	credible-set	red
rs7119939	11	8.861543	2.5409	credible-set	red
rs4910062	11	8.862188	2.2514	credible-set	red
rs2653607	11	8.863125	2.1618	credible-set	red
rs2568043	11	8.863550	2.1639	credible-set	red
rs1529641	11	8.864138	2.2492	credible-set	red
rs35110123	11	8.864559	2.3883	credible-set	red
rs10840134	11	8.865363	2.3829	credible-set	red
rs7123429	11	8.866808	2.0335	credible-set	red
rs7937298	11	8.867509	2.7994	credible-set	red
rs2653565	11	8.893193	2.2520	credible-set	red
rs2568042	11	8.899668	2.2542	credible-set	red
rs193285064	11	8.915273	2.1585	credible-set	red
rs571454425	11	8.915274	2.1634	credible-set	red
rs527454143	11	8.915275	2.1638	credible-set	red
rs201667308	11	8.915751	2.1989	credible-set	red
rs71059192	11	8.923872	2.0822	credible-set	red
rs2568034	11	8.924393	2.4028	credible-set	red
rs2742521	11	8.928704	2.4717	credible-set	red
rs2742520	11	8.932533	2.0961	credible-set	red

eBMD SNP INDEX 178



date: Wed Jun 28 21:44:31 2017

build: hg19

display range: chr11:14743059–15743059 [14743059–15743059]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:15243059

number of SNPs plotted: 5207

min P-value: 1.4E-15 [chr11:15243059]

max P-value: 1E0 [chr11:14746260]

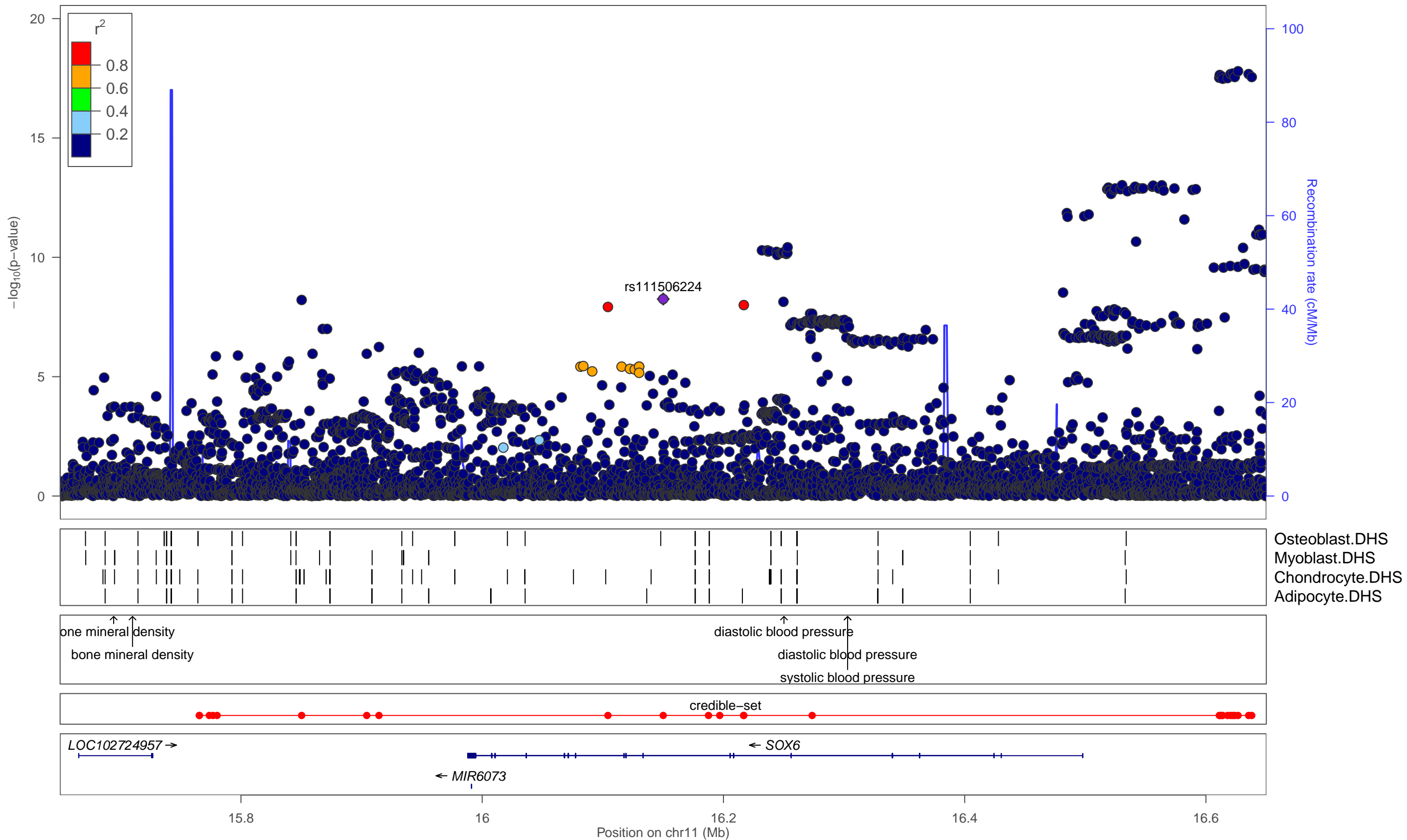
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	14.77459	vitamin d	Anderson D	11/09/2014	Genes Immun	25208829	rs1007392	EFO_0004631	GCST002602
11	14.78411	vitamin d	Anderson D	11/09/2014	Genes Immun	25208829	rs11023332	EFO_0004631	GCST002602
11	14.91488	vitamin d deficiency	Wang TJ	9/06/2010	Lancet	20541252	rs10741657	EFO_0003762	GCST000697
11	14.91531	vitamin d	Ahn J	23/04/2010	Hum Mol Genet	20418485	rs2060793	EFO_0004631	GCST000664
11	15.69446	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7117858	EFO_0003923	GCST000495
11	15.71008	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7108738	EFO_0003923	GCST001482
11	15.71008	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs7108738	EFO_0003923	GCST002276
11	15.71008	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7108738	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1945627	11	15.22619	2.5302	credible-set	red
rs17507577	11	15.24306	4.5001	credible-set	red
rs61880664	11	15.34353	2.1212	credible-set	red
rs75319234	11	15.67791	2.2713	credible-set	red
rs188219448	11	15.68656	2.7797	credible-set	red
rs7128738	11	15.69223	2.1343	credible-set	red
rs7117858	11	15.69446	2.1909	credible-set	red
rs9787942	11	15.69533	2.1891	credible-set	red
rs4757350	11	15.70367	2.1661	credible-set	red
rs7926837	11	15.70879	2.1851	credible-set	red
rs4757353	11	15.71462	2.1497	credible-set	red
rs3959926	11	15.71532	2.1058	credible-set	red
rs71044068	11	15.71537	2.0715	credible-set	red

eBMD SNP INDEX 179



date: Wed Jun 28 21:44:37 2017

build: hg19

display range: chr11:15650065–16650065 [15650065–16650065]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:16150065

number of SNPs plotted: 4849

min P-value: 1.6E-18 [chr11:16626629]

max P-value: 1E0 [chr11:15694152]

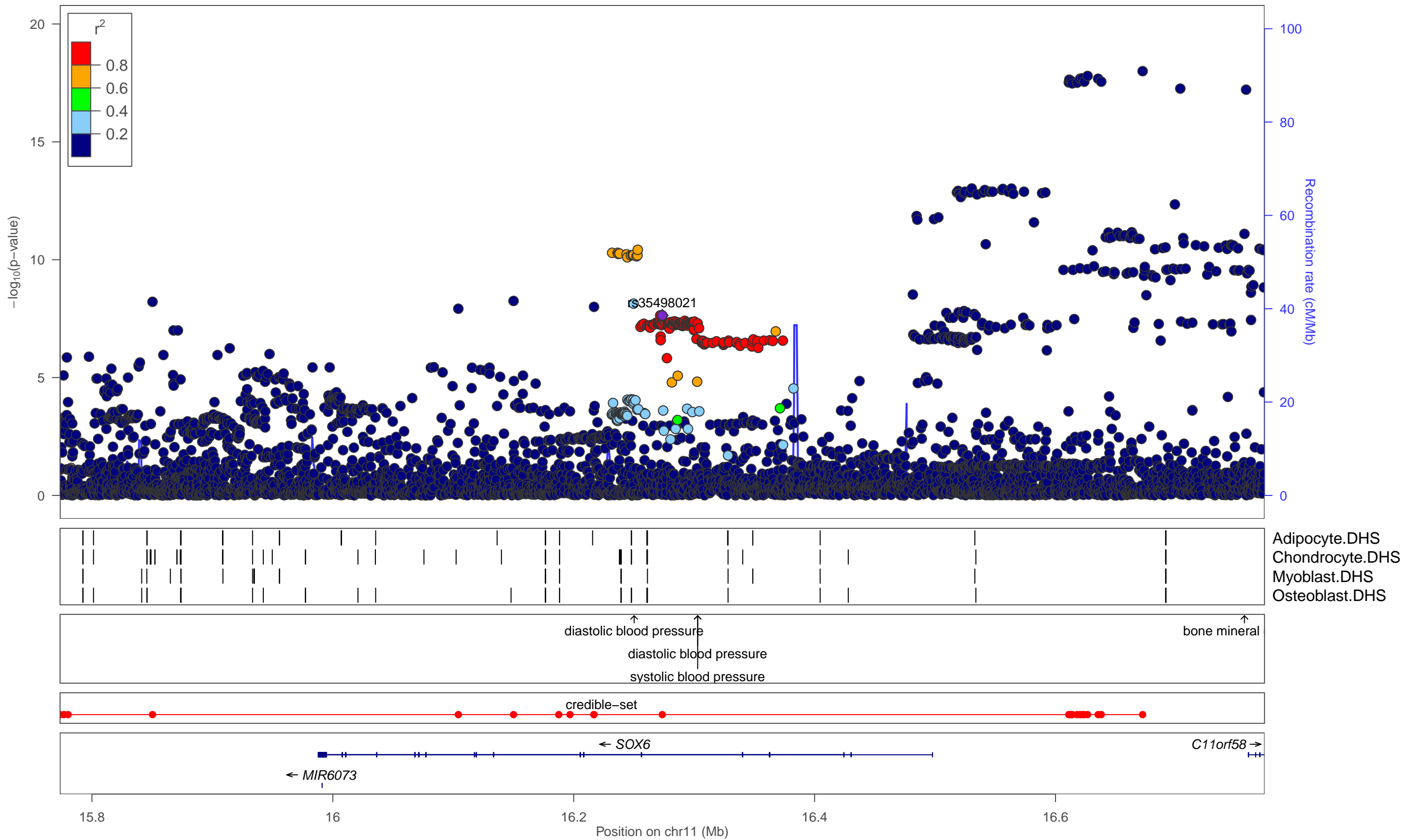
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	15.69446	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7117858	EFO_0003923	GCST000495
11	15.71008	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7108738	EFO_0003923	GCST001482
11	15.71008	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs7108738	EFO_0003923	GCST002276
11	15.71008	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs7108738	EFO_0004339	NA
11	16.25018	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs1401454	EFO_0006336	GCST002143
11	16.30294	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006336	GCST002631
11	16.30294	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006335	GCST002630

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11023703	11	15.76546	2.2604	credible-set	red
rs11023704	11	15.76558	2.3869	credible-set	red
rs1484437	11	15.77374	3.4319	credible-set	red
rs1882133	11	15.77679	3.2384	credible-set	red
rs553152992	11	15.78021	4.2165	credible-set	red
rs61171454	11	15.85030	5.2436	credible-set	red
rs11023759	11	15.90426	2.2779	credible-set	red
rs1440703	11	15.91440	2.5229	credible-set	red
rs113962516	11	16.10422	2.8356	credible-set	red
rs111506224	11	16.15007	3.5911	credible-set	red
rs35063518	11	16.18761	2.0488	credible-set	red
rs72041774	11	16.19691	2.1789	credible-set	red
rs34315049	11	16.21669	2.1165	credible-set	red
rs113150176	11	16.21687	3.0133	credible-set	red
rs35498021	11	16.27354	2.0134	credible-set	red
rs12364964	11	16.61109	2.3714	credible-set	red
rs56074687	11	16.61147	2.5197	credible-set	red
rs12365482	11	16.61294	2.4428	credible-set	red
rs10741702	11	16.61393	2.2961	credible-set	red
rs11023992	11	16.61793	2.3189	credible-set	red
rs146341994	11	16.62043	2.5743	credible-set	red
rs10832649	11	16.62225	2.6006	credible-set	red
rs4325274	11	16.62391	2.3833	credible-set	red
rs11023993	11	16.62663	2.6950	credible-set	red
rs78152188	11	16.63542	2.5692	credible-set	red
rs7479519	11	16.63800	2.4107	credible-set	red

eBMD SNP INDEX 180



date: Wed Jun 28 21:44:34 2017

build: hg19

display range: chr11:15773537–16773537 [15773537–16773537]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:16273537

number of SNPs plotted: 4740

min P-value: 1E-18 [chr11:16672348]

max P-value: 1E0 [chr11:16031635]

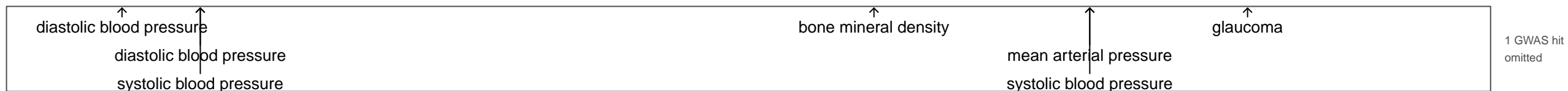
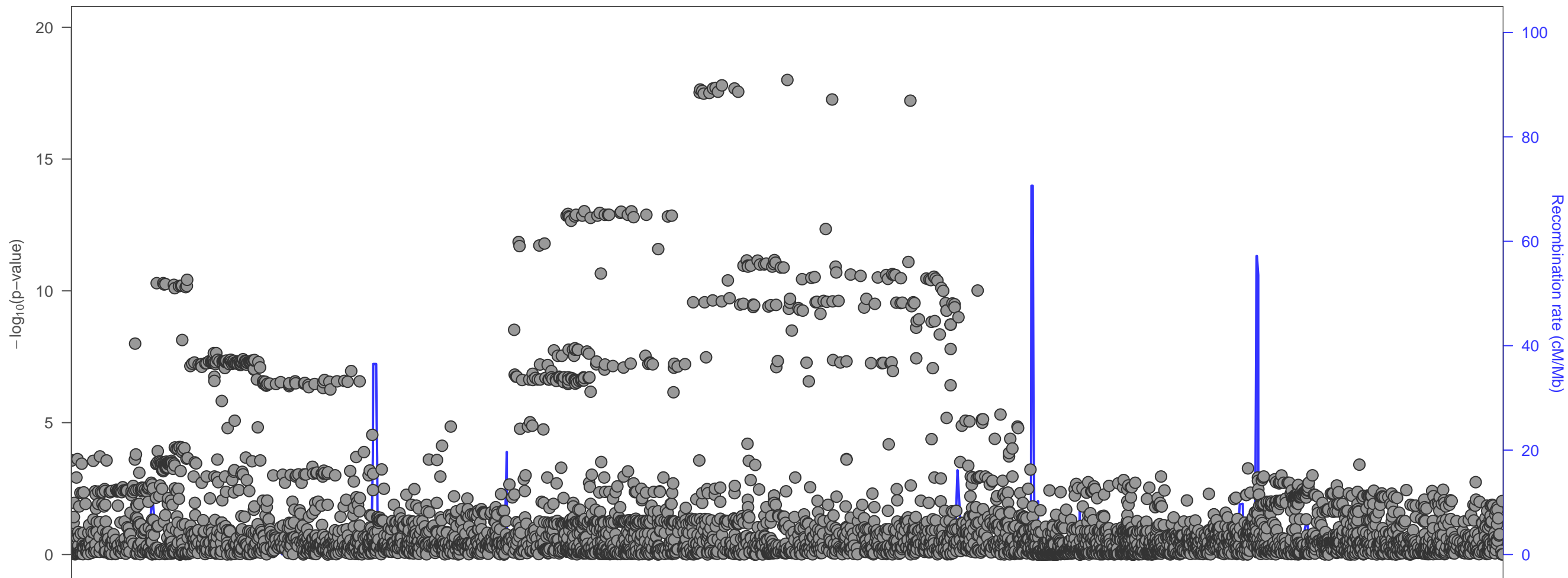
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	16.25018	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs1401454	EFO_0006336	GCST002143
11	16.30294	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006336	GCST002631
11	16.30294	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006335	GCST002630
11	16.75687	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11024028	EFO_0004339	NA

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1484437	11	15.77374	3.5678	credible-set	red
rs1882133	11	15.77679	3.3230	credible-set	red
rs553152992	11	15.78021	5.3031	credible-set	red
rs61171454	11	15.85030	5.0490	credible-set	red
rs113962516	11	16.10422	2.8196	credible-set	red
rs111506224	11	16.15007	3.5931	credible-set	red
rs35063518	11	16.18761	2.1122	credible-set	red
rs72041774	11	16.19691	2.2139	credible-set	red
rs34315049	11	16.21669	2.1353	credible-set	red
rs113150176	11	16.21687	2.9903	credible-set	red
rs35498021	11	16.27354	2.0313	credible-set	red
rs12364964	11	16.61109	2.2213	credible-set	red
rs56074687	11	16.61147	2.3474	credible-set	red
rs12365482	11	16.61294	2.2986	credible-set	red
rs10741702	11	16.61393	2.1287	credible-set	red
rs11023992	11	16.61793	2.1716	credible-set	red
rs146341994	11	16.62043	2.4401	credible-set	red
rs10832649	11	16.62225	2.4214	credible-set	red
rs4325274	11	16.62391	2.2143	credible-set	red
rs11023993	11	16.62663	2.5148	credible-set	red
rs78152188	11	16.63542	2.4147	credible-set	red
rs7479519	11	16.63800	2.2380	credible-set	red
rs56928337	11	16.67235	2.9190	credible-set	red

eBMD SNP INDEX 181



16.2

16.4

16.6

16.8

17

Position on chr11 (Mb)

date: Wed Jun 28 21:44:39 2017

build: hg19

display range: chr11:16172349–17172349 [16172349–17172349]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:16672349

number of SNPs plotted: 5236

min P-value: 1E-18 [chr11:16672348]

max P-value: 1E0 [chr11:16248275]

omitted GWAS Hits: NA

Warning: No usable LD information for reference SNP.

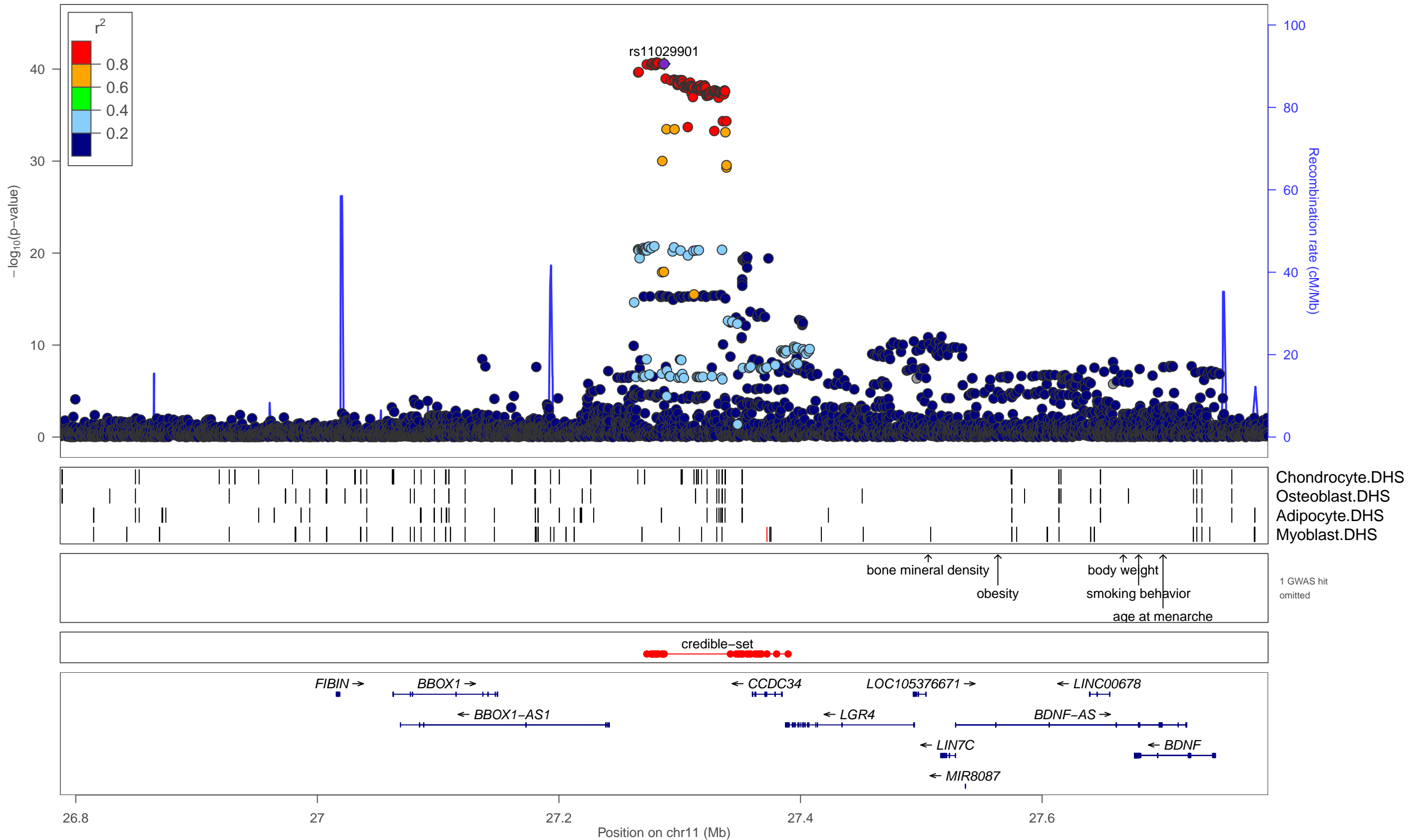
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	16.25018	diastolic blood pressure	Franceschini N	20/08/2013	Am J Hum Genet	23972371	rs1401454	EFO_0006336	GCST002143
11	16.30294	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006336	GCST002631
11	16.30294	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs4757391	EFO_0006335	GCST002630
11	16.75687	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11024028	EFO_0004339	NA
11	16.90227	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs381815	EFO_0006340	GCST001236
11	16.90227	systolic blood pressure	Levy D	10/05/2009	Nat Genet	19430479	rs381815	EFO_0006335	GCST000393
11	17.00860	glaucoma	Vithana EN	26/08/2012	Nat Genet	22922875	rs11024102	EFO_0000516	GCST001649
11	17.16015	schizophrenia, bipolar disorder	Ruderfer DM	26/11/2013	Mol Psychiatry	24280982	rs4356203	EFO_0000692, EFO_0000289	GCST002295

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs113150176	11	16.21687	5.4186	credible-set	red
rs11023871	11	16.23194	2.0770	credible-set	red
rs35547484	11	16.23650	2.1190	credible-set	red
rs35540641	11	16.23713	2.0253	credible-set	red
rs10832558	11	16.23809	2.0482	credible-set	red
rs7938055	11	16.25319	2.2101	credible-set	red
rs12364964	11	16.61109	2.2661	credible-set	red
rs56074687	11	16.61147	2.4106	credible-set	red
rs12365482	11	16.61294	2.3494	credible-set	red
rs10741702	11	16.61393	2.1831	credible-set	red
rs11023992	11	16.61793	2.2241	credible-set	red
rs146341994	11	16.62043	2.4861	credible-set	red
rs10832649	11	16.62225	2.5039	credible-set	red
rs4325274	11	16.62391	2.2909	credible-set	red
rs11023993	11	16.62663	2.5756	credible-set	red
rs78152188	11	16.63542	2.4569	credible-set	red
rs7479519	11	16.63800	2.2936	credible-set	red
rs56928337	11	16.67235	2.9029	credible-set	red

eBMD SNP INDEX 182



date: Wed Jun 28 21:44:54 2017

build: hg19

display range: chr11:26787108–27787108 [26787108–27787108]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:27287108

number of SNPs plotted: 5487

min P-value: 1.9E-41 [chr11:27281007]

max P-value: 1E0 [chr11:26796921]

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	27.50568	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs10835187	EFO_0003923	GCST002493
11	27.56338	obesity	Jiao H	28/06/2011	BMC Med Genomics	21708048	rs988712	EFO_0001073	GCST001130
11	27.66720	body weight	Thorleifsson G	14/12/2008	Nat Genet	19079260	rs925946	EFO_0004338	GCST000299
11	27.67992	smoking behavior	TGC	25/04/2010	Nat Genet	20418890	rs6265	EFO_0004318	GCST000666
11	27.70012	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs7103411	EFO_0004703	GCST002541
11	27.72854	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs2030323	EFO_0001073	GCST001953

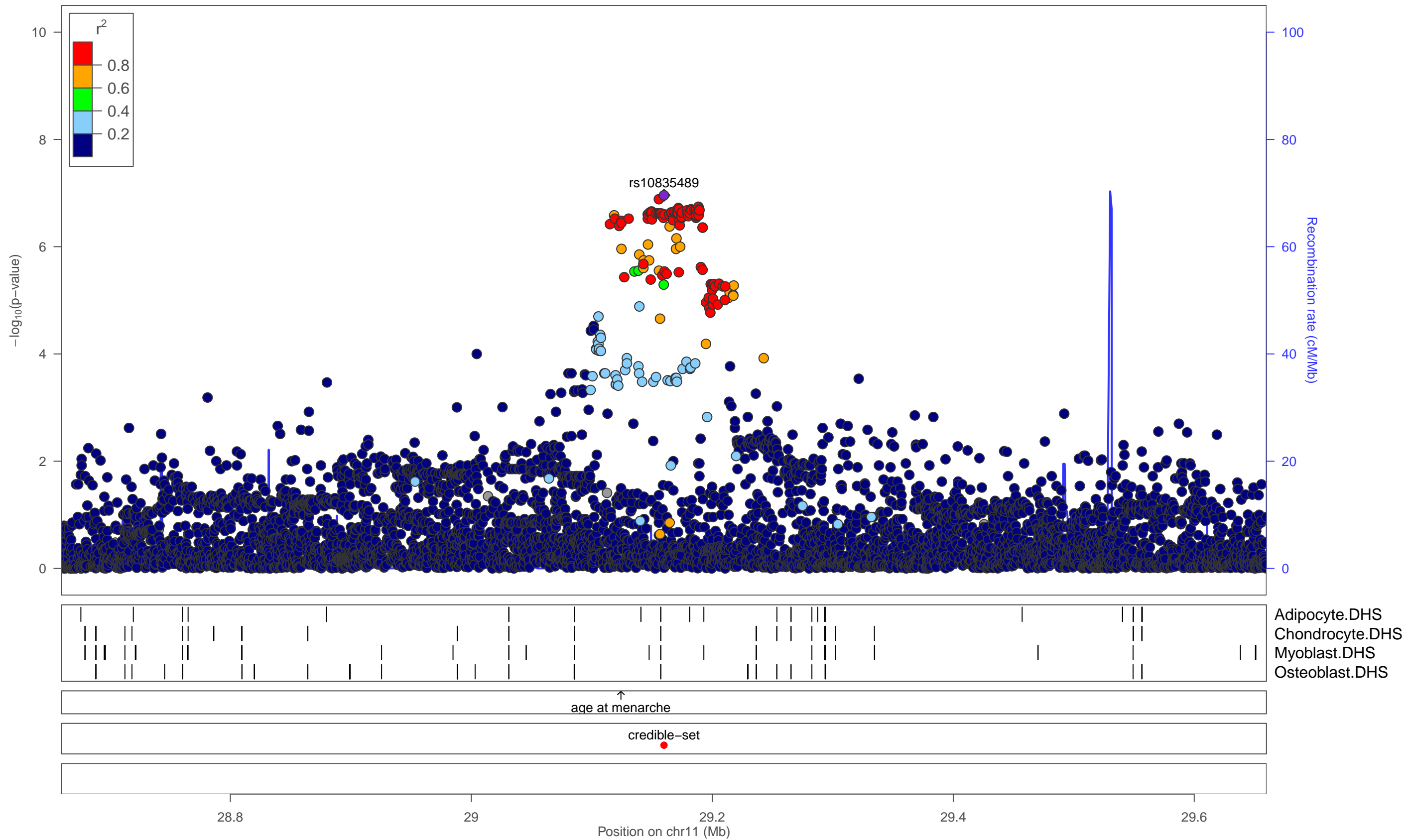
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7483297	11	27.27273	2.2477	credible-set	red
rs7948420	11	27.27645	2.1530	credible-set	red
rs1038099	11	27.27685	2.4105	credible-set	red
rs1871255	11	27.27776	2.4135	credible-set	red
rs1038100	11	27.27913	2.1907	credible-set	red
rs1351175	11	27.28032	2.2865	credible-set	red
rs6416055	11	27.28101	2.4830	credible-set	red
rs7480454	11	27.28118	2.4688	credible-set	red
rs7950903	11	27.28227	2.4166	credible-set	red
rs34742196	11	27.28540	2.5242	credible-set	red
rs56377122	11	27.28559	2.3107	credible-set	red
rs561639190	11	27.28686	2.8516	credible-set	red
rs11029901	11	27.28711	2.2604	credible-set	red
rs75930378	11	27.34194	2.3497	credible-set	red
rs117941208	11	27.34673	2.7572	credible-set	red
rs148940705	11	27.34837	3.0347	credible-set	red
rs113852736	11	27.34911	2.3751	credible-set	red
rs77710626	11	27.35064	2.4422	credible-set	red
rs142249859	11	27.35159	2.3081	credible-set	red
rs11029950	11	27.35198	2.3799	credible-set	red
rs11029956	11	27.35580	2.3802	credible-set	red
rs35986000	11	27.35630	2.5476	credible-set	red
rs10554845	11	27.35837	2.6665	credible-set	red
rs12419259	11	27.35862	2.4351	credible-set	red
rs17244028	11	27.36236	2.3802	credible-set	red
rs141191667	11	27.36390	2.3838	credible-set	red
rs7101857	11	27.36571	2.4792	credible-set	red
rs2100953	11	27.36592	2.1890	credible-set	red
rs11029962	11	27.36720	2.3701	credible-set	red
rs11029963	11	27.36773	2.3482	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10835169	11	27.37224	2.2127	credible-set	red
rs11029974	11	27.38020	2.0182	credible-set	red
rs34804482	11	27.38974	3.7749	credible-set	red

eBMD SNP INDEX 183



date: Wed Jun 28 21:49:41 2017

build: hg19

display range: chr11:28659940–29659940 [28659940–29659940]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:29159940

number of SNPs plotted: 5536

min P-value: 1.1E-7 [chr11:29159940]

max P-value: 1E0 [chr11:28662825]

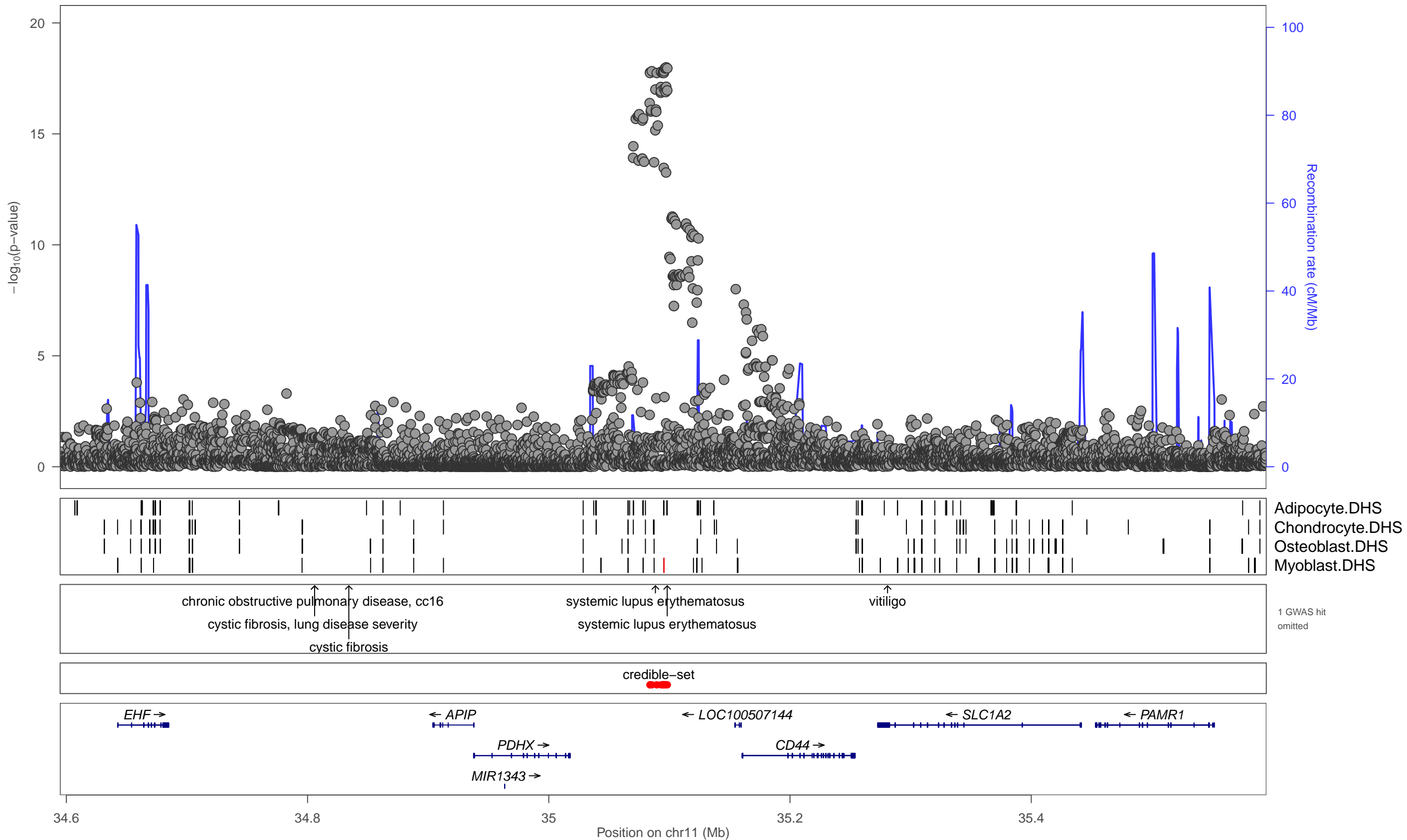
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	29.12418	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs16918636	EFO_0004703	GCST002541

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10835489	11	29.15994	2.0515	credible-set	red

eBMD SNP INDEX 184



date: Wed Jun 28 21:45:01 2017

build: hg19

display range: chr11:34594865–35594865 [34594865–35594865]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:35094865

number of SNPs plotted: 6536

min P-value: 1E-18 [chr11:35097298]

max P-value: 1E0 [chr11:34773121]

omitted GWAS Hits: chr11:35.088399–systemic lupus erythematosus

Warning: No usable LD information for reference SNP.

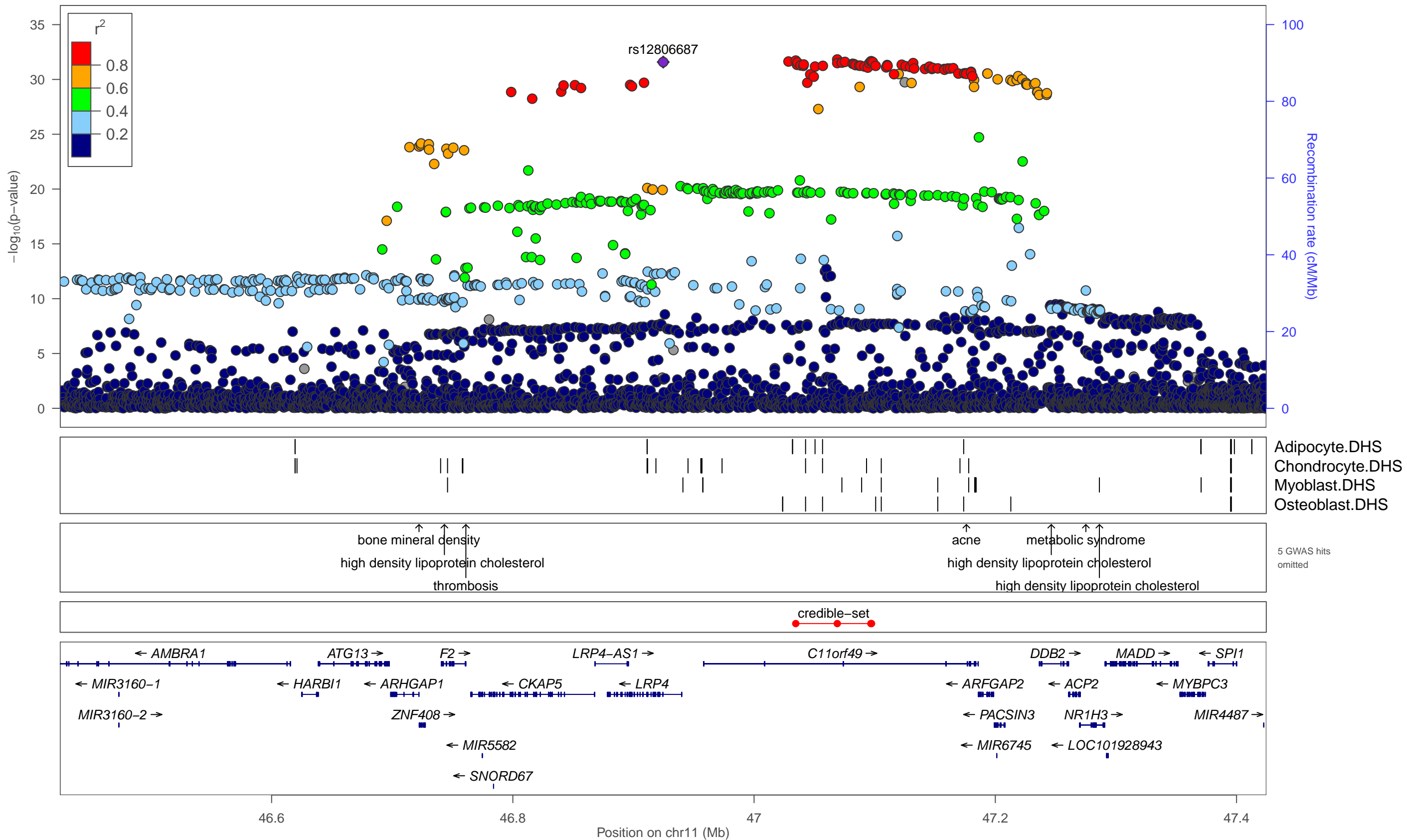
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	34.80585	chronic obstructive pulmonary disease, cc16	Kim DK	9/11/2012	Am J Respir Crit Care Med	23144326	rs7929679	EFO_0000341, EFO_0005080	GCST001737
11	34.80585	cystic fibrosis, lung disease severity	Corvol H	29/09/2015	Nat Commun	26417704	rs7929679	Orphanet_586, EFO_0007744	GCST003143
11	34.83420	cystic fibrosis	Wright FA	22/05/2011	Nat Genet	21602797	rs12793173	Orphanet_586	GCST001077
11	34.85176	cystic fibrosis, lung disease severity	Corvol H	29/09/2015	Nat Commun	26417704	rs546131	Orphanet_586, EFO_0007744	GCST003143
11	35.08840	systemic lupus erythematosus	Bentham J	26/10/2015	Nat Genet	26502338	rs2732549	EFO_0002690	GCST003155
11	35.09819	systemic lupus erythematosus	Bentham J	26/10/2015	Nat Genet	26502338	rs387619	EFO_0002690	GCST003156
11	35.28085	vitiligo	Jin Y	6/05/2012	Nat Genet	22561518	rs10768122	EFO_0004208	GCST001509

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs146368551	11	35.08394	2.3428	credible-set	red
rs28718257	11	35.08395	2.3169	credible-set	red
rs2553772	11	35.08545	2.4027	credible-set	red
rs1895821	11	35.08952	2.3170	credible-set	red
rs2785197	11	35.09307	2.3717	credible-set	red
rs1116470	11	35.09449	2.3169	credible-set	red
rs1116471	11	35.09463	2.3437	credible-set	red
rs34136481	11	35.09486	2.4027	credible-set	red
rs2785194	11	35.09525	2.3722	credible-set	red
rs2785193	11	35.09544	2.3169	credible-set	red
rs1834460	11	35.09557	2.4027	credible-set	red
rs2098878	11	35.09631	2.5538	credible-set	red
rs2553826	11	35.09676	2.5538	credible-set	red
rs2732536	11	35.09730	2.6014	credible-set	red
rs1425805	11	35.09827	2.5535	credible-set	red

eBMD SNP INDEX 185



date: Wed Jun 28 21:45:02 2017

build: hg19

display range: chr11:46424665–47424665 [46424665–47424665]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:46924665

number of SNPs plotted: 3878

min P-value: 1.5E–32 [chr11:47068968]

max P-value: 1E0 [chr11:46676143]

omitted GWAS Hits: chr11:47.176005–acne, NA

omitted GWAS Hits: NA, NA

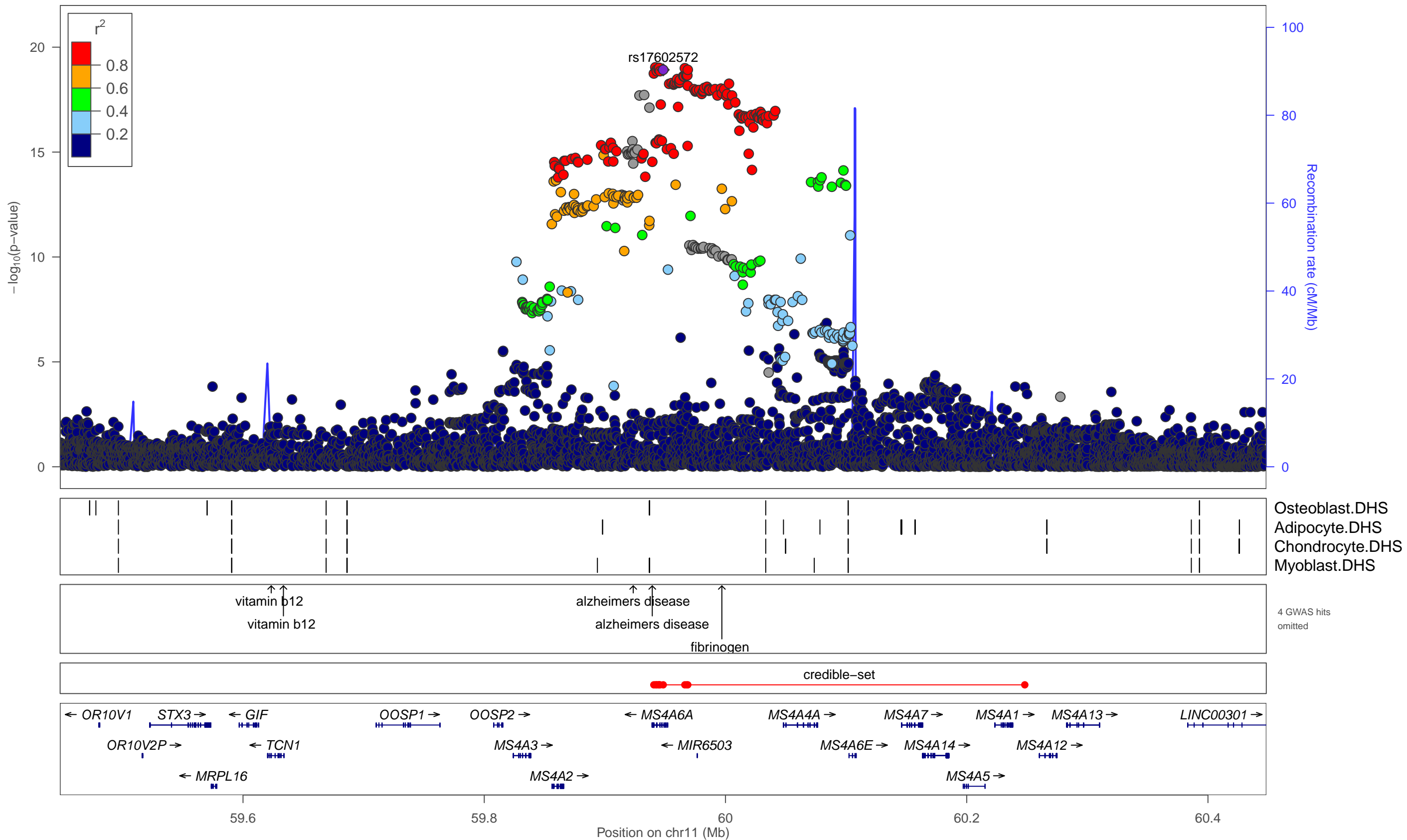
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	46.72222	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7932354	EFO_0003923	GCST001482
11	46.72222	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs7932354	EFO_0003923	GCST000495
11	46.74325	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs3136441	EFO_0004612	GCST000755
11	46.74325	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs3136441	EFO_0004612	GCST002223
11	46.76105	thrombosis	Hinds DA	9/02/2016	Hum Mol Genet	26908601	rs1799963	HP_0001977	GCST003390
11	46.76105	venous thromboembolism	Germain M	12/03/2015	Am J Hum Genet	25772935	rs1799963	EFO_0004286	GCST002808
11	47.17601	acne	He L	7/01/2014	Nat Commun	24399259	rs747650	EFO_0003894	GCST002329
11	47.24640	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs7395581	EFO_0004612	GCST002899
11	47.27506	metabolic syndrome	Kristiansson K	7/03/2012	Circ Cardiovasc Genet	22399527	rs10838681	EFO_0000195	GCST001436
11	47.28629	high density lipoprotein cholesterol	Sabatti C	7/12/2008	Nat Genet	19060910	rs7120118	EFO_0004612	GCST000284
11	47.29380	insulin	Strawbridge RJ	26/08/2011	Diabetes	21873549	rs10501320	EFO_0004467	GCST001212
11	47.31289	insulin	Strawbridge RJ	26/08/2011	Diabetes	21873549	rs10838687	EFO_0004467	GCST001212
11	47.33632	fasting blood glucose	Dupuis J	17/01/2010	Nat Genet	20081858	rs7944584	EFO_0004465	GCST000568
11	47.37342	thrombin generation potential	Rocanin–Arjo A	19/12/2013	Blood	24357727	rs2856656	EFO_0005538	GCST002315

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs5791751	11	47.03456	2.0868	credible-set	red
rs143859099	11	47.06897	2.1952	credible-set	red
rs35318925	11	47.09684	2.0145	credible-set	red
rs4579897	11	47.09736	2.0142	credible-set	red

eBMD SNP INDEX 186



date: Wed Jun 28 21:46:57 2017

build: hg19

display range: chr11:59448374–60448374 [59448374–60448374]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:59948374

number of SNPs plotted: 5910

min P-value: 9.1E-20 [chr11:59941799]

max P-value: 1E0 [chr11:59518536]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

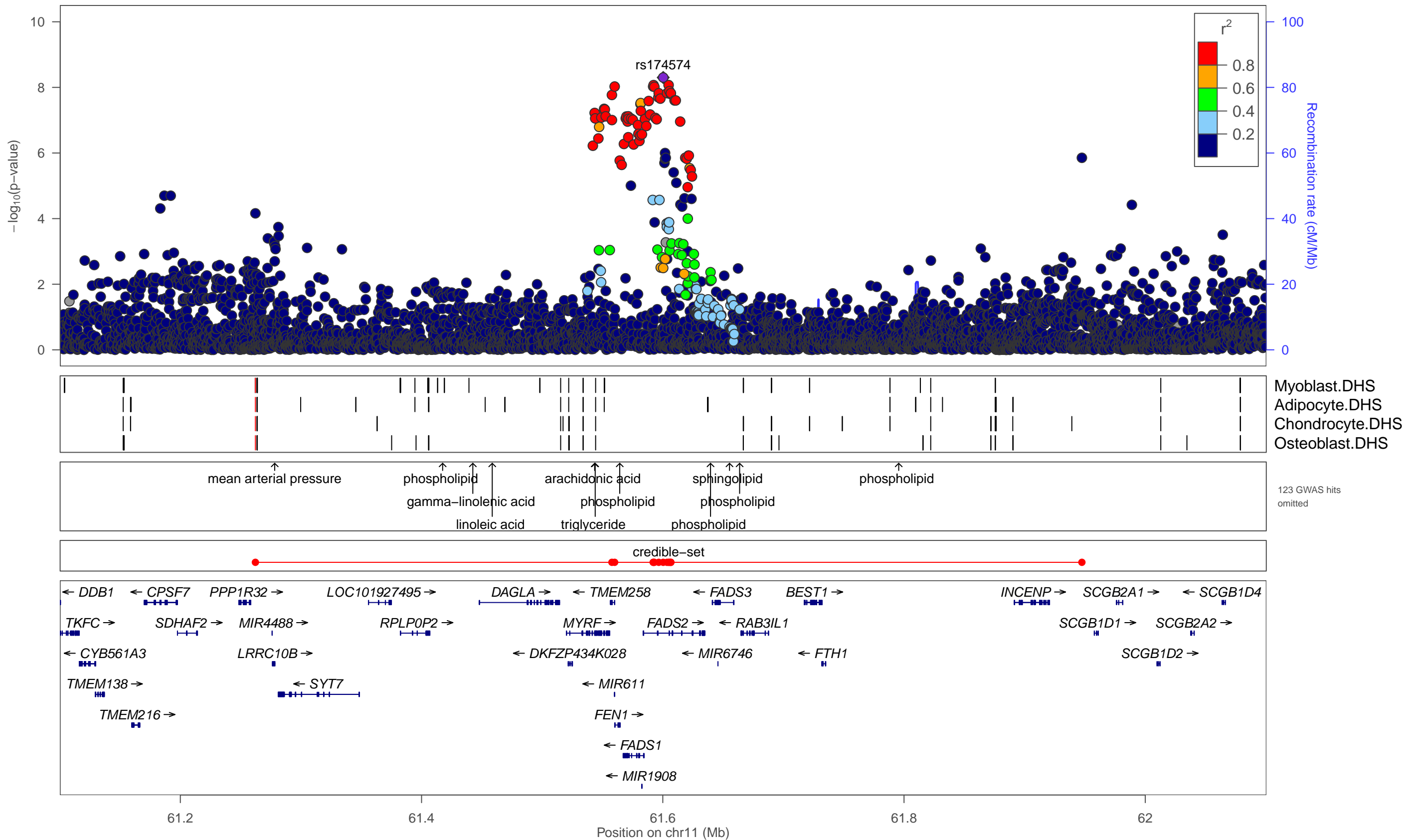
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	59.62338	vitamin b12	Keene KL	6/08/2014	Front Public Health	25147783	rs34324219	EFO_0004620	GCST002559
11	59.63349	vitamin b12	Hazra A	10/09/2009	Hum Mol Genet	19744961	rs526934	EFO_0004620	GCST000483
11	59.92351	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs983392	EFO_0000249	GCST002245
11	59.93931	alzheimers disease	Hollingworth P	3/04/2011	Nat Genet	21460840	rs610932	EFO_0000249	GCST001025
11	59.99699	fibrinogen	de Vries PS	10/11/2015	Hum Mol Genet	26561523	rs11230201	EFO_0004623	GCST003194
11	59.99767	lipoprotein-associated phospholipase a(2)	Chu AY	1/11/2012	Circ Cardiovasc Genet	23118302	rs600550	EFO_0004746	GCST001727
11	60.02195	alzheimers disease	Jun G	17/03/2015	Mol Psychiatry	25778476	rs1582763	EFO_0000249	GCST002817
11	60.02309	alzheimers disease	Antunez C	31/05/2011	Genome Med	21627779	rs1562990	EFO_0000249	GCST001087
11	60.03443	alzheimers disease	Naj AC	3/04/2011	Nat Genet	21460841	rs4938933	EFO_0000249	GCST001026

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7232	11	59.94060	2.1264	credible-set	red
rs535602077	11	59.94180	2.4053	credible-set	red
rs7935829	11	59.94282	2.2728	credible-set	red
rs2278867	11	59.94311	2.2009	credible-set	red
rs72918674	11	59.94458	2.2732	credible-set	red
rs7946992	11	59.94481	2.2727	credible-set	red
rs148700655	11	59.94505	2.3784	credible-set	red
rs12453	11	59.94575	2.2011	credible-set	red
rs17602572	11	59.94837	2.2737	credible-set	red
rs2123314	11	59.96630	2.3603	credible-set	red
rs28628869	11	59.96781	2.0628	credible-set	red
rs184909761	11	59.96874	2.2744	credible-set	red
11:60248146_C_T	11	60.24815	2.2152	credible-set	red

eBMD SNP INDEX 187



date: Wed Jun 28 21:47:17 2017

build: hg19

display range: chr11:61100342–62100342 [61100342–62100342]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:61600342

number of SNPs plotted: 5601

min P-value: 5E-9 [chr11:61600342]

max P-value: 1E0 [chr11:61120076]

omitted GWAS Hits: chr11:61.543499–arachidonic acid , chr11:61.564299–phospholipid

omitted GWAS Hits: chr11:61.663691–phospholipid , chr11:61.795586–phospholipid

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

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

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	61.27825	mean arterial pressure	Kato N	21/09/2015	Nat Genet	26390057	rs751984	EFO_0006340	GCST003275
11	61.41747	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs1692120	EFO_0004639	GCST001180
11	61.44249	gamma-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs7925523	EFO_0007762	GCST003238
11	61.45860	linoleic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs11827215	EFO_0006807	GCST003239
11	61.49049	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs198426	EFO_0004639	GCST001179
11	61.54350	arachidonic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174528	EFO_0006808	GCST003236
11	61.54350	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174528	EFO_0006824, EFO_0006821	GCST002721
11	61.54396	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs174529	EFO_0004612	GCST002899
11	61.54396	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs174529	EFO_0004530	GCST002897
11	61.54724	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs108499	EFO_0006824, EFO_0006821	GCST002721
11	61.54856	alpha-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs509360	EFO_0007759	GCST003242
11	61.54856	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs509360	EFO_0006824, EFO_0006821	GCST002721
11	61.54946	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174534	EFO_0006824, EFO_0006821	GCST002721
11	61.54946	dihomo-gamma-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174534	EFO_0007763	GCST003237
11	61.55136	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174535	EFO_0005664	GCST002443
11	61.55136	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174535	EFO_0006824, EFO_0006821	GCST002721
11	61.55136	fatty acid , oleic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174535	EFO_0005110, EFO_0006810	GCST002712
11	61.55136	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174535	EFO_0004639	GCST001178
11	61.55136	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174535	EFO_0004639	GCST001179
11	61.55193	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174536	EFO_0006824, EFO_0006821	GCST002721
11	61.55193	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174536	EFO_0007630, EFO_0005664	GCST002965
11	61.55193	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174536	EFO_0004639	GCST001180
11	61.55268	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174537	EFO_0006824, EFO_0006821	GCST002721
11	61.55268	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs174537	EFO_0005842	GCST002454
11	61.55268	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs174537	EFO_0000384	GCST003044
11	61.55268	gamma-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174537	EFO_0007762	GCST003238
11	61.55268	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174537	EFO_0007630, EFO_0005664	GCST002965
11	61.55780	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs102275	EFO_0006824, EFO_0006821	GCST002721
11	61.55780	coronary artery calcification	Inouye M	16/08/2012	PLoS Genet	22916037	rs102275	EFO_0004723	GCST001639
11	61.55780	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs102275	EFO_0000384	GCST000879

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11	61.55780	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs102275	EFO_0007630, EFO_0005664	GCST002965
11	61.55780	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs102275	EFO_0005680	GCST002449
11	61.55780	phospholipid	Demirkan A	16/02/2012	PLoS Genet	22359512	rs102275	EFO_0004639	GCST001414
11	61.55780	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs102275	EFO_0004639	GCST001179
11	61.55780	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs102275	EFO_0004639	GCST001180
11	61.55780	phospholipid	Wu JH	29/01/2013	Circ Cardiovasc Genet	23362303	rs102275	EFO_0004639	GCST001834
11	61.55780	phospholipid	Wu JH	29/01/2013	Circ Cardiovasc Genet	23362303	rs102275	EFO_0004639	GCST001840
11	61.55780	phospholipid	Wu JH	29/01/2013	Circ Cardiovasc Genet	23362303	rs102275	EFO_0004639	GCST001841
11	61.56008	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174538	EFO_0005664	GCST002443
11	61.56008	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174538	EFO_0006824, EFO_0006821	GCST002721
11	61.56008	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174538	EFO_0004639	GCST001178
11	61.56430	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs4246215	EFO_0006824, EFO_0006821	GCST002721
11	61.56430	fatty acid , linoleic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs4246215	EFO_0005110, EFO_0006807	GCST002712
11	61.56430	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs4246215	EFO_0003767	GCST001725
11	61.56430	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs4246215	EFO_0004639	GCST001178
11	61.56430	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs4246215	EFO_0004639	GCST001179
11	61.56430	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs4246215	EFO_0004639	GCST001180
11	61.56430	platelet count	Gieger C	30/11/2011	Nature	22139419	rs4246215	EFO_0004309	GCST001337
11	61.56591	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174541	EFO_0006824, EFO_0006821	GCST002721
11	61.56591	fatty acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174541	EFO_0005110	GCST002712
11	61.56591	insulin sensitivity	Xie W	1/02/2013	Diabetes	23378610	rs174541	EFO_0004471	GCST001852
11	61.56931	arachidonic acid , fatty acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174545	EFO_0006808, EFO_0005110	GCST002712
11	61.56931	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174545	EFO_0006824, EFO_0006821	GCST002721
11	61.56931	delta-6 desaturase	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174545	EFO_0007765	GCST003244
11	61.56983	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174546	EFO_0006824, EFO_0006821	GCST002721
11	61.56983	gamma-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174546	EFO_0007762	GCST003238
11	61.56983	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174546	EFO_0007630, EFO_0005664	GCST002965
11	61.56983	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs174546	EFO_0004612	GCST000755
11	61.56983	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs174546	EFO_0004612	GCST002223
11	61.56983	low density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs174546	EFO_0004611	GCST000759

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11	61.56983	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs174546	EFO_0004611	GCST002222
11	61.56983	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs174546	EFO_0004574	GCST000760
11	61.56983	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs174546	EFO_0004574	GCST002221
11	61.56983	triglyceride	Teslovich TM	5/08/2010	Nature	20686565	rs174546	EFO_0004530	GCST000758
11	61.56983	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs174546	EFO_0004530	GCST002216
11	61.57078	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs174547	EFO_0004339	GCST002702
11	61.57078	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174547	EFO_0006824, EFO_0006821	GCST002721
11	61.57078	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174547	EFO_0007630, EFO_0005664	GCST002965
11	61.57078	high density lipoprotein cholesterol	Kathiresan S	7/12/2008	Nat Genet	19060906	rs174547	EFO_0004612	GCST000290
11	61.57078	linoleic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174547	EFO_0006807	GCST003239
11	61.57078	lipid	Kettunen J	29/01/2012	Nat Genet	22286219	rs174547	EFO_0004529	GCST001392
11	61.57078	metabolite	Illig T	27/12/2009	Nat Genet	20037589	rs174547	EFO_0004725	GCST000550
11	61.57078	metabolite	Suhre K	31/08/2011	Nature	21886157	rs174547	EFO_0004725	GCST001217
11	61.57078	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs174547	EFO_0005680	GCST002449
11	61.57078	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs174547	EFO_0005680	GCST002450
11	61.57078	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174547	EFO_0004639	GCST001179
11	61.57078	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174547	EFO_0004639	GCST001180
11	61.57078	resting heart rate	Eijgelsheim M	16/07/2010	Hum Mol Genet	20639392	rs174547	EFO_0004351	GCST000731
11	61.57078	sphingolipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174547	EFO_0004622, EFO_0005664	GCST002964
11	61.57078	triglyceride	Kathiresan S	7/12/2008	Nat Genet	19060906	rs174547	EFO_0004530	GCST000286
11	61.57135	albumin:globulin ratio	Hong KW	10/01/2013	J Hum Genet	23303382	rs174548	EFO_0005128	GCST001813
11	61.57135	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174548	EFO_0005664	GCST002442
11	61.57135	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174548	EFO_0005664	GCST002443
11	61.57135	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174548	EFO_0006824, EFO_0006821	GCST002721
11	61.57135	delta-6 desaturase	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174548	EFO_0007765	GCST003244
11	61.57135	dihomo-gamma-linolenic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174548	EFO_0007763	GCST003237
11	61.57135	high density lipoprotein cholesterol	Waterworth DM	23/09/2010	Arterioscler Thromb Vasc Biol	20864672	rs174548	EFO_0004612	GCST000805
11	61.57135	triglyceride	Waterworth DM	23/09/2010	Arterioscler Thromb Vasc Biol	20864672	rs174548	EFO_0004530	GCST000809
11	61.57138	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174549	EFO_0006824, EFO_0006821	GCST002721
11	61.57138	fatty acid , docosapentaenoic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174549	EFO_0005110, EFO_0006809	GCST002712

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11	61.57138	fatty acid , linolenic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174549	EFO_0005110, EFO_0006811	GCST002712
11	61.57138	heart rate	den Hoed M	14/04/2013	Nat Genet	23583979	rs174549	EFO_0004326	GCST001969
11	61.57138	laryngeal squamous cell carcinoma	Wei Q	7/09/2014	Nat Genet	25194280	rs174549	EFO_0006352	GCST002597
11	61.57138	metabolite	Hong MG	1/03/2013	Hum Mutat	23281178	rs174549	EFO_0004725	GCST001882
11	61.57148	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174550	EFO_0005664	GCST002443
11	61.57148	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174550	EFO_0006824, EFO_0006821	GCST002721
11	61.57148	fasting blood glucose	Dupuis J	17/01/2010	Nat Genet	20081858	rs174550	EFO_0004465	GCST000568
11	61.57148	fatty acid , linoleic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174550	EFO_0005110, EFO_0006807	GCST002712
11	61.57148	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174550	EFO_0007630, EFO_0005664	GCST002965
11	61.57148	homa-b	Dupuis J	17/01/2010	Nat Genet	20081858	rs174550	EFO_0004469	GCST000568
11	61.57148	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs174550	EFO_0005680	GCST002446
11	61.57148	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs174550	EFO_0005680	GCST002448
11	61.57148	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174550	EFO_0004639	GCST001178
11	61.57368	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs174551	EFO_0004611	GCST002898
11	61.57946	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs174554	EFO_0004574	GCST002896
11	61.57976	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174555	EFO_0006824, EFO_0006821	GCST002721
11	61.57976	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174555	EFO_0007630, EFO_0005664	GCST002965
11	61.57976	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs174555	EFO_0005680	GCST002444
11	61.58064	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174556	EFO_0005664	GCST002443
11	61.58064	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174556	EFO_0006824, EFO_0006821	GCST002721
11	61.59556	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs968567	EFO_0005664	GCST002443
11	61.59556	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs968567	EFO_0007630, EFO_0005664	GCST002965
11	61.59556	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs968567	EFO_0000685	GCST002318
11	61.59721	low density lipoprotein cholesterol	Aulchenko YS	7/12/2008	Nat Genet	19060911	rs174570	EFO_0004611	GCST000282
11	61.59721	total cholesterol	Aulchenko YS	7/12/2008	Nat Genet	19060911	rs174570	EFO_0004574	GCST000285
11	61.59797	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs1535	EFO_0006824, EFO_0006821	GCST002721
11	61.59797	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs1535	EFO_0007630, EFO_0005664	GCST002965
11	61.59797	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs1535	EFO_0003767	GCST003043
11	61.59797	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs1535	EFO_0004639	GCST001179
11	61.59797	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs1535	EFO_0004639	GCST001180

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11	61.60034	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174574	EFO_0006824, EFO_0006821	GCST002721
11	61.60034	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174574	EFO_0004639	GCST001178
11	61.60191	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs2845573	EFO_0006824, EFO_0006821	GCST002721
11	61.60324	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs2727270	EFO_0006824, EFO_0006821	GCST002721
11	61.60324	omega-6 polyunsaturated fatty acid	Guan W	13/05/2014	Circ Cardiovasc Genet	24823311	rs2727270	EFO_0005680	GCST002446
11	61.60336	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs2727271	EFO_0005664	GCST002443
11	61.60336	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs2727271	EFO_0006824, EFO_0006821	GCST002721
11	61.60351	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174576	EFO_0006824, EFO_0006821	GCST002721
11	61.60351	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174576	EFO_0007630, EFO_0005664	GCST002965
11	61.60478	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs2524299	EFO_0006824, EFO_0006821	GCST002721
11	61.60481	arachidonic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174577	EFO_0006808	GCST003236
11	61.60481	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174577	EFO_0006824, EFO_0006821	GCST002721
11	61.60481	iron biomarker , transferrin	Benyamin B	29/10/2014	Nat Commun	25352340	rs174577	EFO_0004461, EFO_0006341	GCST002678
11	61.60481	p wave duration	Verweij N	21/05/2014	Circ Cardiovasc Genet	24850809	rs174577	EFO_0005094	GCST002457
11	61.60522	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs2072114	EFO_0006824, EFO_0006821	GCST002721
11	61.60550	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174578	EFO_0005664	GCST002443
11	61.60550	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174578	EFO_0006824, EFO_0006821	GCST002721
11	61.60550	glycerophospholipid , blood metabolite	Draisma HH	12/06/2015	Nat Commun	26068415	rs174578	EFO_0007630, EFO_0005664	GCST002965
11	61.60550	linoleic acid	Dorajoo R	19/11/2015	Genes Nutr	26584805	rs174578	EFO_0006807	GCST003239
11	61.60975	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174583	EFO_0006824, EFO_0006821	GCST002721
11	61.60975	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs174583	EFO_0004682	GCST002500
11	61.62314	alkaline phosphatase	Chambers JC	16/10/2011	Nat Genet	22001757	rs174601	EFO_0004533	GCST001276
11	61.62314	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs174601	EFO_0005664	GCST002443
11	61.62314	cis/trans-18:2 fatty acid , trans fatty acid	Mozaffarian D	10/12/2014	Am J Clin Nutr	25646338	rs174601	EFO_0006824, EFO_0006821	GCST002721
11	61.62314	fatty acid , linolenic acid	Tintle NL	2/12/2014	PLEFA	25500335	rs174601	EFO_0005110, EFO_0006811	GCST002712
11	61.63957	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174448	EFO_0004639	GCST001178
11	61.63957	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174448	EFO_0004639	GCST001179
11	61.63957	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174448	EFO_0004639	GCST001180
11	61.65530	sphingolipid	Hicks AA	2/10/2009	PLoS Genet	19798445	rs1000778	EFO_0004622	GCST000493
11	61.66369	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174468	EFO_0004639	GCST001178

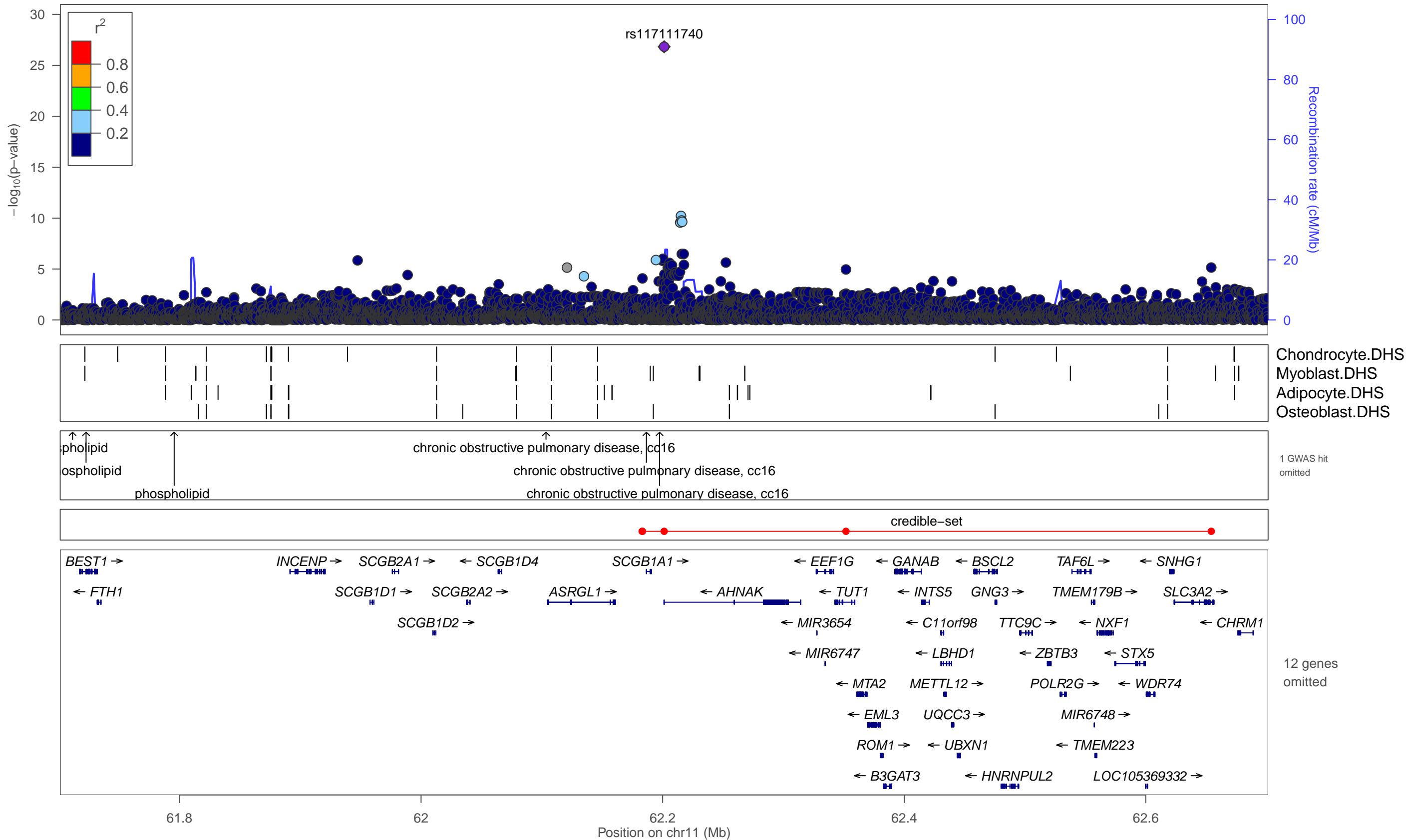
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	61.66369	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174468	EFO_0004639	GCST001179
11	61.66369	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs174468	EFO_0004639	GCST001180
11	61.67875	sphingolipid	Demirkan A	16/02/2012	PLoS Genet	22359512	rs174479	EFO_0004622	GCST001413
11	61.71148	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs2521572	EFO_0004639	GCST001179
11	61.72264	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs1109748	EFO_0004639	GCST001178
11	61.79559	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs11230874	EFO_0004639	GCST001178

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs188563760	11	61.26224	2.1372	credible-set	red
rs102275	11	61.55780	2.0715	credible-set	red
rs174538	11	61.56008	2.4159	credible-set	red
rs57668028	11	61.59199	2.4411	credible-set	red
rs174566	11	61.59236	2.4244	credible-set	red
rs174567	11	61.59300	2.3597	credible-set	red
rs99780	11	61.59663	2.1361	credible-set	red
rs174574	11	61.60034	2.6961	credible-set	red
rs174576	11	61.60351	2.1456	credible-set	red
rs174577	11	61.60481	2.4297	credible-set	red
rs174578	11	61.60550	2.2141	credible-set	red
rs174580	11	61.60664	2.1014	credible-set	red
rs174581	11	61.60668	2.1361	credible-set	red
rs112839164	11	61.94745	4.5685	credible-set	red

eBMD SNP INDEX 188



date: Wed Jun 28 21:47:18 2017

build: hg19

display range: chr11:61701239–62701239 [61701239–62701239]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:62201239

number of SNPs plotted: 5634

min P-value: 1.5E-27 [chr11:62201239]

max P-value: 1E0 [chr11:61707645]

omitted Genes: SNORA57, LRRN4CL, HNRNPUL2–BSCL2

omitted Genes: MIR6514, SNORD22, SNORD31

omitted Genes: SNORD30, SNORD29, SNORD28

omitted Genes: SNORD27, SNORD26, SNORD25

omitted GWAS Hits: NA

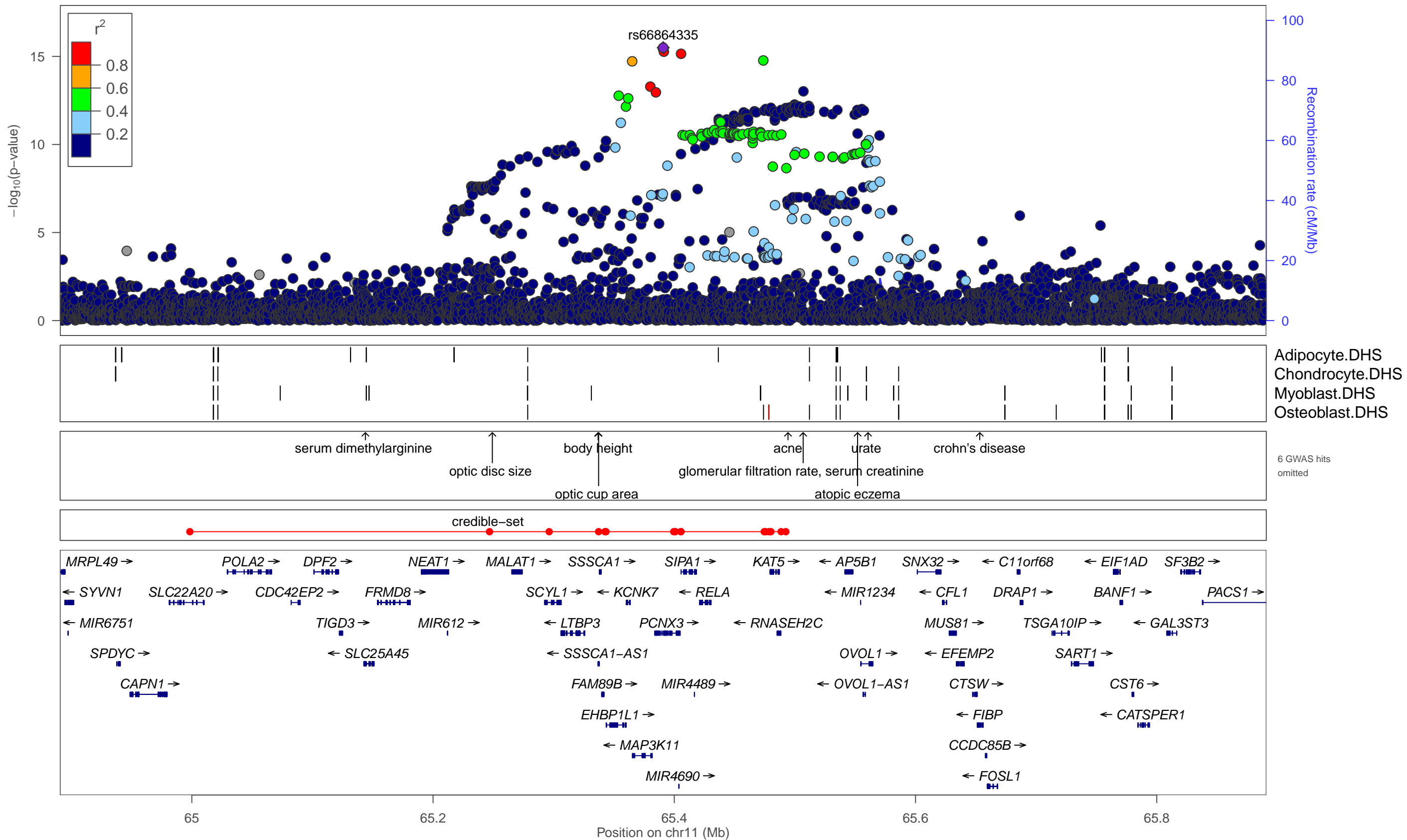
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	61.71148	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs2521572	EFO_0004639	GCST001179
11	61.72264	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs1109748	EFO_0004639	GCST001178
11	61.79559	phospholipid	Lemaitre RN	28/07/2011	PLoS Genet	21829377	rs11230874	EFO_0004639	GCST001178
11	62.10342	chronic obstructive pulmonary disease, cc16	Kim DK	9/11/2012	Am J Respir Crit Care Med	23144326	rs2463822	EFO_0000341, EFO_0005080	GCST001737
11	62.18654	chronic obstructive pulmonary disease, cc16	Kim DK	9/11/2012	Am J Respir Crit Care Med	23144326	rs3741240	EFO_0000341, EFO_0005080	GCST001737
11	62.19743	chronic obstructive pulmonary disease, cc16	Kim DK	9/11/2012	Am J Respir Crit Care Med	23144326	rs2077224	EFO_0000341, EFO_0005080	GCST001737
11	62.19982	chronic obstructive pulmonary disease, cc16	Kim DK	9/11/2012	Am J Respir Crit Care Med	23144326	rs17157266	EFO_0000341, EFO_0005080	GCST001737

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10897270	11	62.18301	2.2405	credible-set	red
rs61893648	11	62.18324	2.8123	credible-set	red
rs117111740	11	62.20124	13.5480	credible-set	red
rs116894604	11	62.35175	2.1399	credible-set	red
rs541744561	11	62.65419	2.3408	credible-set	red

eBMD SNP INDEX 189



date: Wed Jun 28 21:47:30 2017

build: hg19

display range: chr11:64890803–65890803 [64890803–65890803]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:65390803

number of SNPs plotted: 4609

min P-value: 3.2E-16 [chr11:65390803]

max P-value: 1E0 [chr11:64968104]

omitted GWAS Hits: chr11:65.49426–acne, chr11:65.506822–glomerular filtration rate, serum creatinine

omitted GWAS Hits: NA, NA

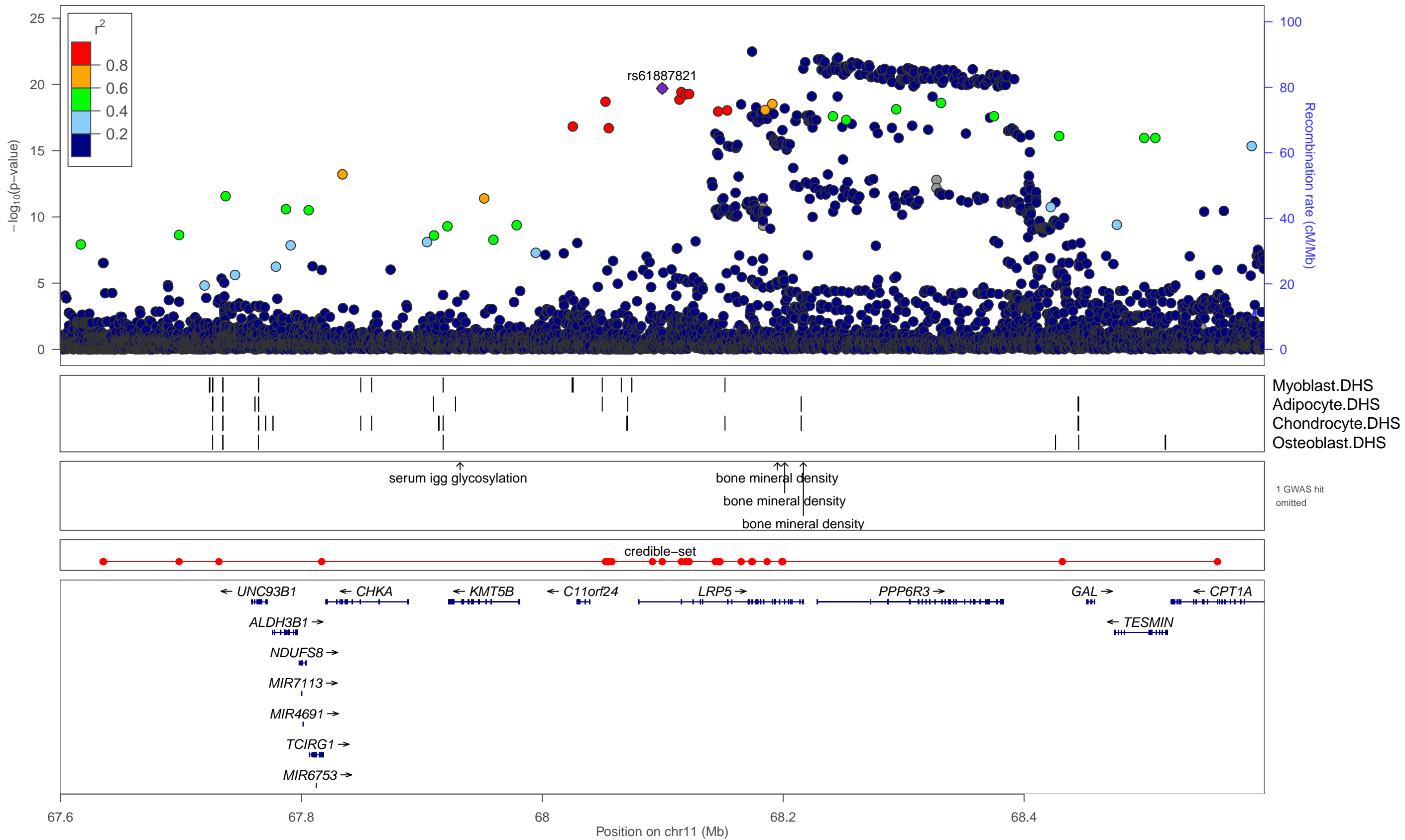
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	65.14389	serum dimethylarginine	Seppala I	24/10/2013	Eur Heart J	24159190	rs34400381	EFO_0005418	GCST002239
11	65.24914	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs17146964	EFO_0004832	GCST000700
11	65.33682	body height	Lango Allen H	29/09/2010	Nature	20881960	rs3782089	EFO_0004339	GCST000817
11	65.33725	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1346	EFO_0006940	GCST002762
11	65.33725	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1346	EFO_0004832	GCST002626
11	65.39132	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs12801636	EFO_0004612	GCST002223
11	65.49426	acne	Navarini AA	13/06/2014	Nat Commun	24927181	rs478304	EFO_0003894	GCST002481
11	65.50682	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs4014195	EFO_0005208, EFO_0004518	GCST003372
11	65.55196	atopic eczema	Paternoster L	19/10/2015	Nat Genet	26482879	rs479844	EFO_0000274	GCST003184
11	65.55196	atopic eczema	Paternoster L	25/12/2011	Nat Genet	22197932	rs479844	EFO_0000274	GCST001363
11	65.55196	atopic march	Marenholz I	6/11/2015	Nat Commun	26542096	rs479844	EFO_0007755	GCST003180
11	65.55927	atopic eczema	Paternoster L	19/10/2015	Nat Genet	26482879	rs10791824	EFO_0000274	GCST003184
11	65.56062	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs642803	EFO_0004531	GCST001791
11	65.58307	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs3903072	EFO_0000305	GCST001937
11	65.65324	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs568617	EFO_0000384	GCST003044
11	65.65656	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs2231884	EFO_0003767	GCST001725

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs138668741	11	64.99838	2.1379	credible-set	red
rs11605273	11	65.24683	2.3233	credible-set	red
rs77461879	11	65.29628	2.3780	credible-set	red
rs1346	11	65.33725	2.2651	credible-set	red
rs5792361	11	65.34248	2.8608	credible-set	red
rs547193816	11	65.34340	3.4850	credible-set	red
rs2009453	11	65.39953	2.9072	credible-set	red
rs6591183	11	65.40089	2.7417	credible-set	red
rs931127	11	65.40530	2.4677	credible-set	red
rs2306363	11	65.40560	2.0098	credible-set	red
rs7930301	11	65.47456	2.0206	credible-set	red
rs9666878	11	65.47582	2.1487	credible-set	red
rs61893835	11	65.47849	2.0598	credible-set	red
rs2236682	11	65.48009	2.2476	credible-set	red
rs12576766	11	65.48856	2.0469	credible-set	red
rs75162774	11	65.49248	2.2731	credible-set	red

eBMD SNP INDEX 190



date: Wed Jun 28 21:47:32 2017

build: hg19

display range: chr11:67599622–68599622 [67599622–68599622]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:68099622

number of SNPs plotted: 6350

min P-value: 3.3E-23 [chr11:68174189]

max P-value: 1E0 [chr11:67622480]

omitted GWAS Hits: NA

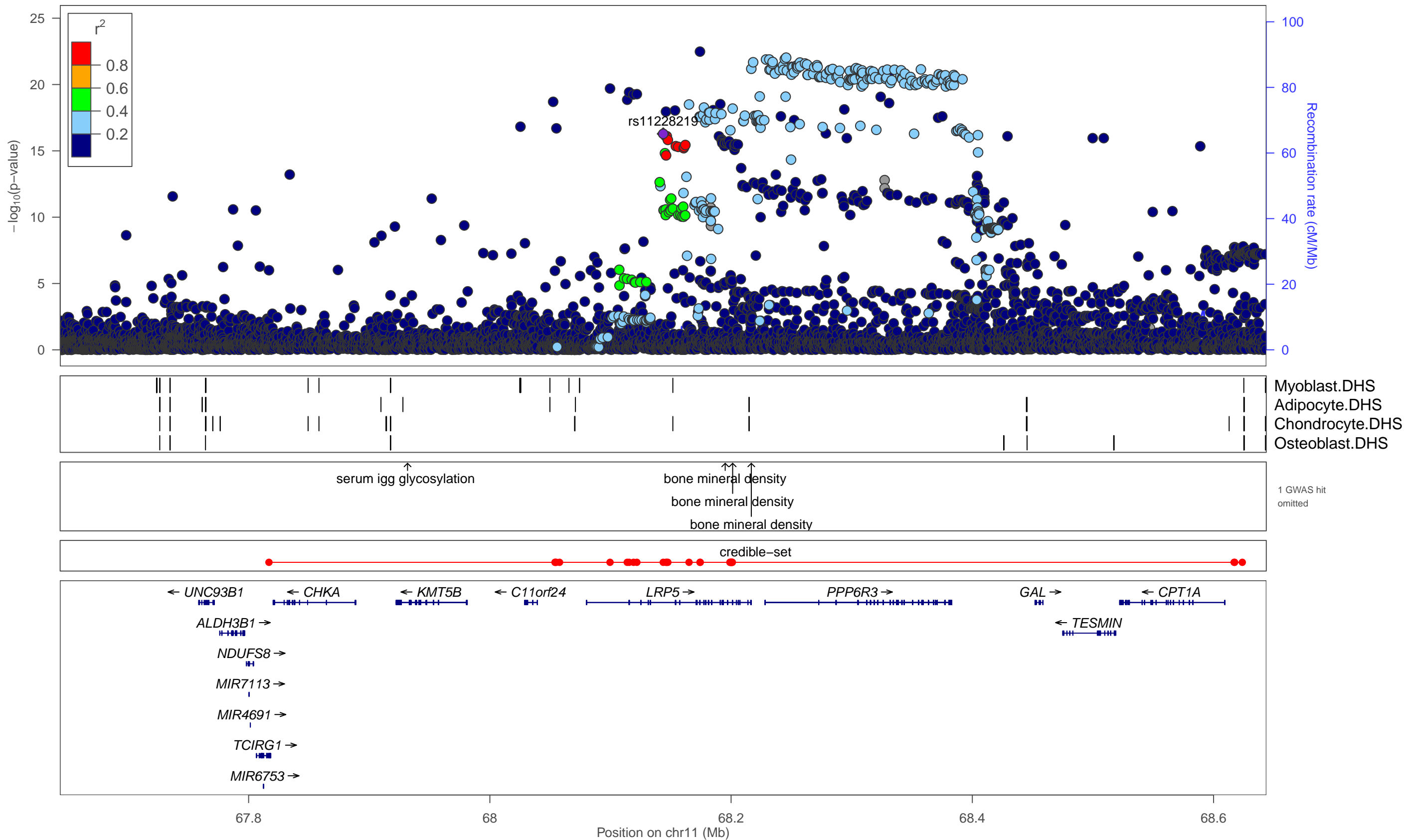
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	67.93176	serum igg glycosylation	Lauc G	31/01/2013	PLoS Genet	23382691	rs4930561	EFO_0005193	GCST001848
11	68.19510	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs525592	EFO_0003923	GCST002276
11	68.20130	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3736228	EFO_0003923	GCST001482
11	68.20130	bone mineral density	Richards JB	29/04/2008	Lancet	18455228	rs3736228	EFO_0003923	GCST000182
11	68.21676	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2291467	EFO_0004339	NA
11	68.26337	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs12272917	EFO_0003923	GCST002493

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs145482395	11	67.63534	2.9850	credible-set	red
rs537164039	11	67.63577	2.9685	credible-set	red
rs186871419	11	67.69844	2.1435	credible-set	red
rs142776817	11	67.73149	2.2620	credible-set	red
rs538810893	11	67.81685	2.6724	credible-set	red
rs61887796	11	68.05248	2.3602	credible-set	red
rs35716174	11	68.05400	2.1496	credible-set	red
rs11228191	11	68.05424	2.0744	credible-set	red
rs12222446	11	68.05502	2.0843	credible-set	red
rs11228192	11	68.05776	3.1344	credible-set	red
rs639469	11	68.09144	2.1573	credible-set	red
rs61887821	11	68.09962	3.7361	credible-set	red
rs41494349	11	68.11549	2.8415	credible-set	red
rs190337333	11	68.11911	2.5484	credible-set	red
rs61887825	11	68.12187	2.5502	credible-set	red
rs11228219	11	68.14372	2.8733	credible-set	red
rs11228221	11	68.14593	2.7688	credible-set	red
rs11826287	11	68.14666	2.7765	credible-set	red
rs8181502	11	68.14756	2.4149	credible-set	red
rs34015784	11	68.16511	3.3847	credible-set	red
rs471966	11	68.17386	2.0924	credible-set	red
rs4988321	11	68.17419	8.7613	credible-set	red
11:68174442_G_GAG	11	68.17444	2.8958	credible-set	red
rs603129	11	68.18667	2.0042	credible-set	red
rs7111370	11	68.19901	2.0298	credible-set	red
rs73516810	11	68.19964	2.7912	credible-set	red
rs562663150	11	68.43182	2.6568	credible-set	red
rs563302972	11	68.56060	2.4876	credible-set	red

eBMD SNP INDEX 191



date: Wed Jun 28 21:47:37 2017

build: hg19

display range: chr11:67643719–68643719 [67643719–68643719]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:68143719

number of SNPs plotted: 6093

min P-value: 3.3E-23 [chr11:68174189]

max P-value: 1E0 [chr11:67645296]

omitted GWAS Hits: NA

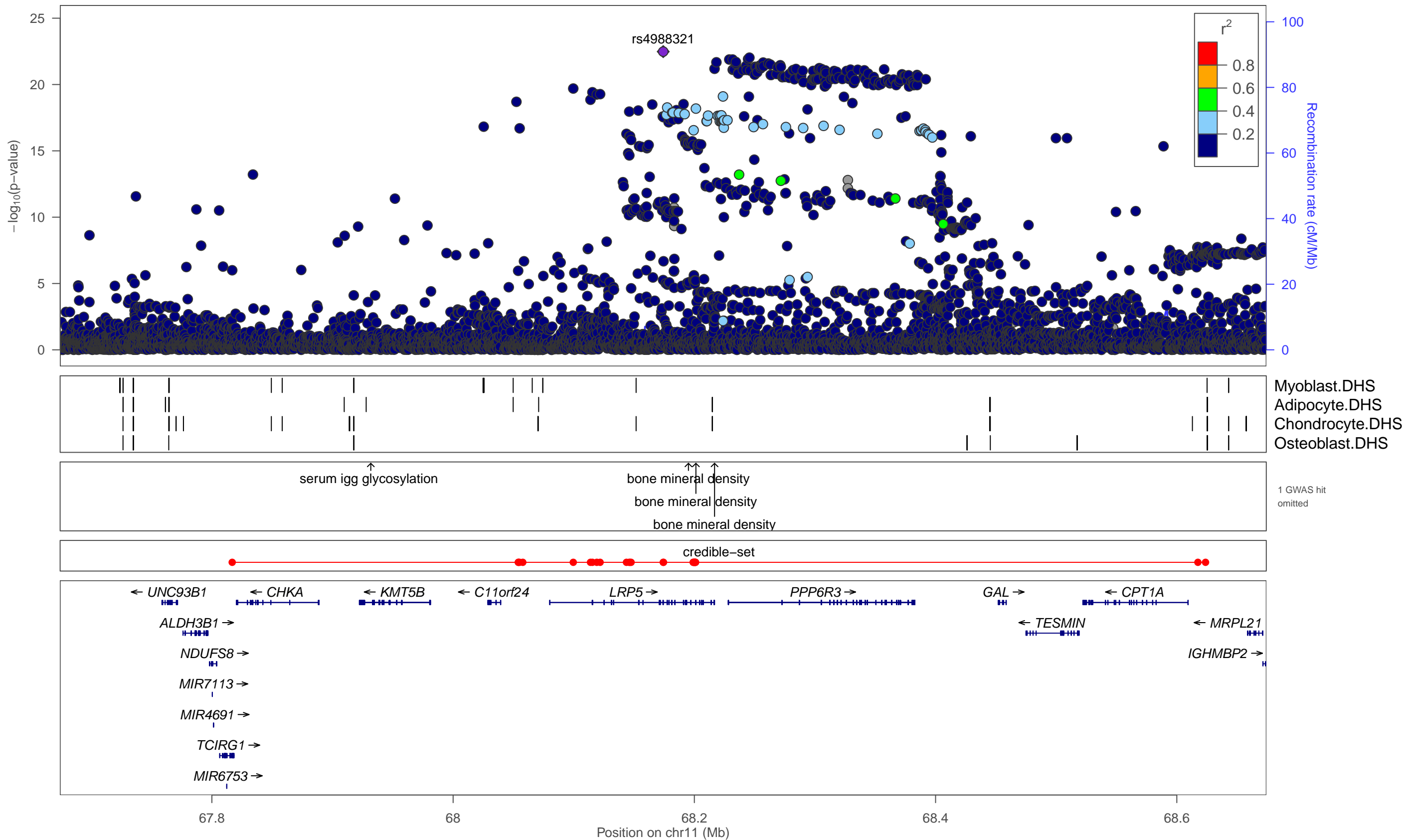
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	67.93176	serum igg glycosylation	Lauc G	31/01/2013	PLoS Genet	23382691	rs4930561	EFO_0005193	GCST001848
11	68.19510	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs525592	EFO_0003923	GCST002276
11	68.20130	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3736228	EFO_0003923	GCST001482
11	68.20130	bone mineral density	Richards JB	29/04/2008	Lancet	18455228	rs3736228	EFO_0003923	GCST000182
11	68.21676	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2291467	EFO_0004339	NA
11	68.26337	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs12272917	EFO_0003923	GCST002493

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs538810893	11	67.81685	2.2937	credible-set	red
rs35716174	11	68.05400	2.3925	credible-set	red
rs11228191	11	68.05424	2.4366	credible-set	red
rs12222446	11	68.05502	2.3899	credible-set	red
rs11228192	11	68.05776	3.9475	credible-set	red
rs61887821	11	68.09962	3.5706	credible-set	red
rs190308998	11	68.11388	2.0366	credible-set	red
rs41494349	11	68.11549	3.0603	credible-set	red
rs190337333	11	68.11911	2.6115	credible-set	red
rs61887825	11	68.12187	2.6522	credible-set	red
rs11228219	11	68.14372	3.1367	credible-set	red
rs11228221	11	68.14593	3.0918	credible-set	red
rs11826287	11	68.14666	3.1655	credible-set	red
rs8181502	11	68.14756	2.6822	credible-set	red
rs34015784	11	68.16511	2.1587	credible-set	red
rs4988321	11	68.17419	13.5833	credible-set	red
11:68174442_G_GAG	11	68.17444	3.2095	credible-set	red
rs7111370	11	68.19901	2.2446	credible-set	red
rs7125942	11	68.19921	2.1195	credible-set	red
rs73516810	11	68.19964	3.2388	credible-set	red
rs12417792	11	68.19992	2.1264	credible-set	red
rs3781584	11	68.20044	2.1358	credible-set	red
rs3781583	11	68.20055	2.1210	credible-set	red
rs12416761	11	68.20095	2.0956	credible-set	red
rs12417014	11	68.20101	2.0756	credible-set	red
rs71465408	11	68.61702	2.0519	credible-set	red
rs371678853	11	68.61748	2.1197	credible-set	red
rs545270384	11	68.62382	3.2984	credible-set	red

eBMD SNP INDEX 192



date: Wed Jun 28 21:47:37 2017

build: hg19

display range: chr11:67674189–68674189 [67674189–68674189]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:68174189

number of SNPs plotted: 5951

min P-value: 3.3E-23 [chr11:68174189]

max P-value: 1E0 [chr11:67674396]

omitted GWAS Hits: NA

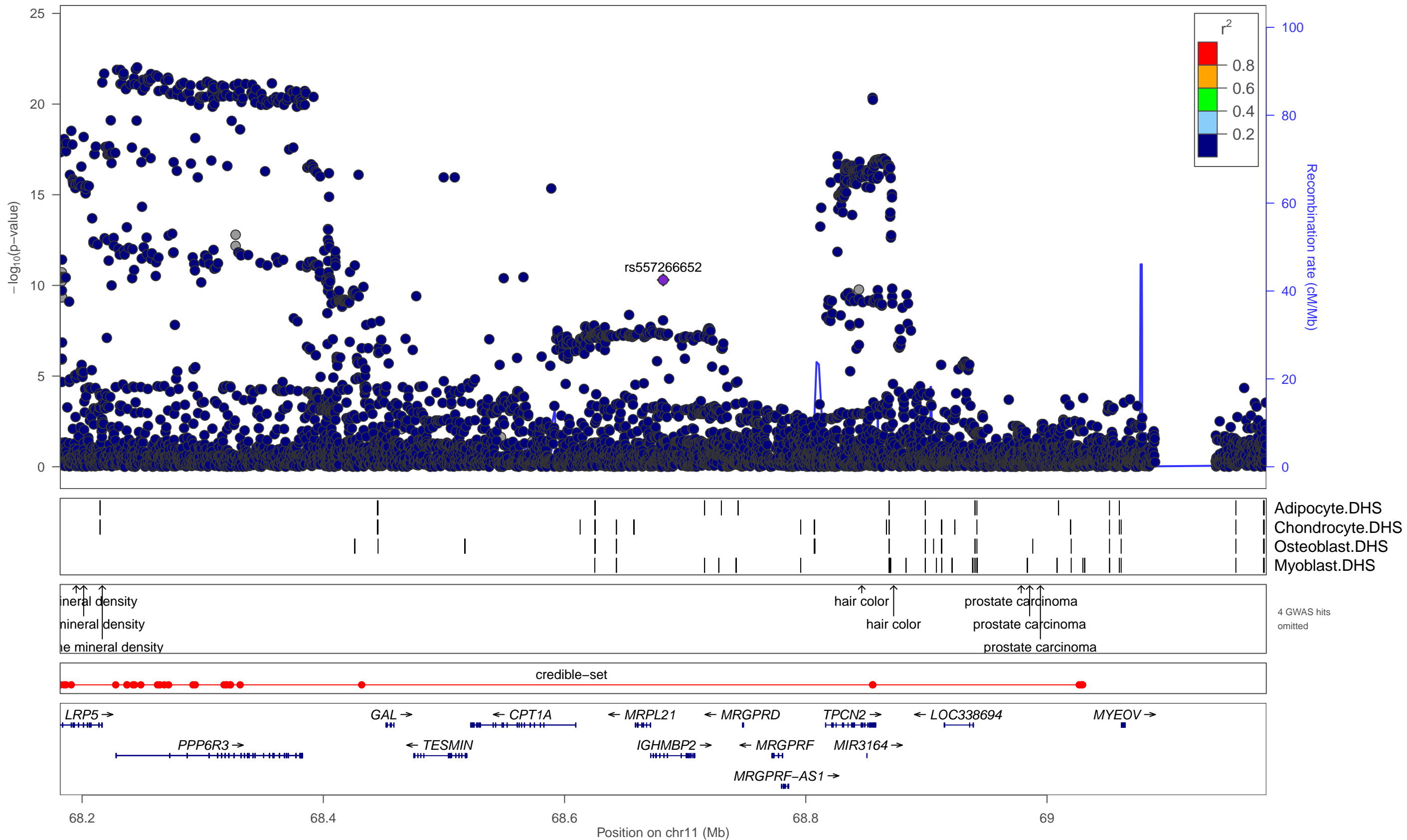
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	67.93176	serum igg glycosylation	Lauc G	31/01/2013	PLoS Genet	23382691	rs4930561	EFO_0005193	GCST001848
11	68.19510	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs525592	EFO_0003923	GCST002276
11	68.20130	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3736228	EFO_0003923	GCST001482
11	68.20130	bone mineral density	Richards JB	29/04/2008	Lancet	18455228	rs3736228	EFO_0003923	GCST000182
11	68.21676	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2291467	EFO_0004339	NA
11	68.26337	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs12272917	EFO_0003923	GCST002493

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs538810893	11	67.81685	2.1913	credible-set	red
rs35716174	11	68.05400	2.4153	credible-set	red
rs11228191	11	68.05424	2.4567	credible-set	red
rs12222446	11	68.05502	2.3601	credible-set	red
rs11228192	11	68.05776	3.9818	credible-set	red
rs61887821	11	68.09962	3.5466	credible-set	red
rs190308998	11	68.11388	2.0066	credible-set	red
rs41494349	11	68.11549	3.0789	credible-set	red
rs190337333	11	68.11911	2.6073	credible-set	red
rs61887825	11	68.12187	2.6516	credible-set	red
rs11228219	11	68.14372	3.1280	credible-set	red
rs11228221	11	68.14593	3.0823	credible-set	red
rs11826287	11	68.14666	3.1713	credible-set	red
rs8181502	11	68.14756	2.6892	credible-set	red
rs4988321	11	68.17419	13.5730	credible-set	red
11:68174442_G_GAG	11	68.17444	3.2135	credible-set	red
rs7111370	11	68.19901	2.2129	credible-set	red
rs7125942	11	68.19921	2.0902	credible-set	red
rs73516810	11	68.19964	3.2679	credible-set	red
rs12417792	11	68.19992	2.1107	credible-set	red
rs3781584	11	68.20044	2.1336	credible-set	red
rs3781583	11	68.20055	2.1100	credible-set	red
rs12416761	11	68.20095	2.0550	credible-set	red
rs12417014	11	68.20101	2.0911	credible-set	red
rs371678853	11	68.61748	2.0219	credible-set	red
rs545270384	11	68.62382	3.1753	credible-set	red

eBMD SNP INDEX 193



date: Wed Jun 28 21:47:36 2017

build: hg19

display range: chr11:68181788–69181788 [68181788–69181788]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:68681788

number of SNPs plotted: 5953

min P-value: 9.4E–23 [chr11:68245648]

max P-value: 1E0 [chr11:68235304]

omitted GWAS Hits: chr11:68.846399–hair color, NA

omitted GWAS Hits: NA

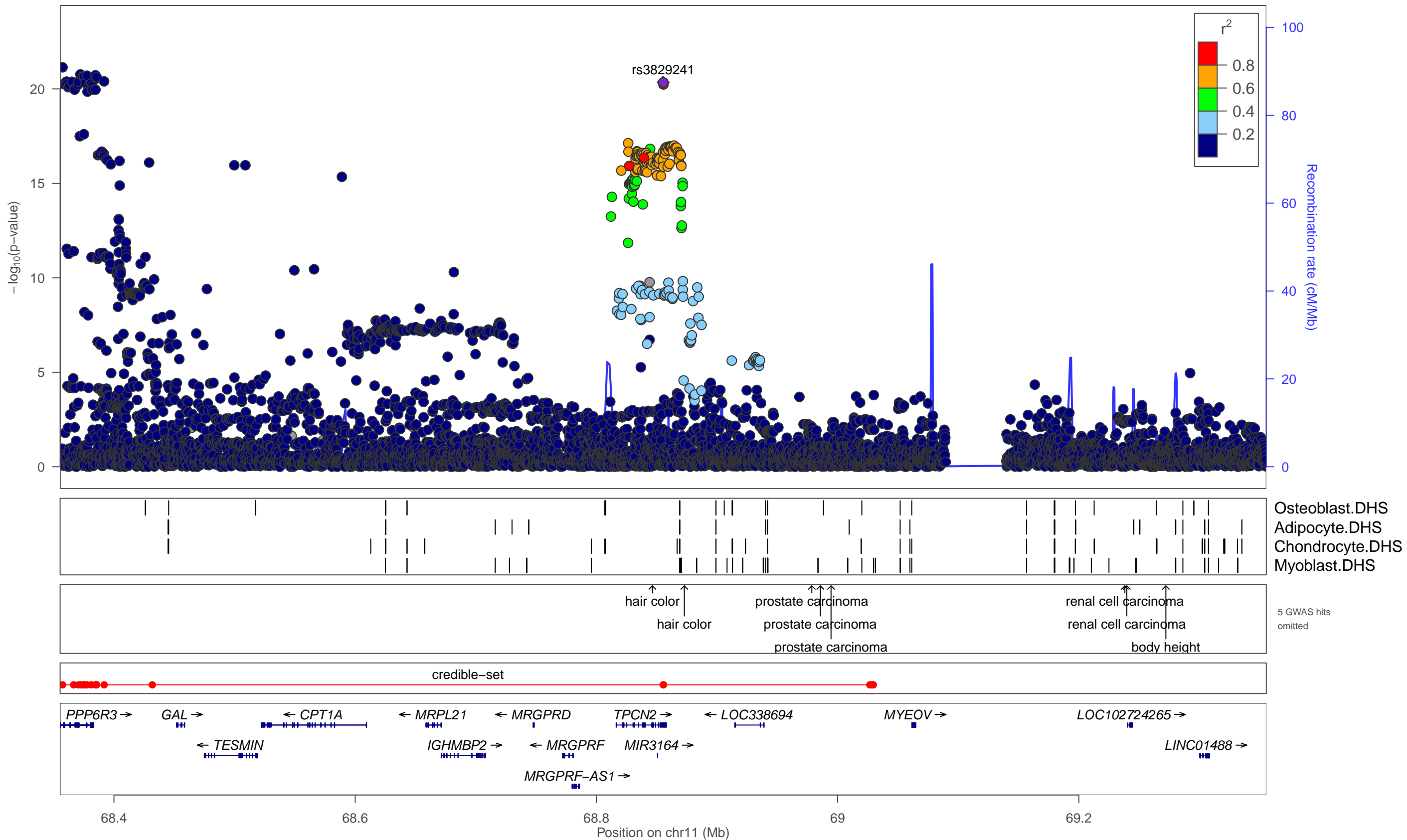
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	68.19510	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs525592	EFO_0003923	GCST002276
11	68.20130	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3736228	EFO_0003923	GCST001482
11	68.20130	bone mineral density	Richards JB	29/04/2008	Lancet	18455228	rs3736228	EFO_0003923	GCST000182
11	68.21676	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2291467	EFO_0004339	NA
11	68.26337	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs12272917	EFO_0003923	GCST002493
11	68.84640	hair color	Sulem P	18/05/2008	Nat Genet	18488028	rs35264875	EFO_0003924	GCST000194
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003021
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003022
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003023
11	68.97858	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs11228565	EFO_0001663	GCST000489
11	68.98558	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs7929962	EFO_0001663	GCST002890
11	68.99450	prostate carcinoma	Eeles RA	10/02/2008	Nat Genet	18264097	rs7931342	EFO_0001663	GCST000152
11	68.99467	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs10896449	EFO_0001663	GCST002944
11	68.99467	prostate carcinoma	Thomas G	10/02/2008	Nat Genet	18264096	rs10896449	EFO_0001663	GCST000154
11	68.99596	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs7130881	EFO_0001663	GCST000488
11	68.99596	prostate carcinoma	Schumacher FR	8/07/2011	Hum Mol Genet	21743057	rs7130881	EFO_0001663	GCST001147
11	69.01169	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs376592364	EFO_0001663	GCST002944

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs314750	11	68.18203	3.4361	credible-set	red
11:68185113_A_C	11	68.18511	2.5847	credible-set	red
rs603129	11	68.18667	3.6832	credible-set	red
rs61889560	11	68.19104	3.3521	credible-set	red
rs11605824	11	68.22785	2.1423	credible-set	red
rs143228039	11	68.23711	3.2506	credible-set	red
rs80087821	11	68.23731	2.0357	credible-set	red
rs116985863	11	68.24220	2.2770	credible-set	red
rs182366314	11	68.24343	2.1894	credible-set	red
rs79872807	11	68.24870	2.1982	credible-set	red
rs10717545	11	68.26252	2.2995	credible-set	red
rs138911993	11	68.26447	2.2614	credible-set	red
rs147148162	11	68.26815	2.3238	credible-set	red
rs200849647	11	68.27171	2.3515	credible-set	red
rs2510395	11	68.29192	2.2044	credible-set	red
rs61889590	11	68.29385	2.5119	credible-set	red
rs7931107	11	68.31764	2.1752	credible-set	red
rs200876560	11	68.31963	2.2547	credible-set	red
rs75334853	11	68.31976	2.2351	credible-set	red
rs115326453	11	68.32283	2.2204	credible-set	red
rs78397944	11	68.32308	2.0645	credible-set	red
rs61889592	11	68.33102	3.3863	credible-set	red
rs562663150	11	68.43182	2.1680	credible-set	red
rs3829241	11	68.85536	3.5227	credible-set	red
rs1060435	11	68.85559	3.5948	credible-set	red
rs12799244	11	69.02667	2.4253	credible-set	red
rs4930272	11	69.02855	2.5053	credible-set	red
rs12797037	11	69.02900	2.5530	credible-set	red
rs35640884	11	69.02953	2.4816	credible-set	red

eBMD SNP INDEX 194



date: Wed Jun 28 21:47:37 2017

build: hg19

display range: chr11:68355363–69355363 [68355363–69355363]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:68855363

number of SNPs plotted: 6206

min P-value: 7.2E-22 [chr11:68357368]

max P-value: 1E0 [chr11:68409069]

omitted GWAS Hits: chr11:69.238123–renal cell carcinoma, chr11:69.239741–renal cell carcinoma

omitted GWAS Hits: NA, NA

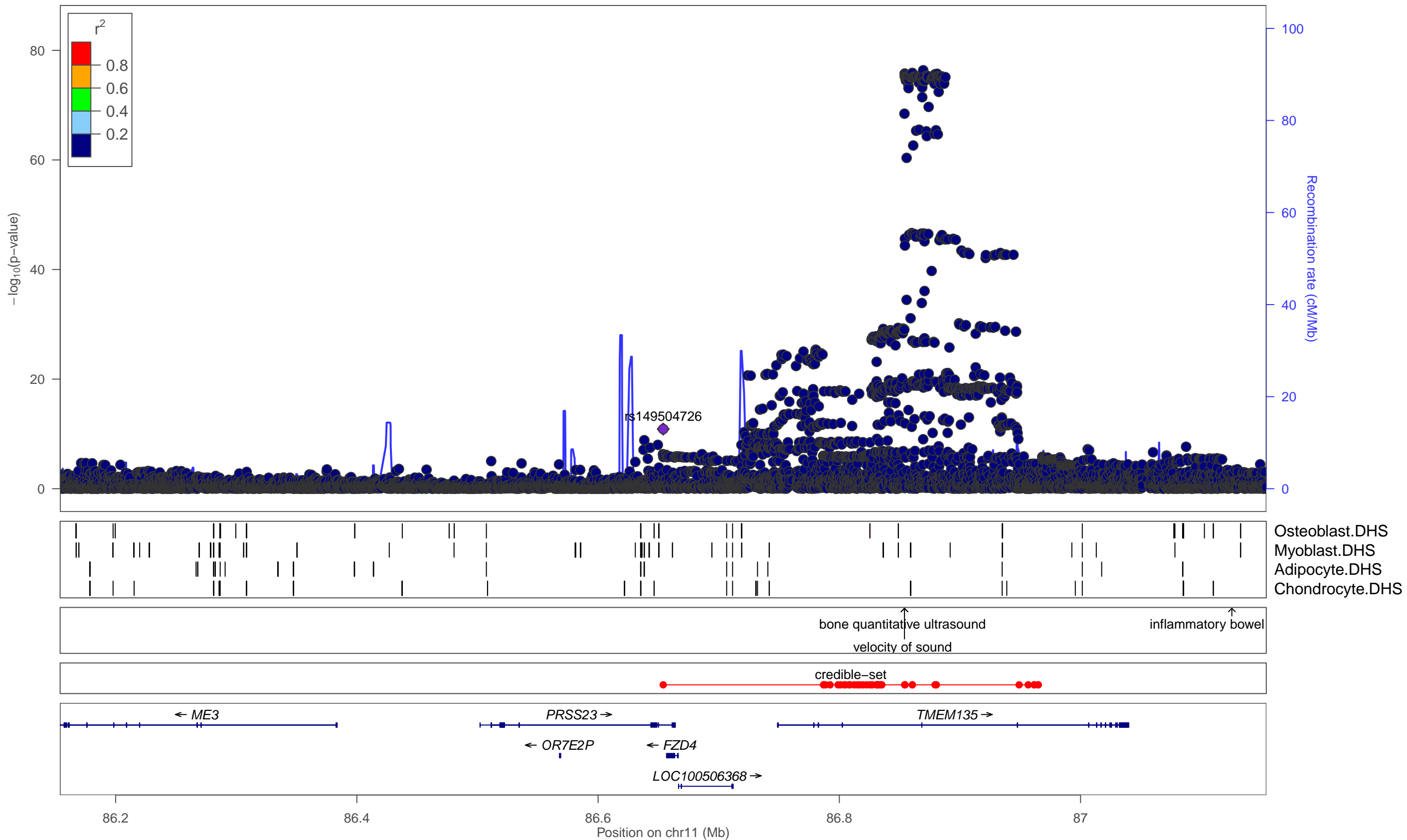
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	68.84640	hair color	Sulem P	18/05/2008	Nat Genet	18488028	rs35264875	EFO_0003924	GCST000194
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003021
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003022
11	68.87284	hair color	Lin BD	13/07/2015	Genes	26184321	rs72930659	EFO_0003924	GCST003023
11	68.97858	prostate carcinoma	Gudmundsson J	20/09/2009	Nat Genet	19767754	rs11228565	EFO_0001663	GCST000489
11	68.98558	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs7929962	EFO_0001663	GCST002890
11	68.99450	prostate carcinoma	Eeles RA	10/02/2008	Nat Genet	18264097	rs7931342	EFO_0001663	GCST000152
11	68.99467	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs10896449	EFO_0001663	GCST002944
11	68.99467	prostate carcinoma	Thomas G	10/02/2008	Nat Genet	18264096	rs10896449	EFO_0001663	GCST000154
11	68.99596	prostate carcinoma	Eeles RA	20/09/2009	Nat Genet	19767753	rs7130881	EFO_0001663	GCST000488
11	68.99596	prostate carcinoma	Schumacher FR	8/07/2011	Hum Mol Genet	21743057	rs7130881	EFO_0001663	GCST001147
11	69.01169	prostate carcinoma	Hoffmann TJ	1/06/2015	Cancer Discov	26034056	rs376592364	EFO_0001663	GCST002944
11	69.23812	renal cell carcinoma	Henrion MY	31/03/2015	PLoS One	25826619	rs11263654	EFO_0000681	GCST002835
11	69.23974	renal cell carcinoma	Purdue MP	5/12/2010	Nat Genet	21131975	rs7105934	EFO_0000681	GCST000907
11	69.27210	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs1938679	EFO_0004339	GCST002702
11	69.30769	breast carcinoma	Ahsan H	3/02/2014	Cancer Epidemiol Biomarkers Prev	24493630	rs537626	EFO_0000305	GCST002346
11	69.32876	breast carcinoma	Ahsan H	3/02/2014	Cancer Epidemiol Biomarkers Prev	24493630	rs614367	EFO_0000305	GCST002346
11	69.32876	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs614367	EFO_0000305	GCST001937
11	69.32876	breast carcinoma	Turnbull C	9/05/2010	Nat Genet	20453838	rs614367	EFO_0000305	GCST000678

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10896348	11	68.35737	3.0389	credible-set	red
rs79262430	11	68.36664	2.1147	credible-set	red
rs140880896	11	68.37060	2.1781	credible-set	red
rs7113287	11	68.37219	2.6215	credible-set	red
rs7107622	11	68.37418	2.4871	credible-set	red
rs79040225	11	68.37507	5.1293	credible-set	red
rs55767696	11	68.37512	2.4862	credible-set	red
rs7104877	11	68.37760	2.5337	credible-set	red
rs60926083	11	68.38122	2.0765	credible-set	red
rs6591346	11	68.38462	2.5428	credible-set	red
rs7116899	11	68.38554	2.3620	credible-set	red
rs7102273	11	68.38558	2.4343	credible-set	red
rs2510384	11	68.39184	2.1974	credible-set	red
rs562663150	11	68.43182	2.2332	credible-set	red
rs3829241	11	68.85536	3.5965	credible-set	red
rs1060435	11	68.85559	3.5630	credible-set	red
rs12799244	11	69.02667	2.3114	credible-set	red
rs4930272	11	69.02855	2.3828	credible-set	red
rs12797037	11	69.02900	2.4463	credible-set	red
rs35640884	11	69.02953	2.3762	credible-set	red

eBMD SNP INDEX 195



date: Wed Jun 28 21:47:39 2017

build: hg19

display range: chr11:86153988–87153988 [86153988–87153988]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:86653988

number of SNPs plotted: 7703

min P-value: 4.3E-77 [chr11:86869577]

max P-value: 1E0 [chr11:86172269]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	86.85400	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0004514	GCST002335
11	86.85400	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0005654	GCST002333
11	87.12544	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs6592362	EFO_0003767	GCST001725

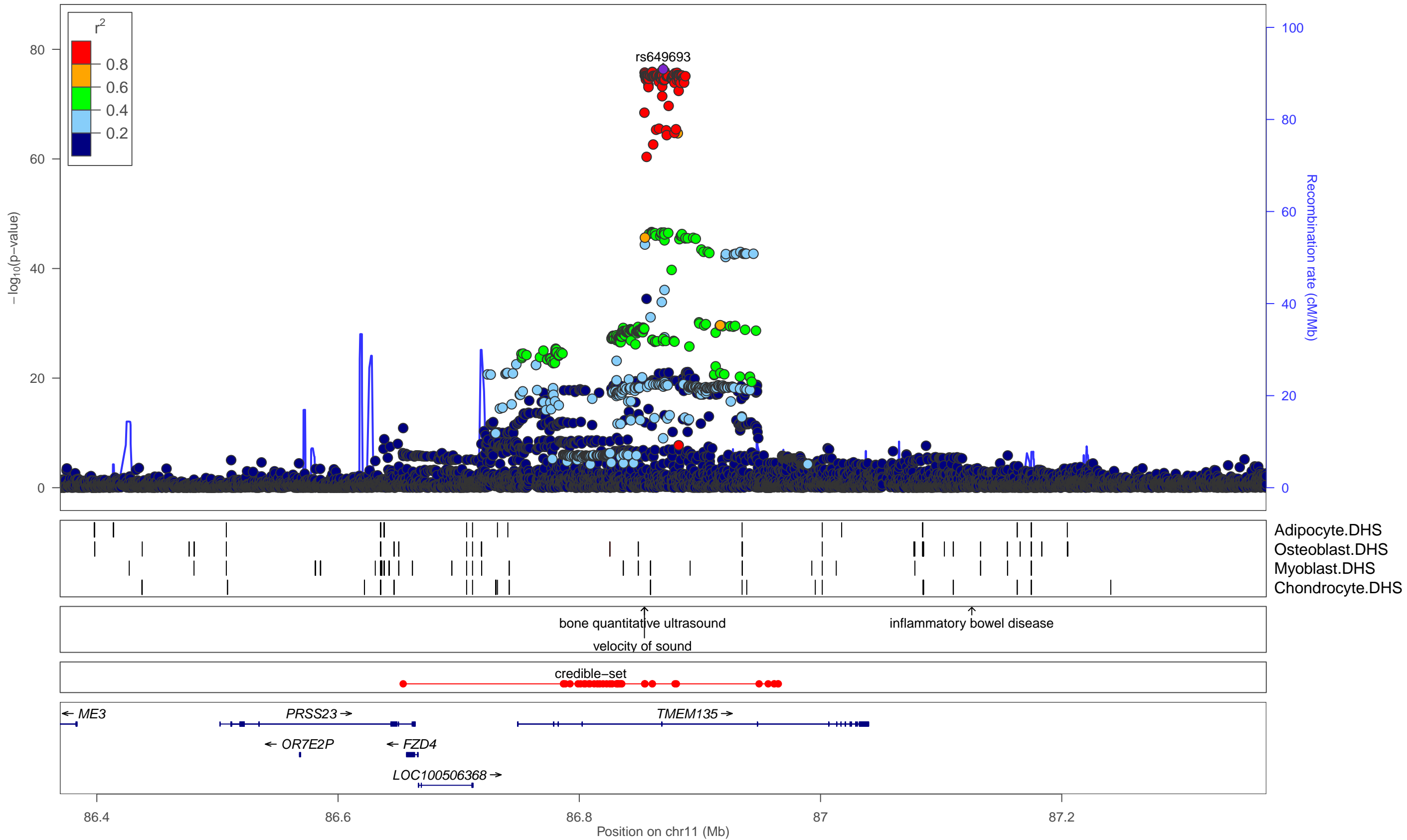
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs149504726	11	86.65399	13.6859	credible-set	red
rs59987242	11	86.78695	2.1719	credible-set	red
rs61566230	11	86.78695	2.2491	credible-set	red
rs2445578	11	86.78843	2.1267	credible-set	red
rs35860099	11	86.79234	2.2199	credible-set	red
rs2513222	11	86.79895	2.8056	credible-set	red
rs2512383	11	86.80099	2.4200	credible-set	red
rs2244970	11	86.80404	2.4307	credible-set	red
rs2512387	11	86.80494	2.2927	credible-set	red
rs34461814	11	86.80804	2.0954	credible-set	red
11:86808763_T_G	11	86.80876	2.6525	credible-set	red
rs2512489	11	86.81233	2.7437	credible-set	red
rs2445546	11	86.81504	2.1765	credible-set	red
rs2512348	11	86.81701	2.6505	credible-set	red
rs2445551	11	86.81971	2.8361	credible-set	red
rs56686948	11	86.82265	2.4324	credible-set	red
rs2445557	11	86.82538	2.1612	credible-set	red
rs12288001	11	86.82723	2.4454	credible-set	red
rs75811353	11	86.83080	3.0362	credible-set	red
rs79851672	11	86.83126	2.3181	credible-set	red
rs112977152	11	86.83134	2.4173	credible-set	red
rs11234974	11	86.83174	2.2585	credible-set	red
rs11821269	11	86.83200	2.1692	credible-set	red
rs11821284	11	86.83210	2.2925	credible-set	red
rs2220472	11	86.83329	3.2212	credible-set	red
rs77616611	11	86.83396	2.3110	credible-set	red
rs61904209	11	86.83502	3.0548	credible-set	red
rs58190299	11	86.83521	2.3537	credible-set	red
rs608533	11	86.85422	2.9719	credible-set	red
rs608870	11	86.85425	2.9906	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs609819	11	86.85451	2.1820	credible-set	red
rs477944	11	86.86051	3.3004	credible-set	red
rs607619	11	86.86055	3.0125	credible-set	red
rs509277	11	86.87934	2.3987	credible-set	red
rs540403	11	86.88046	2.3903	credible-set	red
rs569494	11	86.94906	2.1098	credible-set	red
rs11518775	11	86.95661	2.8986	credible-set	red
rs643937	11	86.96158	2.2501	credible-set	red
rs519308	11	86.96161	2.6049	credible-set	red
rs2509561	11	86.96476	2.2744	credible-set	red
rs2459960	11	86.96499	2.1052	credible-set	red

eBMD SNP INDEX 196



date: Wed Jun 28 21:47:40 2017

build: hg19

display range: chr11:86369577–87369577 [86369577–87369577]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:86869577

number of SNPs plotted: 7840

min P-value: 4.3E-77 [chr11:86869577]

max P-value: 1E0 [chr11:86396234]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	86.85400	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0004514	GCST002335
11	86.85400	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0005654	GCST002333
11	87.12544	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs6592362	EFO_0003767	GCST001725

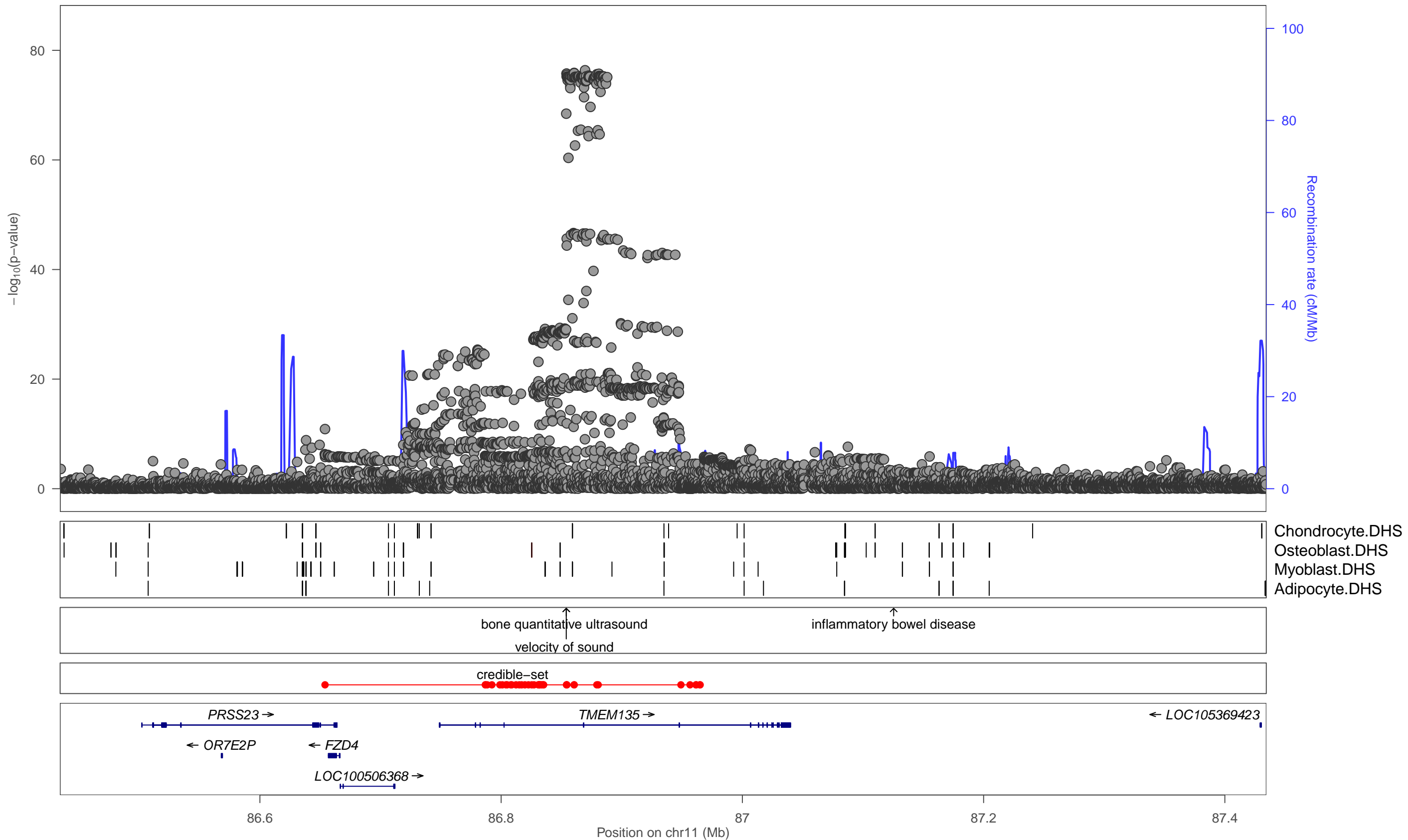
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs149504726	11	86.65399	13.6938	credible-set	red
rs59987242	11	86.78695	2.1271	credible-set	red
rs61566230	11	86.78695	2.2152	credible-set	red
rs2445578	11	86.78843	2.1304	credible-set	red
rs35860099	11	86.79234	2.1869	credible-set	red
rs2513222	11	86.79895	2.7983	credible-set	red
rs2512383	11	86.80099	2.4505	credible-set	red
rs2244970	11	86.80404	2.4402	credible-set	red
rs2512387	11	86.80494	2.3075	credible-set	red
rs34461814	11	86.80804	2.1510	credible-set	red
11:86808763_T_G	11	86.80876	2.6189	credible-set	red
rs2512489	11	86.81233	2.7507	credible-set	red
rs2445546	11	86.81504	2.2064	credible-set	red
rs2512348	11	86.81701	2.6632	credible-set	red
rs2445551	11	86.81971	2.8703	credible-set	red
rs56686948	11	86.82265	2.4749	credible-set	red
rs2445557	11	86.82538	2.0371	credible-set	red
rs12288001	11	86.82723	2.4510	credible-set	red
rs75811353	11	86.83080	3.0485	credible-set	red
rs79851672	11	86.83126	2.3304	credible-set	red
rs112977152	11	86.83134	2.3897	credible-set	red
rs11234974	11	86.83174	2.2624	credible-set	red
rs11821269	11	86.83200	2.1394	credible-set	red
rs11821284	11	86.83210	2.3360	credible-set	red
rs2220472	11	86.83329	3.2355	credible-set	red
rs77616611	11	86.83396	2.3207	credible-set	red
rs61904209	11	86.83502	3.0423	credible-set	red
rs58190299	11	86.83521	2.3401	credible-set	red
rs608533	11	86.85422	2.9610	credible-set	red
rs608870	11	86.85425	2.8999	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs609819	11	86.85451	2.2417	credible-set	red
rs477944	11	86.86051	3.3423	credible-set	red
rs607619	11	86.86055	3.0132	credible-set	red
rs509277	11	86.87934	2.4405	credible-set	red
rs540403	11	86.88046	2.4421	credible-set	red
rs569494	11	86.94906	2.0840	credible-set	red
rs11518775	11	86.95661	2.9250	credible-set	red
rs643937	11	86.96158	2.2923	credible-set	red
rs519308	11	86.96161	2.5839	credible-set	red
rs2509561	11	86.96476	2.2827	credible-set	red
rs2459960	11	86.96499	2.0991	credible-set	red

eBMD SNP INDEX 197



date: Wed Jun 28 21:47:30 2017

build: hg19

display range: chr11:86434374–87434374 [86434374–87434374]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:86934374

number of SNPs plotted: 7881

min P-value: 4.3E-77 [chr11:86869577]

max P-value: 1E0 [chr11:86472301]

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	86.85400	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0004514	GCST002335
11	86.85400	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs597319	EFO_0005654	GCST002333
11	87.12544	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs6592362	EFO_0003767	GCST001725

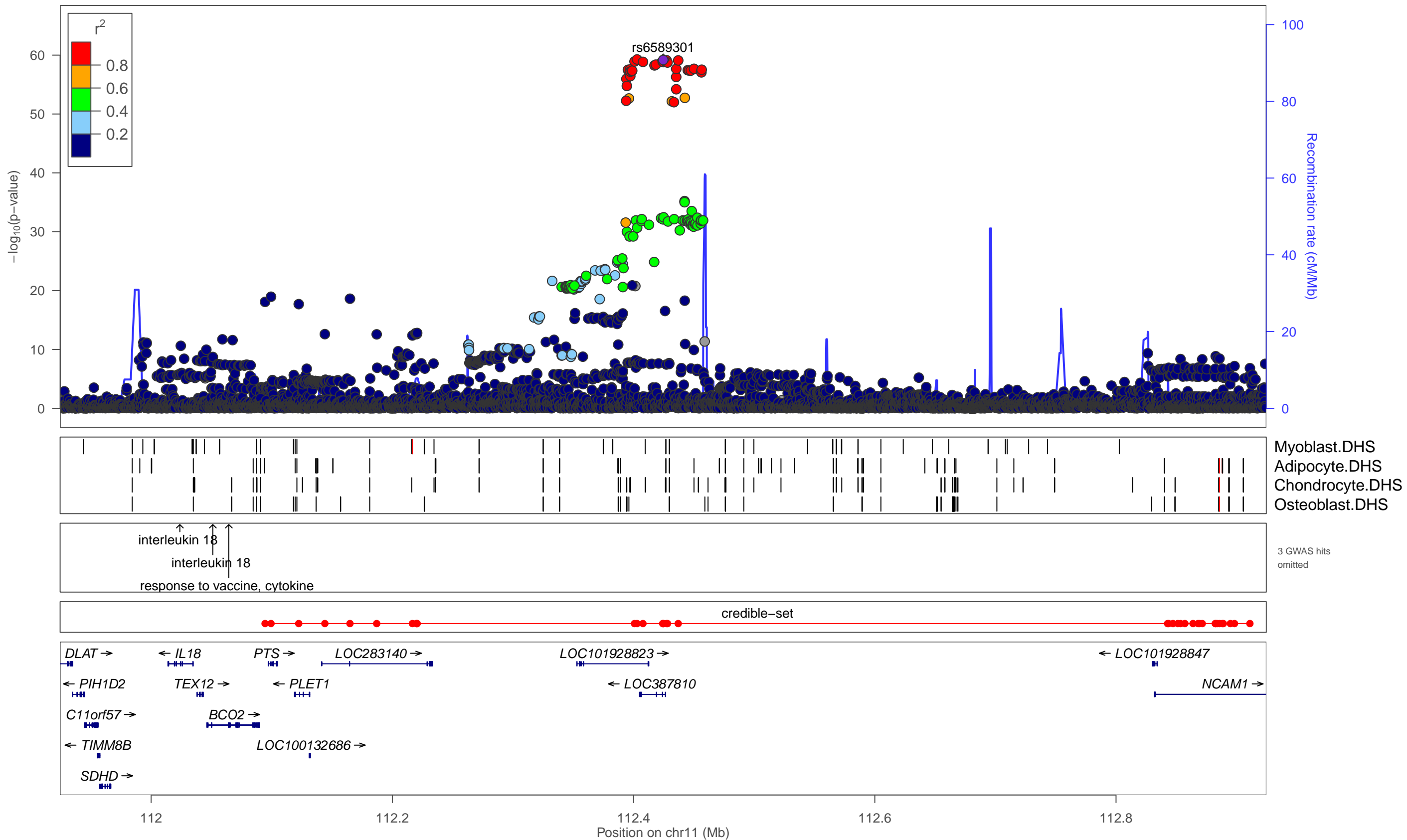
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs149504726	11	86.65399	13.6960	credible-set	red
rs59987242	11	86.78695	2.2000	credible-set	red
rs61566230	11	86.78695	2.2151	credible-set	red
rs2445578	11	86.78843	2.1210	credible-set	red
rs35860099	11	86.79234	2.2273	credible-set	red
rs2513222	11	86.79895	2.8335	credible-set	red
rs2512383	11	86.80099	2.4525	credible-set	red
rs2244970	11	86.80404	2.4528	credible-set	red
rs2512387	11	86.80494	2.3235	credible-set	red
rs34461814	11	86.80804	2.1723	credible-set	red
11:86808763_T_G	11	86.80876	2.6581	credible-set	red
rs2512489	11	86.81233	2.7287	credible-set	red
rs2445546	11	86.81504	2.2139	credible-set	red
rs2512348	11	86.81701	2.6569	credible-set	red
rs2445551	11	86.81971	2.8344	credible-set	red
rs56686948	11	86.82265	2.4306	credible-set	red
rs2445557	11	86.82538	2.0981	credible-set	red
rs12288001	11	86.82723	2.4228	credible-set	red
rs75811353	11	86.83080	3.0477	credible-set	red
rs79851672	11	86.83126	2.3300	credible-set	red
rs112977152	11	86.83134	2.4486	credible-set	red
rs11234974	11	86.83174	2.2817	credible-set	red
rs11821269	11	86.83200	2.1781	credible-set	red
rs11821284	11	86.83210	2.3052	credible-set	red
rs2220472	11	86.83329	3.2332	credible-set	red
rs77616611	11	86.83396	2.3048	credible-set	red
rs61904209	11	86.83502	3.0563	credible-set	red
rs58190299	11	86.83521	2.3487	credible-set	red
rs608533	11	86.85422	2.9816	credible-set	red
rs608870	11	86.85425	2.9918	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs609819	11	86.85451	2.1350	credible-set	red
rs477944	11	86.86051	3.3290	credible-set	red
rs607619	11	86.86055	3.0029	credible-set	red
rs509277	11	86.87934	2.3740	credible-set	red
rs540403	11	86.88046	2.4377	credible-set	red
rs569494	11	86.94906	2.1327	credible-set	red
rs11518775	11	86.95661	2.9189	credible-set	red
rs643937	11	86.96158	2.3061	credible-set	red
rs519308	11	86.96161	2.6148	credible-set	red
rs2509561	11	86.96476	2.2698	credible-set	red
rs2459960	11	86.96499	2.1349	credible-set	red

eBMD SNP INDEX 198



date: Wed Jun 28 21:47:37 2017

build: hg19

display range: chr11:111924565–112924565 [111924565–112924565]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:112424565

number of SNPs plotted: 6129

min P-value: 5.4E-60 [chr11:112402907]

max P-value: 1E0 [chr11:111946279]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	112.0238	interleukin 18	He M	11/02/2010	Arterioscler Thromb Vasc Biol	20150558	rs1834481	EFO_0004581	GCST000590
11	112.0512	interleukin 18	He M	11/02/2010	Arterioscler Thromb Vasc Biol	20150558	rs2115763	EFO_0004581	GCST000590
11	112.0644	response to vaccine, cytokine	Kennedy RB	19/05/2012	Hum Genet	22610502	rs7105056	EFO_0004645, EFO_0004873	GCST001537
11	112.0853	interleukin 18	Melzer D	9/05/2008	PLoS Genet	18464913	rs2250417	EFO_0004581	GCST000189
11	112.0853	interleukin-1 beta	Matteini AM	29/10/2013	Cytokine	24182552	rs2250417	EFO_0004812	GCST002255
11	112.1186	bipolar disorder, response to lithium ion	Song J	27/10/2015	Mol Psychiatry	26503763	rs146727601	EFO_0000289, GO_0010226	GCST003159

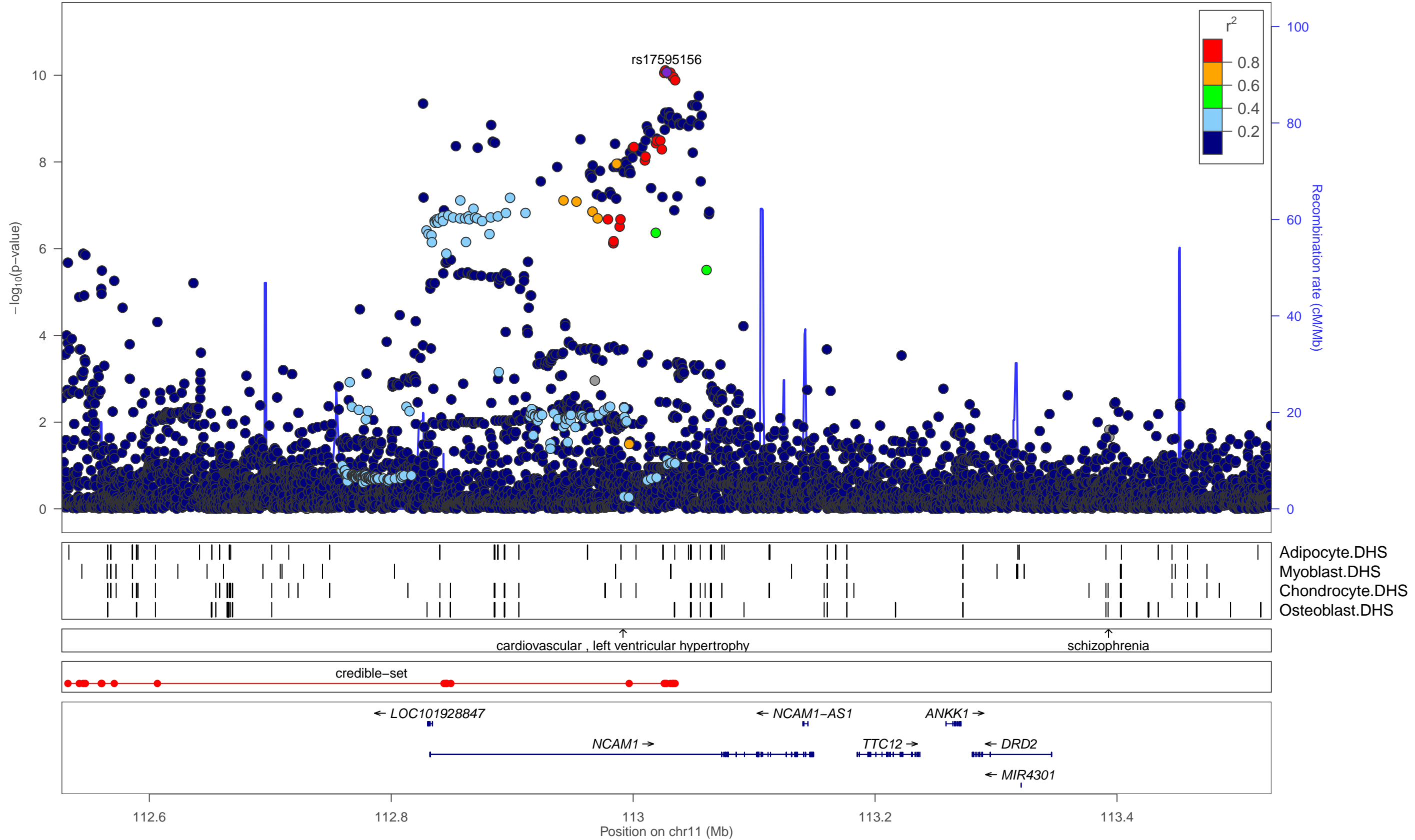
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs975020	11	112.0945	2.1173	credible-set	red
rs3819331	11	112.0994	2.6990	credible-set	red
rs3018469	11	112.1224	2.3082	credible-set	red
rs34550321	11	112.1440	2.2954	credible-set	red
rs34941153	11	112.1649	3.0268	credible-set	red
rs35964301	11	112.1870	2.5668	credible-set	red
rs11214175	11	112.2166	2.2623	credible-set	red
rs4937303	11	112.2199	2.4404	credible-set	red
rs10891349	11	112.2204	2.4477	credible-set	red
rs67552207	11	112.2206	2.5704	credible-set	red
rs1945102	11	112.4008	2.4919	credible-set	red
rs1945114	11	112.4029	3.0256	credible-set	red
rs7947242	11	112.4078	2.4548	credible-set	red
rs7111561	11	112.4241	2.5028	credible-set	red
rs6589301	11	112.4246	2.8099	credible-set	red
rs6589302	11	112.4246	2.3437	credible-set	red
rs7105119	11	112.4274	2.8306	credible-set	red
rs6589303	11	112.4281	2.2579	credible-set	red
rs7121746	11	112.4370	2.7793	credible-set	red
rs10789930	11	112.8427	2.0764	credible-set	red
rs2186708	11	112.8436	2.5629	credible-set	red
rs10789932	11	112.8472	2.1680	credible-set	red
rs7930840	11	112.8512	2.0089	credible-set	red
rs17114644	11	112.8534	2.7493	credible-set	red
rs34255443	11	112.8571	2.6170	credible-set	red
rs11214444	11	112.8638	2.0395	credible-set	red
rs11214447	11	112.8680	2.2782	credible-set	red
rs10891489	11	112.8693	2.0361	credible-set	red
rs78583843	11	112.8715	2.6311	credible-set	red
rs10789935	11	112.8823	2.0236	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs199767746	11	112.8826	3.5802	credible-set	red
rs200764173	11	112.8839	2.6963	credible-set	red
rs1940730	11	112.8858	2.8273	credible-set	red
rs17114682	11	112.8881	2.0683	credible-set	red
rs11316364	11	112.8889	2.4922	credible-set	red
rs79960639	11	112.8948	2.1523	credible-set	red
rs10891491	11	112.8982	2.6760	credible-set	red
rs12574688	11	112.9110	2.1968	credible-set	red

eBMD SNP INDEX 199



date: Wed Jun 28 21:47:37 2017

build: hg19

display range: chr11:112527641–113527641 [112527641–113527641]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:113027641

number of SNPs plotted: 6296

min P-value: 7.7E-11 [chr11:113026579]

max P-value: 1E0 [chr11:112589716]

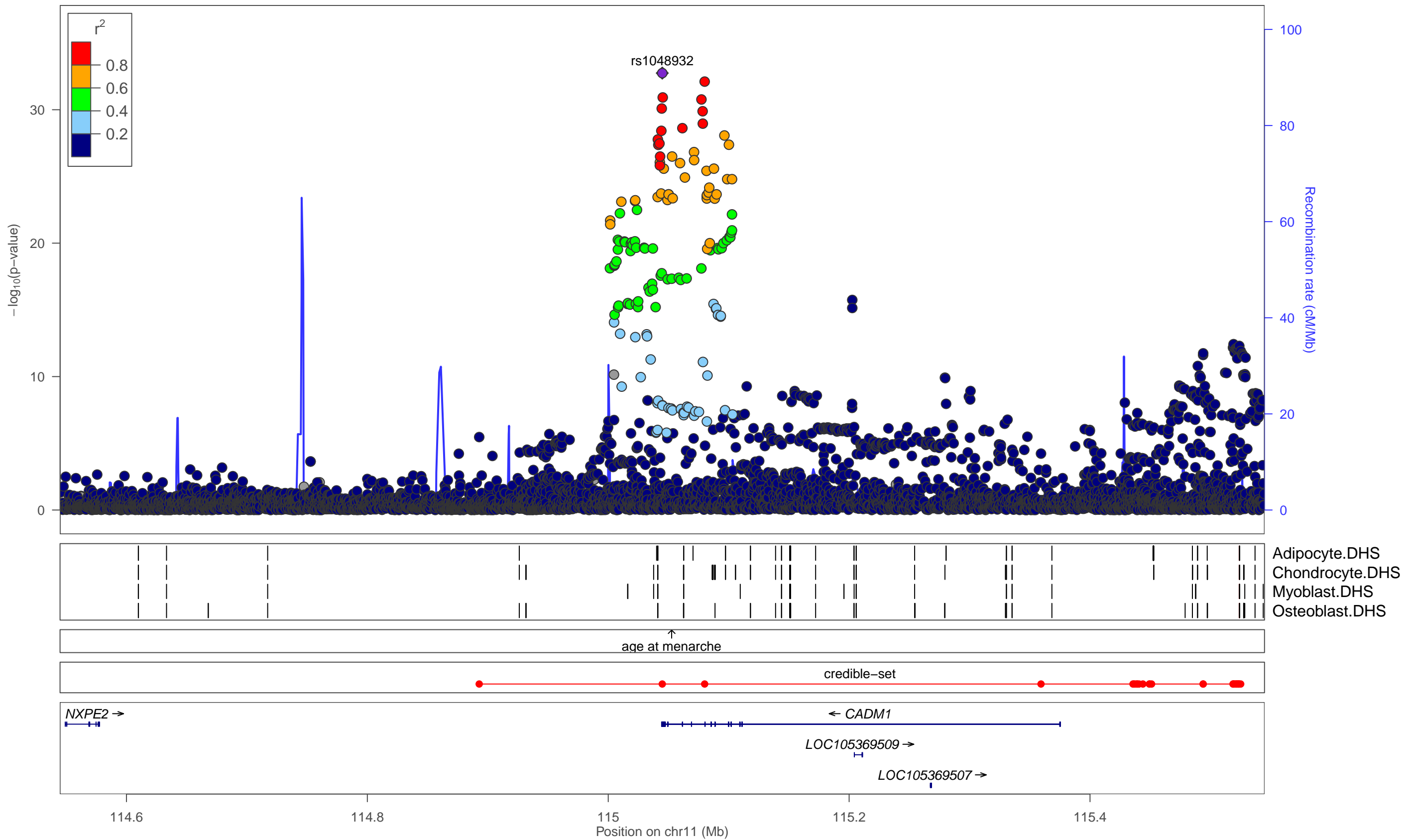
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	112.9916	cardiovascular , left ventricular hypertrophy	Arnett DK	6/01/2011	Circ Res	21212386	rs1436109	EFO_0004298, EFO_0003896	GCST000936
11	113.3930	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs2514218	EFO_0000692	GCST003048
11	113.3930	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs2514218	EFO_0000692	GCST002539

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72993810	11	112.5327	2.8198	credible-set	red
rs61901226	11	112.5421	2.3413	credible-set	red
rs56405874	11	112.5454	3.0732	credible-set	red
rs72993819	11	112.5471	3.0403	credible-set	red
rs10789908	11	112.5603	2.2606	credible-set	red
rs10750008	11	112.5605	2.1636	credible-set	red
rs10750009	11	112.5608	2.6272	credible-set	red
rs117788284	11	112.5710	3.0963	credible-set	red
rs117312051	11	112.6067	2.0900	credible-set	red
rs2186708	11	112.8436	3.7534	credible-set	red
rs56774859	11	112.8450	2.0869	credible-set	red
rs7944570	11	112.8456	2.1263	credible-set	red
rs10502162	11	112.8461	2.1405	credible-set	red
rs17583142	11	112.8493	2.1726	credible-set	red
rs2362213	11	112.9967	4.9320	credible-set	red
rs80254943	11	113.0257	2.9426	credible-set	red
rs79919860	11	113.0266	3.0149	credible-set	red
rs17595156	11	113.0276	2.9202	credible-set	red
rs78133861	11	113.0308	2.9565	credible-set	red
rs75797378	11	113.0327	2.6318	credible-set	red
rs17510563	11	113.0332	2.6219	credible-set	red
rs80327551	11	113.0347	2.3870	credible-set	red

eBMD SNP INDEX 200



date: Wed Jun 28 21:46:01 2017

build: hg19

display range: chr11:114544850–115544850 [114544850–115544850]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:115044850

number of SNPs plotted: 5526

min P-value: 1.8E-33 [chr11:115044850]

max P-value: 1E0 [chr11:114595001]

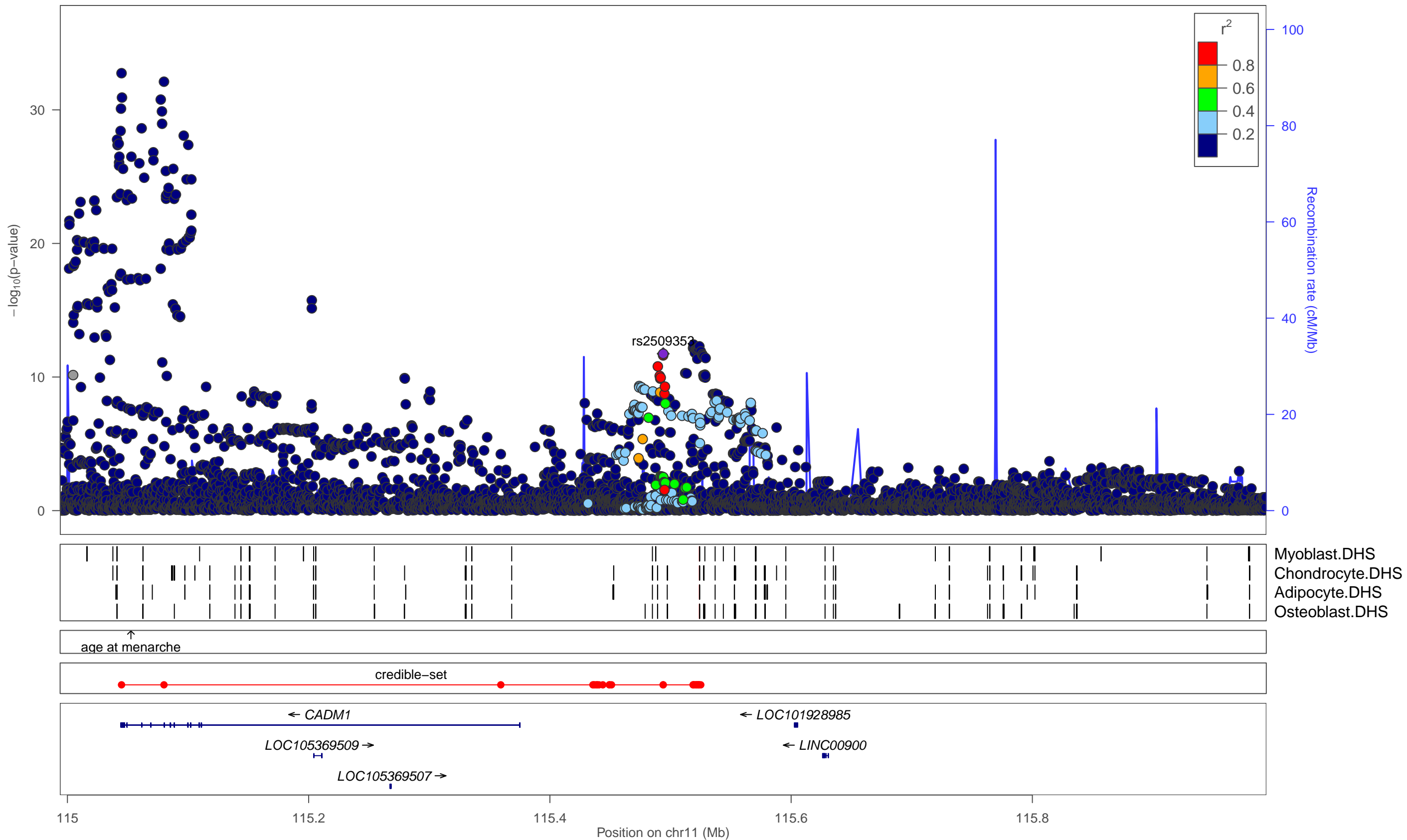
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	115.0526	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs11215400	EFO_0004703	GCST002541

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs150956990	11	114.8929	2.4329	credible-set	red
rs1048932	11	115.0448	4.2565	credible-set	red
rs7125361	11	115.0800	2.7815	credible-set	red
rs545156007	11	115.3593	2.2136	credible-set	red
rs59988589	11	115.4357	2.5588	credible-set	red
rs61536488	11	115.4363	2.5093	credible-set	red
rs12279683	11	115.4374	2.4101	credible-set	red
rs11215599	11	115.4389	2.6354	credible-set	red
rs60893370	11	115.4393	2.7377	credible-set	red
rs76544546	11	115.4407	2.4645	credible-set	red
rs12291124	11	115.4439	2.5805	credible-set	red
rs11215603	11	115.4493	2.4358	credible-set	red
rs146845538	11	115.4494	2.3560	credible-set	red
rs59042267	11	115.4511	2.0334	credible-set	red
rs2509354	11	115.4939	2.2789	credible-set	red
rs2509353	11	115.4939	2.4197	credible-set	red
rs1698196	11	115.5187	2.4236	credible-set	red
rs1698195	11	115.5190	2.5185	credible-set	red
rs1698194	11	115.5192	2.6649	credible-set	red
rs1698192	11	115.5202	2.0650	credible-set	red
rs58932867	11	115.5209	2.2858	credible-set	red
rs1698157	11	115.5217	2.3552	credible-set	red
rs1785013	11	115.5219	2.2002	credible-set	red
rs1785011	11	115.5226	2.3190	credible-set	red
rs1698178	11	115.5233	2.4180	credible-set	red
rs1698182	11	115.5234	2.2843	credible-set	red
rs1698185	11	115.5239	2.5393	credible-set	red
rs1698206	11	115.5251	2.1917	credible-set	red

eBMD SNP INDEX 201



date: Wed Jun 28 21:47:43 2017

build: hg19

display range: chr11:114993947–115993947 [114993947–115993947]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:115493947

number of SNPs plotted: 5534

min P-value: 1.8E-33 [chr11:115044850]

max P-value: 1E0 [chr11:115007146]

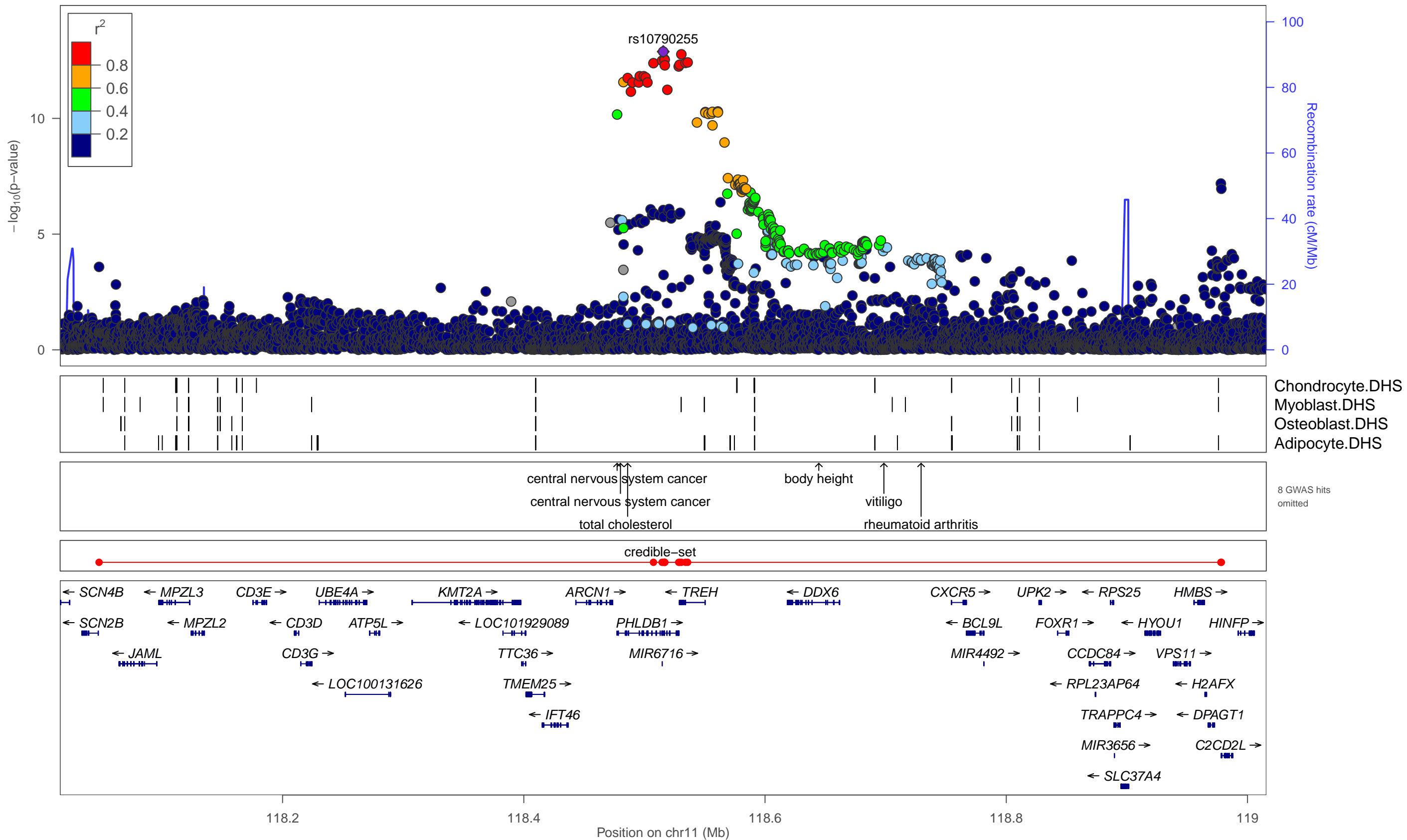
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	115.0526	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs11215400	EFO_0004703	GCST002541

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1048932	11	115.0448	4.2653	credible-set	red
rs7125361	11	115.0800	2.7739	credible-set	red
rs545156007	11	115.3593	2.2129	credible-set	red
rs59988589	11	115.4357	2.5654	credible-set	red
rs61536488	11	115.4363	2.5114	credible-set	red
rs12279683	11	115.4374	2.4054	credible-set	red
rs11215599	11	115.4389	2.6458	credible-set	red
rs60893370	11	115.4393	2.7451	credible-set	red
rs76544546	11	115.4407	2.4666	credible-set	red
rs12291124	11	115.4439	2.5853	credible-set	red
rs11215603	11	115.4493	2.4443	credible-set	red
rs146845538	11	115.4494	2.3620	credible-set	red
rs59042267	11	115.4511	2.0315	credible-set	red
rs2509354	11	115.4939	2.2526	credible-set	red
rs2509353	11	115.4939	2.4122	credible-set	red
rs1698196	11	115.5187	2.4266	credible-set	red
rs1698195	11	115.5190	2.5198	credible-set	red
rs1698194	11	115.5192	2.6662	credible-set	red
rs1698192	11	115.5202	2.0647	credible-set	red
rs58932867	11	115.5209	2.2943	credible-set	red
rs1698157	11	115.5217	2.3576	credible-set	red
rs1785013	11	115.5219	2.2042	credible-set	red
rs1785011	11	115.5226	2.3206	credible-set	red
rs1698178	11	115.5233	2.4222	credible-set	red
rs1698182	11	115.5234	2.2855	credible-set	red
rs1698185	11	115.5239	2.5435	credible-set	red
rs1698206	11	115.5251	2.1874	credible-set	red

eBMD SNP INDEX 202



date: Wed Jun 28 21:47:43 2017

build: hg19

display range: chr11:118015579–119015579 [118015579–119015579]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:118515579

number of SNPs plotted: 5557

min P-value: 1.3E-13 [chr11:118515579]

max P-value: 1E0 [chr11:118143954]

omitted GWAS Hits: chr11:118.644582–body height, chr11:118.698537–vitiligo

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

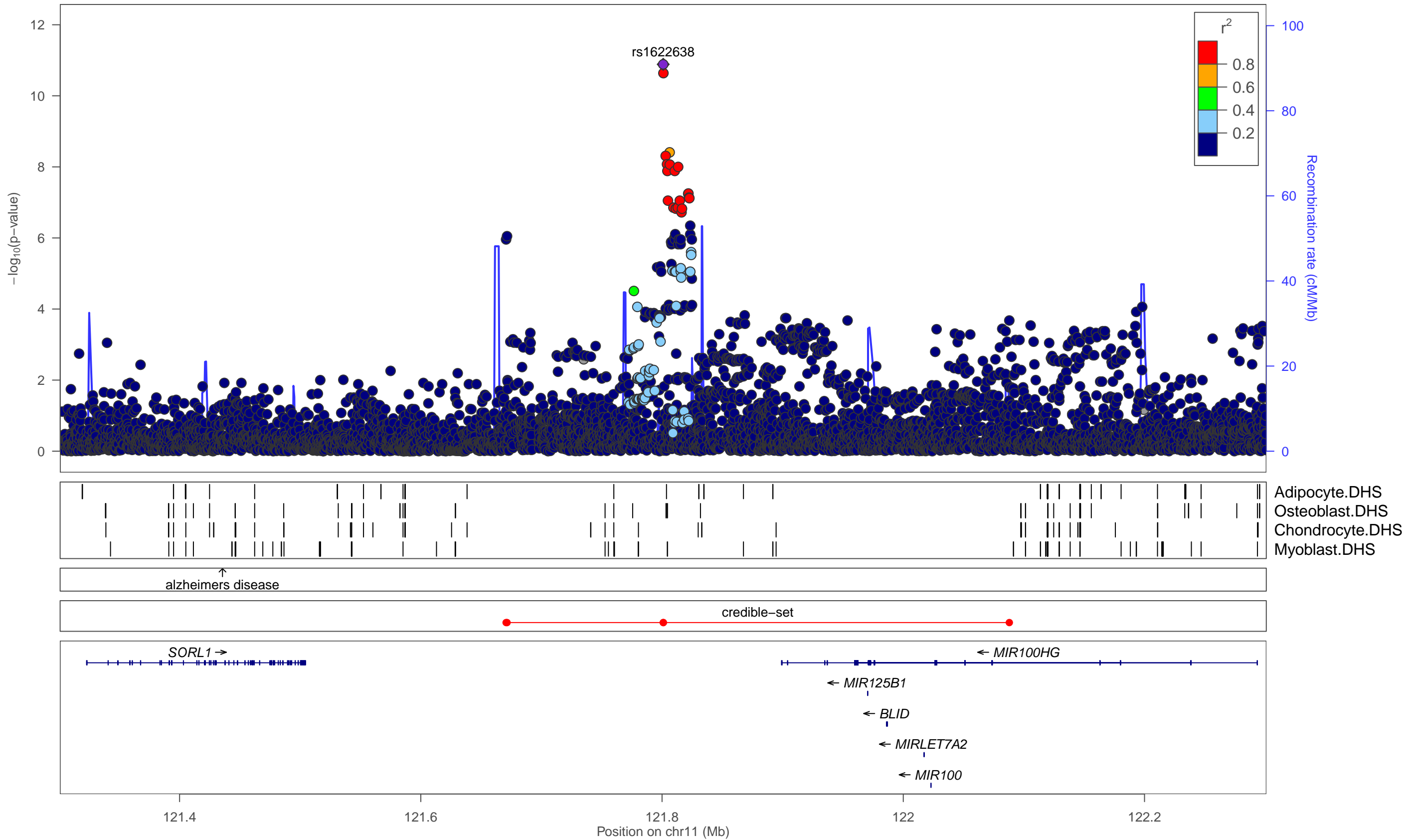
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	118.4774	central nervous system cancer	Sanson M	29/04/2011	Hum Mol Genet	21531791	rs498872	EFO_0000326	GCST001058
11	118.4774	central nervous system cancer	Shete S	5/07/2009	Nat Genet	19578367	rs498872	EFO_0000326	GCST000439
11	118.4801	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs12803321	EFO_0000326	GCST003227
11	118.4801	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs12803321	EFO_0000326	GCST003228
11	118.4861	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs11603023	EFO_0004574	GCST002221
11	118.5496	serum metabolite	Yu B	13/03/2014	PLoS Genet	24625756	rs507080	EFO_0005653	GCST002388
11	118.5735	systemic lupus erythematosus	Han JW	18/10/2009	Nat Genet	19838193	rs4639966	EFO_0002690	GCST000507
11	118.5747	body height	Lango Allen H	29/09/2010	Nature	20881960	rs494459	EFO_0004339	GCST000817
11	118.6118	immune system disease	Zhernakova A	24/02/2011	PLoS Genet	21383967	rs10892279	EFO_0000540	GCST000987
11	118.6446	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2510897	EFO_0004339	GCST002702
11	118.6985	vitiligo	Tang XF	6/09/2012	J Invest Dermatol	22951725	rs638893	EFO_0004208	GCST001670
11	118.7294	rheumatoid arthritis	Okada Y	25/12/2013	Nature	24390342	rs10790268	EFO_0000685	GCST002318
11	118.7418	neoplasm of mature b-cells	Skibola CF	2/10/2014	Am J Hum Genet	25279986	rs4938573	EFO_0000096	GCST002643
11	118.7438	biliary liver cirrhosis	Mells GF	13/03/2011	Nat Genet	21399635	rs6421571	EFO_0004267	GCST001010
11	118.7438	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs6421571	EFO_1001486	GCST003129
11	118.7544	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs630923	EFO_0003767	GCST001725

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs534008463	11	118.0478	2.0859	credible-set	red
rs11216937	11	118.5075	2.2854	credible-set	red
rs11216938	11	118.5146	2.4074	credible-set	red
rs10790255	11	118.5156	3.0165	credible-set	red
rs12362152	11	118.5167	2.4878	credible-set	red
rs12365095	11	118.5168	2.4373	credible-set	red
rs80015904	11	118.5169	2.1901	credible-set	red
rs17748	11	118.5284	2.1372	credible-set	red
rs7928371	11	118.5291	2.2164	credible-set	red
rs2276065	11	118.5306	2.7640	credible-set	red
rs10790256	11	118.5341	2.2997	credible-set	red
rs12225548	11	118.5358	2.3235	credible-set	red
rs6421572	11	118.9779	3.7293	credible-set	red
rs7936924	11	118.9783	3.2961	credible-set	red

eBMD SNP INDEX 203



date: Wed Jun 28 21:47:38 2017

build: hg19

display range: chr11:121300971–122300971 [121300971–122300971]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:121800971

number of SNPs plotted: 5334

min P-value: 1.3E-11 [chr11:121800971]

max P-value: 1E0 [chr11:121310196]

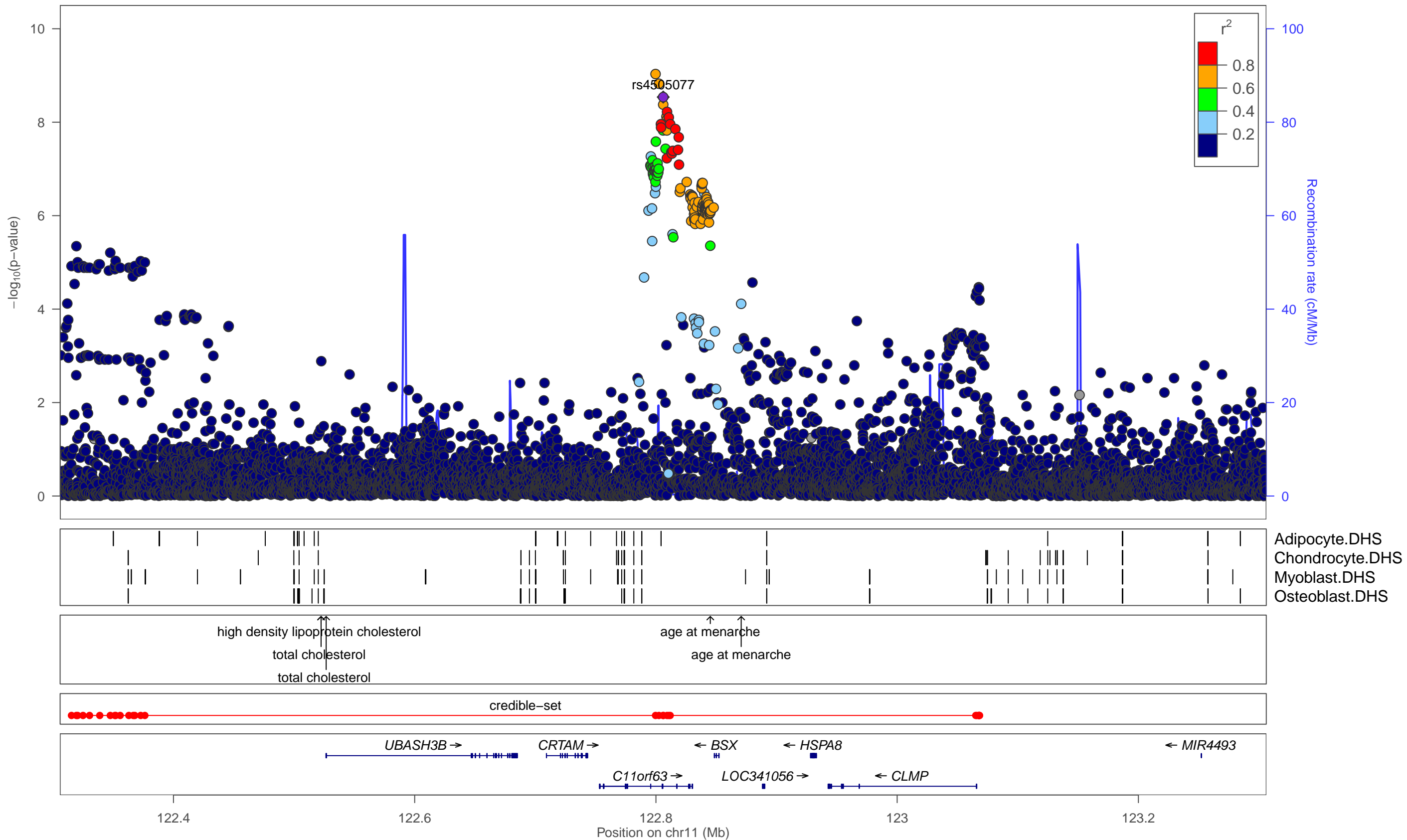
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	121.4356	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs11218343	EFO_0000249	GCST002245
11	121.4356	alzheimers disease	Miyashita A	2/04/2013	PLoS One	23565137	rs11218343	EFO_0000249	GCST001947

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12280388	11	121.6707	3.2458	credible-set	red
rs67575951	11	121.6715	3.1878	credible-set	red
rs1622638	11	121.8010	3.7627	credible-set	red
rs1666658	11	121.8011	3.2729	credible-set	red
rs61682045	11	122.0879	2.1833	credible-set	red

eBMD SNP INDEX 204



date: Wed Jun 28 21:47:39 2017

build: hg19

display range: chr11:122306039–123306039 [122306039–123306039]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr11:122806039

number of SNPs plotted: 6924

min P-value: 9.3E-10 [chr11:122799675]

max P-value: 1E0 [chr11:122349369]

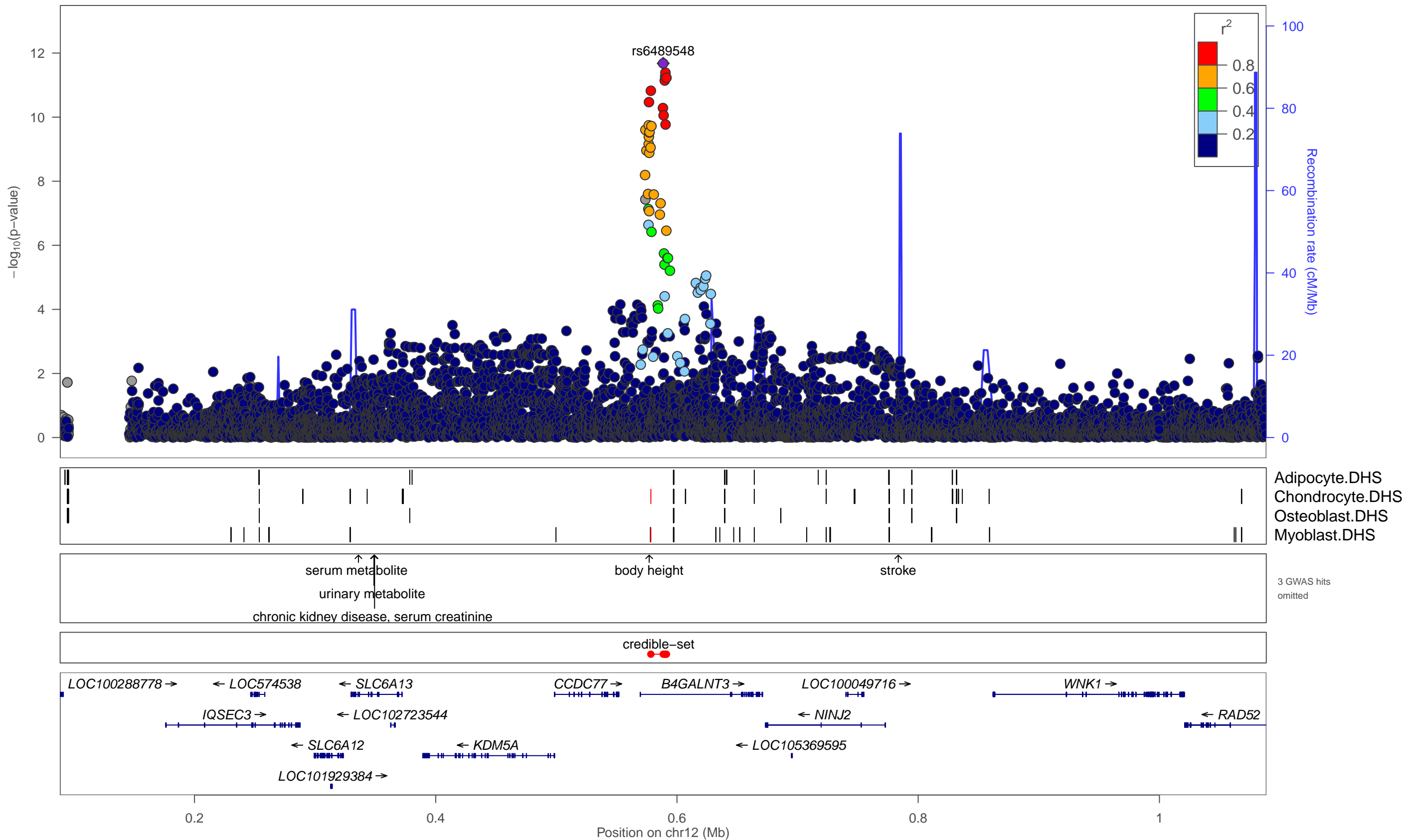
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
11	122.5224	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs7941030	EFO_0004612	GCST000755
11	122.5224	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs7941030	EFO_0004612	GCST002223
11	122.5224	total cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs7941030	EFO_0004574	GCST000760
11	122.5224	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs7941030	EFO_0004574	GCST002221
11	122.5266	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs7128198	EFO_0004574	GCST002896
11	122.8451	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs1461503	EFO_0004703	GCST002541
11	122.8707	age at menarche	Elks CE	21/11/2010	Nat Genet	21102462	rs6589964	EFO_0004703	GCST000880

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs578726	11	122.3155	2.0383	credible-set	red
rs484933	11	122.3195	2.3091	credible-set	red
rs4936692	11	122.3205	2.1317	credible-set	red
rs478150	11	122.3250	2.0393	credible-set	red
rs4936697	11	122.3304	2.0114	credible-set	red
rs2167258	11	122.3389	2.0707	credible-set	red
rs371231344	11	122.3476	2.3681	credible-set	red
rs6589922	11	122.3515	2.0423	credible-set	red
rs1823513	11	122.3520	2.1481	credible-set	red
rs1839555	11	122.3558	2.0092	credible-set	red
rs1975636	11	122.3630	2.0059	credible-set	red
rs2370744	11	122.3667	2.0057	credible-set	red
rs7121378	11	122.3679	2.0300	credible-set	red
rs4936701	11	122.3728	2.1460	credible-set	red
rs34726892	11	122.3763	2.1228	credible-set	red
rs4936763	11	122.7997	3.2943	credible-set	red
rs7119411	11	122.8025	3.0060	credible-set	red
rs4505076	11	122.8060	2.2831	credible-set	red
rs4505077	11	122.8060	2.6713	credible-set	red
rs4259833	11	122.8092	2.3067	credible-set	red
rs11349858	11	122.8107	2.2691	credible-set	red
rs4129007	11	122.8118	2.0671	credible-set	red
rs7927622	11	123.0652	2.2803	credible-set	red
rs4554898	11	123.0661	2.3863	credible-set	red
rs2155572	11	123.0677	2.4747	credible-set	red
rs371224565	11	123.0678	2.4372	credible-set	red
rs56186519	11	123.0678	2.4407	credible-set	red
rs60514087	11	123.0678	2.4344	credible-set	red
rs7946718	11	123.0682	2.2203	credible-set	red
rs7946719	11	123.0682	2.2262	credible-set	red

eBMD SNP INDEX 205



date: Wed Jun 28 21:47:42 2017

build: hg19

display range: chr12:88604–1088604 [88604–1088604]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:588604

number of SNPs plotted: 6993

min P-value: 2.1E-12 [chr12:588604]

max P-value: 1E0 [chr12:1006609]

omitted GWAS Hits: chr12:0.576984–body height, chr12:0.783484–stroke

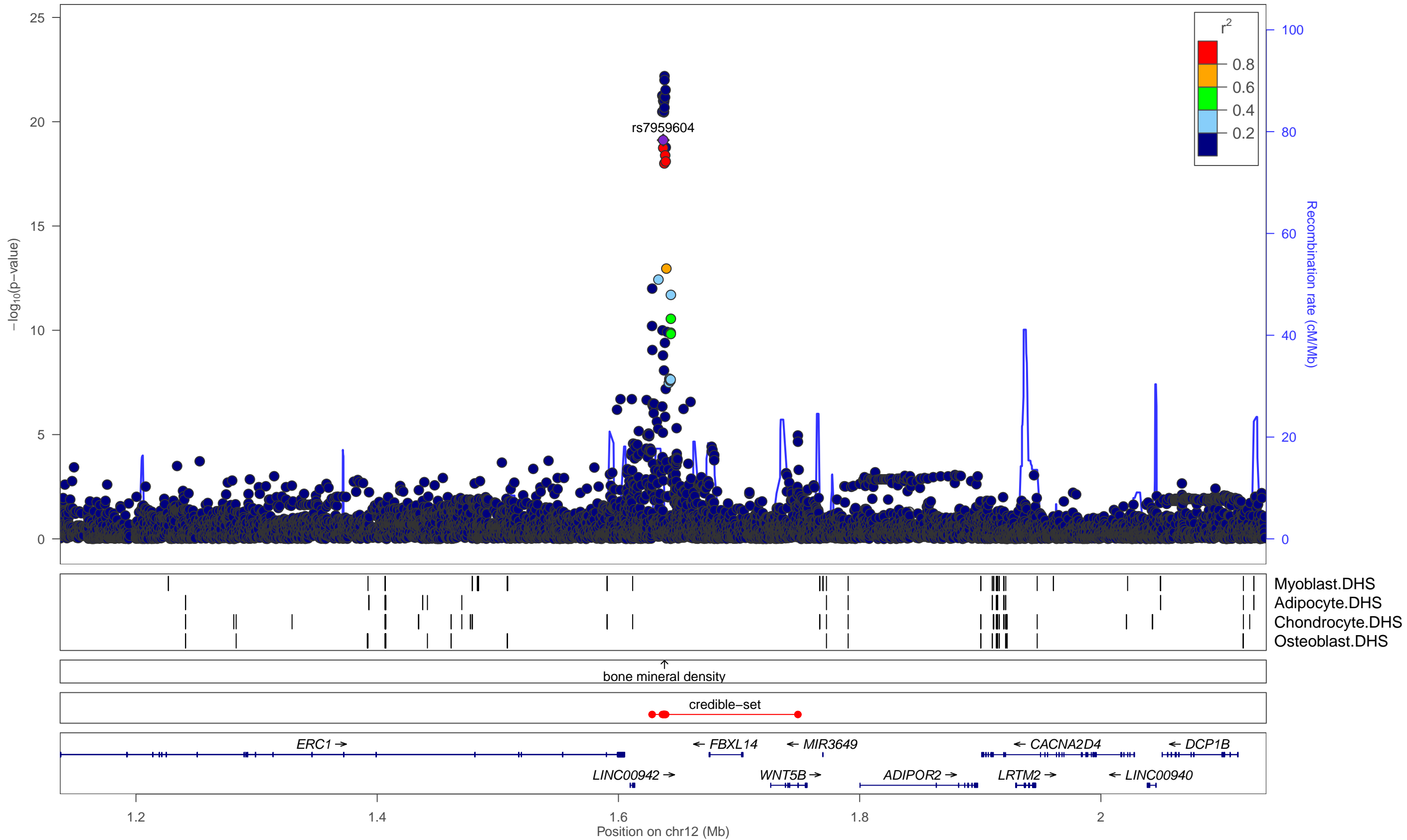
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	0.335922	serum metabolite	Yu B	13/03/2014	PLoS Genet	24625756	rs555044	EFO_0005653	GCST002388
12	0.348785	urinary metabolite	Raffler J	9/09/2015	PLoS Genet	26352407	rs11062102	EFO_0005116	GCST003119
12	0.349298	chronic kidney disease, serum creatinine	Kottgen A	11/04/2010	Nat Genet	20383146	rs10774021	EFO_0003884, EFO_0004518	GCST000649
12	0.349298	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs10774021	EFO_0005208, EFO_0004518	GCST003372
12	0.349298	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs10774021	EFO_0005208, EFO_0004518	GCST003401
12	0.351467	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs11613331	EFO_0005664	GCST002443
12	0.355842	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs7969761	EFO_0005664	GCST002442
12	0.576984	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs11612228	EFO_0004339	GCST002647
12	0.783484	stroke	Ikram MA	15/04/2009	N Engl J Med	19369658	rs12425791	EFO_0000712	GCST000379

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4980826	12	0.578349	2.3536	credible-set	red
rs6489548	12	0.588604	3.3493	credible-set	red
rs139801914	12	0.589872	2.6912	credible-set	red
rs215223	12	0.590259	2.8293	credible-set	red
rs215224	12	0.590449	2.9689	credible-set	red
rs215226	12	0.591300	2.7872	credible-set	red

eBMD SNP INDEX 206



date: Wed Jun 28 21:47:46 2017

build: hg19

display range: chr12:1137129–2137129 [1137129–2137129]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:1637129

number of SNPs plotted: 7284

min P-value: 6.5E-23 [chr12:1638214]

max P-value: 1E0 [chr12:1163552]

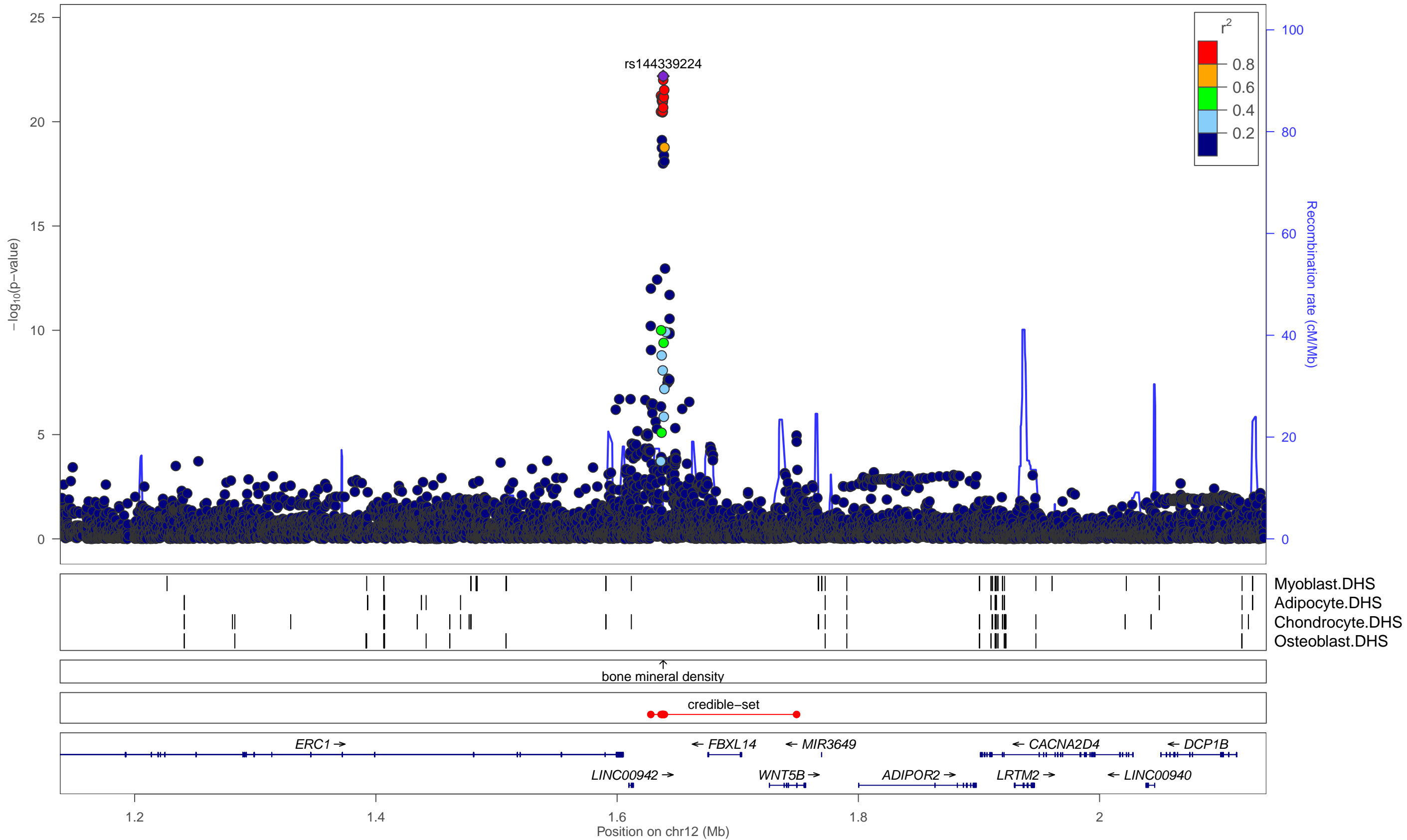
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	1.638171	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs2887571	EFO_0003923	GCST001482

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2887568	12	1.627865	3.0384	credible-set	red
rs2887569	12	1.627989	4.0952	credible-set	red
rs9668575	12	1.636381	2.0363	credible-set	red
rs11061818	12	1.637111	2.1422	credible-set	red
rs7959604	12	1.637129	3.6580	credible-set	red
rs7977125	12	1.637130	3.2023	credible-set	red
rs11061819	12	1.637239	2.3204	credible-set	red
rs11613567	12	1.637740	2.0784	credible-set	red
rs2887570	12	1.637787	2.2574	credible-set	red
rs4283041	12	1.637913	2.3262	credible-set	red
rs4322451	12	1.637963	2.1998	credible-set	red
rs12424790	12	1.638069	2.5020	credible-set	red
rs144339224	12	1.638214	3.3586	credible-set	red
rs61912201	12	1.638218	3.1194	credible-set	red
rs35223785	12	1.638671	2.3620	credible-set	red
rs74057888	12	1.638772	2.7726	credible-set	red
rs71454826	12	1.639084	2.6778	credible-set	red
rs79928302	12	1.639204	2.4908	credible-set	red
rs6489313	12	1.748766	3.1109	credible-set	red
rs2270036	12	1.748834	2.9047	credible-set	red

eBMD SNP INDEX 207



date: Wed Jun 28 21:47:46 2017

build: hg19

display range: chr12:1138214–2138214 [1138214–2138214]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:1638214

number of SNPs plotted: 7285

min P-value: 6.5E–23 [chr12:1638214]

max P-value: 1E0 [chr12:1163552]

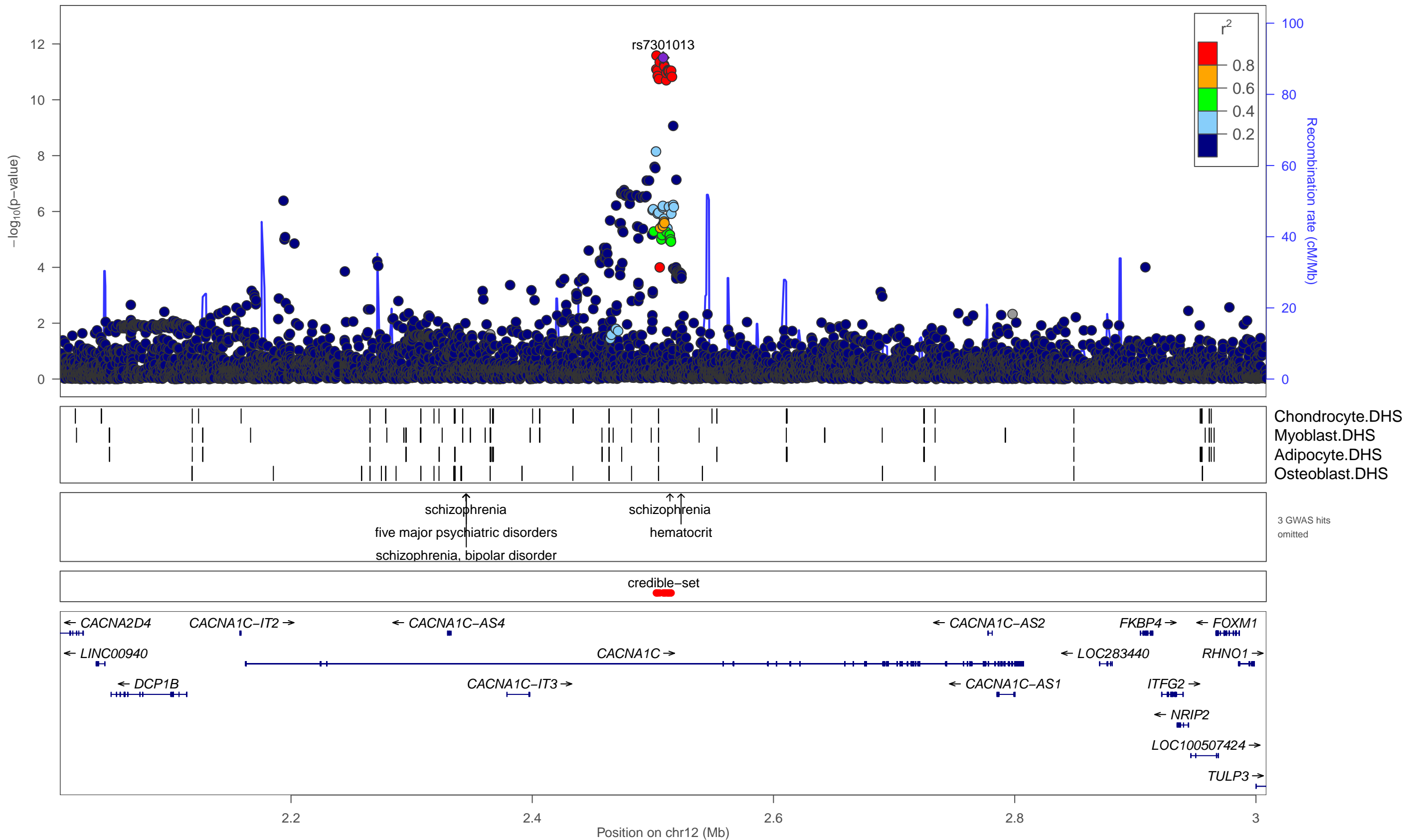
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	1.638171	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs2887571	EFO_0003923	GCST001482

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2887568	12	1.627865	3.0356	credible-set	red
rs2887569	12	1.627989	4.0905	credible-set	red
rs9668575	12	1.636381	2.0465	credible-set	red
rs11061818	12	1.637111	2.1480	credible-set	red
rs7959604	12	1.637129	3.6572	credible-set	red
rs7977125	12	1.637130	3.1994	credible-set	red
rs11061819	12	1.637239	2.3127	credible-set	red
rs11613567	12	1.637740	2.0770	credible-set	red
rs2887570	12	1.637787	2.2558	credible-set	red
rs4283041	12	1.637913	2.3239	credible-set	red
rs4322451	12	1.637963	2.2055	credible-set	red
rs12424790	12	1.638069	2.5146	credible-set	red
rs144339224	12	1.638214	3.3558	credible-set	red
rs61912201	12	1.638218	3.1201	credible-set	red
rs35223785	12	1.638671	2.3661	credible-set	red
rs74057888	12	1.638772	2.7731	credible-set	red
rs71454826	12	1.639084	2.6764	credible-set	red
rs79928302	12	1.639204	2.4901	credible-set	red
rs6489313	12	1.748766	3.1094	credible-set	red
rs2270036	12	1.748834	2.9007	credible-set	red

eBMD SNP INDEX 208



date: Wed Jun 28 21:47:51 2017

build: hg19

display range: chr12:2008571–3008571 [2008571–3008571]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:2508571

number of SNPs plotted: 6353

min P-value: 2.6E-12 [chr12:2502996]

max P-value: 1E0 [chr12:2025700]

omitted GWAS Hits: chr12:2.514112–schizophrenia, chr12:2.523355–hematocrit

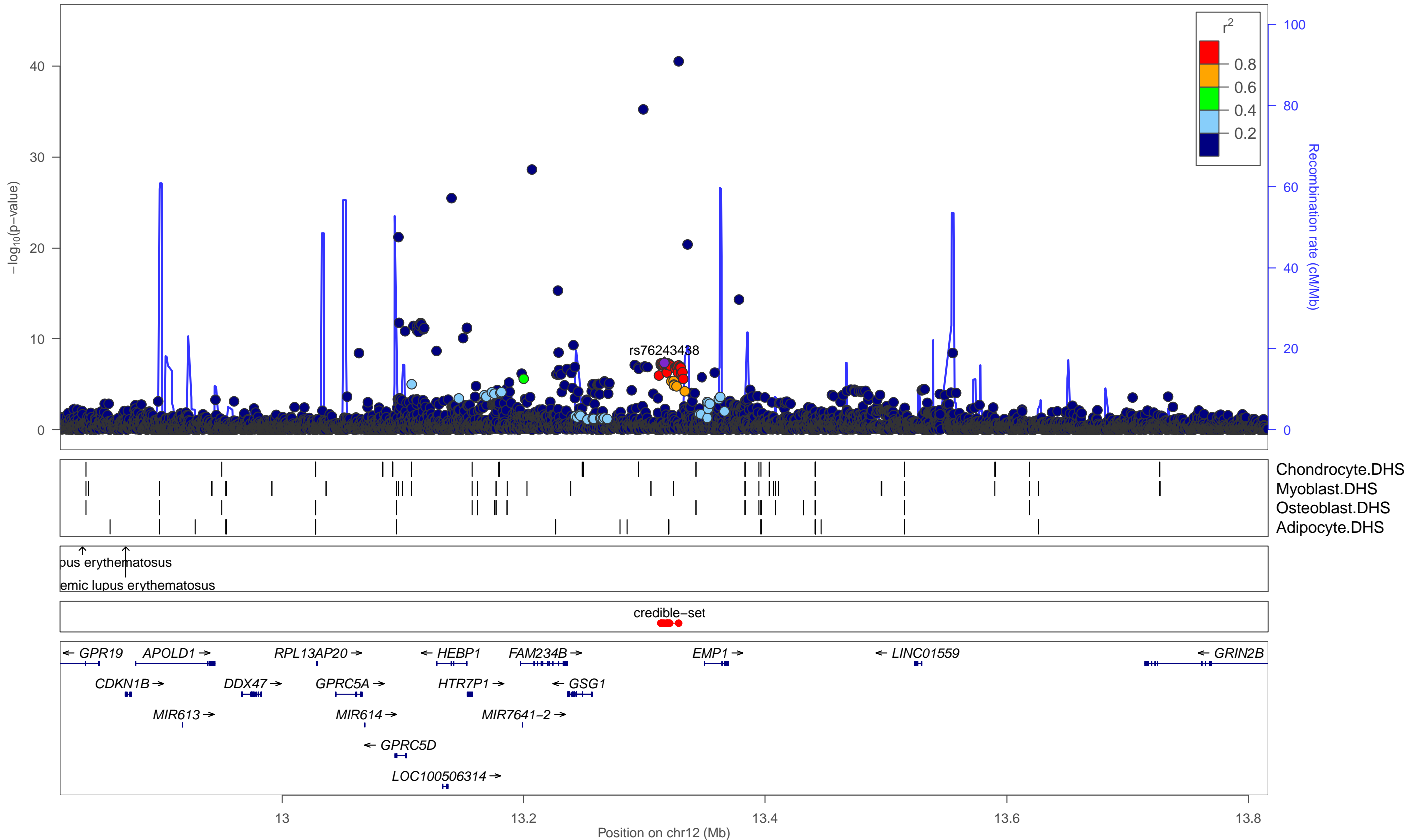
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	2.344960	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs2007044	EFO_0000692	GCST003048
12	2.344960	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs2007044	EFO_0000692	GCST002539
12	2.345295	five major psychiatric disorders	Smoller JW	27/02/2013	Lancet	23453885	rs1006737	NA	GCST001877
12	2.345295	schizophrenia, bipolar disorder	Ruderfer DM	26/11/2013	Mol Psychiatry	24280982	rs1006737	EFO_0000692, EFO_0000289	GCST002295
12	2.345295	schizophrenia	Ripke S	25/08/2013	Nat Genet	23974872	rs1006737	EFO_0000692	GCST002149
12	2.345295	unipolar depression, bipolar disorder	Liu Y	30/03/2010	Mol Psychiatry	20351715	rs1006737	EFO_0003761, EFO_0000289	GCST000641
12	2.419896	bipolar disorder	Sklar P	18/09/2011	Nat Genet	21926972	rs4765913	EFO_0000289	GCST001241
12	2.514112	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs12823424	EFO_0000692	GCST003048
12	2.523355	hematocrit	van der Harst P	5/12/2012	Nature	23222517	rs7312105	EFO_0004348	GCST001765

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs55902113	12	2.502872	2.2474	credible-set	red
rs56151937	12	2.502996	2.8554	credible-set	red
rs7980523	12	2.503709	2.1934	credible-set	red
rs7973812	12	2.503992	2.0031	credible-set	red
12:2505671_G_GGGAATGTGC	12	2.505671	2.5817	credible-set	red
rs7301013	12	2.508571	2.7656	credible-set	red
rs11837034	12	2.509306	2.4820	credible-set	red
rs11836545	12	2.509608	2.4075	credible-set	red
rs11837126	12	2.509650	2.4130	credible-set	red
rs2370515	12	2.511162	2.1062	credible-set	red
rs11829249	12	2.512604	2.2181	credible-set	red
rs34314354	12	2.512811	2.1474	credible-set	red
rs4562883	12	2.512876	2.1952	credible-set	red
rs7294604	12	2.513028	2.1700	credible-set	red
rs7136865	12	2.513288	2.1704	credible-set	red
rs11831085	12	2.514858	2.0309	credible-set	red
rs2159059	12	2.515144	2.1928	credible-set	red

eBMD SNP INDEX 209



date: Wed Jun 28 21:47:55 2017

build: hg19

display range: chr12:12816373–13816373 [12816373–13816373]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:13316373

number of SNPs plotted: 6407

min P-value: 3E-41 [chr12:13328208]

max P-value: 1E0 [chr12:12871640]

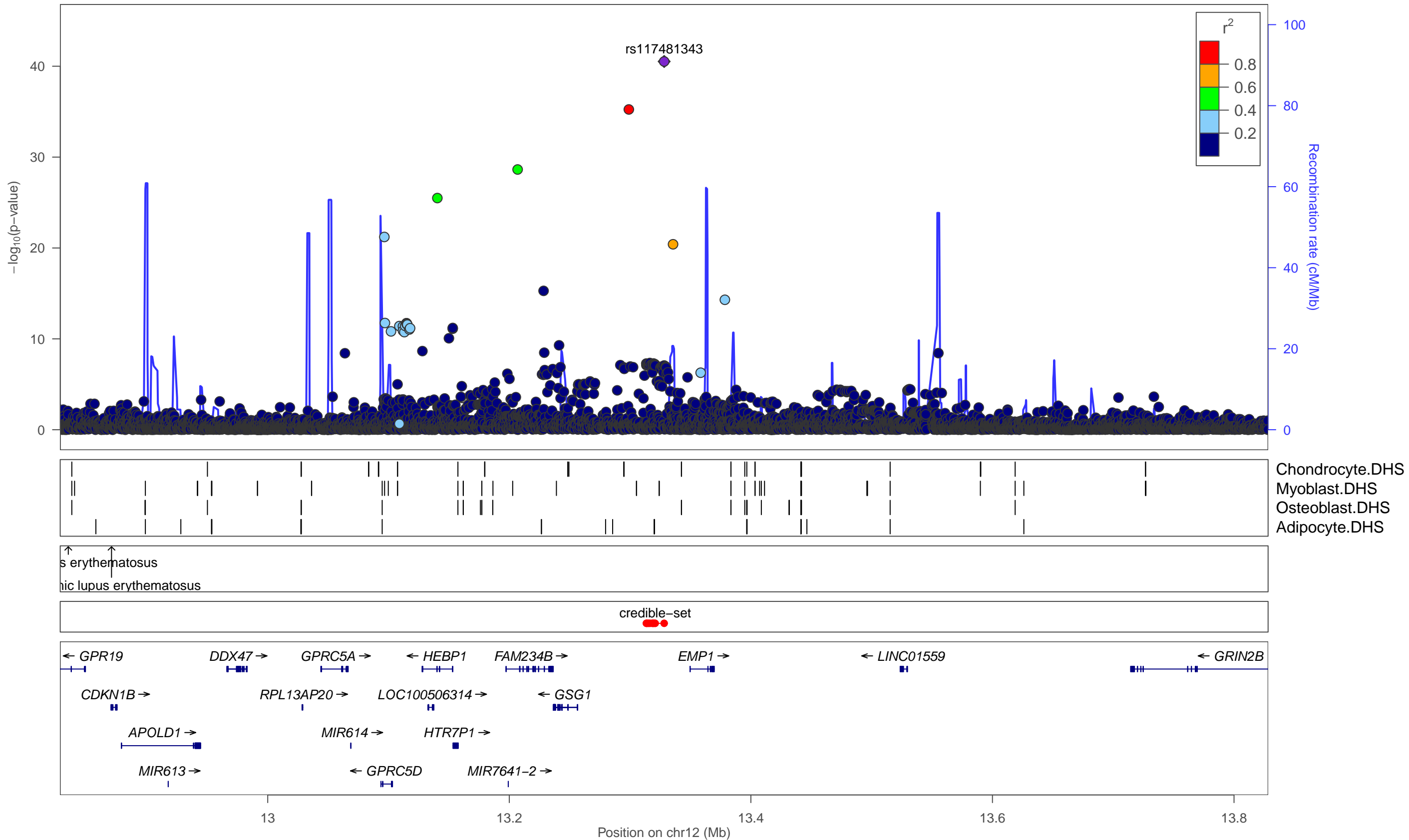
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	12.83489	systemic lupus erythematosus	Yang W	27/12/2012	Am J Hum Genet	23273568	rs10845606	EFO_0002690	GCST001795
12	12.87069	systemic lupus erythematosus	Yang W	27/12/2012	Am J Hum Genet	23273568	rs34330	EFO_0002690	GCST001795

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs116971148	12	13.31342	2.3933	credible-set	red
rs142393127	12	13.31350	2.1970	credible-set	red
rs117843181	12	13.31365	2.2352	credible-set	red
rs150408621	12	13.31413	2.3118	credible-set	red
rs117170571	12	13.31483	2.1989	credible-set	red
rs117481964	12	13.31519	2.1557	credible-set	red
rs117879675	12	13.31589	2.2313	credible-set	red
rs76243438	12	13.31637	2.4991	credible-set	red
rs116942315	12	13.31738	2.2499	credible-set	red
rs199595633	12	13.31866	2.3020	credible-set	red
rs117604090	12	13.31872	2.2568	credible-set	red
rs75180224	12	13.31874	2.2569	credible-set	red
rs117912664	12	13.31940	2.4493	credible-set	red
rs117509541	12	13.31943	2.3140	credible-set	red
rs117389592	12	13.32054	2.3568	credible-set	red
rs118172876	12	13.32067	2.3029	credible-set	red
rs117124940	12	13.32084	2.1929	credible-set	red
rs117481343	12	13.32821	13.6054	credible-set	red
rs79975967	12	13.32822	2.0695	credible-set	red

eBMD SNP INDEX 210



date: Wed Jun 28 21:47:55 2017

build: hg19

display range: chr12:12828208–13828208 [12828208–13828208]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:13328208

number of SNPs plotted: 6412

min P-value: 3E-41 [chr12:13328208]

max P-value: 1E0 [chr12:12871640]

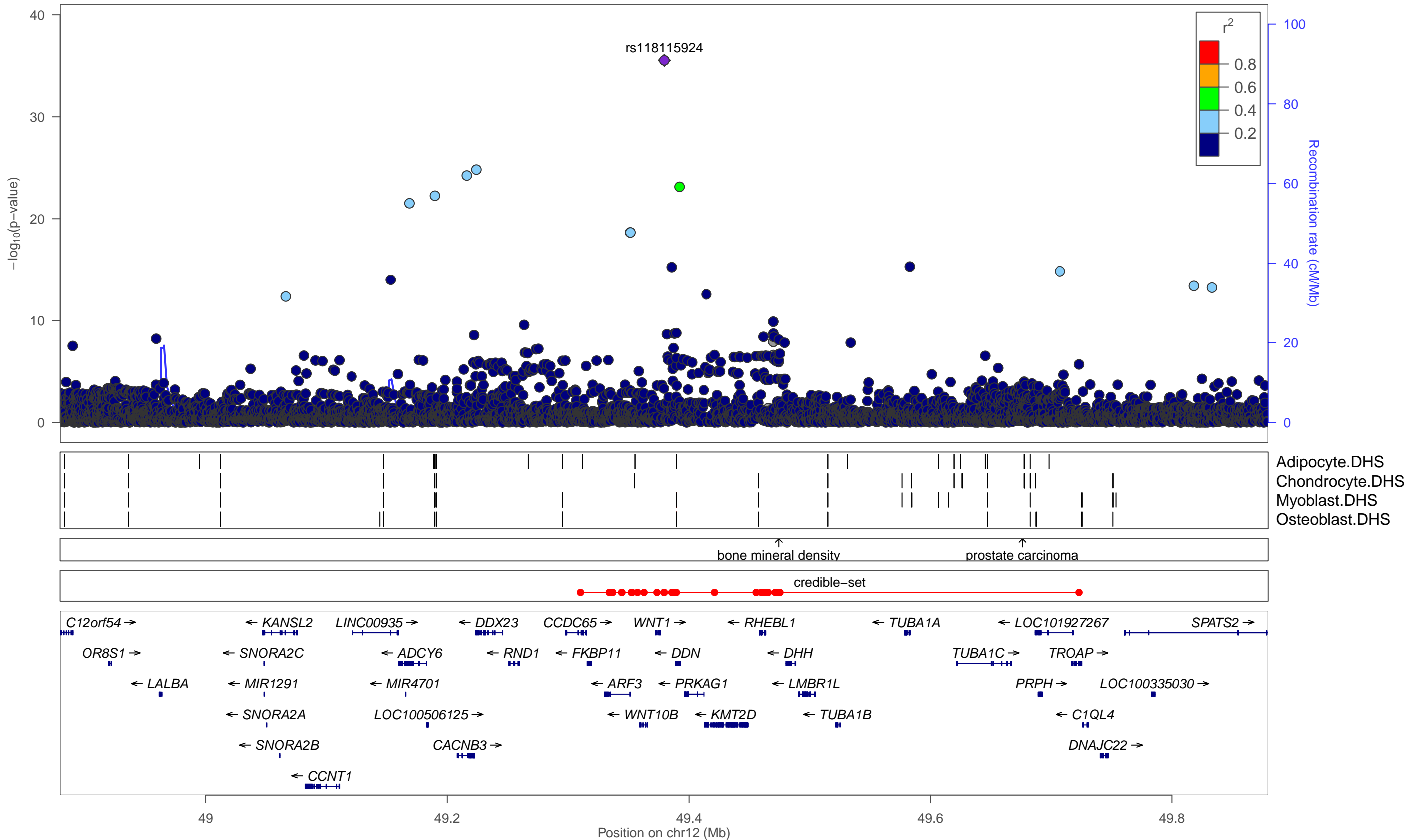
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	12.83489	systemic lupus erythematosus	Yang W	27/12/2012	Am J Hum Genet	23273568	rs10845606	EFO_0002690	GCST001795
12	12.87069	systemic lupus erythematosus	Yang W	27/12/2012	Am J Hum Genet	23273568	rs34330	EFO_0002690	GCST001795

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs116971148	12	13.31342	2.3938	credible-set	red
rs142393127	12	13.31350	2.1976	credible-set	red
rs117843181	12	13.31365	2.2355	credible-set	red
rs150408621	12	13.31413	2.3123	credible-set	red
rs117170571	12	13.31483	2.1993	credible-set	red
rs117481964	12	13.31519	2.1561	credible-set	red
rs117879675	12	13.31589	2.2316	credible-set	red
rs76243438	12	13.31637	2.5000	credible-set	red
rs116942315	12	13.31738	2.2503	credible-set	red
rs199595633	12	13.31866	2.3024	credible-set	red
rs117604090	12	13.31872	2.2571	credible-set	red
rs75180224	12	13.31874	2.2571	credible-set	red
rs117912664	12	13.31940	2.4496	credible-set	red
rs117509541	12	13.31943	2.3144	credible-set	red
rs117389592	12	13.32054	2.3572	credible-set	red
rs118172876	12	13.32067	2.3032	credible-set	red
rs117124940	12	13.32084	2.1933	credible-set	red
rs117481343	12	13.32821	13.6057	credible-set	red
rs79975967	12	13.32822	2.0698	credible-set	red

eBMD SNP INDEX 211



date: Wed Jun 28 21:47:56 2017

build: hg19

display range: chr12:48879537–49879537 [48879537–49879537]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:49379537

number of SNPs plotted: 5240

min P-value: 2.9E–36 [chr12:49379537]

max P-value: 1E0 [chr12:48891160]

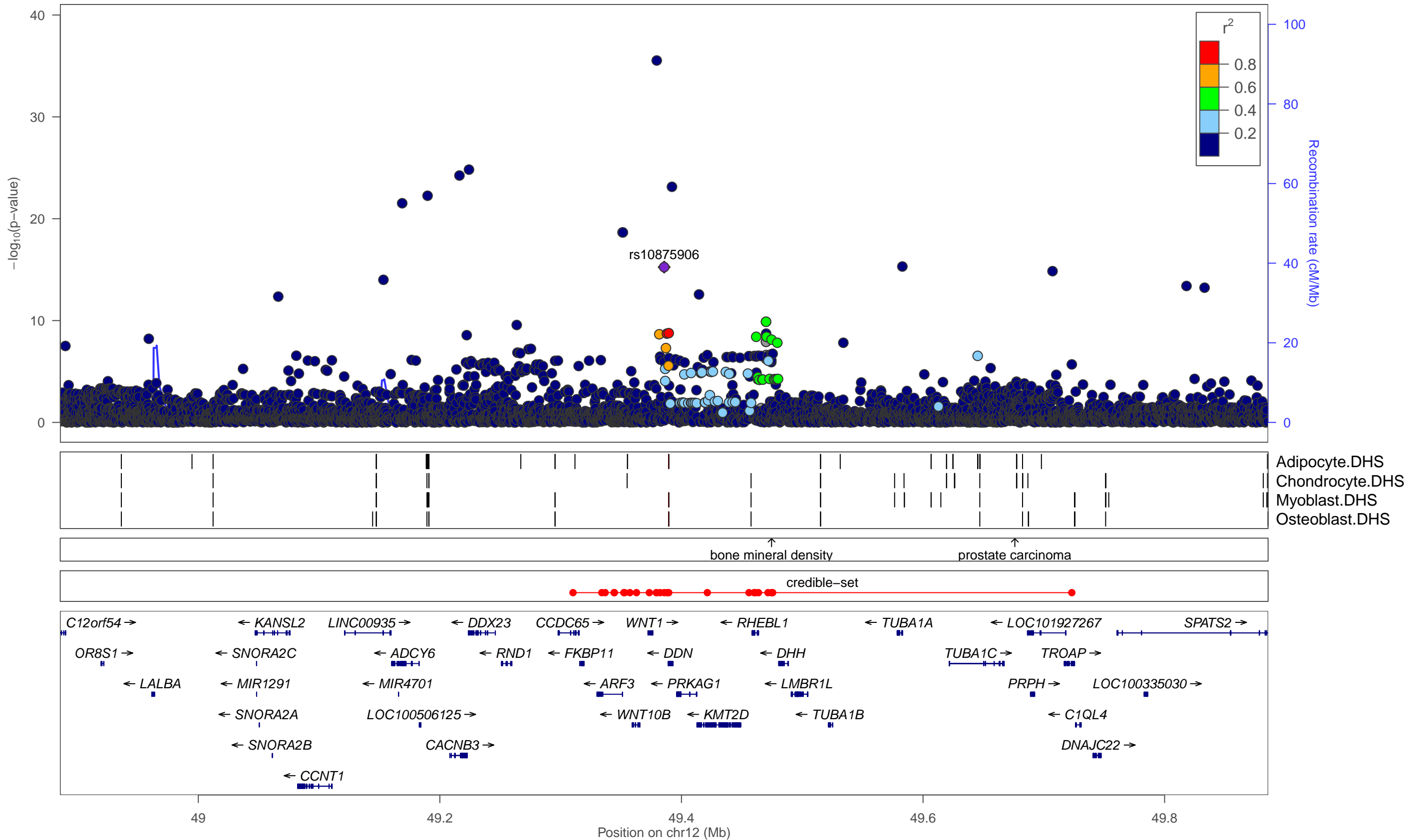
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	49.47460	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs12821008	EFO_0003923	GCST001482
12	49.67601	prostate carcinoma	Kote-Jarai Z	10/07/2011	Nat Genet	21743467	rs10875943	EFO_0001663	GCST001148

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs577332831	12	49.31022	4.6273	credible-set	red
rs708242	12	49.33404	2.2639	credible-set	red
rs833833	12	49.33680	3.5461	credible-set	red
rs7967350	12	49.34423	3.2492	credible-set	red
rs7981004	12	49.34451	3.4643	credible-set	red
rs833829	12	49.35232	2.6198	credible-set	red
rs74611526	12	49.35298	2.5446	credible-set	red
rs11168810	12	49.35735	2.4220	credible-set	red
rs833834	12	49.36278	2.8336	credible-set	red
rs61758378	12	49.37341	4.2044	credible-set	red
rs78150433	12	49.37912	2.3675	credible-set	red
rs118115924	12	49.37954	13.5178	credible-set	red
rs10875906	12	49.38568	4.1453	credible-set	red
rs35717336	12	49.38795	2.6506	credible-set	red
rs3741619	12	49.38948	2.5453	credible-set	red
rs139062737	12	49.42143	2.2946	credible-set	red
rs146407750	12	49.45587	2.0036	credible-set	red
rs117478394	12	49.45593	2.0098	credible-set	red
rs77472342	12	49.46014	2.0256	credible-set	red
rs138865002	12	49.46132	2.0181	credible-set	red
rs117952495	12	49.46378	2.0628	credible-set	red
rs117883937	12	49.46587	2.0333	credible-set	red
rs187735101	12	49.47164	2.0286	credible-set	red
rs141500328	12	49.47449	2.2839	credible-set	red
rs117916865	12	49.47550	2.3264	credible-set	red
rs184843720	12	49.72317	2.4176	credible-set	red

eBMD SNP INDEX 212



date: Wed Jun 28 21:47:55 2017

build: hg19

display range: chr12:48885679–49885679 [48885679–49885679]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:49385679

number of SNPs plotted: 5226

min P-value: 2.9E–36 [chr12:49379537]

max P-value: 1E0 [chr12:48891160]

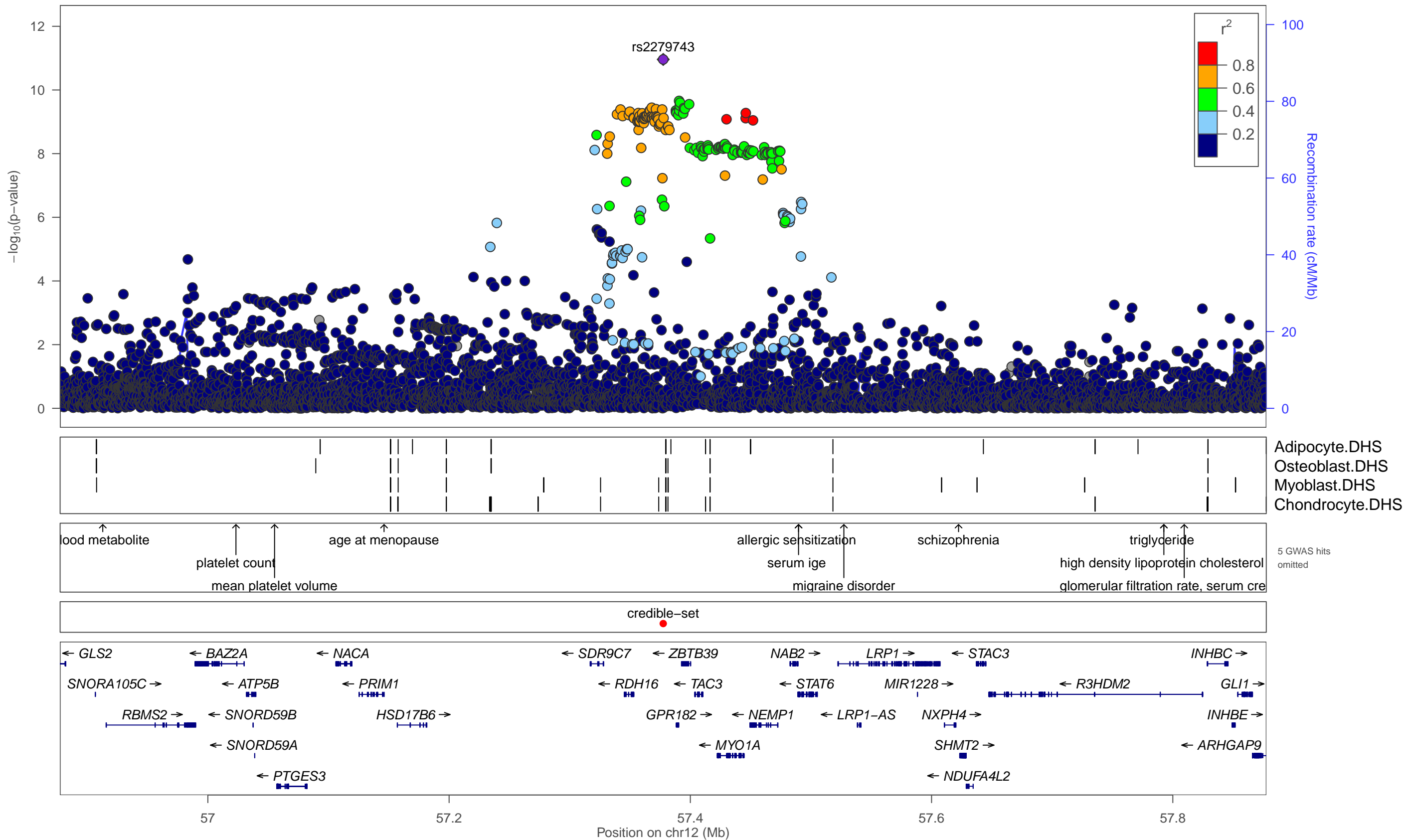
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	49.47460	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs12821008	EFO_0003923	GCST001482
12	49.67601	prostate carcinoma	Kote-Jarai Z	10/07/2011	Nat Genet	21743467	rs10875943	EFO_0001663	GCST001148

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs577332831	12	49.31022	4.5820	credible-set	red
rs708242	12	49.33404	2.2371	credible-set	red
rs833833	12	49.33680	3.5487	credible-set	red
rs7967350	12	49.34423	3.2481	credible-set	red
rs7981004	12	49.34451	3.4478	credible-set	red
rs833829	12	49.35232	2.6195	credible-set	red
rs74611526	12	49.35298	2.5577	credible-set	red
rs11168810	12	49.35735	2.4479	credible-set	red
rs833834	12	49.36278	2.8168	credible-set	red
rs61758378	12	49.37341	4.2223	credible-set	red
rs78150433	12	49.37912	2.3430	credible-set	red
rs118115924	12	49.37954	13.5167	credible-set	red
rs78573896	12	49.38230	2.0060	credible-set	red
rs10875906	12	49.38568	4.1140	credible-set	red
rs35717336	12	49.38795	2.6725	credible-set	red
rs3741619	12	49.38948	2.5679	credible-set	red
rs139062737	12	49.42143	2.3283	credible-set	red
rs117478394	12	49.45593	2.0099	credible-set	red
rs77472342	12	49.46014	2.0264	credible-set	red
rs138865002	12	49.46132	2.0315	credible-set	red
rs117952495	12	49.46378	2.0764	credible-set	red
rs187735101	12	49.47164	2.0240	credible-set	red
rs141500328	12	49.47449	2.2826	credible-set	red
rs117916865	12	49.47550	2.3236	credible-set	red
rs184843720	12	49.72317	2.4506	credible-set	red

eBMD SNP INDEX 213



date: Wed Jun 28 21:47:53 2017

build: hg19

display range: chr12:56877509–57877509 [56877509–57877509]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:57377509

number of SNPs plotted: 4788

min P-value: 1.1E-11 [chr12:57377509]

max P-value: 1E0 [chr12:56987568]

omitted GWAS Hits: chr12:57.622371–schizophrenia, chr12:57.79258–high density lipoprotein cholesterol

omitted GWAS Hits: NA, NA

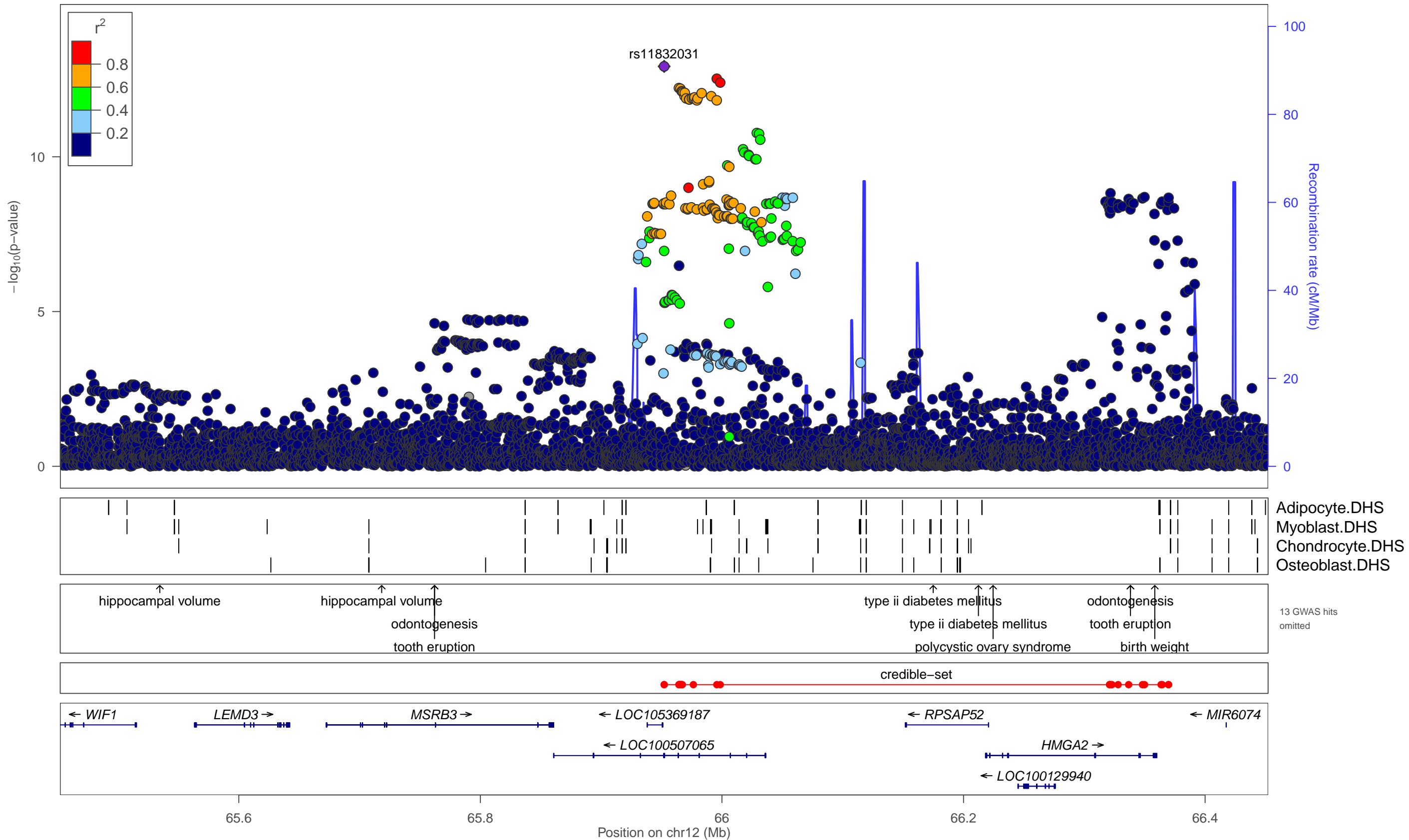
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	56.91286	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs2694917	EFO_0005664	GCST002442
12	57.02328	platelet count	Gieger C	30/11/2011	Nature	22139419	rs941207	EFO_0004309	GCST001337
12	57.05529	mean platelet volume	Gieger C	30/11/2011	Nature	22139419	rs2950390	EFO_0004584	GCST001335
12	57.14607	age at menopause	Stolk L	22/01/2012	Nat Genet	22267201	rs2277339	EFO_0004704	GCST001381
12	57.48971	allergic sensitization	Bonnelykke K	30/06/2013	Nat Genet	23817571	rs1059513	EFO_0005298	GCST002084
12	57.48971	serum ige	Granada M	8/11/2011	J Allergy Clin Immunol	22075330	rs1059513	EFO_0004579	GCST001316
12	57.52728	migraine disorder	Anttila V	23/06/2013	Nat Genet	23793025	rs11172113	EFO_0003821	GCST002078
12	57.52728	migraine disorder	Anttila V	23/06/2013	Nat Genet	23793025	rs11172113	EFO_0003821	GCST002081
12	57.52728	migraine disorder	Chasman DI	12/06/2011	Nat Genet	21666692	rs11172113	EFO_0003821	GCST001105
12	57.52728	migraine disorder	Freilinger T	10/06/2012	Nat Genet	22683712	rs11172113	EFO_0003821	GCST001563
12	57.52728	pulmonary function , fev/fec ratio	Soler Artigas M	25/09/2011	Nat Genet	21946350	rs11172113	EFO_0003892, EFO_0004713	GCST001248
12	57.53447	abdominal aortic aneurysm	Bown MJ	4/11/2011	Am J Hum Genet	22055160	rs1466535	EFO_0004214	GCST001312
12	57.62237	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs12826178	EFO_0000692	GCST003048
12	57.62237	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs12826178	EFO_0000692	GCST002539
12	57.79258	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs11613352	EFO_0004612	GCST000755
12	57.79258	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs11613352	EFO_0004612	GCST002223
12	57.79258	triglyceride	Teslovich TM	5/08/2010	Nature	20686565	rs11613352	EFO_0004530	GCST000758
12	57.79258	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs11613352	EFO_0004530	GCST002216
12	57.80946	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs1106766	EFO_0005208, EFO_0004518	GCST003372
12	57.80946	urate	Yang Q	30/09/2010	Circ Cardiovasc Genet	20884846	rs1106766	EFO_0004531	GCST000818
12	57.83917	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs61352607	EFO_0004530	GCST002897
12	57.84405	urate	Kottgen A	23/12/2012	Nat Genet	23263486	rs3741414	EFO_0004531	GCST001791

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2279743	12	57.37751	3.2304	credible-set	red

eBMD SNP INDEX 214



date: Wed Jun 28 21:47:52 2017

build: hg19

display range: chr12:65452149–66452149 [65452149–66452149]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:65952149

number of SNPs plotted: 4924

min P-value: 1.2E-13 [chr12:65952149]

max P-value: 1E0 [chr12:65510303]

omitted GWAS Hits: chr12:66.174894–type ii diabetes mellitus, chr12:66.212318–type ii diabetes mellitus

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA

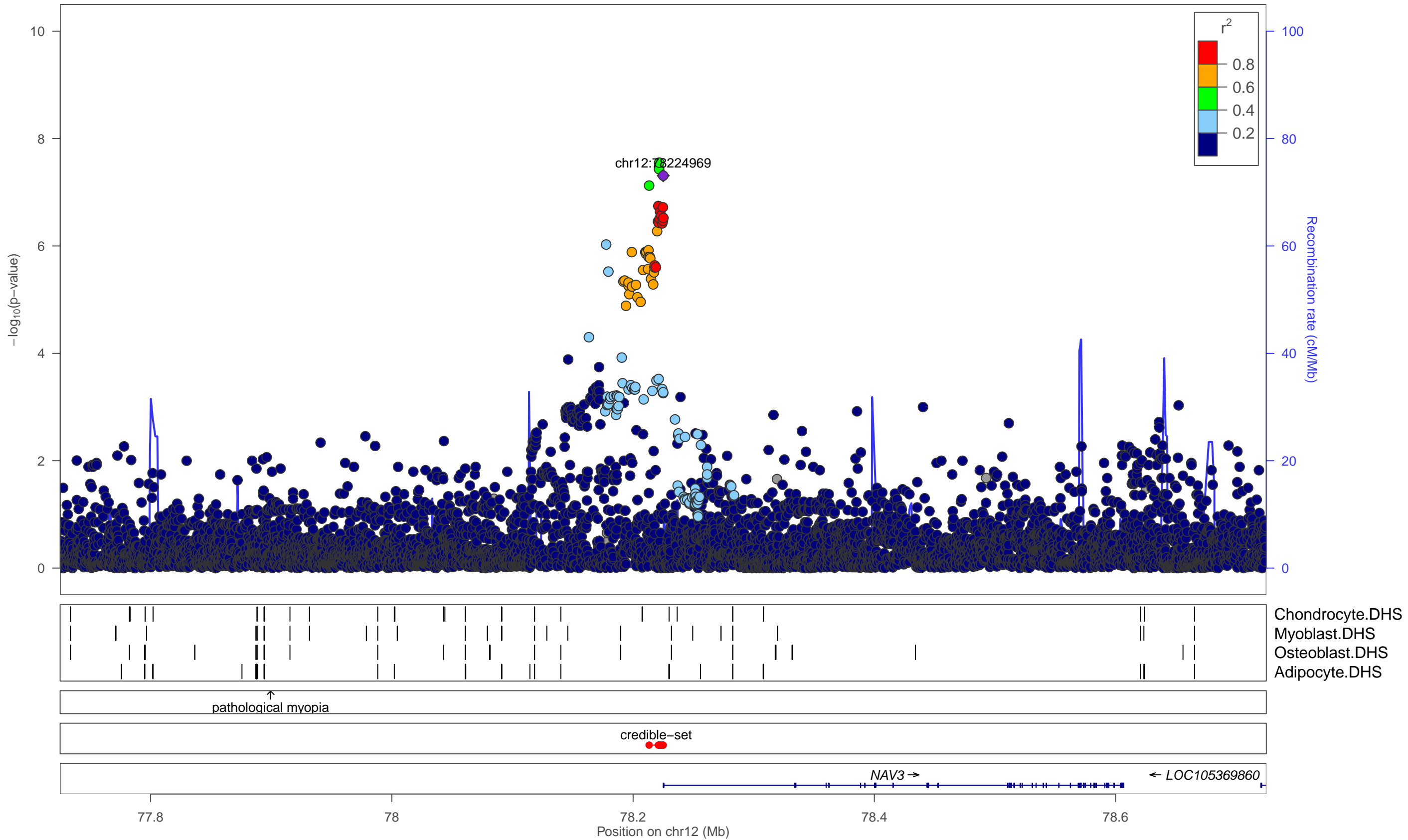
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	65.53462	hippocampal volume	Bis JC	15/04/2012	Nat Genet	22504421	rs6581612	EFO_0005035	GCST001485
12	65.71830	hippocampal volume	Bis JC	15/04/2012	Nat Genet	22504421	rs17178006	EFO_0005035	GCST001485
12	65.76206	odontogenesis	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs12229918	GO_0042476	GCST002031
12	65.76206	tooth eruption	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs12229918	GO_0044691	GCST002030
12	65.78338	odontogenesis	Pillas D	26/02/2010	PLoS Genet	20195514	rs10506525	GO_0042476	GCST000609
12	65.83247	hippocampal volume	Hibar DP	21/01/2015	Nature	25607358	rs61921502	EFO_0005035	GCST002756
12	66.17489	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs1531343	EFO_0001360	GCST000712
12	66.21232	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs2261181	EFO_0001360	GCST002352
12	66.22446	polycystic ovary syndrome	Shi Y	12/08/2012	Nat Genet	22885925	rs2272046	EFO_0000660	GCST001634
12	66.22726	body height	N'Diaye A	6/10/2011	PLoS Genet	21998595	rs7979673	EFO_0004339	GCST001263
12	66.25094	type ii diabetes mellitus	Ng MC	7/08/2014	PLoS Genet	25102180	rs343092	EFO_0001360	GCST002560
12	66.33820	odontogenesis	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs17101923	GO_0042476	GCST002031
12	66.33820	tooth eruption	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs17101923	GO_0044691	GCST002030
12	66.34381	intra cranial volume	Stein JL	15/04/2012	Nat Genet	22504417	rs10784502	EFO_0004886	GCST001481
12	66.35183	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs1351394	EFO_0004339	GCST001956
12	66.35183	body height	Lango Allen H	29/09/2010	Nature	20881960	rs1351394	EFO_0004339	GCST000817
12	66.35835	birth weight	Horikoshi M	2/12/2012	Nat Genet	23202124	rs1042725	EFO_0004344	GCST001758
12	66.35835	body height	Lettre G	6/04/2008	Nat Genet	18391950	rs1042725	EFO_0004339	GCST000176
12	66.35835	body height	Weedon MN	2/09/2007	Nat Genet	17767157	rs1042725	EFO_0004339	GCST000068
12	66.35835	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs1042725	EFO_0004339	GCST000174
12	66.35835	infant head circumference	Taal HR	15/04/2012	Nat Genet	22504419	rs1042725	EFO_0004577	GCST001484
12	66.35975	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs8756	EFO_0004339	GCST000175
12	66.35975	body height	Soranzo N	3/04/2009	PLoS Genet	19343178	rs8756	EFO_0004339	GCST000372
12	66.35975	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs8756	EFO_0004339	GCST002647
12	66.36016	infant body height	van der Valk RJ	3/10/2014	Hum Mol Genet	25281659	rs7970350	EFO_0006785	GCST002646
12	66.36451	tooth eruption	Geller F	8/09/2011	PLoS Genet	21931568	rs12424086	GO_0044691	GCST001221
12	66.37188	body height	Carty CL	21/10/2011	Hum Mol Genet	22021425	rs7968682	EFO_0004339	GCST001290
12	66.39466	aortic root size	Vasan RS	8/07/2009	JAMA	19584346	rs4026608	EFO_0005037	GCST000442

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11832031	12	65.95215	2.8435	credible-set	red
rs11175816	12	65.95215	2.8566	credible-set	red
rs10878301	12	65.96436	2.1465	credible-set	red
rs75253552	12	65.96446	2.2515	credible-set	red
rs79573772	12	65.96450	2.2290	credible-set	red
rs4257020	12	65.96557	2.1497	credible-set	red
rs4631931	12	65.96598	2.0137	credible-set	red
rs7971777	12	65.96662	2.0103	credible-set	red
rs4237904	12	65.96719	2.0045	credible-set	red
rs10047609	12	65.97631	2.0161	credible-set	red
rs10784484	12	65.99573	2.1732	credible-set	red
rs3943015	12	65.99856	2.0053	credible-set	red
rs12424216	12	66.32089	2.1274	credible-set	red
rs12426889	12	66.32089	2.1319	credible-set	red
rs71450835	12	66.32167	2.4223	credible-set	red
rs12812630	12	66.32284	2.1771	credible-set	red
rs12811995	12	66.32798	2.1271	credible-set	red
rs35083527	12	66.33669	2.2918	credible-set	red
rs1871674	12	66.34813	2.4621	credible-set	red
rs17179670	12	66.34981	2.5107	credible-set	red
rs12422370	12	66.36354	2.0187	credible-set	red
rs12424086	12	66.36451	2.0855	credible-set	red
rs58464950	12	66.36962	2.0993	credible-set	red
rs61293802	12	66.36977	2.3799	credible-set	red

eBMD SNP INDEX 215



date: Wed Jun 28 17:34:06 2017

build: hg19

display range: chr12:77724969–78724969 [77724969–78724969]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:78224969

number of SNPs plotted: 6583

min P-value: 2.8E-8 [chr12:78221666]

max P-value: 1E0 [chr12:77727605]

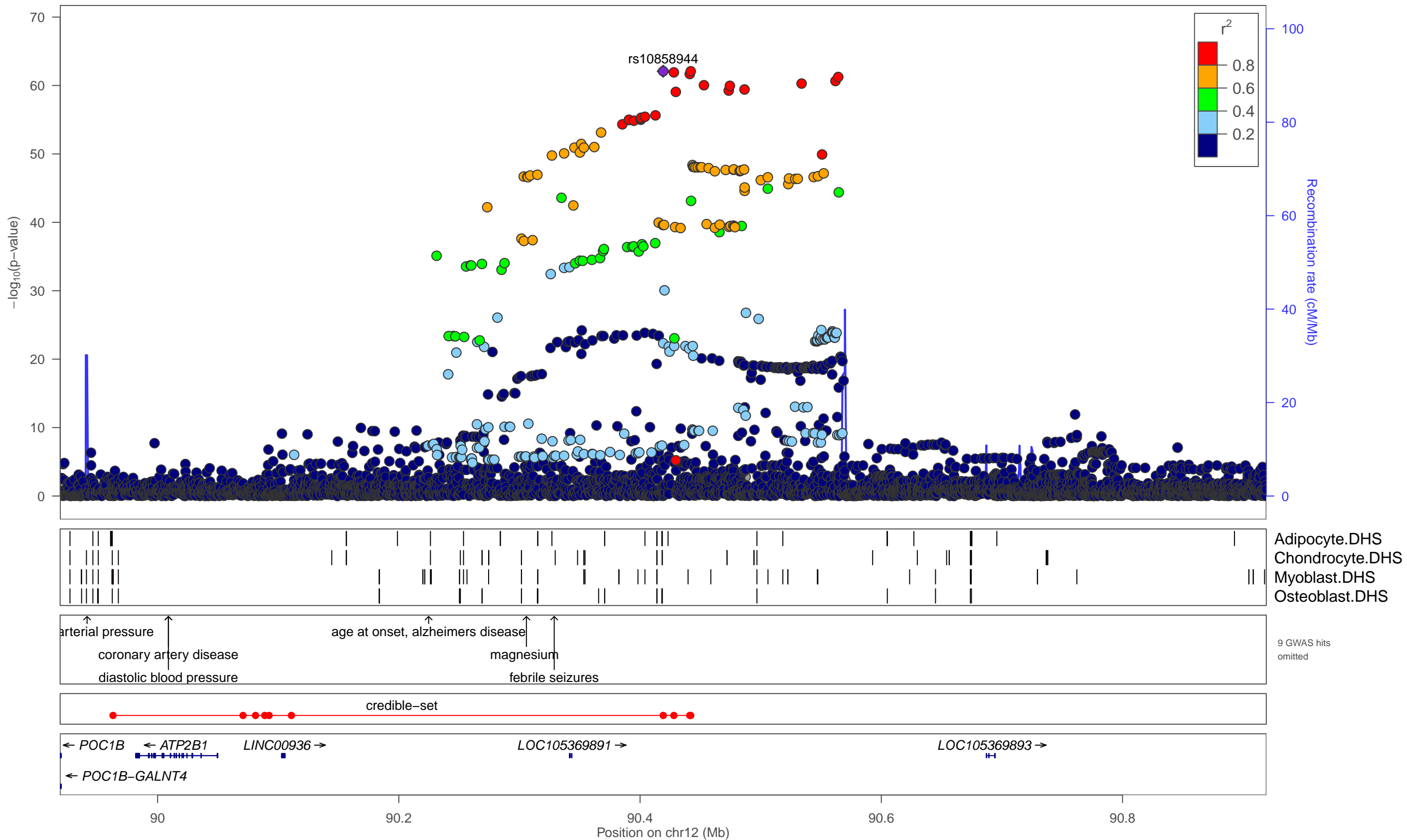
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	77.89951	pathological myopia	Meng W	9/10/2012	Invest Ophthalmol Vis Sci	23049088	rs17788937	EFO_0004207	GCST001712

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35163406	12	78.21330	2.6173	credible-set	red
rs2887623	12	78.22093	2.2184	credible-set	red
rs11106877	12	78.22154	2.9589	credible-set	red
rs35041751	12	78.22167	3.1067	credible-set	red
rs12811685	12	78.22236	2.1063	credible-set	red
rs1569028	12	78.22329	2.0348	credible-set	red
rs12824377	12	78.22473	2.1933	credible-set	red
rs72186592	12	78.22497	2.8238	credible-set	red

eBMD SNP INDEX 216



date: Wed Jun 28 21:51:02 2017

build: hg19

display range: chr12:89919192–90919192 [89919192–90919192]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:90419192

number of SNPs plotted: 4740

min P-value: 8.2E-63 [chr12:90419192]

max P-value: 1E0 [chr12:90039402]

omitted GWAS Hits: chr12:90.224714–age at onset, alzheimers disease, chr12:90.305779–magnesium

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

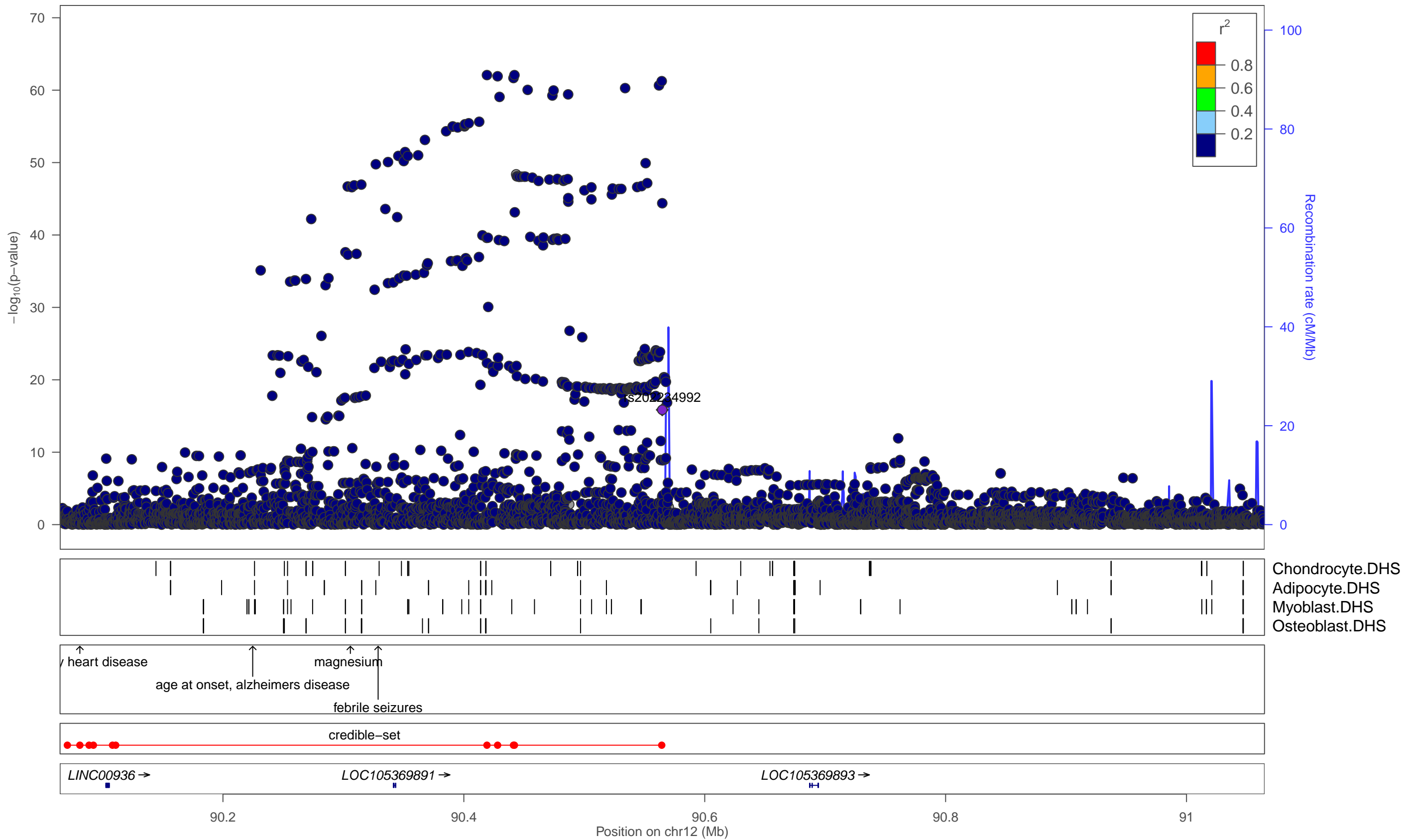
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	89.94155	mean arterial pressure	Simino J	19/06/2014	Am J Hum Genet	24954895	rs4842666	EFO_0006340	GCST002497
12	90.00896	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs2681472	EFO_0000378	GCST003116
12	90.00896	diastolic blood pressure	Levy D	10/05/2009	Nat Genet	19430479	rs2681472	EFO_0006336	GCST000396
12	90.00896	hypertension	Levy D	10/05/2009	Nat Genet	19430479	rs2681472	EFO_0000537	GCST000398
12	90.00896	myocardial infarction	Nikpay M	7/09/2015	Nat Genet	26343387	rs2681472	EFO_0000612	GCST003117
12	90.01309	systolic blood pressure	Levy D	10/05/2009	Nat Genet	19430479	rs2681492	EFO_0006335	GCST000393
12	90.06059	diastolic blood pressure	Kato N	15/05/2011	Nat Genet	21572416	rs17249754	EFO_0006336	GCST001074
12	90.06059	diastolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs17249754	EFO_0006336	GCST003273
12	90.06059	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs17249754	EFO_0006336	GCST002631
12	90.06059	hypertension	Lu X	23/09/2014	Hum Mol Genet	25249183	rs17249754	EFO_0000537	GCST002627
12	90.06059	mean arterial pressure	Kato N	21/09/2015	Nat Genet	26390057	rs17249754	EFO_0006340	GCST003275
12	90.06059	mean arterial pressure	Kelly TN	3/09/2013	Hypertension	24001895	rs17249754	EFO_0006340	GCST002167
12	90.06059	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs17249754	EFO_0006340	GCST001236
12	90.06059	pulse pressure	Kato N	21/09/2015	Nat Genet	26390057	rs17249754	EFO_0005763	GCST003274
12	90.06059	pulse pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs17249754	EFO_0005763	GCST001235
12	90.06059	systolic blood pressure	Kato N	15/05/2011	Nat Genet	21572416	rs17249754	EFO_0006335	GCST001072
12	90.06059	systolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs17249754	EFO_0006335	GCST003272
12	90.06059	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs17249754	EFO_0006335	GCST002630
12	90.08119	coronary heart disease	Lu X	1/07/2012	Nat Genet	22751097	rs7136259	EFO_0001645	GCST001587
12	90.22471	age at onset, alzheimers disease	Herold C	2/02/2016	Mol Psychiatry	26830138	rs117483990	EFO_0004847, EFO_0000249	GCST003427
12	90.30578	magnesium	Meyer TE	5/08/2010	PLoS Genet	20700443	rs7965584	EFO_0004845	GCST000756
12	90.32883	febrile seizures	Feenstra B	26/10/2014	Nat Genet	25344690	rs11105468	HP_0002373	GCST002672

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs111105334	12	89.96306	2.4662	credible-set	red
rs143087380	12	90.07082	2.2066	credible-set	red
rs7136259	12	90.08119	2.3591	credible-set	red
rs111105377	12	90.08883	2.6873	credible-set	red
rs59882356	12	90.09244	2.7793	credible-set	red
rs12297951	12	90.11094	2.0567	credible-set	red
rs10858944	12	90.41919	3.2154	credible-set	red
rs73208536	12	90.42803	2.8912	credible-set	red
rs10777221	12	90.44121	2.5734	credible-set	red
rs7488974	12	90.44200	3.0647	credible-set	red

eBMD SNP INDEX 217



date: Wed Jun 28 21:48:00 2017

build: hg19

display range: chr12:90064744–91064744 [90064744–91064744]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:90564744

number of SNPs plotted: 4916

min P-value: 8.2E-63 [chr12:90419192]

max P-value: 1E0 [chr12:90149105]

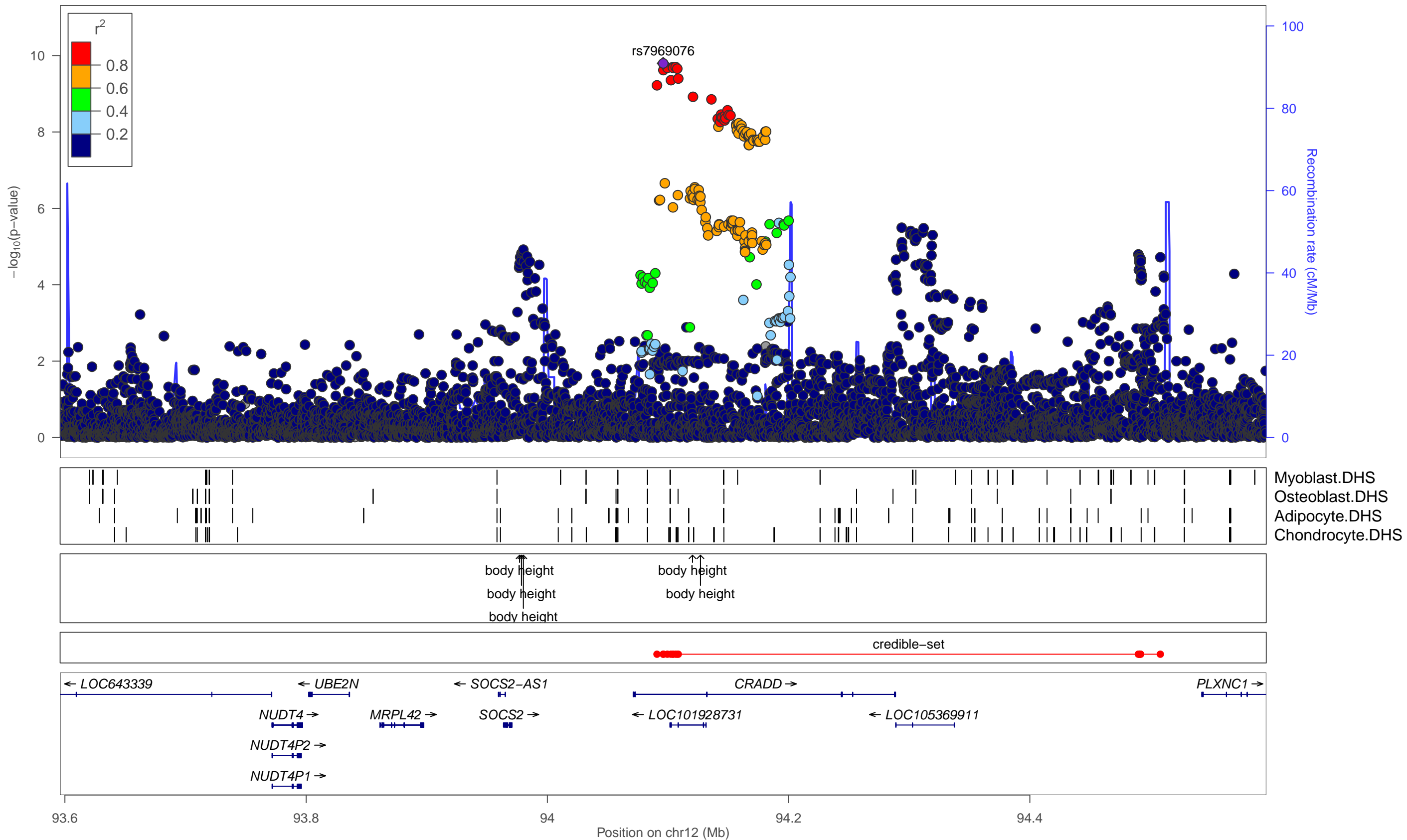
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	90.08119	coronary heart disease	Lu X	1/07/2012	Nat Genet	22751097	rs7136259	EFO_0001645	GCST001587
12	90.22471	age at onset, alzheimers disease	Herold C	2/02/2016	Mol Psychiatry	26830138	rs117483990	EFO_0004847, EFO_0000249	GCST003427
12	90.30578	magnesium	Meyer TE	5/08/2010	PLoS Genet	20700443	rs7965584	EFO_0004845	GCST000756
12	90.32883	febrile seizures	Feenstra B	26/10/2014	Nat Genet	25344690	rs11105468	HP_0002373	GCST002672

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs143087380	12	90.07082	2.3790	credible-set	red
rs7136259	12	90.08119	2.5338	credible-set	red
rs11105377	12	90.08883	2.8752	credible-set	red
rs59882356	12	90.09244	2.9715	credible-set	red
rs11105384	12	90.10830	2.1103	credible-set	red
rs12297951	12	90.11094	2.2201	credible-set	red
rs10858944	12	90.41919	3.2208	credible-set	red
rs73208536	12	90.42803	2.9008	credible-set	red
rs10777221	12	90.44121	2.5918	credible-set	red
rs7488974	12	90.44200	3.0801	credible-set	red
rs17836934	12	90.56430	2.0371	credible-set	red

eBMD SNP INDEX 218



date: Wed Jun 28 21:47:59 2017

build: hg19

display range: chr12:93596042–94596042 [93596042–94596042]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:94096042

number of SNPs plotted: 6528

min P-value: 1.6E-10 [chr12:94096042]

max P-value: 1E0 [chr12:93627197]

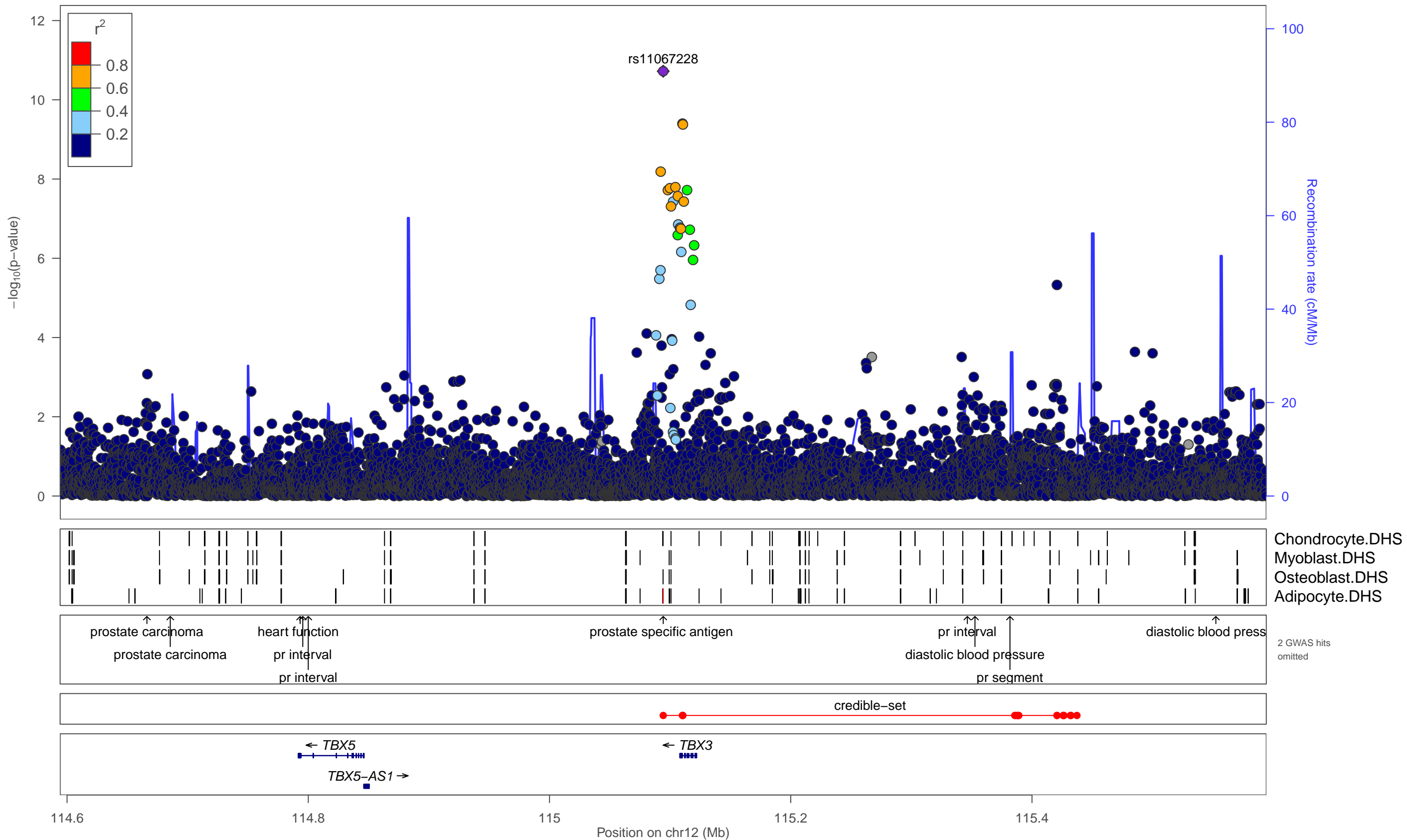
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	93.97695	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3825199	EFO_0004339	GCST002647
12	93.97850	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs11107116	EFO_0004339	GCST002702
12	93.97850	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11107116	EFO_0004339	GCST000817
12	93.97850	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs11107116	EFO_0004339	GCST000174
12	93.98009	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs10492321	EFO_0004339	GCST001956
12	94.12034	body height	Lango Allen H	29/09/2010	Nature	20881960	rs10859563	EFO_0004339	GCST000817
12	94.12692	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs10859567	EFO_0004339	GCST002647

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10745658	12	94.09087	2.1794	credible-set	red
rs7969076	12	94.09604	2.7761	credible-set	red
rs7954185	12	94.09617	2.5833	credible-set	red
rs2033669	12	94.09949	2.6373	credible-set	red
rs9308296	12	94.10245	2.3021	credible-set	red
rs9971690	12	94.10402	2.6641	credible-set	red
rs2196424	12	94.10428	2.6454	credible-set	red
rs4761739	12	94.10637	2.6706	credible-set	red
rs10859561	12	94.10771	2.6353	credible-set	red
rs3741675	12	94.10853	2.3705	credible-set	red
rs11107391	12	94.48996	2.1517	credible-set	red
rs111420476	12	94.49057	2.0779	credible-set	red
rs11107393	12	94.49072	2.0953	credible-set	red
rs10859661	12	94.49075	2.0525	credible-set	red
rs10777578	12	94.49109	2.0293	credible-set	red
rs10859665	12	94.49123	2.0035	credible-set	red
rs11107397	12	94.49138	2.0315	credible-set	red
rs11107398	12	94.49184	2.0283	credible-set	red
rs71071780	12	94.50819	2.2075	credible-set	red

eBMD SNP INDEX 219



date: Wed Jun 28 21:48:17 2017

build: hg19

display range: chr12:114594260–115594260 [114594260–115594260]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr12:115094260

number of SNPs plotted: 7381

min P-value: 1.9E-11 [chr12:115094260]

max P-value: 1E0 [chr12:114646039]

omitted GWAS Hits: chr12:115.09426–prostate specific antigen , chr12:115.346424–pr interval

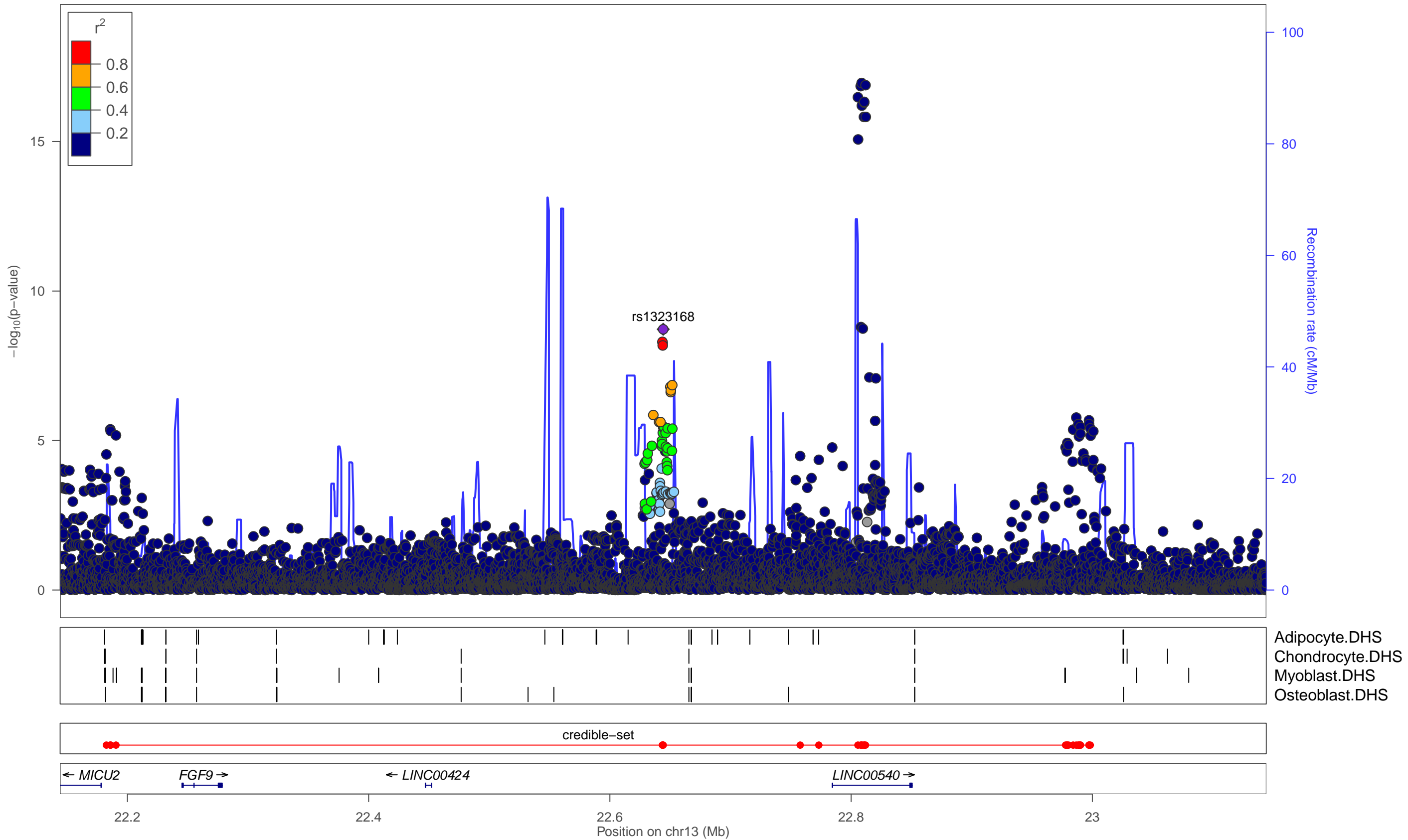
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
12	114.6662	prostate carcinoma	Berndt SI	5/05/2015	Nat Commun	25939597	rs10774740	EFO_0001663	GCST002890
12	114.6856	prostate carcinoma	Eeles RA	1/04/2013	Nat Genet	23535732	rs1270884	EFO_0001663	GCST001942
12	114.7932	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs883079	EFO_0004311	GCST000872
12	114.7954	pr interval	Holm H	10/01/2010	Nat Genet	20062063	rs3825214	EFO_0004462	GCST000561
12	114.8000	pr interval	Smith JG	10/02/2011	PLoS Genet	21347284	rs7312625	EFO_0004462	GCST000971
12	114.8021	pr interval	Butler AM	8/11/2012	Circ Cardiovasc Genet	23139255	rs1895585	EFO_0004462	GCST001735
12	114.8681	breast carcinoma	Stevens KN	24/04/2012	Hum Mol Genet	22532574	rs1265507	EFO_0000305	GCST001489
12	115.0943	prostate specific antigen	Gudmundsson J	15/12/2010	Sci Transl Med	21160077	rs11067228	EFO_0004624	GCST000919
12	115.3464	pr interval	Pfeufer A	10/01/2010	Nat Genet	20062060	rs1896312	EFO_0004462	GCST000562
12	115.3527	diastolic blood pressure	Levy D	10/05/2009	Nat Genet	19430479	rs2384550	EFO_0006336	GCST000396
12	115.3817	pr segment	Verweij N	21/05/2014	Circ Cardiovasc Genet	24850809	rs10850409	EFO_0005095	GCST002456
12	115.5524	diastolic blood pressure	Kato N	15/05/2011	Nat Genet	21572416	rs35444	EFO_0006336	GCST001074
12	115.5524	diastolic blood pressure	Kato N	21/09/2015	Nat Genet	26390057	rs35444	EFO_0006336	GCST003273

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11067228	12	115.0943	4.5316	credible-set	red
rs55865934	12	115.1102	2.2956	credible-set	red
rs1532691	12	115.1103	2.2998	credible-set	red
rs567223	12	115.1106	2.2000	credible-set	red
rs12370544	12	115.3857	13.6666	credible-set	red
rs12370240	12	115.3862	5.9006	credible-set	red
rs112841355	12	115.3878	2.2467	credible-set	red
rs111258751	12	115.3884	2.2924	credible-set	red
rs137946343	12	115.3886	3.0860	credible-set	red
12:115389079_G_A	12	115.3891	3.4019	credible-set	red
rs535768763	12	115.4207	2.7466	credible-set	red
rs555606866	12	115.4207	2.7465	credible-set	red
rs10744844	12	115.4259	6.9650	credible-set	red
rs55913549	12	115.4260	8.2828	credible-set	red
rs61931471	12	115.4265	3.9479	credible-set	red
rs1863726	12	115.4318	3.3667	credible-set	red
rs1896345	12	115.4323	3.9669	credible-set	red
rs2021784	12	115.4373	13.6666	credible-set	red

eBMD SNP INDEX 220



date: Wed Jun 28 21:47:27 2017

build: hg19

display range: chr13:22144217–23144217 [22144217–23144217]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:22644217

number of SNPs plotted: 7168

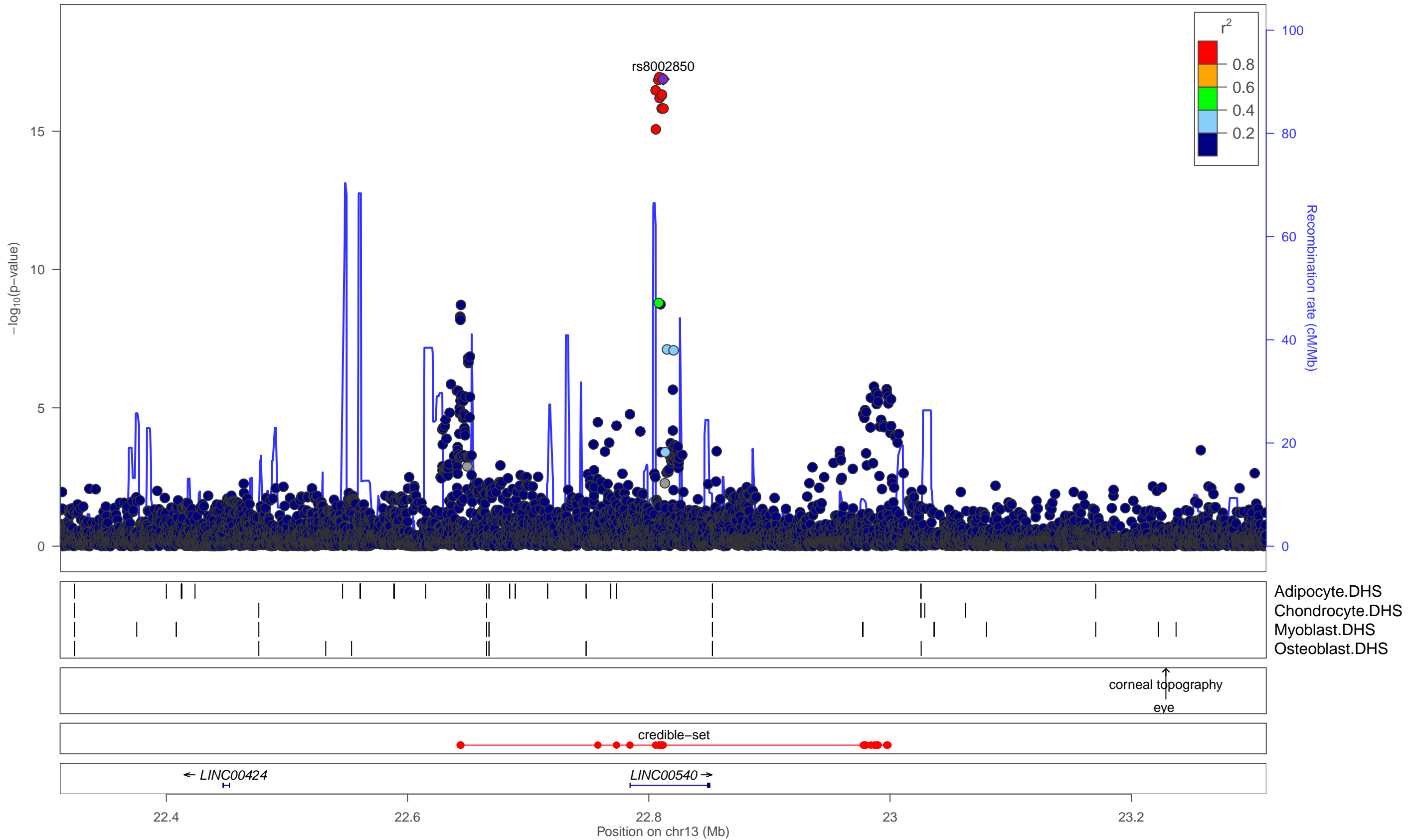
min P-value: 1.1E-17 [chr13:22808735]

max P-value: 1E0 [chr13:22166906]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs60074257	13	22.18257	2.0610	credible-set	red
rs912387	13	22.18579	3.0290	credible-set	red
rs912389	13	22.18609	2.9811	credible-set	red
rs2798259	13	22.19052	2.8106	credible-set	red
rs9509989	13	22.64357	2.9699	credible-set	red
rs375140515	13	22.64379	3.1307	credible-set	red
rs4770236	13	22.64381	2.8269	credible-set	red
rs1323168	13	22.64422	3.5765	credible-set	red
rs9552613	13	22.75776	2.3419	credible-set	red
rs17379702	13	22.77322	2.0476	credible-set	red
rs9506810	13	22.80563	2.5501	credible-set	red
rs6490706	13	22.80794	3.0906	credible-set	red
rs746679	13	22.80873	3.2231	credible-set	red
rs9552620	13	22.80890	2.2817	credible-set	red
rs9550824	13	22.81084	2.3763	credible-set	red
rs9550825	13	22.81086	2.3999	credible-set	red
rs8002850	13	22.81194	3.2044	credible-set	red
rs9510177	13	22.97779	2.4140	credible-set	red
rs9316969	13	22.97875	2.5078	credible-set	red
rs2202729	13	22.97925	2.8959	credible-set	red
rs9316971	13	22.98019	2.3695	credible-set	red
rs11366007	13	22.98409	2.3382	credible-set	red
rs34308527	13	22.98667	2.8371	credible-set	red
rs2102389	13	22.98839	2.5682	credible-set	red
rs2321231	13	22.98892	2.0553	credible-set	red
rs2874469	13	22.99006	2.4202	credible-set	red
rs148675064	13	22.99014	2.1763	credible-set	red
13:22997245_C_CTT	13	22.99724	2.5783	credible-set	red
13:22997245_C_T	13	22.99724	2.5043	credible-set	red
rs3008064	13	22.99828	2.4002	credible-set	red

eBMD SNP INDEX 221



date: Wed Jun 28 21:50:30 2017

build: hg19

display range: chr13:22311940–23311940 [22311940–23311940]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:22811940

number of SNPs plotted: 7415

min P-value: 1.1E-17 [chr13:22808735]

max P-value: 1E0 [chr13:22314136]

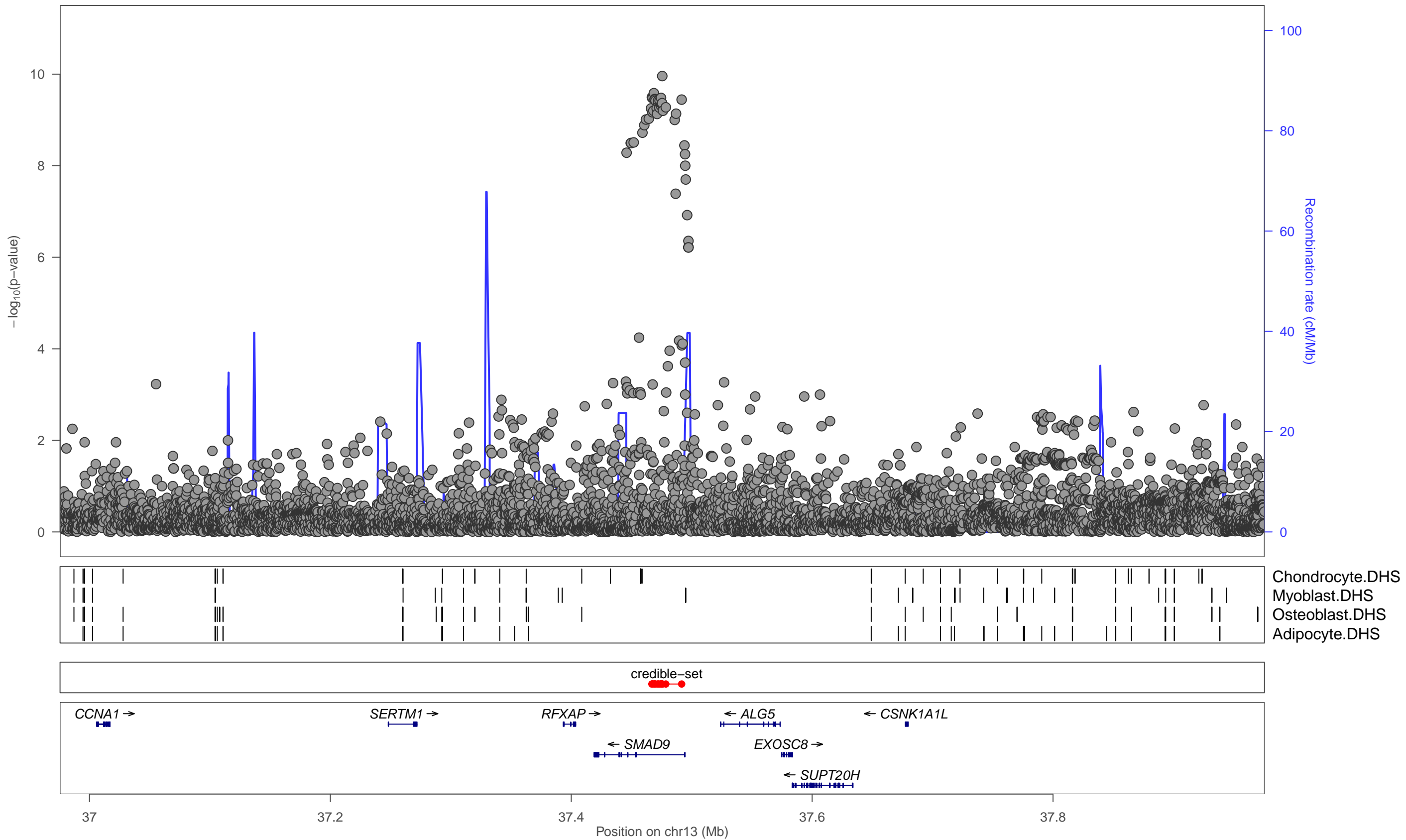
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	23.22869	corneal topography	Lu Y	6/01/2013	Nat Genet	23291589	rs1034200	EFO_0004345	GCST001806
13	23.22869	eye	Vitart V	18/08/2010	Hum Mol Genet	20719862	rs1034200	EFO_0004731	GCST000775

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9509989	13	22.64357	2.9853	credible-set	red
rs375140515	13	22.64379	3.1500	credible-set	red
rs4770236	13	22.64381	2.8534	credible-set	red
rs1323168	13	22.64422	3.5748	credible-set	red
rs9552613	13	22.75776	2.4293	credible-set	red
rs17379702	13	22.77322	2.1435	credible-set	red
rs57646239	13	22.78435	2.0929	credible-set	red
rs9506810	13	22.80563	2.5977	credible-set	red
rs6490706	13	22.80794	3.1038	credible-set	red
rs746679	13	22.80873	3.2302	credible-set	red
rs9552620	13	22.80890	2.3168	credible-set	red
rs9550824	13	22.81084	2.4067	credible-set	red
rs9550825	13	22.81086	2.4325	credible-set	red
rs8002850	13	22.81194	3.1942	credible-set	red
rs9510177	13	22.97779	2.4196	credible-set	red
rs9316969	13	22.97875	2.5000	credible-set	red
rs2202729	13	22.97925	2.8754	credible-set	red
rs9316971	13	22.98019	2.4286	credible-set	red
rs11366007	13	22.98409	2.3652	credible-set	red
rs34308527	13	22.98667	2.8529	credible-set	red
rs2102389	13	22.98839	2.5815	credible-set	red
rs2321231	13	22.98892	2.0971	credible-set	red
rs2874469	13	22.99006	2.4545	credible-set	red
rs148675064	13	22.99014	2.1999	credible-set	red
13:22997245_C_CTT	13	22.99724	2.5993	credible-set	red
13:22997245_C_T	13	22.99724	2.5339	credible-set	red
rs3008064	13	22.99828	2.4253	credible-set	red

eBMD SNP INDEX 222



date: Wed Jun 28 21:46:30 2017

build: hg19

display range: chr13:36975569–37975569 [36975569–37975569]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:37475569

number of SNPs plotted: 6082

min P-value: 1.1E-10 [chr13:37475568]

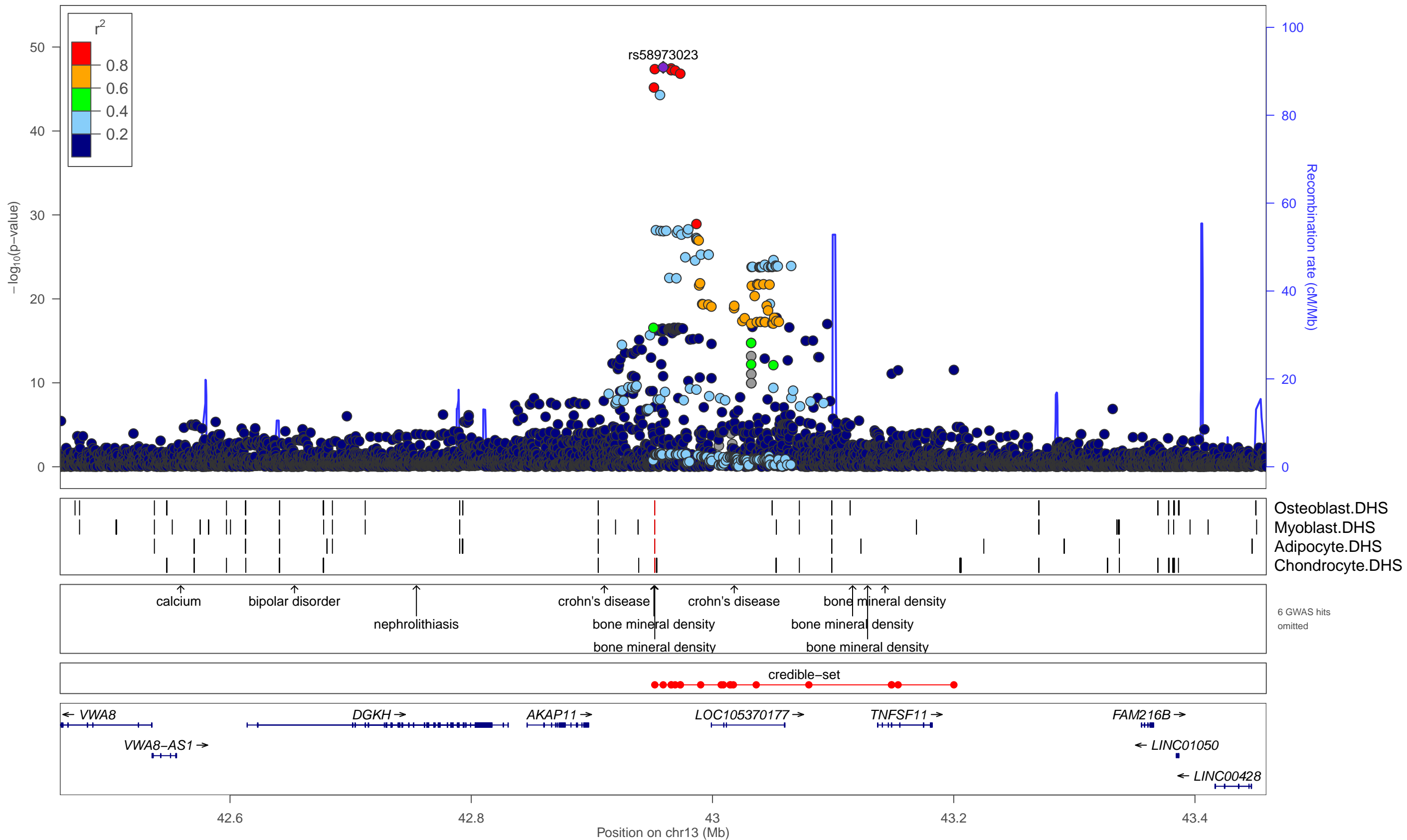
max P-value: 1E0 [chr13:37071363]

Warning: No usable LD information for reference SNP.

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1328042	13	37.46695	2.2298	credible-set	red
rs138079455	13	37.46713	2.2154	credible-set	red
rs2147168	13	37.46750	2.2154	credible-set	red
rs9547691	13	37.46859	2.3271	credible-set	red
rs12020196	13	37.46919	2.1886	credible-set	red
rs12020203	13	37.46929	2.1758	credible-set	red
rs55639205	13	37.46999	2.1514	credible-set	red
rs1854259	13	37.47206	2.1061	credible-set	red
rs4119480	13	37.47208	2.1513	credible-set	red
rs493248	13	37.47339	2.1513	credible-set	red
rs9547693	13	37.47449	2.0370	credible-set	red
rs9547694	13	37.47452	2.2155	credible-set	red
rs35112674	13	37.47508	2.0853	credible-set	red
rs9531993	13	37.47520	2.0746	credible-set	red
rs61950374	13	37.47548	2.0957	credible-set	red
rs371471055	13	37.47557	2.7346	credible-set	red
rs527929	13	37.47851	2.0019	credible-set	red
rs12427846	13	37.49165	2.1765	credible-set	red

eBMD SNP INDEX 223



date: Wed Jun 28 21:46:41 2017

build: hg19

display range: chr13:42459133–43459133 [42459133–43459133]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:42959133

number of SNPs plotted: 6275

min P-value: 2.6E-48 [chr13:42959133]

max P-value: 1E0 [chr13:42467993]

omitted GWAS Hits: chr13:43.01803–crohn's disease, chr13:43.116133–bone mineral density

omitted GWAS Hits: NA, NA

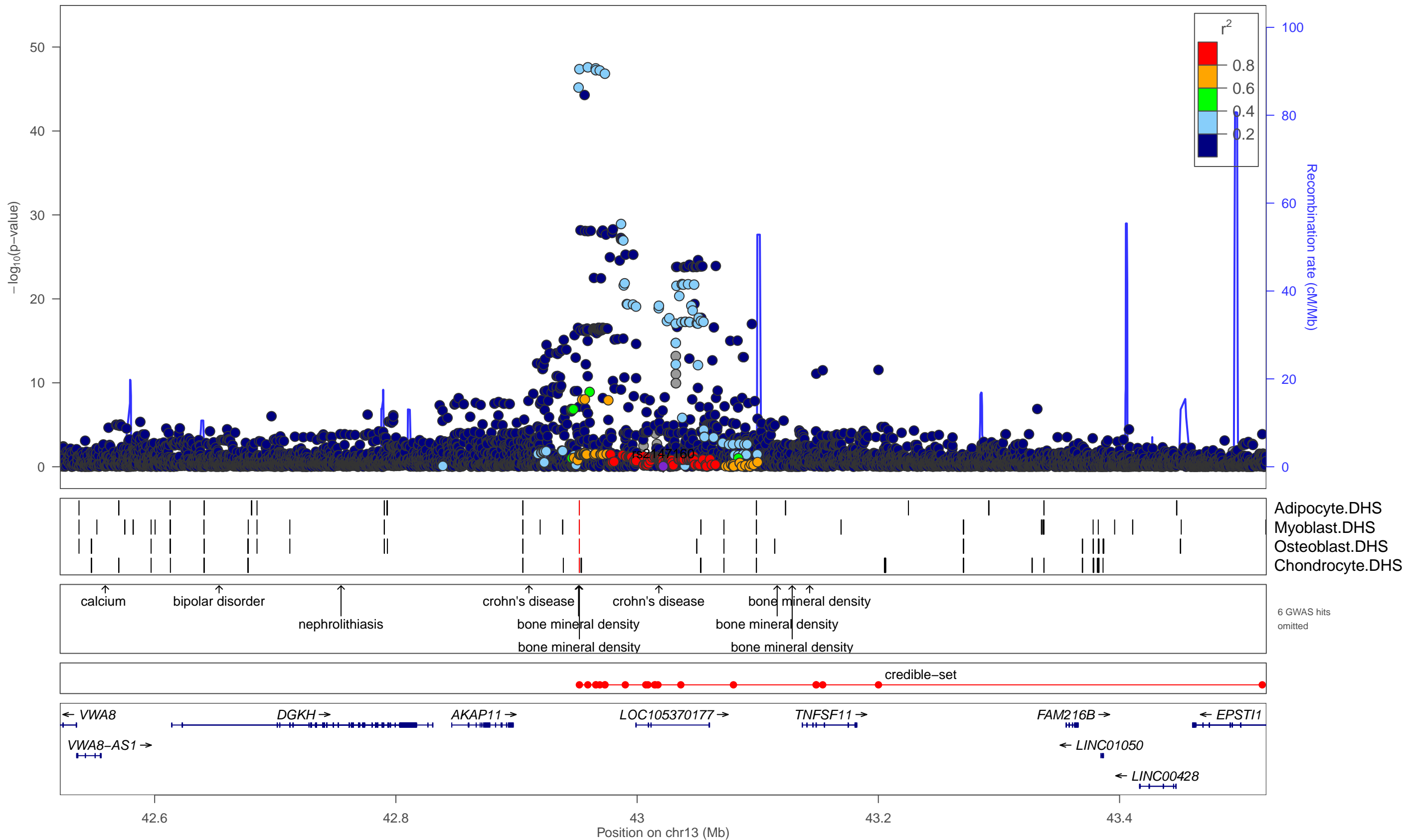
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	42.55908	calcium	O'Seaghda CM	19/09/2013	PLoS Genet	24068962	rs7336933	EFO_0004838	GCST002201
13	42.65344	bipolar disorder	Baum AE	8/05/2007	Mol Psychiatry	17486107	rs1012053	EFO_0000289	GCST000033
13	42.75452	nephrolithiasis	Urabe Y	1/03/2012	PLoS Genet	22396660	rs4142110	EFO_0004253	GCST001432
13	42.91032	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs61959448	EFO_0000384	GCST003044
13	42.95145	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs9533090	EFO_0003923	GCST001482
13	42.95145	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs9533090	EFO_0003923	GCST000494
13	42.95215	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs9594738	EFO_0003923	GCST000181
13	42.96569	bone mineral density	Styrkarsdottir U	5/05/2013	Nature	23644456	rs8001611	EFO_0003923	GCST002011
13	42.96584	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9533094	EFO_0004339	NA
13	42.96905	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs9533095	EFO_0003923	GCST002276
13	43.01803	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs9525625	EFO_0000384	GCST003044
13	43.03259	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs9594759	EFO_0003923	GCST000295
13	43.03259	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs9594759	EFO_0003923	GCST000180
13	43.05288	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs2062305	EFO_0000384	GCST000879
13	43.11613	bone mineral density	Paternoster L	18/11/2010	PLoS Genet	21124946	rs1021188	EFO_0003923	GCST000877
13	43.11613	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs1021188	EFO_0003923	GCST001870
13	43.12858	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs9525638	EFO_0003923	GCST002496
13	43.12858	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs9525638	EFO_0004840	GCST001593
13	43.14303	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs17536328	EFO_0003923	GCST002494

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9594738	13	42.95215	2.6341	credible-set	red
rs58973023	13	42.95913	3.0054	credible-set	red
rs8001611	13	42.96569	2.8665	credible-set	red
rs9533094	13	42.96584	3.1228	credible-set	red
rs9533095	13	42.96905	3.0641	credible-set	red
13:42973283_T_TA	13	42.97328	2.4039	credible-set	red
rs11617942	13	42.97338	2.0460	credible-set	red
rs17063286	13	42.99019	13.5957	credible-set	red
rs2324873	13	43.00719	13.5957	credible-set	red
rs1924415	13	43.00901	3.8645	credible-set	red
rs12864265	13	43.01446	2.9398	credible-set	red
rs9315916	13	43.01511	2.8706	credible-set	red
rs182920022	13	43.01729	2.6863	credible-set	red
rs182455415	13	43.03623	2.1336	credible-set	red
rs144504686	13	43.07988	2.0497	credible-set	red
rs199818393	13	43.14835	2.3914	credible-set	red
rs138818878	13	43.14855	2.6663	credible-set	red
rs117543324	13	43.15387	3.4428	credible-set	red
rs78667121	13	43.20010	3.5146	credible-set	red

eBMD SNP INDEX 224



date: Wed Jun 28 21:46:14 2017

build: hg19

display range: chr13:42521639–43521639 [42521639–43521639]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:43021639

number of SNPs plotted: 6431

min P-value: 2.6E-48 [chr13:42959133]

max P-value: 1E0 [chr13:42542279]

omitted GWAS Hits: chr13:43.01803–crohn's disease, chr13:43.116133–bone mineral density

omitted GWAS Hits: NA, NA

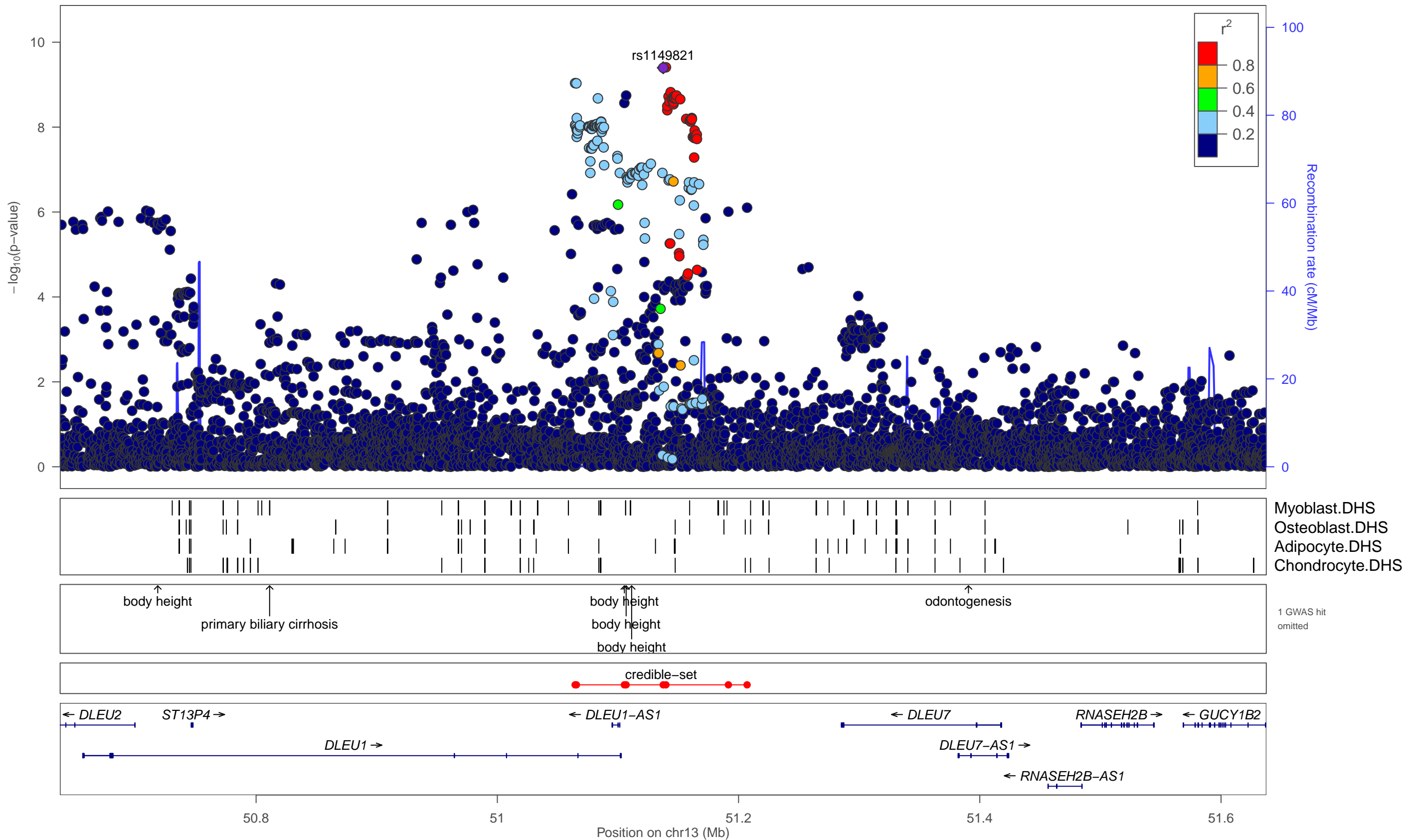
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	42.55908	calcium	O'Seaghda CM	19/09/2013	PLoS Genet	24068962	rs7336933	EFO_0004838	GCST002201
13	42.65344	bipolar disorder	Baum AE	8/05/2007	Mol Psychiatry	17486107	rs1012053	EFO_0000289	GCST000033
13	42.75452	nephrolithiasis	Urabe Y	1/03/2012	PLoS Genet	22396660	rs4142110	EFO_0004253	GCST001432
13	42.91032	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs61959448	EFO_0000384	GCST003044
13	42.95145	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs9533090	EFO_0003923	GCST001482
13	42.95145	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs9533090	EFO_0003923	GCST000494
13	42.95215	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs9594738	EFO_0003923	GCST000181
13	42.96569	bone mineral density	Styrkarsdottir U	5/05/2013	Nature	23644456	rs8001611	EFO_0003923	GCST002011
13	42.96584	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9533094	EFO_0004339	NA
13	42.96905	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs9533095	EFO_0003923	GCST002276
13	43.01803	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs9525625	EFO_0000384	GCST003044
13	43.03259	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs9594759	EFO_0003923	GCST000295
13	43.03259	bone mineral density	Styrkarsdottir U	29/04/2008	N Engl J Med	18445777	rs9594759	EFO_0003923	GCST000180
13	43.05288	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs2062305	EFO_0000384	GCST000879
13	43.11613	bone mineral density	Paternoster L	18/11/2010	PLoS Genet	21124946	rs1021188	EFO_0003923	GCST000877
13	43.11613	bone mineral density	Paternoster L	21/02/2013	PLoS Genet	23437003	rs1021188	EFO_0003923	GCST001870
13	43.12858	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs9525638	EFO_0003923	GCST002496
13	43.12858	cortical thickness	Zheng HF	5/07/2012	PLoS Genet	22792071	rs9525638	EFO_0004840	GCST001593
13	43.14303	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs17536328	EFO_0003923	GCST002494

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9594738	13	42.95215	2.6414	credible-set	red
rs58973023	13	42.95913	3.0148	credible-set	red
rs8001611	13	42.96569	2.8760	credible-set	red
rs9533094	13	42.96584	3.1357	credible-set	red
rs9533095	13	42.96905	3.0724	credible-set	red
13:42973283_T_TA	13	42.97328	2.4166	credible-set	red
rs11617942	13	42.97338	2.0543	credible-set	red
rs17063286	13	42.99019	13.6054	credible-set	red
rs2324873	13	43.00719	13.6054	credible-set	red
rs1924415	13	43.00901	3.8752	credible-set	red
rs12864265	13	43.01446	2.9524	credible-set	red
rs9315916	13	43.01511	2.8772	credible-set	red
rs182920022	13	43.01729	2.7073	credible-set	red
rs182455415	13	43.03623	2.1483	credible-set	red
rs144504686	13	43.07988	2.0422	credible-set	red
rs199818393	13	43.14835	2.3918	credible-set	red
rs138818878	13	43.14855	2.6740	credible-set	red
rs117543324	13	43.15387	3.4563	credible-set	red
rs78667121	13	43.20010	3.5250	credible-set	red
rs9525710	13	43.51830	2.2970	credible-set	red

eBMD SNP INDEX 225



date: Wed Jun 28 21:47:03 2017

build: hg19

display range: chr13:50637529–51637529 [50637529–51637529]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:51137529

number of SNPs plotted: 5340

min P-value: 3.9E-10 [chr13:51139771]

max P-value: 1E0 [chr13:50943362]

omitted GWAS Hits: chr13:51.390598–odontogenesis

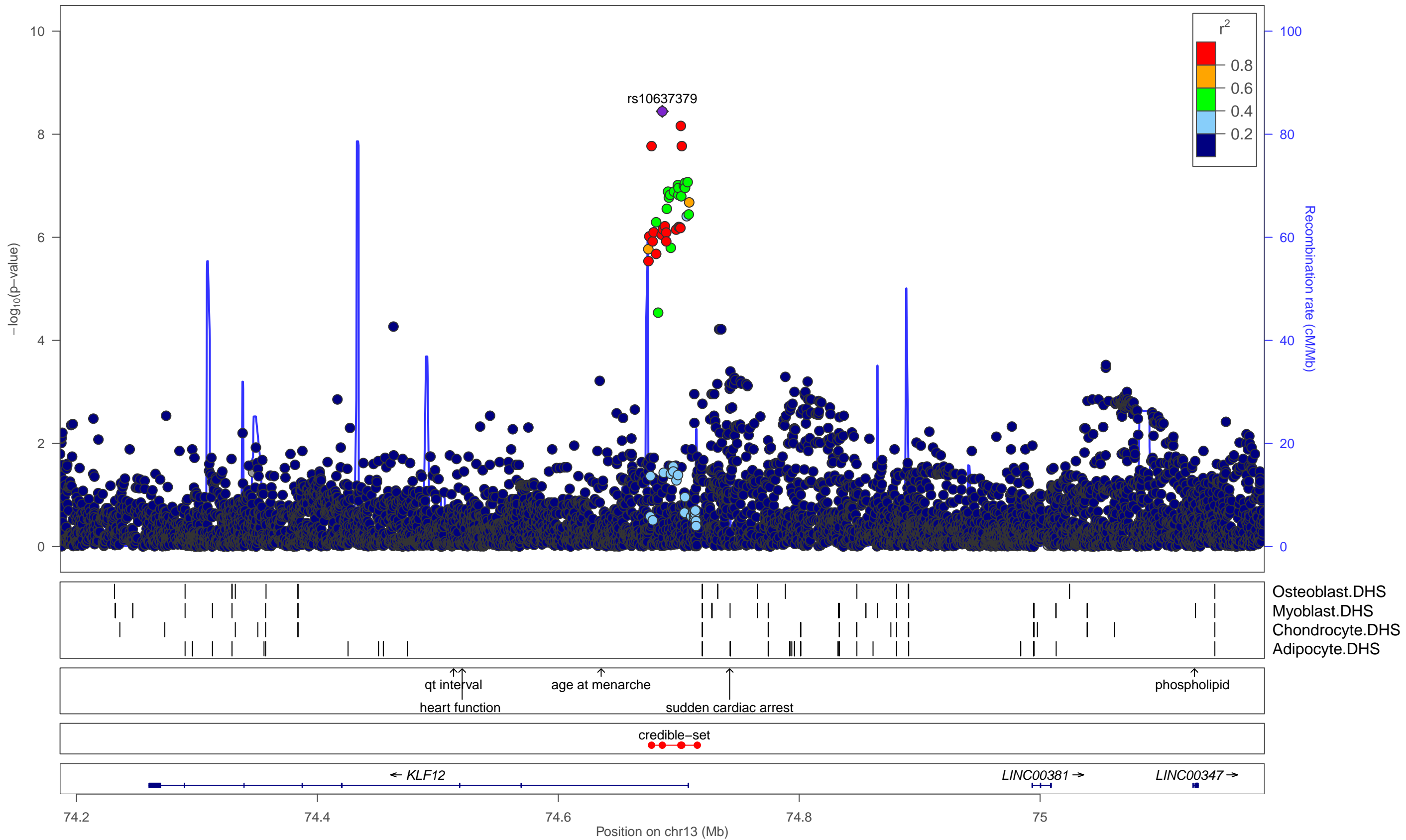
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	50.71847	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs2687950	EFO_0004339	GCST002647
13	50.81122	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs9591325	EFO_1001486	GCST003129
13	51.10533	body height	Lango Allen H	29/09/2010	Nature	20881960	rs3118905	EFO_0004339	GCST000817
13	51.10533	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs3118905	EFO_0004339	GCST002647
13	51.10679	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs3118906	EFO_0004339	GCST001956
13	51.11136	body height	Weedon MN	6/04/2008	Nat Genet	18391952	rs3116602	EFO_0004339	GCST000174
13	51.11690	body height	Soranzo N	3/04/2009	PLoS Genet	19343178	rs3118914	EFO_0004339	GCST000372
13	51.39060	odontogenesis	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs9316505	GO_0042476	GCST002031

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7983949	13	51.06449	2.2816	credible-set	red
rs9562983	13	51.06556	2.2753	credible-set	red
rs3118905	13	51.10533	2.1455	credible-set	red
rs3118906	13	51.10679	2.3416	credible-set	red
rs1149821	13	51.13753	2.5085	credible-set	red
rs770379	13	51.13977	2.5226	credible-set	red
rs112554778	13	51.19156	2.0334	credible-set	red
rs112501164	13	51.20708	2.1311	credible-set	red

eBMD SNP INDEX 226



date: Wed Jun 28 21:47:14 2017

build: hg19

display range: chr13:74186341–75186341 [74186341–75186341]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:74686341

number of SNPs plotted: 6610

min P-value: 3.6E-9 [chr13:74686341]

max P-value: 1E0 [chr13:74255202]

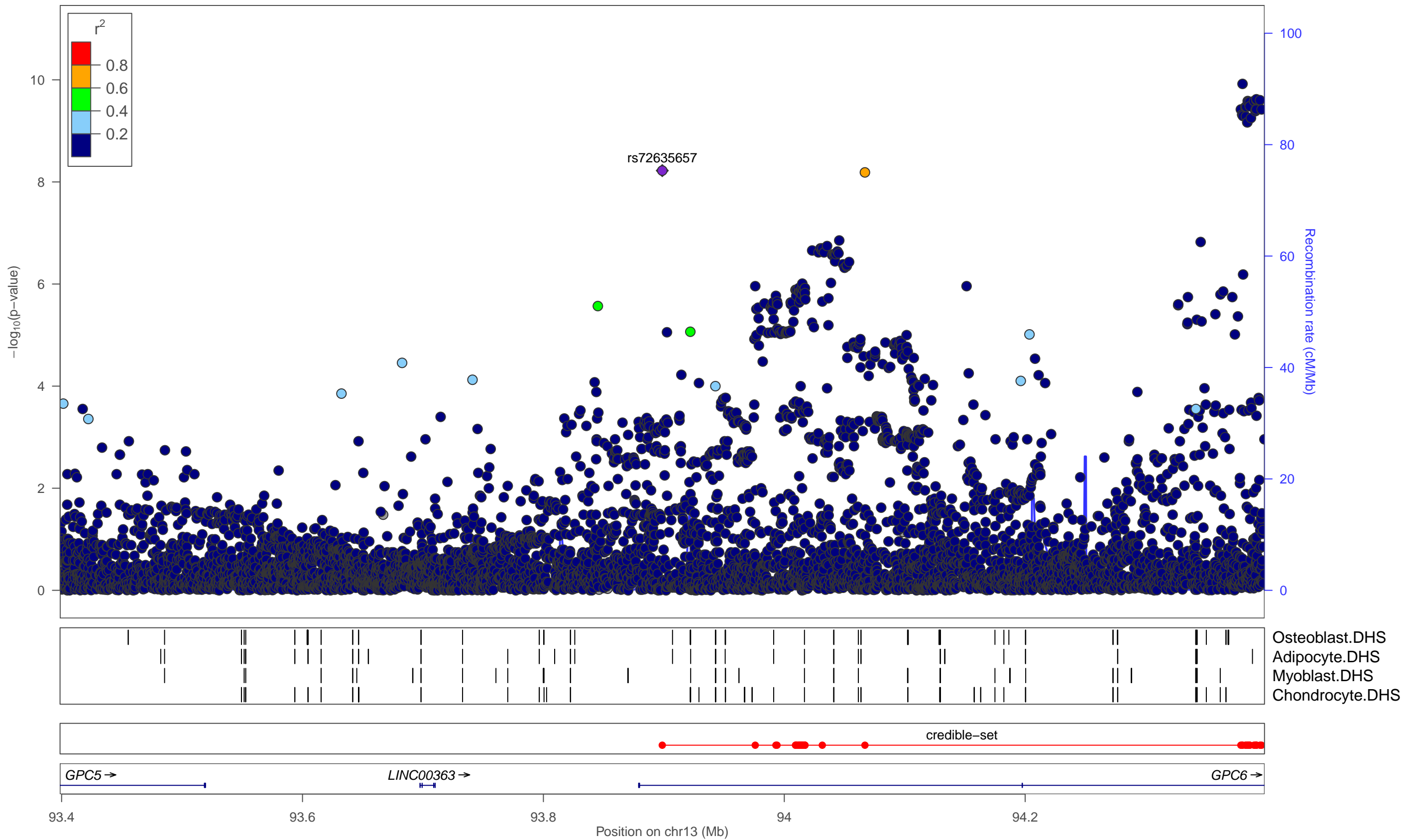
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	74.51312	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs728926	EFO_0004682	GCST002500
13	74.52019	heart function	Sotoodehnia N	14/11/2010	Nat Genet	21076409	rs1886512	EFO_0004311	GCST000872
13	74.63559	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs1324913	EFO_0004703	GCST002541
13	74.74232	sudden cardiac arrest	Aouizerat BE	10/06/2011	BMC Cardiovasc Disord	21658281	rs12429889	EFO_0004278	GCST001099
13	75.12811	phospholipid	Demirkan A	16/02/2012	PLoS Genet	22359512	rs17718828	EFO_0004639	GCST001414

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9530279	13	74.67745	2.6287	credible-set	red
rs10637379	13	74.68634	3.5106	credible-set	red
rs3812849	13	74.70174	3.1402	credible-set	red
rs66504755	13	74.70254	2.6582	credible-set	red
rs9530283	13	74.71543	2.0608	credible-set	red

eBMD SNP INDEX 227



date: Wed Jun 28 21:47:22 2017

build: hg19

display range: chr13:93398697–94398697 [93398697–94398697]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:93898697

number of SNPs plotted: 6094

min P-value: 1.2E-10 [chr13:94380457]

max P-value: 1E0 [chr13:93404785]

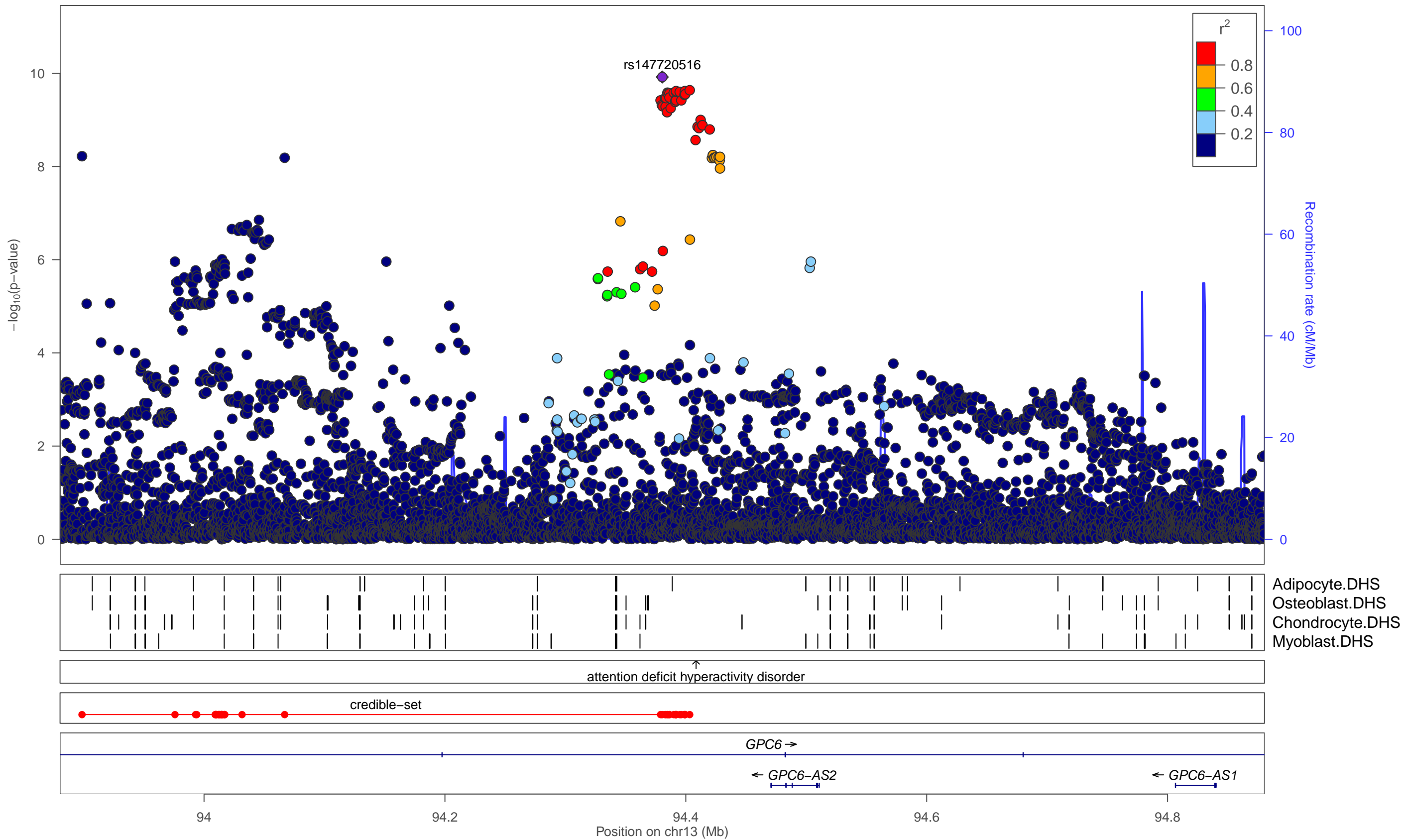
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72635657	13	93.89870	3.6023	credible-set	red
rs9561309	13	93.97589	2.3342	credible-set	red
rs144145258	13	93.99304	2.1103	credible-set	red
rs200323699	13	93.99395	2.0460	credible-set	red
rs9561328	13	94.00931	2.2710	credible-set	red
rs4771871	13	94.00949	2.1899	credible-set	red
rs67896403	13	94.00982	2.1890	credible-set	red
rs34244406	13	94.00986	2.2029	credible-set	red
rs12872918	13	94.01044	2.1827	credible-set	red
rs2038725	13	94.01201	2.1533	credible-set	red
rs2038726	13	94.01210	2.2370	credible-set	red
rs12427984	13	94.01272	2.1685	credible-set	red
rs12867297	13	94.01291	2.1572	credible-set	red
rs12872256	13	94.01410	2.2045	credible-set	red
rs4771872	13	94.01456	2.0804	credible-set	red
rs4773739	13	94.01456	2.0722	credible-set	red
rs7981910	13	94.01462	2.3378	credible-set	red
rs1323977	13	94.01497	2.3571	credible-set	red
rs34375635	13	94.01581	2.2055	credible-set	red
rs150594973	13	94.01695	2.0037	credible-set	red
rs78015250	13	94.01697	2.2896	credible-set	red
rs34333926	13	94.01714	2.3059	credible-set	red
rs35080627	13	94.01715	2.1423	credible-set	red
rs149514471	13	94.03156	2.0425	credible-set	red
rs72640504	13	94.06695	3.5648	credible-set	red
rs1933780	13	94.37906	2.2239	credible-set	red
rs1320551	13	94.38014	2.0279	credible-set	red
rs147720516	13	94.38046	2.3271	credible-set	red
rs9524179	13	94.38281	2.2559	credible-set	red
rs4572255	13	94.38359	2.2702	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9301904	13	94.38477	2.4682	credible-set	red
rs9524180	13	94.38503	2.4404	credible-set	red
rs11410920	13	94.38637	2.4110	credible-set	red
rs7331304	13	94.38641	2.3023	credible-set	red
rs4589418	13	94.38999	2.4451	credible-set	red
rs7982874	13	94.39115	2.1355	credible-set	red
rs7988294	13	94.39148	2.1799	credible-set	red
rs7325393	13	94.39187	2.1779	credible-set	red
rs7330359	13	94.39188	2.4963	credible-set	red
rs7323475	13	94.39194	2.4717	credible-set	red
rs4771882	13	94.39495	2.4952	credible-set	red
rs6492675	13	94.39624	2.1725	credible-set	red

eBMD SNP INDEX 228



date: Wed Jun 28 21:46:58 2017

build: hg19

display range: chr13:93880457–94880457 [93880457–94880457]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:94380457

number of SNPs plotted: 6177

min P-value: 1.2E-10 [chr13:94380457]

max P-value: 1E0 [chr13:93895335]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	94.40851	attention deficit hyperactivity disorder	Lesch KP	7/10/2008	J Neural Transm	18839057	rs7995215	EFO_0003888	GCST000246

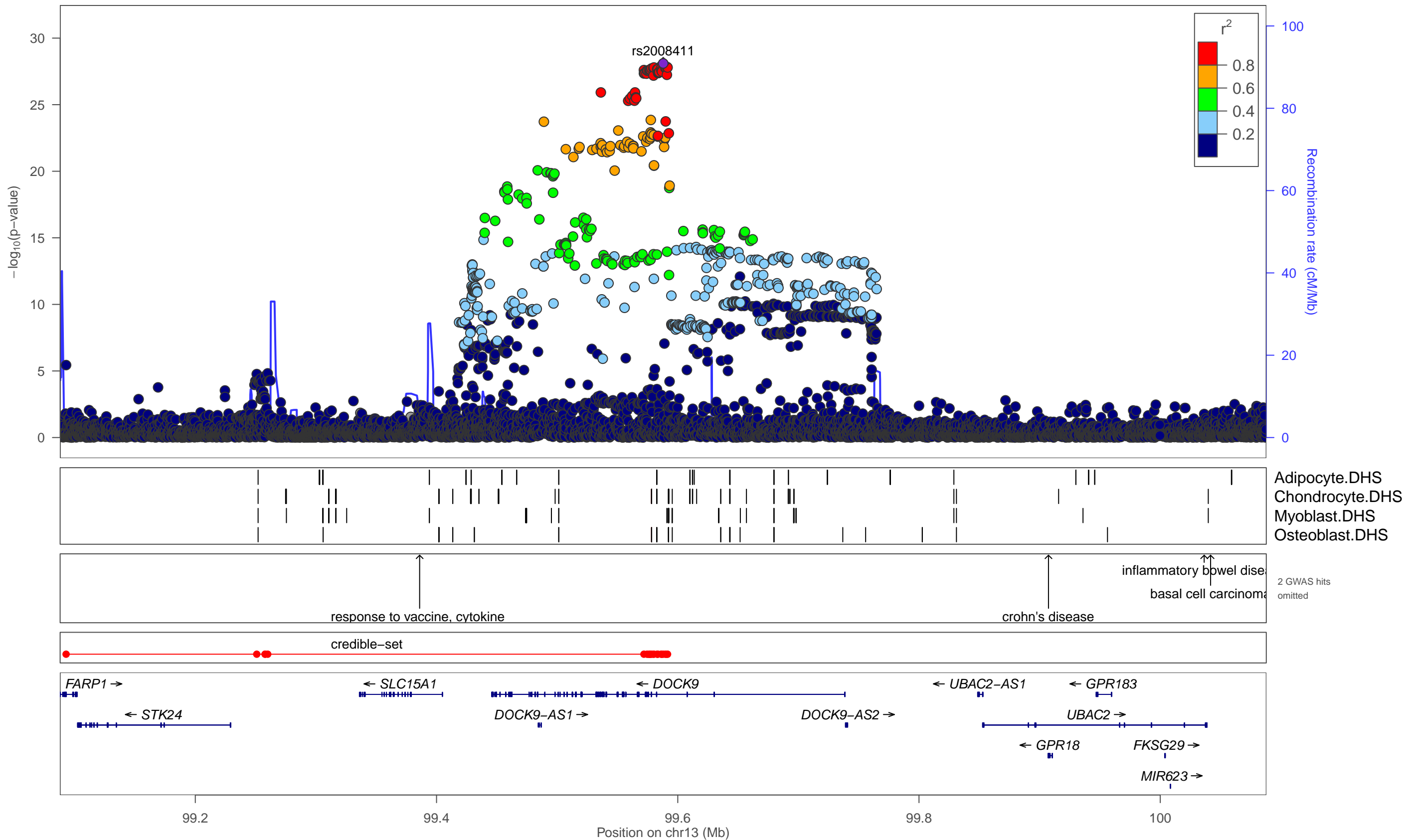
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72635657	13	93.89870	3.5904	credible-set	red
rs9561309	13	93.97589	2.3508	credible-set	red
rs144145258	13	93.99304	2.0965	credible-set	red
rs200323699	13	93.99395	2.1004	credible-set	red
rs9561328	13	94.00931	2.3010	credible-set	red
rs4771871	13	94.00949	2.2083	credible-set	red
rs67896403	13	94.00982	2.2257	credible-set	red
rs34244406	13	94.00986	2.1798	credible-set	red
rs35764605	13	94.00993	2.0059	credible-set	red
rs12872918	13	94.01044	2.2212	credible-set	red
rs2038725	13	94.01201	2.1492	credible-set	red
rs2038726	13	94.01210	2.2501	credible-set	red
rs12427984	13	94.01272	2.1621	credible-set	red
rs12867297	13	94.01291	2.1938	credible-set	red
rs12872256	13	94.01410	2.2209	credible-set	red
rs4771872	13	94.01456	2.0939	credible-set	red
rs4773739	13	94.01456	2.1187	credible-set	red
rs7981910	13	94.01462	2.3554	credible-set	red
rs1323977	13	94.01497	2.3859	credible-set	red
rs34375635	13	94.01581	2.2513	credible-set	red
rs78015250	13	94.01697	2.3473	credible-set	red
rs34333926	13	94.01714	2.3407	credible-set	red
rs35080627	13	94.01715	2.1579	credible-set	red
rs149514471	13	94.03156	2.0445	credible-set	red
rs72640504	13	94.06695	3.5910	credible-set	red
rs1933780	13	94.37906	2.0479	credible-set	red
rs147720516	13	94.38046	2.1996	credible-set	red
rs9524179	13	94.38281	2.1388	credible-set	red
rs4572255	13	94.38359	2.1401	credible-set	red
rs9301904	13	94.38477	2.2670	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9524180	13	94.38503	2.3211	credible-set	red
rs11410920	13	94.38637	2.2918	credible-set	red
rs7331304	13	94.38641	2.1690	credible-set	red
rs4589418	13	94.38999	2.3499	credible-set	red
rs7988294	13	94.39148	2.0258	credible-set	red
rs7325393	13	94.39187	2.0693	credible-set	red
rs7330359	13	94.39188	2.3772	credible-set	red
rs7323475	13	94.39194	2.3969	credible-set	red
rs4771882	13	94.39495	2.3685	credible-set	red
rs6492675	13	94.39624	2.0143	credible-set	red
rs6492676	13	94.39894	2.2119	credible-set	red
rs4773758	13	94.39926	2.4168	credible-set	red
rs4773759	13	94.39951	2.3335	credible-set	red
rs1933784	13	94.40324	2.4413	credible-set	red

eBMD SNP INDEX 229



date: Wed Jun 28 21:48:06 2017

build: hg19

display range: chr13:99087929–100087929 [99087929–100087929]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:99587929

number of SNPs plotted: 7064

min P-value: 7.9E-29 [chr13:99587929]

max P-value: 1E0 [chr13:100035997]

omitted GWAS Hits: NA, NA

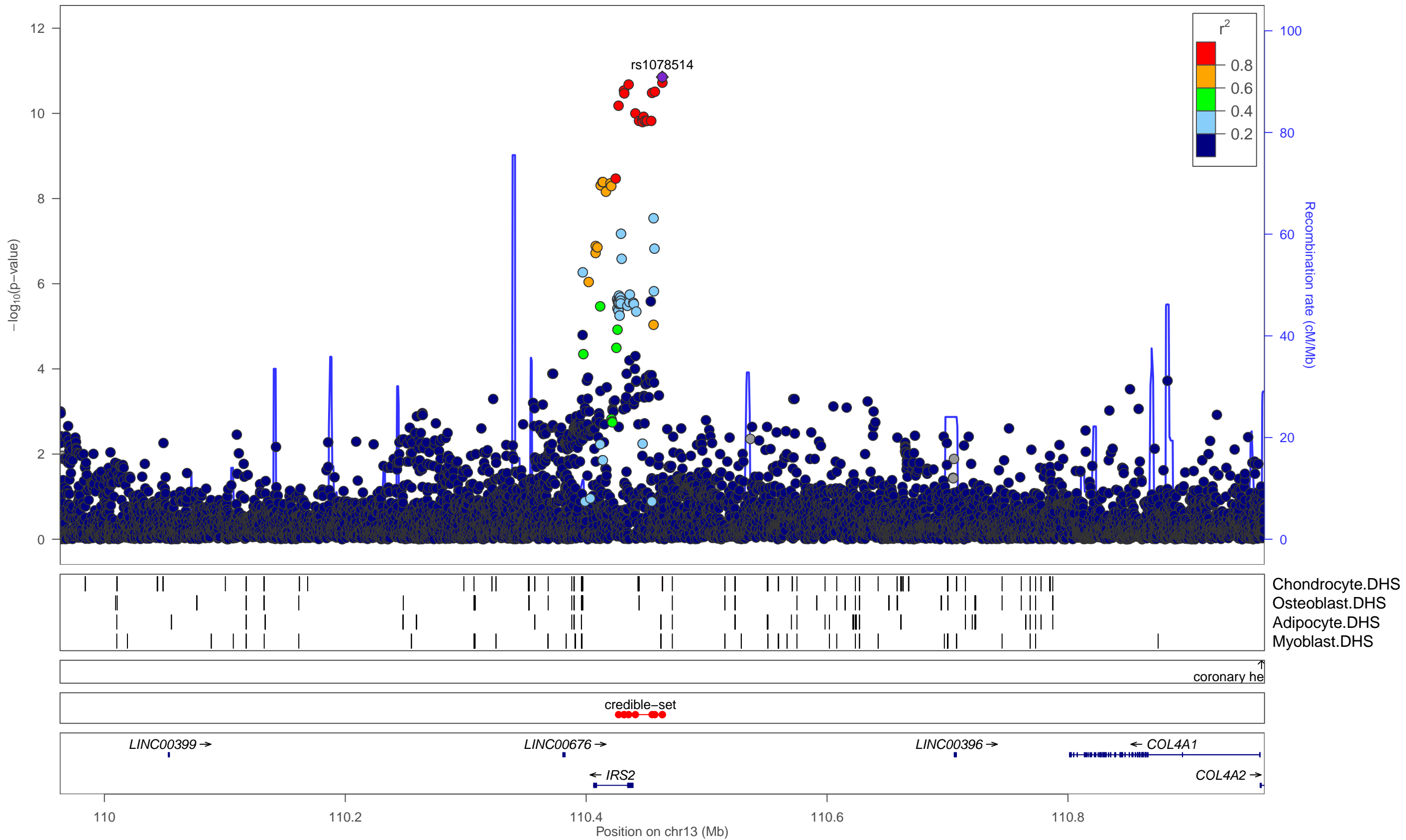
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	99.38599	response to vaccine, cytokine	Kennedy RB	19/05/2012	Hum Genet	22610502	rs9582259	EFO_0004645, EFO_0004873	GCST001533
13	99.90734	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs3742130	EFO_0000384	GCST003044
13	99.90734	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs3742130	EFO_0003767	GCST003043
13	99.95662	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs9557195	EFO_0003767	GCST001725
13	100.03642	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs9557207	EFO_0003767	GCST003043
13	100.04174	basal cell carcinoma	Nan H	23/06/2011	Hum Mol Genet	21700618	rs7335046	EFO_0004193	GCST001124

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs118156301	13	99.09287	3.2554	credible-set	red
rs9517371	13	99.25093	2.3324	credible-set	red
rs370545033	13	99.25787	2.0651	credible-set	red
rs369932720	13	99.25788	2.0444	credible-set	red
rs11617377	13	99.26003	2.4453	credible-set	red
rs9513510	13	99.57192	2.1357	credible-set	red
rs7983462	13	99.57452	2.0977	credible-set	red
rs7984548	13	99.57513	2.0797	credible-set	red
rs7995988	13	99.57645	2.0949	credible-set	red
rs7997044	13	99.57649	2.0461	credible-set	red
rs7995846	13	99.57653	2.1494	credible-set	red
rs9517485	13	99.57722	2.1310	credible-set	red
rs7339203	13	99.57755	2.1466	credible-set	red
rs7318788	13	99.57827	2.2540	credible-set	red
rs1028910	13	99.57973	2.2788	credible-set	red
rs1324979	13	99.58023	2.3343	credible-set	red
rs2004113	13	99.58300	2.2074	credible-set	red
rs2094602	13	99.58320	2.1850	credible-set	red
rs912683	13	99.58341	2.1884	credible-set	red
rs7998317	13	99.58624	2.2472	credible-set	red
rs2892933	13	99.58649	2.0933	credible-set	red
rs5806085	13	99.58692	2.0023	credible-set	red
rs2008411	13	99.58793	2.6707	credible-set	red
rs6491469	13	99.58975	2.2745	credible-set	red
rs7337984	13	99.59023	2.3044	credible-set	red
rs10589817	13	99.59120	2.3653	credible-set	red
rs8001655	13	99.59153	2.3324	credible-set	red

eBMD SNP INDEX 230



date: Wed Jun 28 21:48:14 2017

build: hg19

display range: chr13:109963168–110963168 [109963168–110963168]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr13:110463168

number of SNPs plotted: 7625

min P-value: 1.4E-11 [chr13:110463168]

max P-value: 1E0 [chr13:109996202]

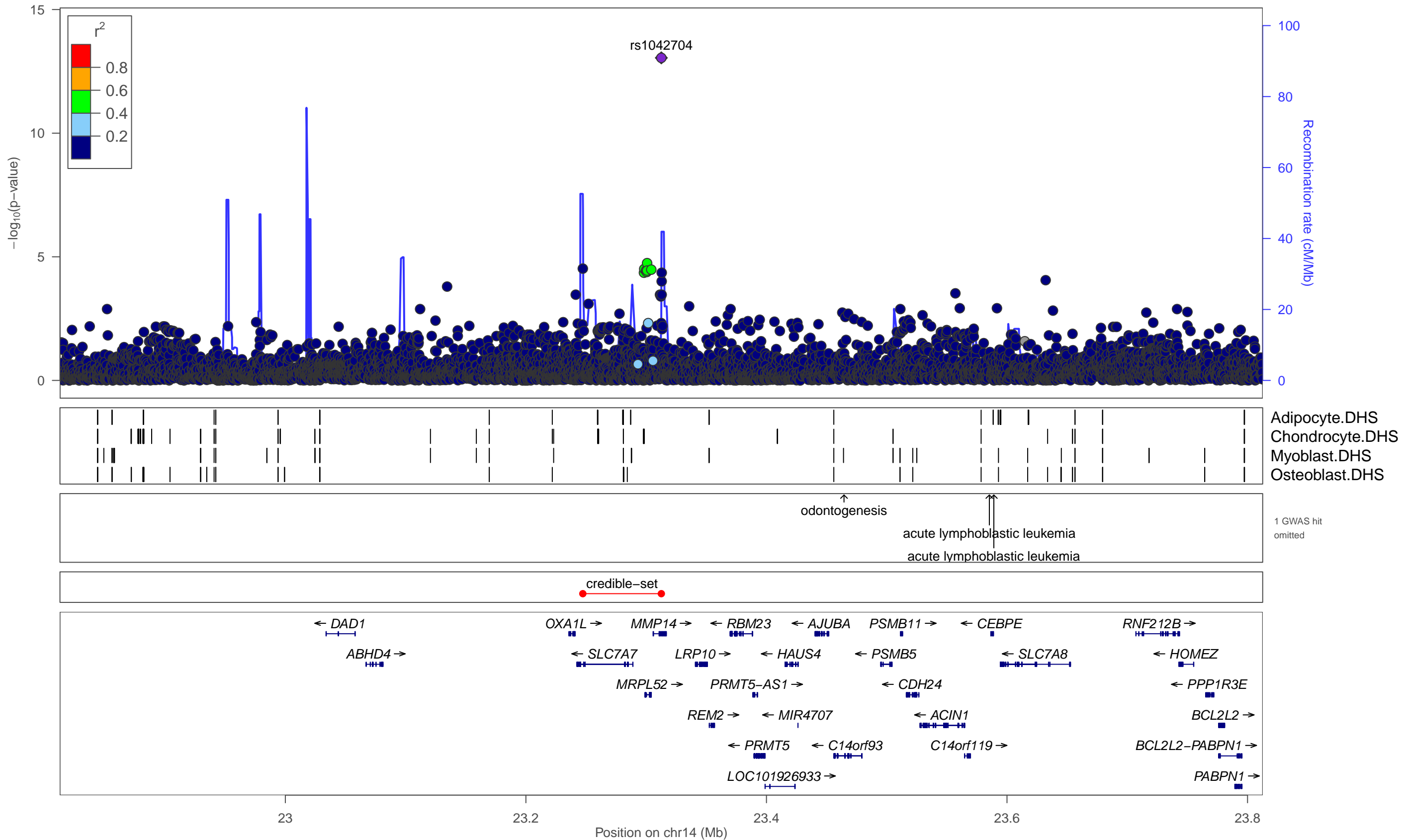
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
13	110.9607	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs4773144	EFO_0001645	GCST000998

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9521510	13	110.4269	2.2627	credible-set	red
rs34692120	13	110.4314	2.6461	credible-set	red
rs4771648	13	110.4316	2.5694	credible-set	red
rs1805097	13	110.4352	2.8035	credible-set	red
rs34027127	13	110.4408	2.0728	credible-set	red
rs1966662	13	110.4547	2.5825	credible-set	red
rs9521520	13	110.4570	2.6123	credible-set	red
rs1078514	13	110.4632	3.0085	credible-set	red
rs892670	13	110.4633	2.8553	credible-set	red

eBMD SNP INDEX 231



date: Wed Jun 28 21:48:23 2017

build: hg19

display range: chr14:22812594–23812594 [22812594–23812594]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:23312594

number of SNPs plotted: 6557

min P-value: 9E-14 [chr14:23312594]

max P-value: 1E0 [chr14:22828500]

omitted GWAS Hits: NA

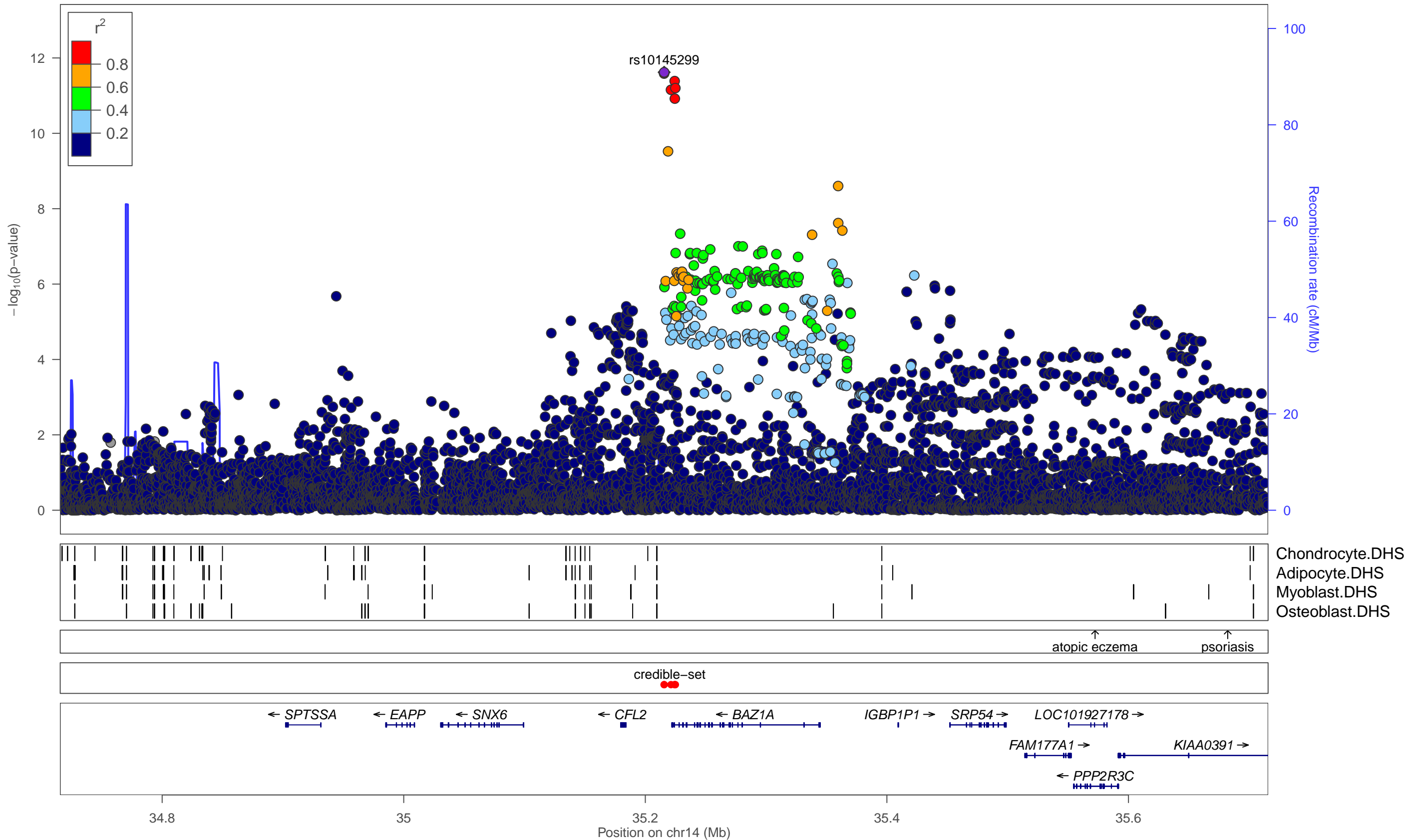
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	23.46448	odontogenesis	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs997154	GO_0042476	GCST002031
14	23.58533	acute lymphoblastic leukemia	Xu H	19/03/2013	J Natl Cancer Inst	23512250	rs4982731	EFO_0000220	GCST001912
14	23.58906	acute lymphoblastic leukemia	Ellinghaus E	11/11/2011	Leukemia	22076464	rs2239633	EFO_0000220	GCST001320
14	23.58906	b-cell acute lymphoblastic leukemia	Migliorini G	30/08/2013	Blood	23996088	rs2239633	EFO_0000094	GCST002158

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4981439	14	23.24732	2.1255	credible-set	red
rs1042704	14	23.31259	13.6157	credible-set	red

eBMD SNP INDEX 232



date: Wed Jun 28 21:49:04 2017

build: hg19

display range: chr14:34715602–35715602 [34715602–35715602]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:35215602

number of SNPs plotted: 6969

min P-value: 2.4E-12 [chr14:35215602]

max P-value: 1E0 [chr14:34725037]

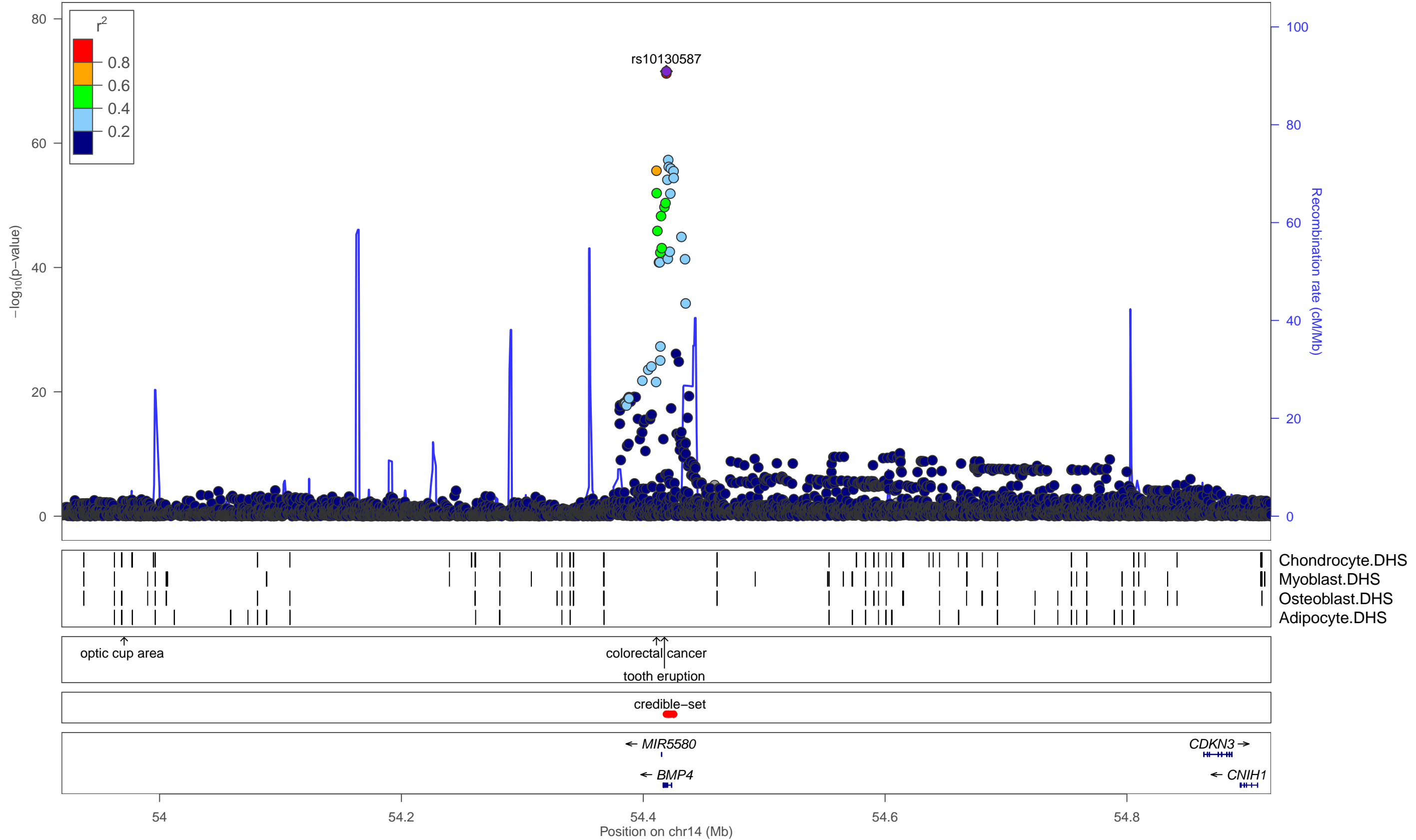
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	35.57236	atopic eczema	Paternoster L	19/10/2015	Nat Genet	26482879	rs2143950	EFO_0000274	GCST003184
14	35.68217	psoriasis	Baurecht H	8/01/2015	Am J Hum Genet	25574825	rs12586317	EFO_0000676	GCST002738
14	35.68217	psoriasis	Stuart PE	17/10/2010	Nat Genet	20953189	rs12586317	EFO_0000676	GCST000834

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10132997	14	35.21555	3.1867	credible-set	red
rs10145299	14	35.21560	3.2336	credible-set	red
rs6571686	14	35.22124	2.6815	credible-set	red
rs8010579	14	35.22429	2.9429	credible-set	red
rs13379337	14	35.22443	2.4346	credible-set	red
rs58074336	14	35.22489	2.7316	credible-set	red

eBMD SNP INDEX 233



date: Wed Jun 28 21:48:08 2017

build: hg19

display range: chr14:53919110–54919110 [53919110–54919110]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:54419110

number of SNPs plotted: 5576

min P-value: 2.8E-72 [chr14:54419110]

max P-value: 1E0 [chr14:53937785]

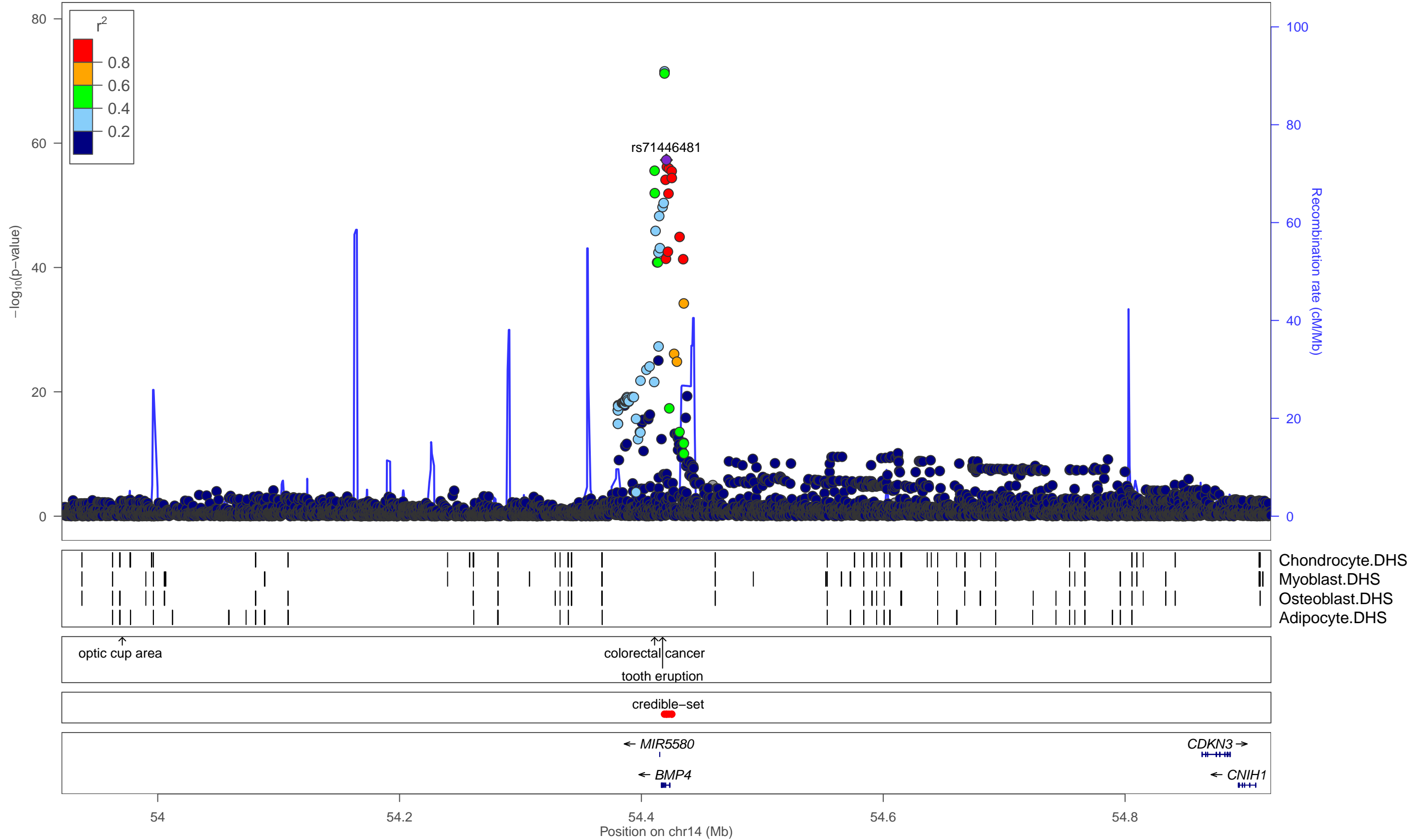
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	53.97067	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs10130556	EFO_0006940	GCST002764
14	54.41092	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs4444235	EFO_0005842	GCST000270
14	54.41752	tooth eruption	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs17563	GO_0044691	GCST002030

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10130587	14	54.41911	5.3417	credible-set	red
rs71446481	14	54.42065	3.2246	credible-set	red
rs2761884	14	54.42105	3.0003	credible-set	red
rs762643	14	54.42277	3.0093	credible-set	red
rs2761887	14	54.42505	2.8113	credible-set	red
rs2032423	14	54.42515	2.1968	credible-set	red

eBMD SNP INDEX 234



date: Wed Jun 28 21:50:28 2017

build: hg19

display range: chr14:53920647–54920647 [53920647–54920647]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:54420647

number of SNPs plotted: 5580

min P-value: 2.8E-72 [chr14:54419110]

max P-value: 1E0 [chr14:53937785]

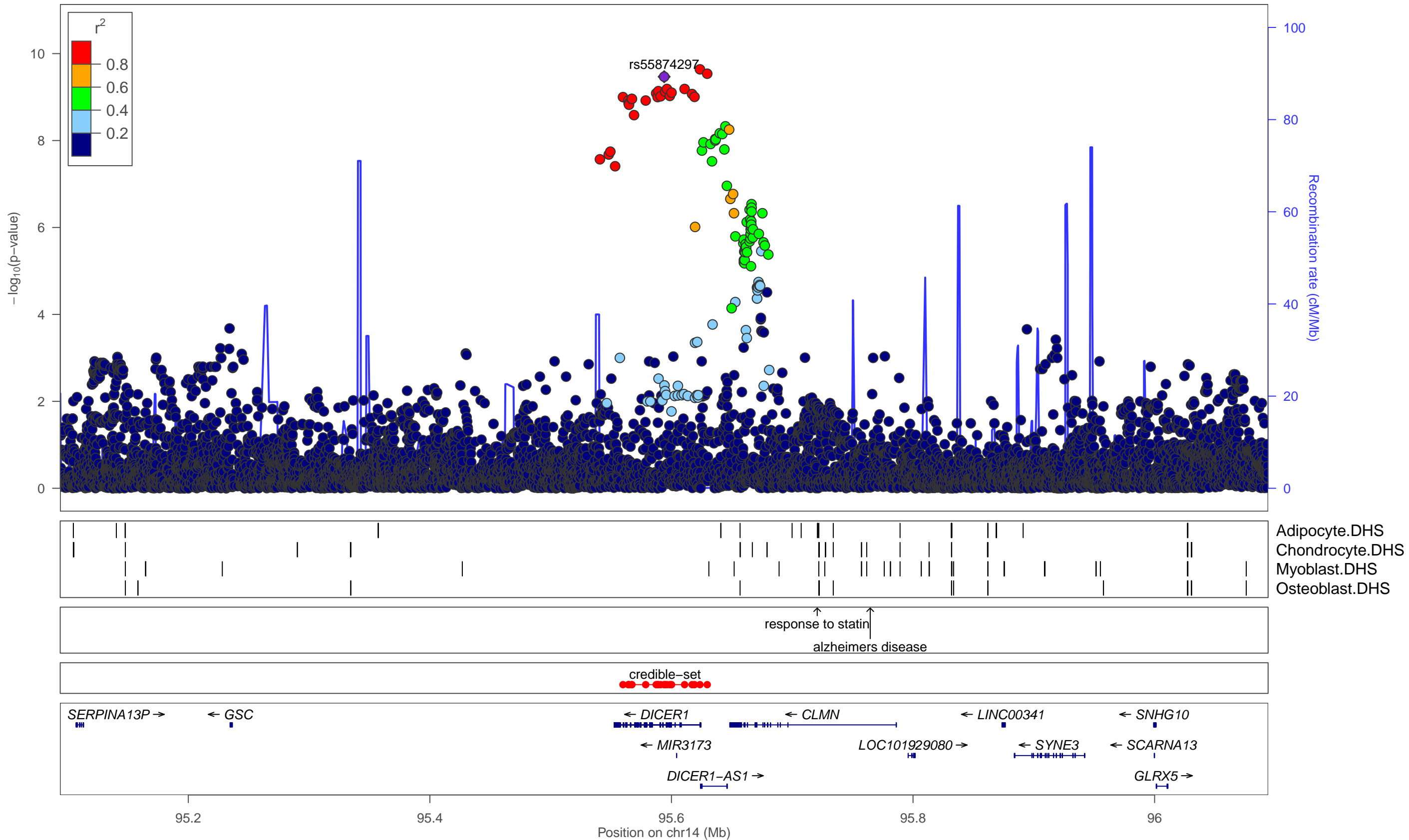
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	53.97067	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs10130556	EFO_0006940	GCST002764
14	54.41092	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs4444235	EFO_0005842	GCST000270
14	54.41752	tooth eruption	Fatemifar G	23/05/2013	Hum Mol Genet	23704328	rs17563	GO_0044691	GCST002030

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10130587	14	54.41911	5.3395	credible-set	red
rs71446481	14	54.42065	3.2239	credible-set	red
rs2761884	14	54.42105	3.0025	credible-set	red
rs762643	14	54.42277	3.0090	credible-set	red
rs2761887	14	54.42505	2.8099	credible-set	red
rs2032423	14	54.42515	2.2037	credible-set	red

eBMD SNP INDEX 235



date: Wed Jun 28 21:48:19 2017

build: hg19

display range: chr14:95093957–96093957 [95093957–96093957]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:95593957

number of SNPs plotted: 7954

min P-value: 2.3E-10 [chr14:95623594]

max P-value: 1E0 [chr14:95137473]

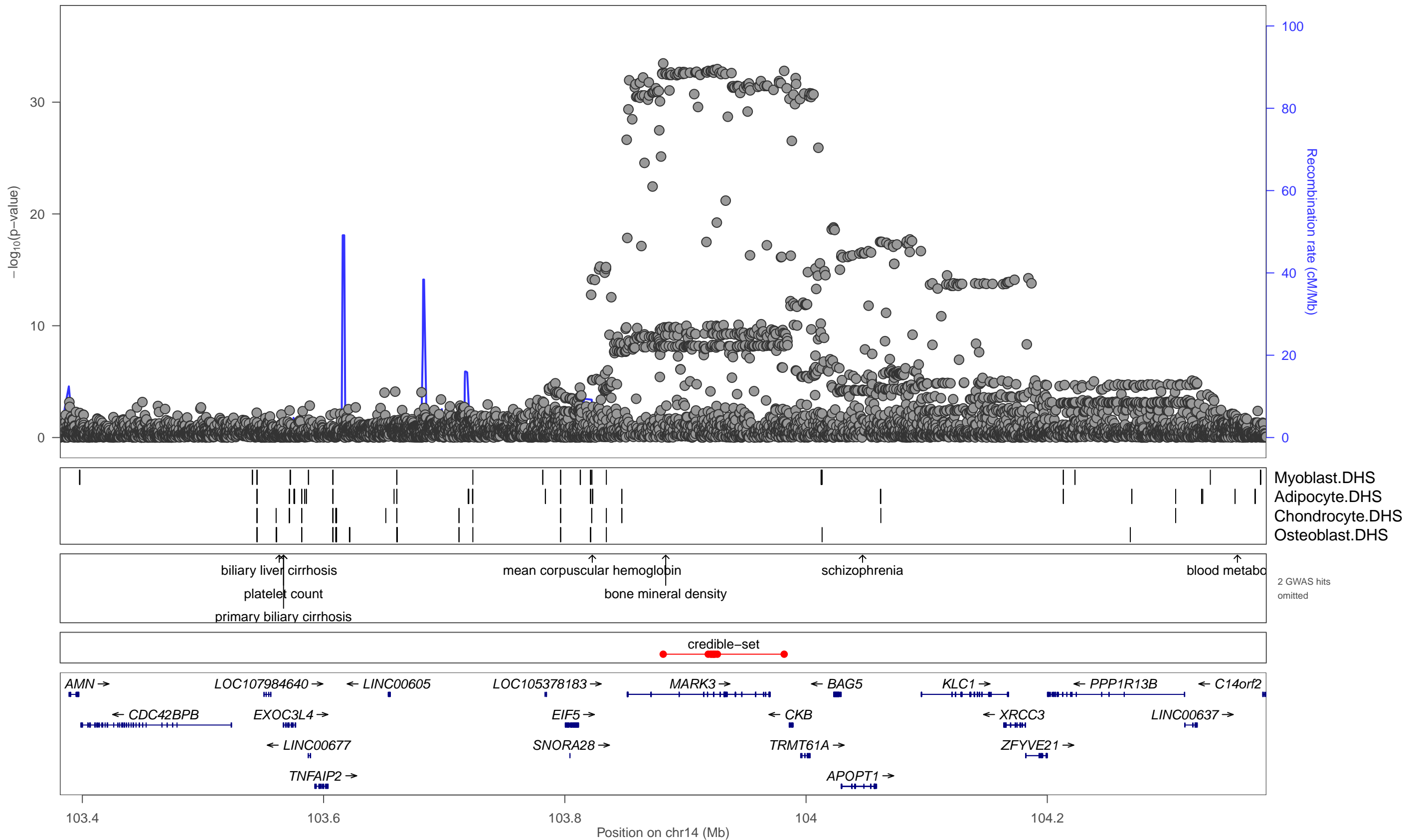
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	95.72068	response to statin	Barber MJ	22/03/2010	PLoS One	20339536	rs8014194	GO_0036273	GCST000635
14	95.76456	alzheimers disease	Sherva R	24/03/2013	Alzheimers Dement	23535033	rs115102486	EFO_0000249	GCST001915

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2282265	14	95.55986	2.2063	credible-set	red
rs17091808	14	95.56423	2.1247	credible-set	red
rs17091810	14	95.56454	2.0573	credible-set	red
14:95564890_T_TAA	14	95.56489	2.0266	credible-set	red
rs66633849	14	95.56703	2.1637	credible-set	red
rs17091818	14	95.56730	2.1637	credible-set	red
rs2297730	14	95.57868	2.1265	credible-set	red
rs67822993	14	95.58736	2.2949	credible-set	red
rs10498642	14	95.58854	2.2055	credible-set	red
rs9323922	14	95.58918	2.3476	credible-set	red
rs67737119	14	95.59107	2.2239	credible-set	red
rs55874297	14	95.59396	2.7050	credible-set	red
rs55758041	14	95.59482	2.3350	credible-set	red
rs1953535	14	95.59628	2.4007	credible-set	red
rs4905282	14	95.59866	2.2333	credible-set	red
rs11629124	14	95.60007	2.3115	credible-set	red
rs7146983	14	95.61088	2.4006	credible-set	red
rs8006416	14	95.61706	2.2786	credible-set	red
rs17091855	14	95.61910	2.2107	credible-set	red
rs148499550	14	95.62359	2.8992	credible-set	red
rs56375669	14	95.62962	2.7838	credible-set	red

eBMD SNP INDEX 236



date: Wed Jun 28 21:48:28 2017

build: hg19

display range: chr14:103381565–104381565 [103381565–104381565]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr14:103881565

number of SNPs plotted: 6723

min P-value: 3.4E-34 [chr14:103881561]

max P-value: 1E0 [chr14:103405556]

omitted GWAS Hits: chr14:103.822762–mean corpuscular hemoglobin, chr14:103.883633–bone mineral density

Warning: No usable LD information for reference SNP.

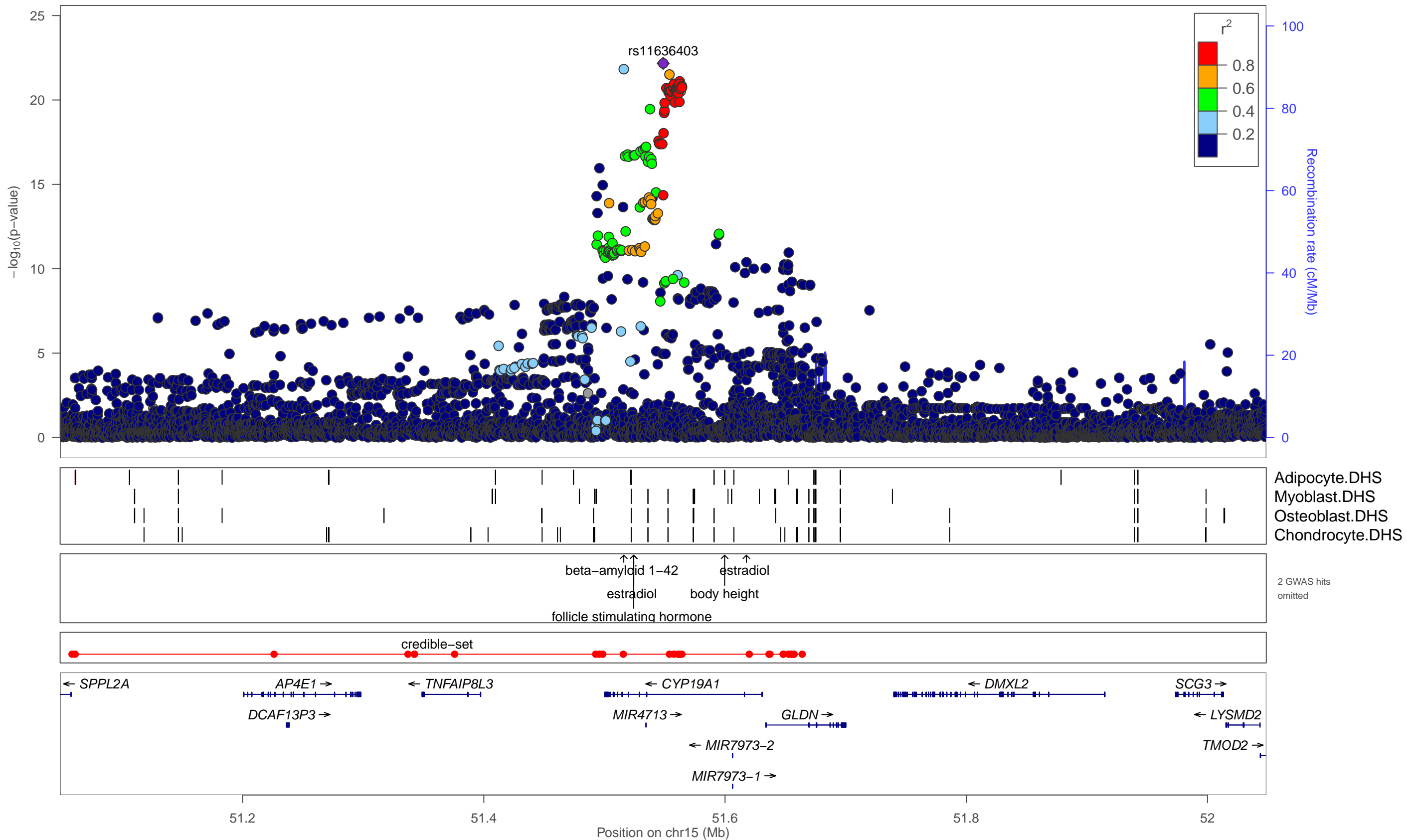
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
14	103.5632	biliary liver cirrhosis	Mells GF	13/03/2011	Nat Genet	21399635	rs8017161	EFO_0004267	GCST001010
14	103.5668	platelet count	Gieger C	30/11/2011	Nature	22139419	rs2297067	EFO_0004309	GCST001337
14	103.5668	primary biliary cirrhosis	Cordell HJ	22/09/2015	Nat Commun	26394269	rs2297067	EFO_1001486	GCST003129
14	103.5728	mean platelet volume	Gieger C	30/11/2011	Nature	22139419	rs944002	EFO_0004584	GCST001335
14	103.5728	serum gamma–glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs944002	EFO_0004532	GCST001277
14	103.5728	serum gamma–glutamyl transferase	Middelberg RP	1/11/2011	Hum Mol Genet	22010049	rs944002	EFO_0004532	GCST001307
14	103.8228	mean corpuscular hemoglobin	van der Harst P	5/12/2012	Nature	23222517	rs17616316	EFO_0004527	GCST001765
14	103.8836	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs11623869	EFO_0003923	GCST001482
14	104.0468	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs12887734	EFO_0000692	GCST003048
14	104.0468	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs12887734	EFO_0000692	GCST002539
14	104.3576	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs4144027	EFO_0005664	GCST002443

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35816040	14	103.8816	2.8060	credible-set	red
rs28361338	14	103.9189	2.0699	credible-set	red
rs10143247	14	103.9209	2.0424	credible-set	red
rs7150317	14	103.9217	2.0424	credible-set	red
rs10141120	14	103.9230	2.0424	credible-set	red
rs2273699	14	103.9235	2.1656	credible-set	red
rs7146506	14	103.9245	2.1312	credible-set	red
rs10139279	14	103.9265	2.2433	credible-set	red
rs72710714	14	103.9818	2.0701	credible-set	red

eBMD SNP INDEX 237



date: Wed Jun 28 21:48:36 2017

build: hg19

display range: chr15:51048744–52048744 [51048744–52048744]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:51548744

number of SNPs plotted: 5254

min P-value: 6.8E-23 [chr15:51548744]

max P-value: 1E0 [chr15:51191248]

omitted GWAS Hits: chr15:51.599683–body height, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	51.51606	beta-amyloid 1-42	Han MR	8/10/2010	BMC Neurol	20932310	rs2899472	EFO_0004670	GCST000827
15	51.52429	estradiol	Chen Z	18/09/2013	J Med Genet	24049095	rs2414095	EFO_0004697	GCST002195
15	51.52429	follicle stimulating hormone	Chen Z	18/09/2013	J Med Genet	24049095	rs2414095	EFO_0004768	GCST002199
15	51.53050	body height	Lango Allen H	29/09/2010	Nature	20881960	rs16964211	EFO_0004339	GCST000817
15	51.53050	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs16964211	EFO_0004339	GCST002647
15	51.59968	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs10519302	EFO_0004339	GCST002702
15	51.61771	estradiol	Chen Z	18/09/2013	J Med Genet	24049095	rs2445762	EFO_0004697	GCST002195
15	51.63449	calcaneal bone quantitative ultrasound	Hwang JY	12/12/2015	Bone	26686025	rs2446422	EFO_0007772	GCST003196

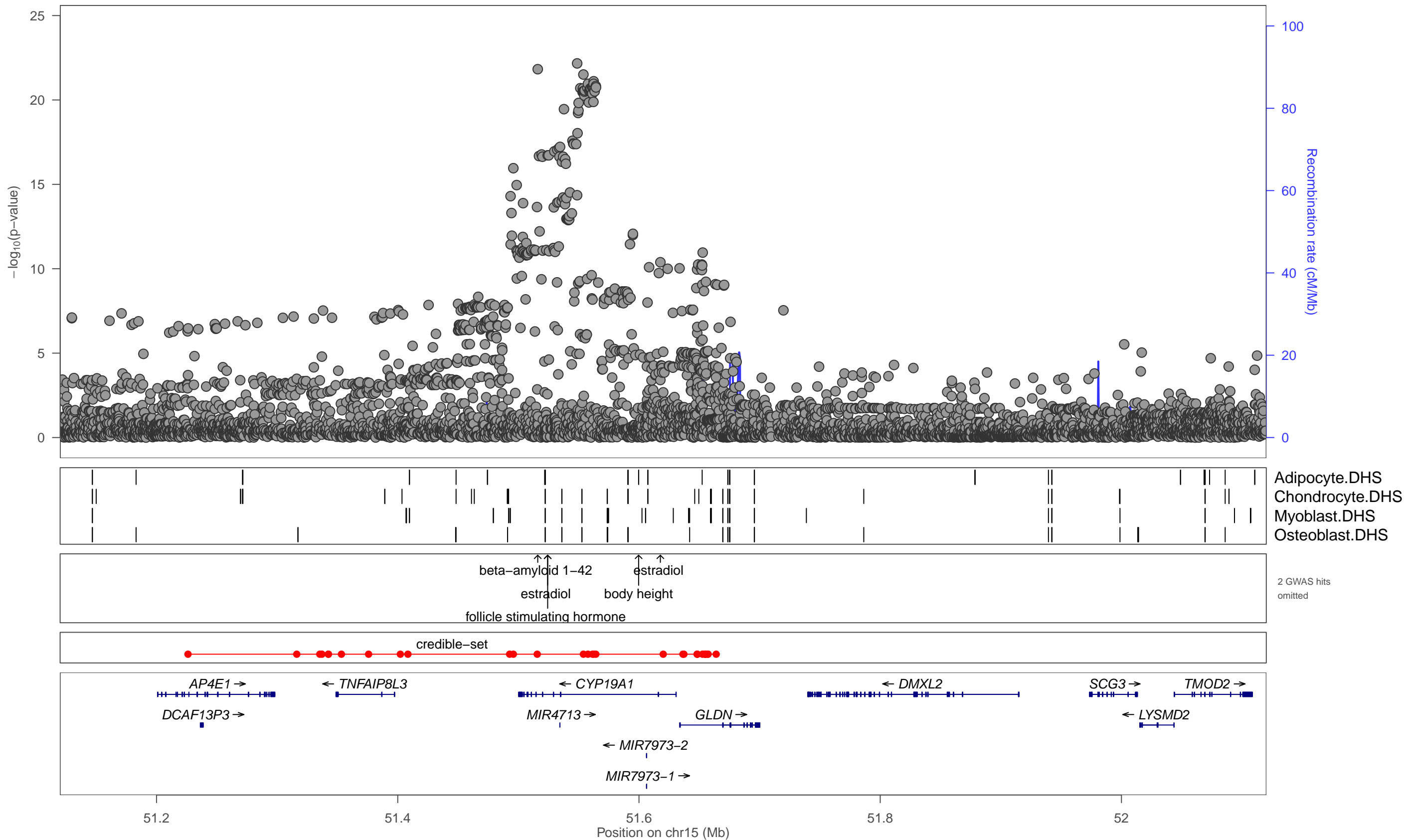
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs142069683	15	51.05860	2.3303	credible-set	red
rs58959216	15	51.06123	2.8707	credible-set	red
rs3784302	15	51.22610	2.5889	credible-set	red
rs12911715	15	51.33710	2.4566	credible-set	red
rs1550332	15	51.34250	2.2570	credible-set	red
rs1550333	15	51.34250	2.2524	credible-set	red
rs3803369	15	51.37583	2.3669	credible-set	red
rs5812542	15	51.49275	3.6953	credible-set	red
rs934632	15	51.49583	3.5626	credible-set	red
rs6493485	15	51.49859	2.0079	credible-set	red
rs143728666	15	51.51564	2.3340	credible-set	red
rs17601876	15	51.55391	3.2889	credible-set	red
rs8029537	15	51.55770	2.3704	credible-set	red
rs8038715	15	51.56112	2.0961	credible-set	red
rs8042086	15	51.56148	2.1202	credible-set	red
rs2414100	15	51.56242	2.2169	credible-set	red
rs2414101	15	51.56243	2.0090	credible-set	red
rs11632926	15	51.56423	2.2401	credible-set	red
rs55671949	15	51.62008	2.2101	credible-set	red
rs868475	15	51.63645	2.0205	credible-set	red
rs11435881	15	51.63723	2.1511	credible-set	red
15:51648232_G_A	15	51.64823	2.2988	credible-set	red
rs4775939	15	51.64828	3.4079	credible-set	red
rs2470170	15	51.64832	2.2956	credible-set	red
rs4775940	15	51.65266	3.4427	credible-set	red
rs8031311	15	51.65473	2.4655	credible-set	red
rs35463563	15	51.65496	2.0971	credible-set	red
rs35754161	15	51.65505	2.3870	credible-set	red
rs56335081	15	51.65516	2.2568	credible-set	red
rs58010613	15	51.65691	2.5269	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17647970	15	51.65731	2.5340	credible-set	red
rs36064983	15	51.66398	2.6261	credible-set	red

eBMD SNP INDEX 238



date: Wed Jun 28 21:50:53 2017

build: hg19

display range: chr15:51120080–52120080 [51120080–52120080]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:51620080

number of SNPs plotted: 5273

min P-value: 6.8E-23 [chr15:51548744]

max P-value: 1E0 [chr15:51191248]

omitted GWAS Hits: chr15:51.599683–body height, NA

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	51.51606	beta-amyloid 1-42	Han MR	8/10/2010	BMC Neurol	20932310	rs2899472	EFO_0004670	GCST000827
15	51.52429	estradiol	Chen Z	18/09/2013	J Med Genet	24049095	rs2414095	EFO_0004697	GCST002195
15	51.52429	follicle stimulating hormone	Chen Z	18/09/2013	J Med Genet	24049095	rs2414095	EFO_0004768	GCST002199
15	51.53050	body height	Lango Allen H	29/09/2010	Nature	20881960	rs16964211	EFO_0004339	GCST000817
15	51.53050	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs16964211	EFO_0004339	GCST002647
15	51.59968	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs10519302	EFO_0004339	GCST002702
15	51.61771	estradiol	Chen Z	18/09/2013	J Med Genet	24049095	rs2445762	EFO_0004697	GCST002195
15	51.63449	calcaneal bone quantitative ultrasound	Hwang JY	12/12/2015	Bone	26686025	rs2446422	EFO_0007772	GCST003196

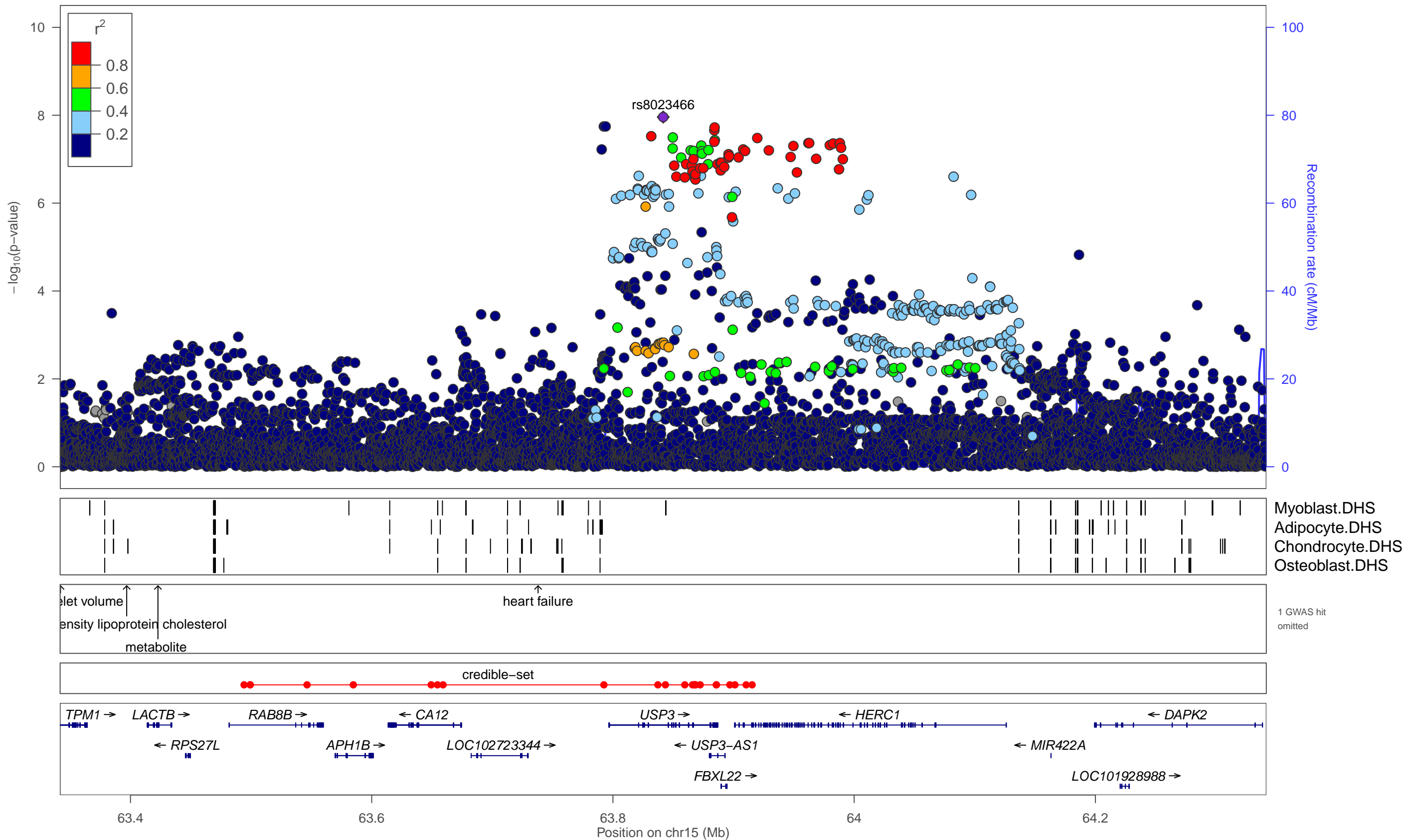
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs3784302	15	51.22610	2.6534	credible-set	red
rs34810611	15	51.31627	2.1262	credible-set	red
rs12900916	15	51.33536	2.0667	credible-set	red
rs12911715	15	51.33710	2.6671	credible-set	red
rs1550332	15	51.34250	2.3783	credible-set	red
rs1550333	15	51.34250	2.4309	credible-set	red
rs4775914	15	51.35330	2.0684	credible-set	red
rs3803369	15	51.37583	2.5468	credible-set	red
rs72727125	15	51.40215	2.2035	credible-set	red
rs112506333	15	51.40843	2.2108	credible-set	red
rs5812542	15	51.49275	3.3541	credible-set	red
rs934632	15	51.49583	3.2821	credible-set	red
rs143728666	15	51.51564	2.5987	credible-set	red
rs17601876	15	51.55391	3.5917	credible-set	red
rs8029537	15	51.55770	2.2065	credible-set	red
rs8042086	15	51.56148	2.0323	credible-set	red
rs2414100	15	51.56242	2.0400	credible-set	red
rs11632926	15	51.56423	2.0408	credible-set	red
rs55671949	15	51.62008	2.2085	credible-set	red
rs868475	15	51.63645	2.0106	credible-set	red
rs11435881	15	51.63723	2.1390	credible-set	red
15:51648232_G_A	15	51.64823	2.2069	credible-set	red
rs4775939	15	51.64828	3.5414	credible-set	red
rs2470170	15	51.64832	2.3430	credible-set	red
rs4775940	15	51.65266	3.3964	credible-set	red
rs8031311	15	51.65473	2.4886	credible-set	red
rs35463563	15	51.65496	2.1652	credible-set	red
rs35754161	15	51.65505	2.4341	credible-set	red
rs56335081	15	51.65516	2.2885	credible-set	red
rs58010613	15	51.65691	2.5192	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs17647970	15	51.65731	2.5677	credible-set	red
rs36064983	15	51.66398	2.6116	credible-set	red

eBMD SNP INDEX 239



date: Wed Jun 28 21:48:55 2017

build: hg19

display range: chr15:63341675–64341675 [63341675–64341675]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:63841675

number of SNPs plotted: 5974

min P-value: 1.1E-8 [chr15:63841675]

max P-value: 1E0 [chr15:63342629]

omitted GWAS Hits: chr15:63.737925–heart failure

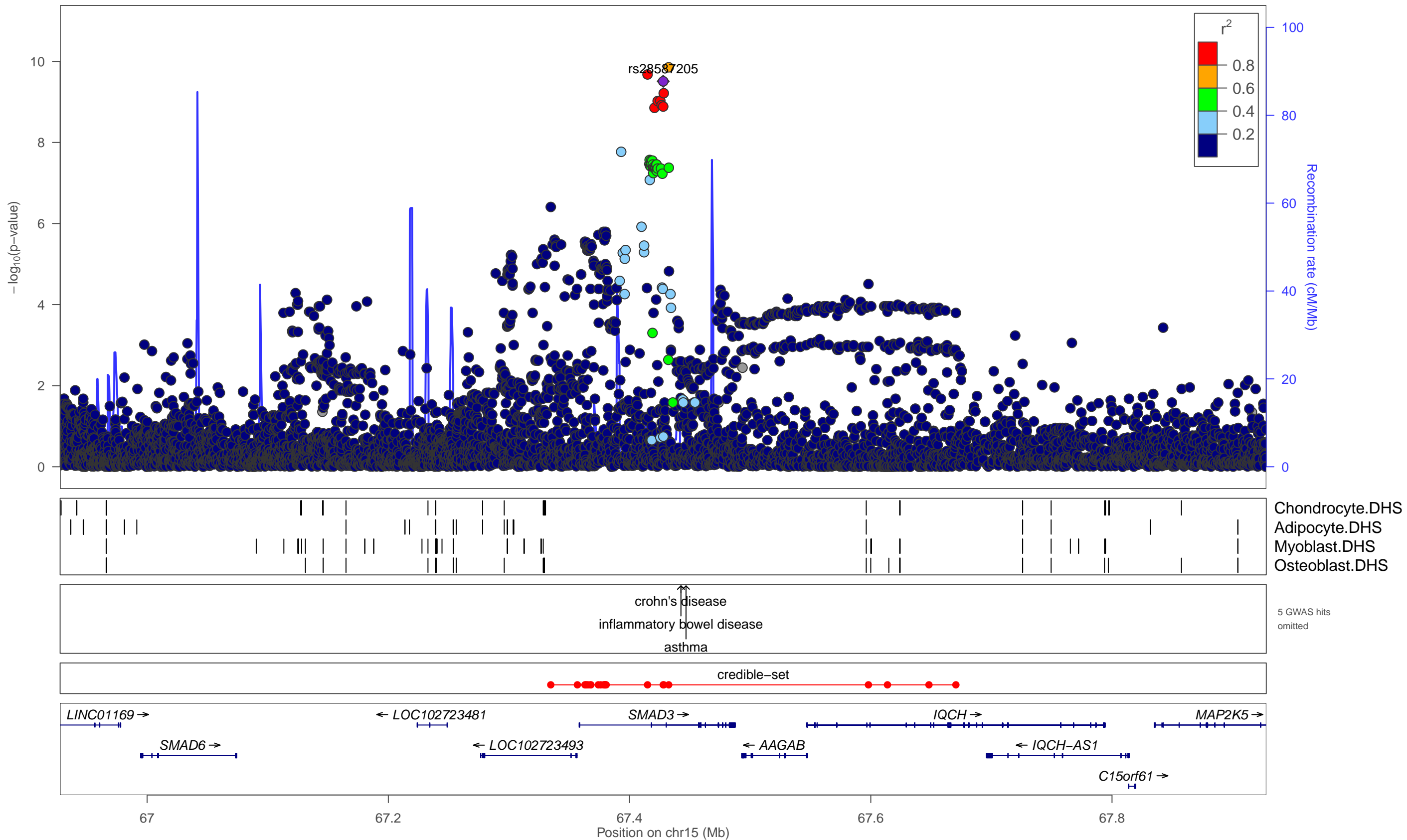
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	63.34200	mean platelet volume	Soranzo N	11/10/2009	Nat Genet	19820697	rs11071720	EFO_0004584	GCST000497
15	63.39687	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs2652834	EFO_0004612	GCST000755
15	63.39687	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs2652834	EFO_0004612	GCST002223
15	63.42277	metabolite	Suhre K	31/08/2011	Nature	21886157	rs2652822	EFO_0004725	GCST001217
15	63.42374	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs1472631	EFO_0005664	GCST002443
15	63.73792	heart failure	Smith NL	5/05/2010	Circ Cardiovasc Genet	20445134	rs10519210	EFO_0003144	GCST000675

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs186514324	15	63.49419	2.2344	credible-set	red
rs191717135	15	63.49928	2.1275	credible-set	red
rs182072935	15	63.49929	2.1501	credible-set	red
rs183103492	15	63.54639	2.3408	credible-set	red
rs189919474	15	63.58474	2.1099	credible-set	red
rs187443933	15	63.64930	2.9230	credible-set	red
rs192752148	15	63.65447	2.2725	credible-set	red
rs182224284	15	63.65913	2.2030	credible-set	red
rs17184382	15	63.79249	2.0743	credible-set	red
rs35763018	15	63.83727	2.1714	credible-set	red
rs12324645	15	63.84346	2.9514	credible-set	red
rs139939693	15	63.85958	2.5275	credible-set	red
rs74018127	15	63.86595	2.2052	credible-set	red
rs78690656	15	63.86760	2.7979	credible-set	red
rs74018129	15	63.86768	2.7041	credible-set	red
rs7171367	15	63.86840	2.2203	credible-set	red
rs7171068	15	63.86841	2.1706	credible-set	red
rs74018133	15	63.87232	2.1278	credible-set	red
rs7171858	15	63.88570	3.4400	credible-set	red
rs3210904	15	63.88581	2.0816	credible-set	red
rs10438347	15	63.89692	2.0388	credible-set	red
rs1131647	15	63.90111	2.1053	credible-set	red
rs75663391	15	63.91043	4.3154	credible-set	red
rs4523879	15	63.91538	2.1837	credible-set	red

eBMD SNP INDEX 240



date: Wed Jun 28 21:49:07 2017

build: hg19

display range: chr15:66927897–67927897 [66927897–67927897]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:67427897

number of SNPs plotted: 5746

min P-value: 1.4E-10 [chr15:67432460]

max P-value: 1E0 [chr15:66948751]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

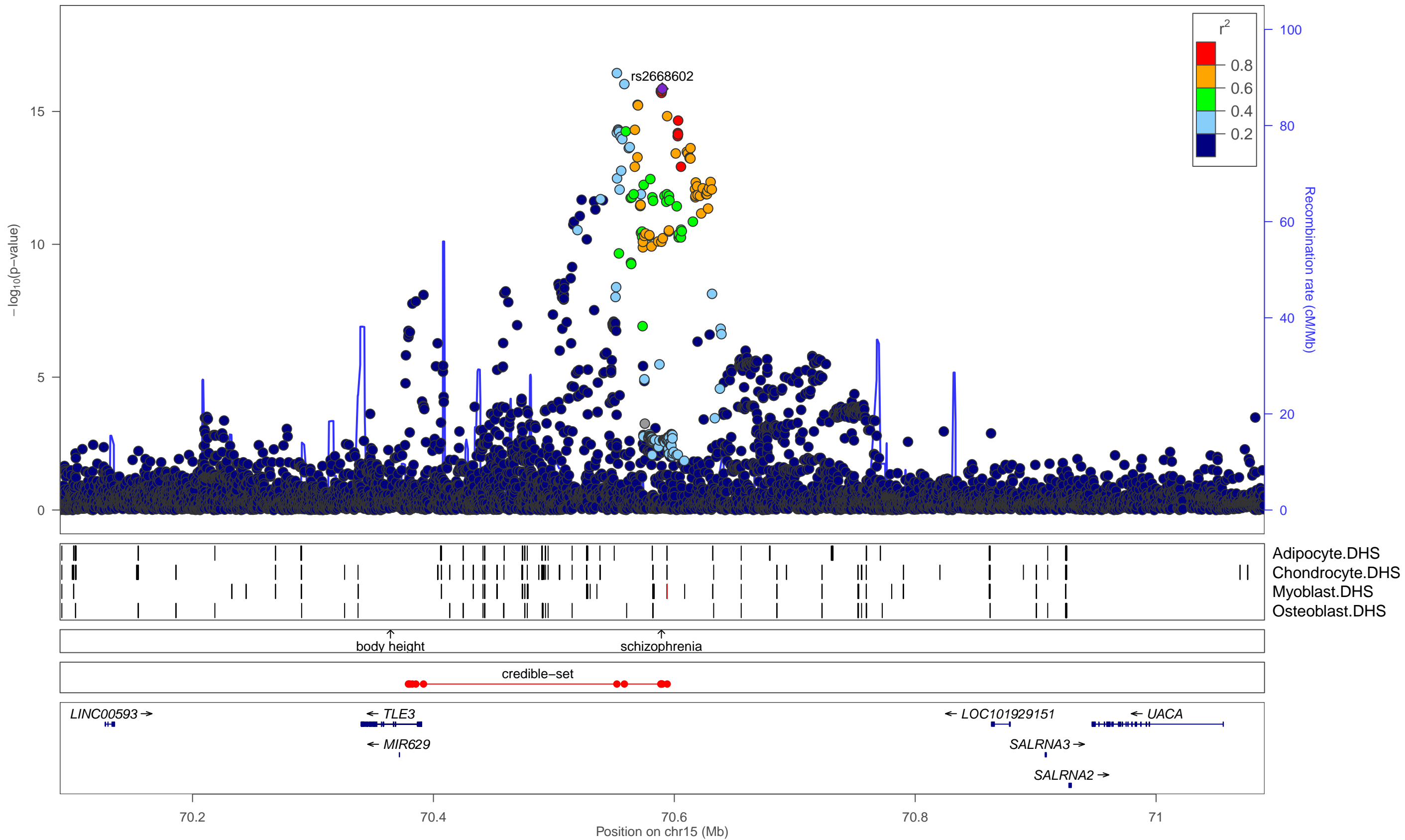
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	67.44260	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs17293632	EFO_0000384	GCST000879
15	67.44260	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17293632	EFO_0000384	GCST003044
15	67.44260	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs17293632	EFO_0003767	GCST001725
15	67.44260	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17293632	EFO_0003767	GCST003043
15	67.44679	asthma	Moffatt MF	23/09/2010	N Engl J Med	20860503	rs744910	EFO_0000270	GCST000804
15	67.45031	allergy	Hinds DA	30/06/2013	Nat Genet	23817569	rs17228058	EFO_0003785	GCST002083
15	67.45563	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs56062135	EFO_0000378	GCST003116
15	67.46429	ten pediatric autoimmune diseases	Li YR	24/08/2015	Nat Med	26301688	rs72743477	NA	GCST003097
15	67.46751	corneal topography	Lu Y	6/01/2013	Nat Genet	23291589	rs12913547	EFO_0004345	GCST001806
15	67.46828	seasonal allergic rhinitis, asthma	Ferreira MA	30/12/2013	J Allergy Clin Immunol	24388013	rs17294280	EFO_0003956, EFO_0000270	GCST002322

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs266348	15	67.33468	2.3544	credible-set	red
rs75990553	15	67.35675	2.2324	credible-set	red
rs17291497	15	67.36299	2.3177	credible-set	red
rs11632964	15	67.36357	2.2344	credible-set	red
rs4776879	15	67.36432	2.2533	credible-set	red
rs10623688;rs71455539	15	67.36547	2.1840	credible-set	red
rs1498505	15	67.36737	2.1037	credible-set	red
rs2899722	15	67.36797	2.2660	credible-set	red
rs6494629	15	67.37411	2.5185	credible-set	red
rs4776881	15	67.37600	2.0400	credible-set	red
rs2118613	15	67.37841	2.3467	credible-set	red
rs12911469	15	67.37922	2.2733	credible-set	red
rs8035486	15	67.37929	2.0396	credible-set	red
rs2083194	15	67.37964	2.0285	credible-set	red
rs11631785	15	67.37998	2.0993	credible-set	red
rs11631839	15	67.38015	2.3675	credible-set	red
rs12907997	15	67.38061	2.2689	credible-set	red
rs4776341	15	67.41491	3.6448	credible-set	red
rs28587205	15	67.42790	2.5767	credible-set	red
rs2118610	15	67.42833	2.1884	credible-set	red
rs34728056	15	67.43246	2.9898	credible-set	red
rs140693279	15	67.59805	3.8934	credible-set	red
rs528634818	15	67.61382	2.4574	credible-set	red
rs117661903	15	67.64822	2.1986	credible-set	red
rs78297923	15	67.67054	2.2757	credible-set	red

eBMD SNP INDEX 241



date: Wed Jun 28 21:49:14 2017

build: hg19

display range: chr15:70090001–71090001 [70090001–71090001]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:70590001

number of SNPs plotted: 6377

min P-value: 3.6E-17 [chr15:70552313]

max P-value: 1E0 [chr15:70100551]

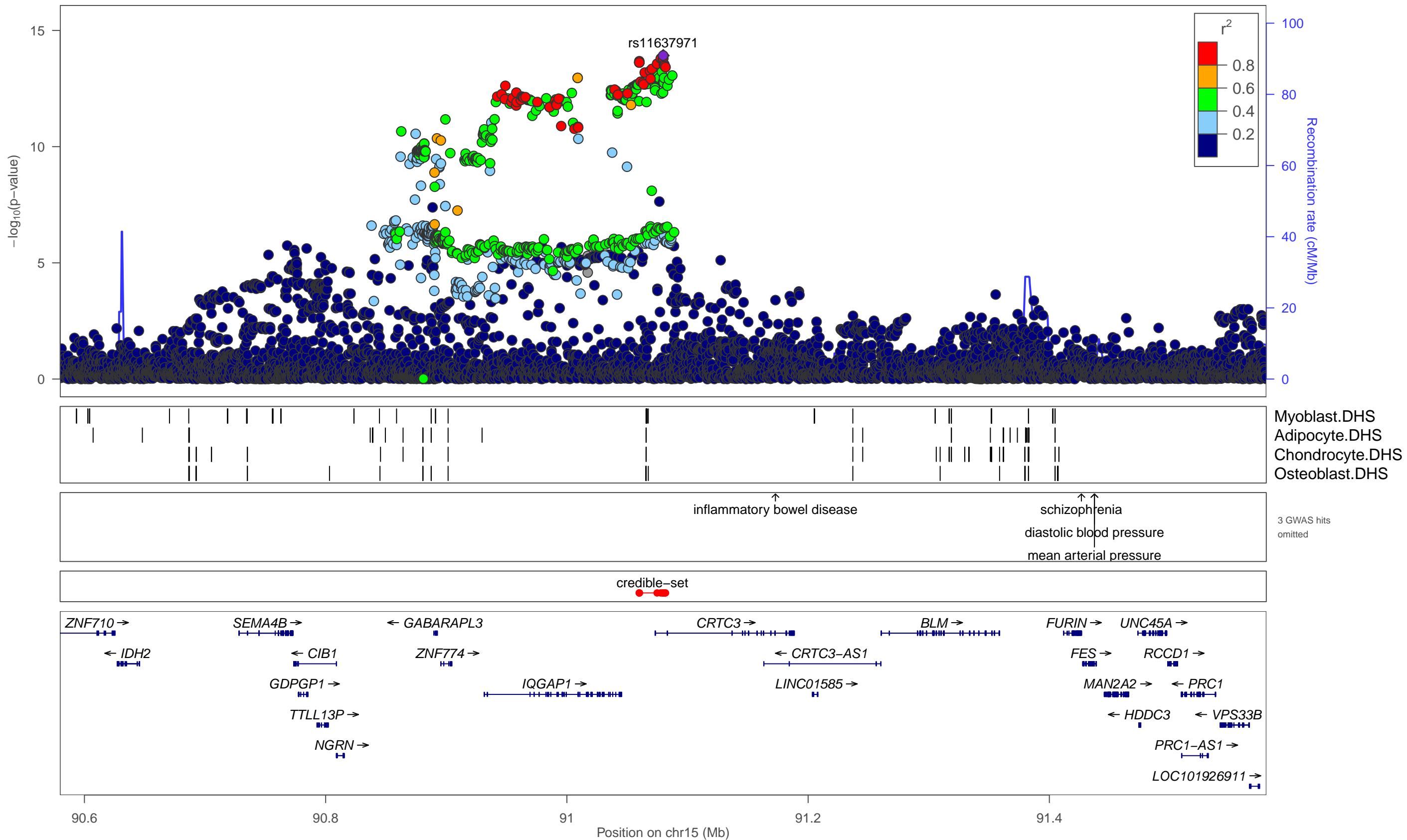
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	70.36435	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs975210	EFO_0004339	GCST002647
15	70.58927	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs12148337	EFO_0000692	GCST003048
15	70.58927	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs12148337	EFO_0000692	GCST002539

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs661046	15	70.37925	2.1960	credible-set	red
rs35485240	15	70.37953	2.0680	credible-set	red
rs2651499	15	70.38049	2.1467	credible-set	red
rs72749673	15	70.38252	2.9302	credible-set	red
rs72749676	15	70.38542	3.0773	credible-set	red
rs147372321	15	70.39176	3.4175	credible-set	red
rs1706708	15	70.55231	3.7000	credible-set	red
rs12904893	15	70.55853	3.1244	credible-set	red
rs2554820	15	70.58880	2.5217	credible-set	red
rs1655233	15	70.58893	2.5387	credible-set	red
rs1655232	15	70.58898	2.5433	credible-set	red
rs1706698	15	70.58942	2.4976	credible-set	red
rs2554819	15	70.58966	2.5432	credible-set	red
rs2668602	15	70.59000	2.6165	credible-set	red
rs2002122	15	70.59407	2.1589	credible-set	red

eBMD SNP INDEX 242



date: Wed Jun 28 21:49:20 2017

build: hg19

display range: chr15:90579863–91579863 [90579863–91579863]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr15:91079863

number of SNPs plotted: 6768

min P-value: 1.2E-14 [chr15:91079863]

max P-value: 1E0 [chr15:90619792]

omitted GWAS Hits: NA, NA

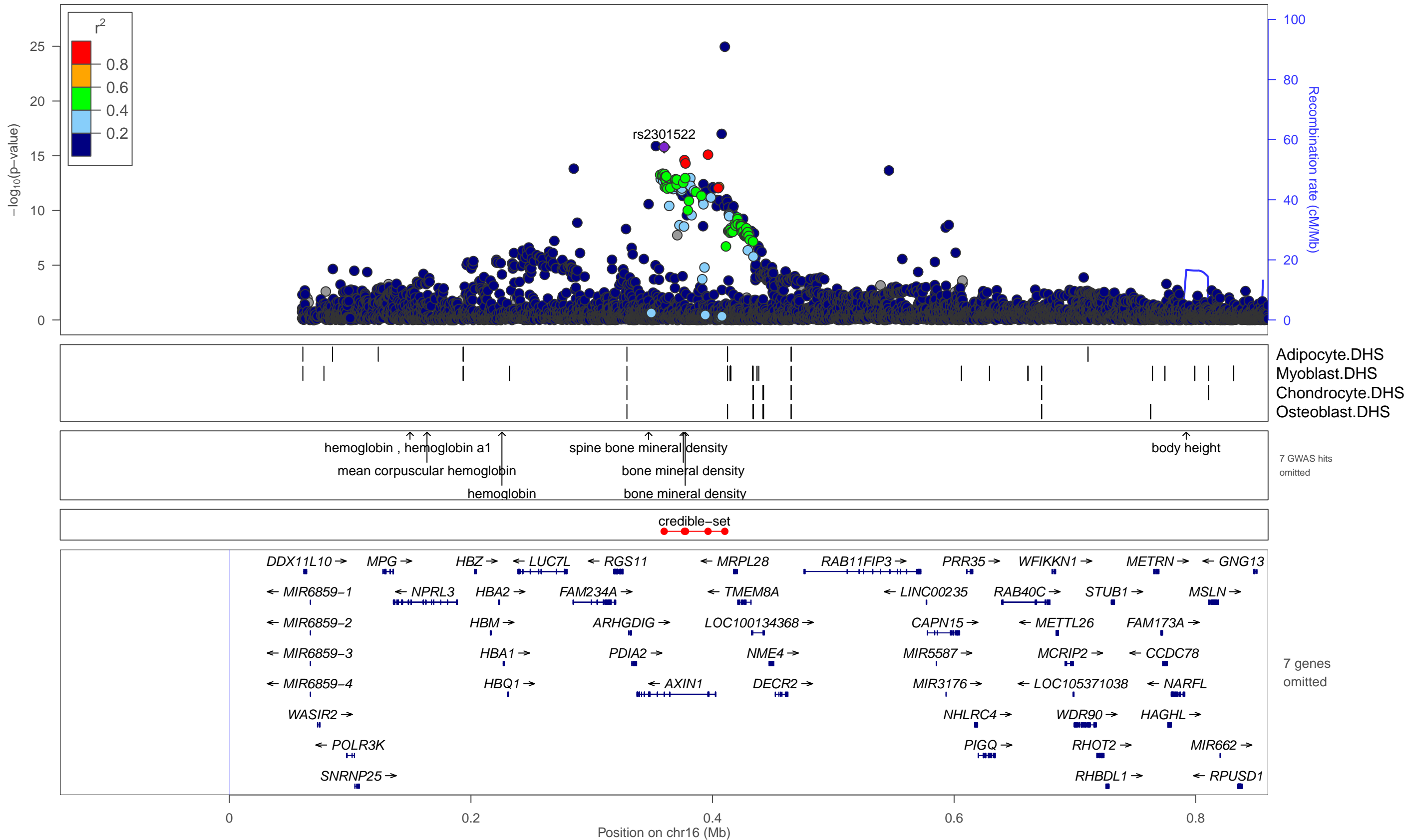
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
15	91.17290	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs7495132	EFO_0003767	GCST001725
15	91.42656	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs4702	EFO_0000692	GCST003048
15	91.42656	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs4702	EFO_0000692	GCST002539
15	91.43739	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs2521501	EFO_0006336	GCST001228
15	91.43739	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs2521501	EFO_0006340	GCST001236
15	91.43739	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs2521501	EFO_0006335	GCST001227
15	91.51207	breast carcinoma	Cai Q	20/07/2014	Nat Genet	25038754	rs2290203	EFO_0000305	GCST002537
15	91.52134	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs8042680	EFO_0001360	GCST000712

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4031437	15	91.06003	2.2788	credible-set	red
rs3862430	15	91.06004	2.2178	credible-set	red
rs4031438	15	91.06005	2.2178	credible-set	red
rs4031439	15	91.06005	2.2178	credible-set	red
rs7496461	15	91.07479	2.1639	credible-set	red
rs11852389	15	91.07782	2.4069	credible-set	red
rs6496685	15	91.07946	2.3528	credible-set	red
rs11637971	15	91.07986	2.5427	credible-set	red
rs11638010	15	91.07992	2.4066	credible-set	red
rs10633075	15	91.08047	2.1223	credible-set	red
rs8027179	15	91.08078	2.1070	credible-set	red
rs8042568	15	91.08082	2.1369	credible-set	red
rs8027581	15	91.08102	2.0662	credible-set	red
rs11635361	15	91.08179	2.0170	credible-set	red

eBMD SNP INDEX 243



date: Wed Jun 28 21:49:28 2017

build: hg19

display range: chr16:-140047-859953 [-140047-859953]

hilite range: 0 - 0 [0 - 0]

reference SNP: chr16:359953

number of SNPs plotted: 6206

min P-value: 1.1E-25 [chr16:410178]

max P-value: 1E0 [chr16:177676]

omitted Genes: RHBDF1, LOC105371184, JMJD8

omitted Genes: WDR24, FBXL16, CHTF18

omitted Genes: PRR25

omitted GWAS Hits: chr16:0.347063-spine bone mineral density, chr16:0.375782-bone mineral density

omitted GWAS Hits: chr16:0.79219-body height, NA

omitted GWAS Hits: NA

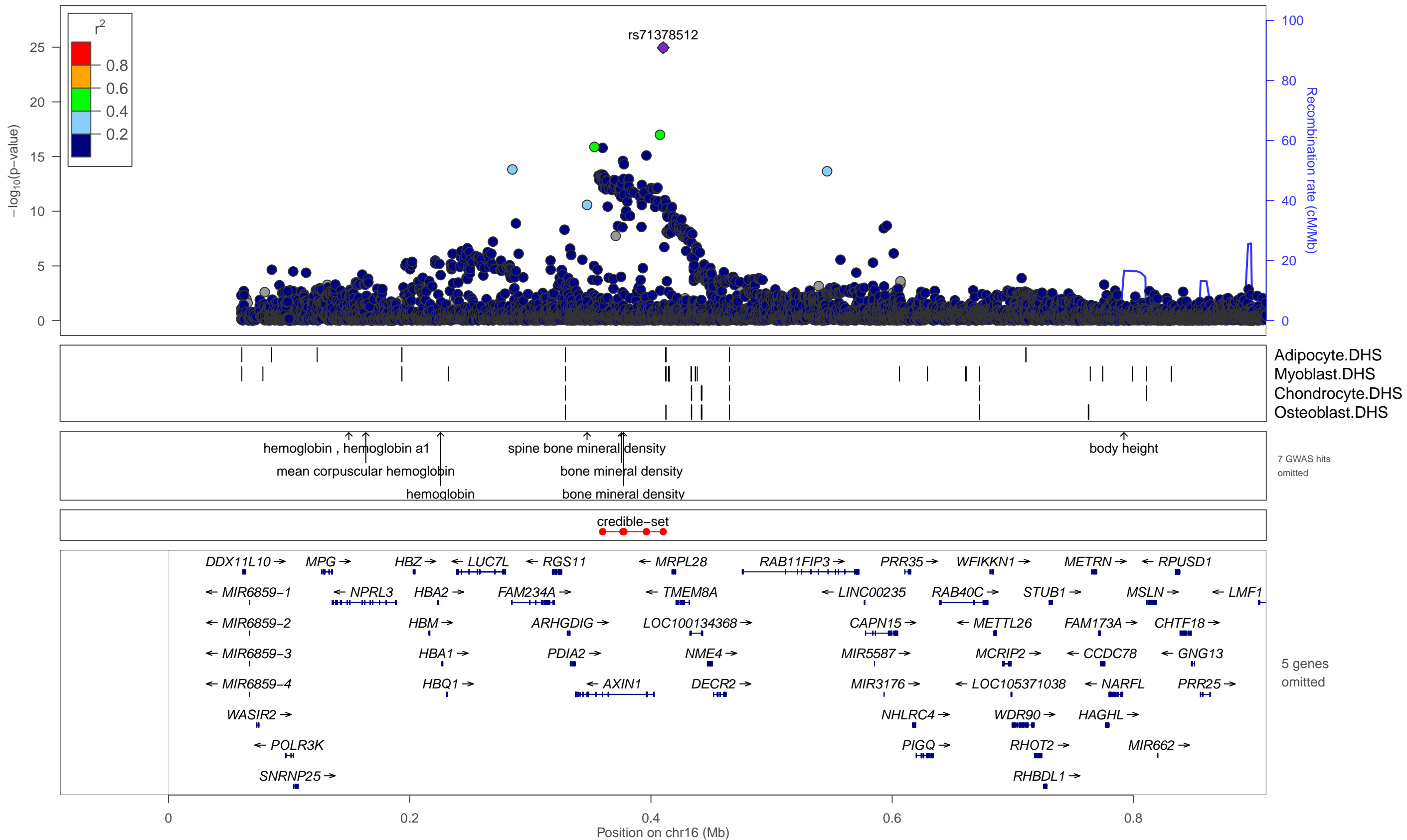
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	0.149539	hemoglobin , hemoglobin a1	Danjou F	14/09/2015	Nat Genet	26366553	rs570013781	EFO_0004509, EFO_0007629	GCST003122
16	0.163598	mean corpuscular hemoglobin	van der Harst P	5/12/2012	Nature	23222517	rs11248850	EFO_0004527	GCST001765
16	0.225653	hemoglobin	Kamatani Y	7/02/2010	Nat Genet	20139978	rs2858942	EFO_0004509, EFO_0004527	GCST000587
16	0.240280	erythrocyte count	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004305	GCST001779
16	0.240280	mean corpuscular hemoglobin	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004527	GCST001780
16	0.240280	mean corpuscular volume	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004526	GCST001781
16	0.304803	mean corpuscular volume	Ganesh SK	11/10/2009	Nat Genet	19862010	rs7189020	EFO_0004526	GCST000503
16	0.309155	mean corpuscular hemoglobin concentration	Chen Z	26/02/2013	Hum Mol Genet	23446634	rs1122794	EFO_0004528	GCST001873
16	0.309155	mean corpuscular hemoglobin	Ganesh SK	11/10/2009	Nat Genet	19862010	rs1122794	EFO_0004527	GCST000504
16	0.347063	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs117208012	EFO_0007701	GCST003388
16	0.375782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs9921222	EFO_0003923	GCST001482
16	0.375782	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9921222	EFO_0004339	NA
16	0.377367	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs10794639	EFO_0004339	NA
16	0.580124	mean corpuscular hemoglobin concentration	Li J	20/12/2012	Hum Mol Genet	23263863	rs2266928	EFO_0004528	GCST001782
16	0.792190	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11648796	EFO_0004339	GCST000817

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2301522	16	0.359953	4.0131	credible-set	red
rs7195617	16	0.376781	2.3806	credible-set	red
rs10903014	16	0.377623	2.1354	credible-set	red
rs1805105	16	0.396264	2.9053	credible-set	red
rs71378512	16	0.410178	7.2262	credible-set	red

eBMD SNP INDEX 244



date: Wed Jun 28 21:50:03 2017

build: hg19

display range: chr16:-89822-910178 [-89822-910178]

hilite range: 0 - 0 [0 - 0]

reference SNP: chr16:410178

number of SNPs plotted: 6807

min P-value: 1.1E-25 [chr16:410178]

max P-value: 1E0 [chr16:177676]

omitted Genes: RHBDF1, LOC105371184, JMJD8

omitted Genes: WDR24, FBXL16

omitted GWAS Hits: chr16:0.347063-spine bone mineral density, chr16:0.375782-bone mineral density

omitted GWAS Hits: chr16:0.79219-body height, NA

omitted GWAS Hits: NA

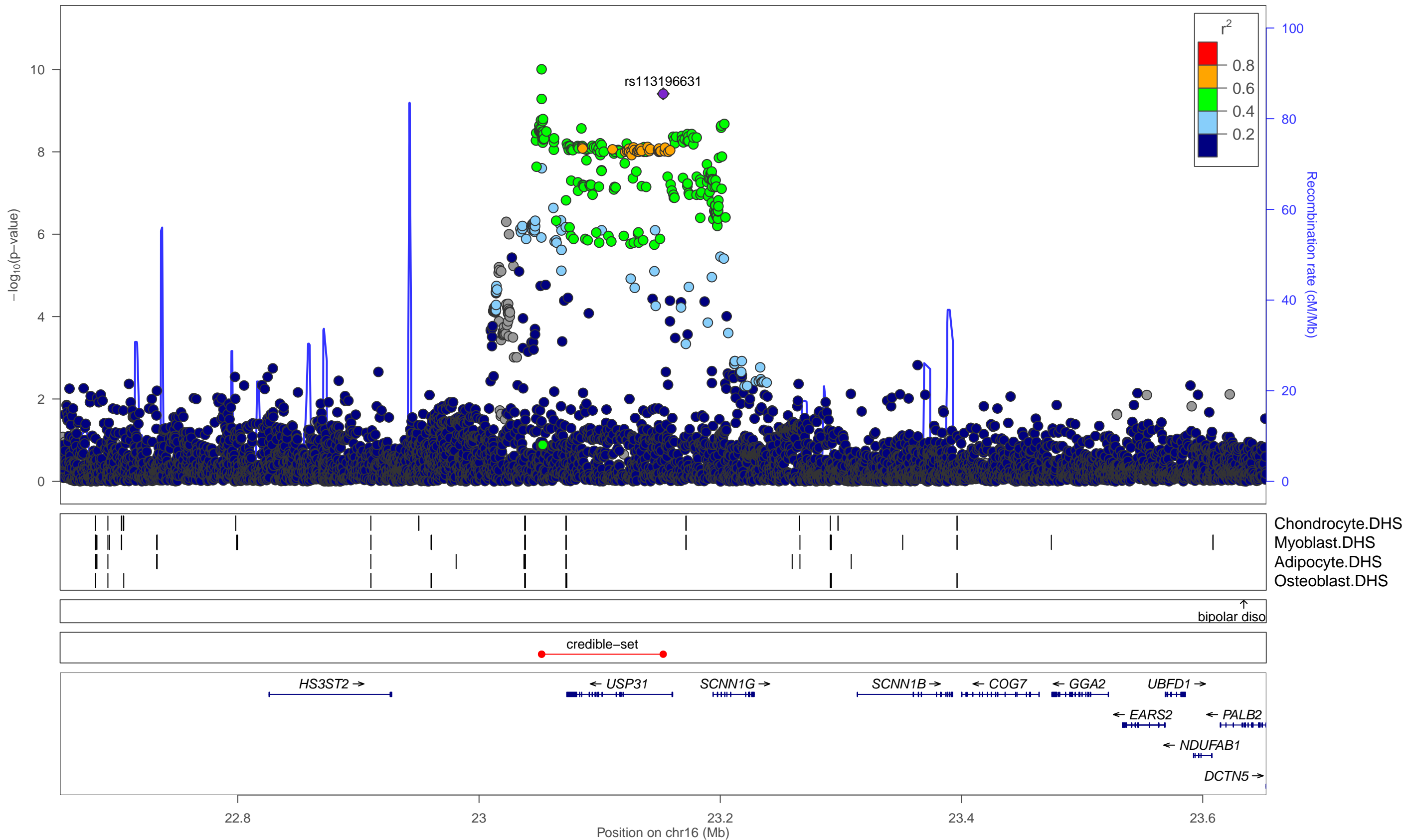
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	0.149539	hemoglobin , hemoglobin a1	Danjou F	14/09/2015	Nat Genet	26366553	rs570013781	EFO_0004509, EFO_0007629	GCST003122
16	0.163598	mean corpuscular hemoglobin	van der Harst P	5/12/2012	Nature	23222517	rs11248850	EFO_0004527	GCST001765
16	0.225653	hemoglobin	Kamatani Y	7/02/2010	Nat Genet	20139978	rs2858942	EFO_0004509, EFO_0004527	GCST000587
16	0.240280	erythrocyte count	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004305	GCST001779
16	0.240280	mean corpuscular hemoglobin	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004527	GCST001780
16	0.240280	mean corpuscular volume	Li J	20/12/2012	Hum Mol Genet	23263863	rs1211375	EFO_0004526	GCST001781
16	0.304803	mean corpuscular volume	Ganesh SK	11/10/2009	Nat Genet	19862010	rs7189020	EFO_0004526	GCST000503
16	0.309155	mean corpuscular hemoglobin concentration	Chen Z	26/02/2013	Hum Mol Genet	23446634	rs1122794	EFO_0004528	GCST001873
16	0.309155	mean corpuscular hemoglobin	Ganesh SK	11/10/2009	Nat Genet	19862010	rs1122794	EFO_0004527	GCST000504
16	0.347063	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs117208012	EFO_0007701	GCST003388
16	0.375782	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs9921222	EFO_0003923	GCST001482
16	0.375782	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9921222	EFO_0004339	NA
16	0.377367	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs10794639	EFO_0004339	NA
16	0.580124	mean corpuscular hemoglobin concentration	Li J	20/12/2012	Hum Mol Genet	23263863	rs2266928	EFO_0004528	GCST001782
16	0.792190	body height	Lango Allen H	29/09/2010	Nature	20881960	rs11648796	EFO_0004339	GCST000817

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2301522	16	0.359953	4.0545	credible-set	red
rs7195617	16	0.376781	2.4214	credible-set	red
rs10903014	16	0.377623	2.1763	credible-set	red
rs1805105	16	0.396264	2.9455	credible-set	red
rs71378512	16	0.410178	7.3057	credible-set	red

eBMD SNP INDEX 245



date: Wed Jun 28 21:49:24 2017

build: hg19

display range: chr16:22652702–23652702 [22652702–23652702]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:23152702

number of SNPs plotted: 6179

min P-value: 9.9E-11 [chr16:23051879]

max P-value: 1E0 [chr16:22678173]

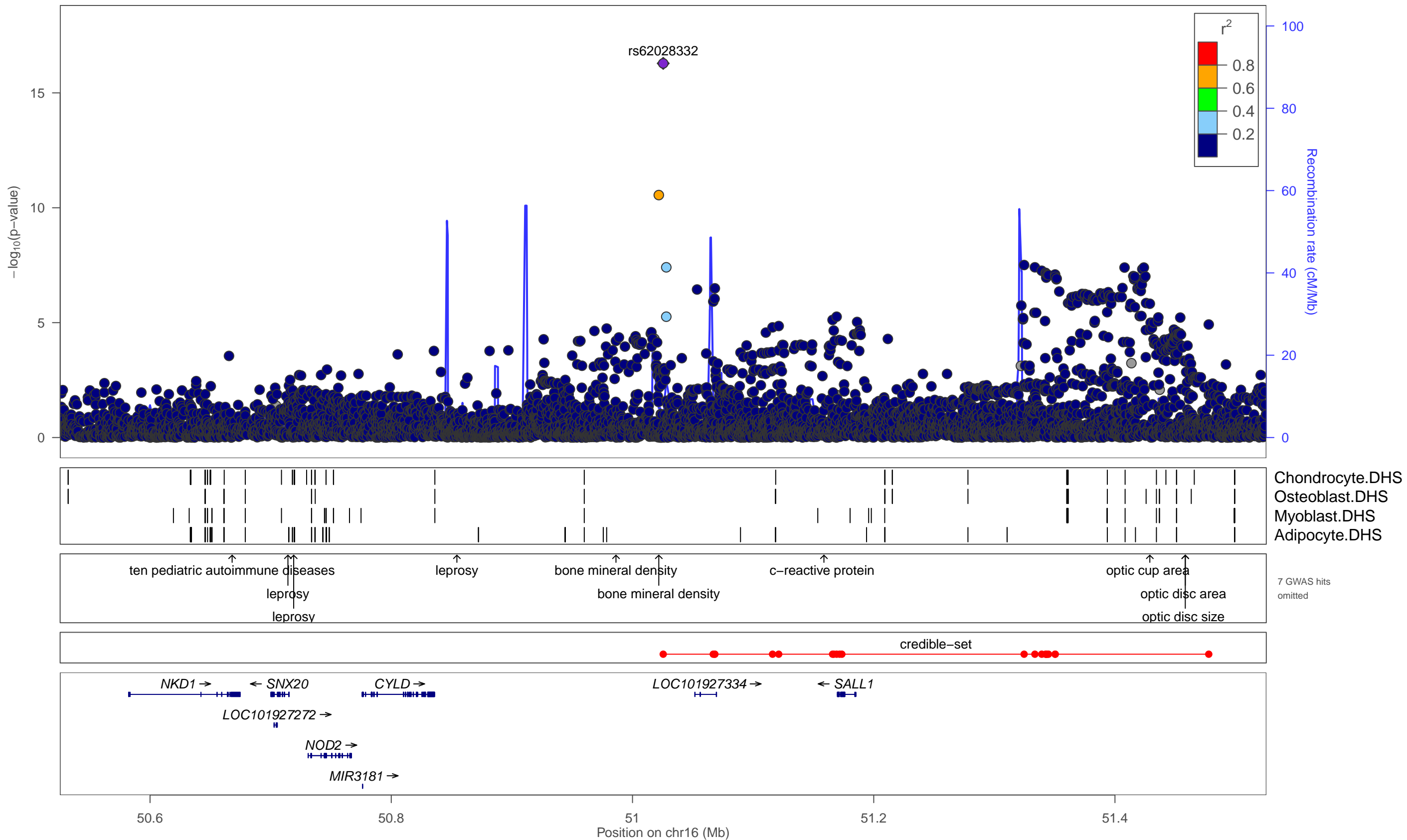
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	23.63403	bipolar disorder	Jiang Y	1/02/2011	Genet Epidemiol	21254220	rs420259	EFO_0000289	GCST000961

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs60528525	16	23.05188	3.0948	credible-set	red
rs2188330	16	23.05192	2.2921	credible-set	red
rs113196631	16	23.15270	2.4229	credible-set	red

eBMD SNP INDEX 246



date: Wed Jun 28 21:49:22 2017

build: hg19

display range: chr16:50525468–51525468 [50525468–51525468]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:51025468

number of SNPs plotted: 5816

min P-value: 5.2E–17 [chr16:51025468]

max P-value: 1E0 [chr16:50561156]

omitted GWAS Hits: chr16:50.854418–leprosy, chr16:50.986308–bone mineral density

omitted GWAS Hits: chr16:51.15871–c–reactive protein , chr16:51.428908–optic cup area

omitted GWAS Hits: NA

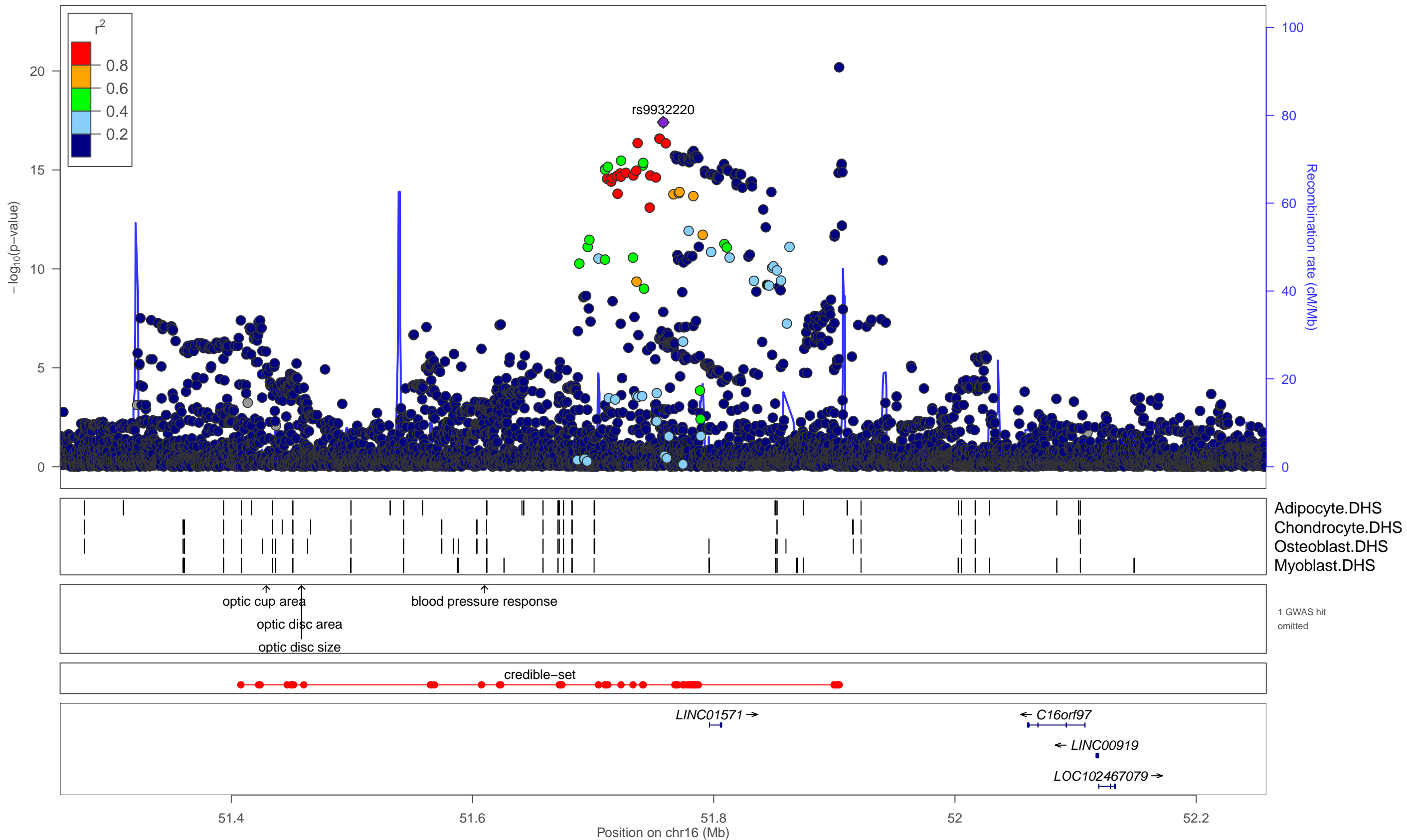
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	50.66808	ten pediatric autoimmune diseases	Li YR	24/08/2015	Nat Med	26301688	rs117372389	NA	GCST003097
16	50.71433	leprosy	Liu H	2/02/2015	Nat Genet	25642632	rs2270368	EFO_0001054	GCST002772
16	50.71910	leprosy	Zhang FR	16/12/2009	N Engl J Med	20018961	rs9302752	EFO_0001054	GCST000546
16	50.73958	crohn's disease	WTCCC	7/06/2007	Nature	17554300	rs17221417	EFO_0000384	GCST000042
16	50.75677	crohn's disease	Raelson JV	5/09/2007	Proc Natl Acad Sci U S A	17804789	rs5743289	EFO_0000384	GCST000071
16	50.75677	inflammatory bowel disease	Kugathasan S	31/08/2008	Nat Genet	18758464	rs5743289	EFO_0003767	GCST000225
16	50.75688	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs2076756	EFO_0000384	GCST000879
16	50.75688	crohn's disease	Franke A	8/08/2007	PLoS One	17684544	rs2076756	EFO_0000384	GCST000066
16	50.75688	crohn's disease	Julia A	30/08/2012	Gut	22936669	rs2076756	EFO_0000384	GCST001652
16	50.75688	crohn's disease	Kenny EE	8/03/2012	PLoS Genet	22412388	rs2076756	EFO_0000384	GCST001438
16	50.75688	inflammatory bowel disease	Duerr RH	26/10/2006	Science	17068223	rs2076756	EFO_0003767	GCST000008
16	50.76378	crohn's disease	Barrett JC	29/06/2008	Nat Genet	18587394	rs2066847	EFO_0000384	GCST000207
16	50.76378	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs2066847	EFO_0000384	GCST001729
16	50.76378	crohn's disease	McGovern DP	22/06/2010	Hum Mol Genet	20570966	rs2066847	EFO_0000384	GCST000705
16	50.85442	leprosy	Liu H	2/02/2015	Nat Genet	25642632	rs16948876	EFO_0001054	GCST002772
16	50.85442	leprosy	Zhang F	23/10/2011	Nat Genet	22019778	rs16948876	EFO_0001054	GCST001292
16	50.98631	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1564981	EFO_0003923	GCST001482
16	51.02180	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs1566045	EFO_0003923	GCST001482
16	51.15871	c-reactive protein	Dehghan A	7/02/2011	Circulation	21300955	rs10521222	EFO_0004458	GCST000965
16	51.42891	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11646917	EFO_0006940	GCST002762
16	51.45829	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1362756	EFO_0006937	GCST002765
16	51.45829	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1362756	EFO_0004832	GCST000699
16	51.48232	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1345467	EFO_0004832	GCST002626

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs62028332	16	51.02547	13.5632	credible-set	red
rs4785495	16	51.06697	2.8590	credible-set	red
rs7191446	16	51.06806	2.8653	credible-set	red
rs17249128	16	51.06829	3.5443	credible-set	red
rs140174016	16	51.11611	2.1643	credible-set	red
rs75633368	16	51.12121	2.2589	credible-set	red
rs2111125	16	51.16589	2.8015	credible-set	red
rs34995884	16	51.16684	2.2786	credible-set	red
rs751979	16	51.16923	3.1881	credible-set	red
rs1465338	16	51.17167	2.5465	credible-set	red
rs1965024	16	51.17356	2.4989	credible-set	red
rs62039718	16	51.32467	2.6846	credible-set	red
rs4784634	16	51.33361	2.5856	credible-set	red
rs12929370	16	51.33927	2.3538	credible-set	red
rs35934833	16	51.34253	2.2739	credible-set	red
rs62039724	16	51.34286	2.1877	credible-set	red
rs4784748	16	51.34303	2.0106	credible-set	red
rs11642190	16	51.34392	2.1616	credible-set	red
rs11644595	16	51.34488	2.1496	credible-set	red
rs11640856	16	51.35038	2.1961	credible-set	red
rs11648744	16	51.35049	2.0954	credible-set	red
rs541592026	16	51.47775	2.2171	credible-set	red

eBMD SNP INDEX 247



date: Wed Jun 28 21:50:46 2017

build: hg19

display range: chr16:51258116–52258116 [51258116–52258116]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:51758116

number of SNPs plotted: 6638

min P-value: 6.5E-21 [chr16:51903981]

max P-value: 1E0 [chr16:51272883]

omitted GWAS Hits: chr16:51.609947–blood pressure response

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	51.42891	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11646917	EFO_0006940	GCST002762
16	51.45829	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1362756	EFO_0006937	GCST002765
16	51.45829	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1362756	EFO_0004832	GCST000699
16	51.48232	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1345467	EFO_0004832	GCST002626
16	51.60995	blood pressure response	He J	28/10/2013	Circ Cardiovasc Genet	24165912	rs2030114	EFO_0006336, EFO_0005401, EFO_0005403	GCST002252

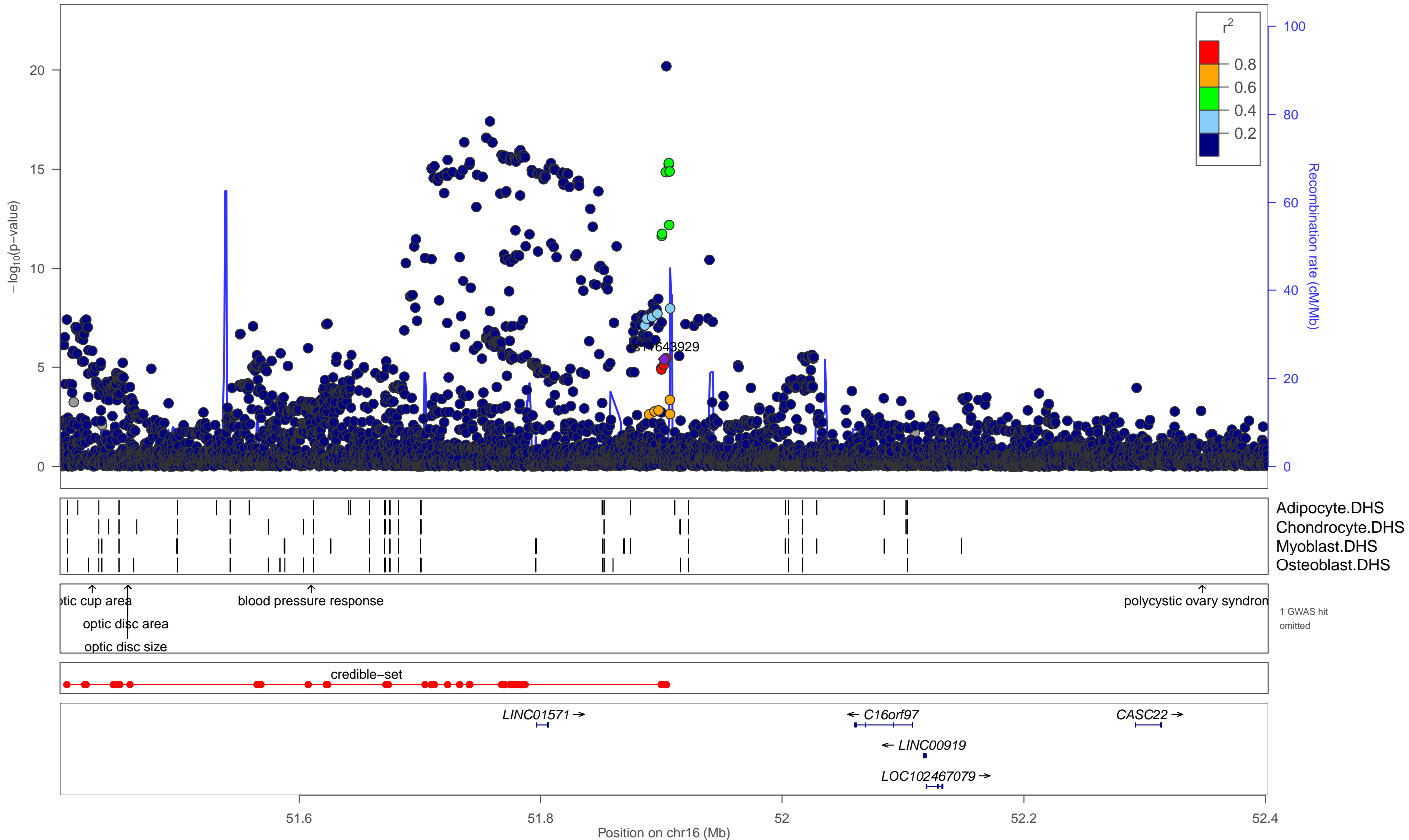
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs370440804	16	51.40794	2.3305	credible-set	red
rs1420996	16	51.42269	2.1665	credible-set	red
rs2052354	16	51.42395	2.2391	credible-set	red
rs11641011	16	51.44638	2.6987	credible-set	red
rs7196814	16	51.44976	2.5207	credible-set	red
rs7197215	16	51.44998	2.3718	credible-set	red
rs17616633	16	51.45168	2.7119	credible-set	red
rs17616757	16	51.46011	3.5722	credible-set	red
rs9933860	16	51.56514	2.7993	credible-set	red
rs62039771	16	51.56583	2.2376	credible-set	red
rs62039775	16	51.56842	2.6125	credible-set	red
rs10521234	16	51.60749	2.0781	credible-set	red
rs1498785	16	51.62246	2.8670	credible-set	red
rs2647979	16	51.62344	2.9469	credible-set	red
rs34900806	16	51.67205	2.4550	credible-set	red
rs139750274	16	51.67264	2.8269	credible-set	red
rs35239973	16	51.67359	2.1798	credible-set	red
rs7189116	16	51.67417	2.0996	credible-set	red
rs4784541	16	51.70445	3.1803	credible-set	red
rs1563999	16	51.70986	2.5836	credible-set	red
rs1563998	16	51.70993	2.3656	credible-set	red
rs1563997	16	51.71004	2.3135	credible-set	red
rs1125893	16	51.71222	2.4911	credible-set	red
rs1381448	16	51.72313	2.7678	credible-set	red
rs35392886	16	51.73306	2.6886	credible-set	red
rs8049617	16	51.74114	2.6012	credible-set	red
rs12931467	16	51.74155	2.8538	credible-set	red
rs1564002	16	51.76773	2.4967	credible-set	red
rs6499826	16	51.76877	2.4278	credible-set	red
rs6499827	16	51.76910	2.2755	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8043739	16	51.77026	2.4131	credible-set	red
rs8063305	16	51.77450	2.1048	credible-set	red
rs8051375	16	51.77484	2.2768	credible-set	red
rs1350879	16	51.77580	2.1378	credible-set	red
rs55964246	16	51.77856	2.1135	credible-set	red
rs8056440	16	51.77895	2.1930	credible-set	red
rs4784644	16	51.78121	2.1850	credible-set	red
rs56200621	16	51.78228	2.6228	credible-set	red
rs8048085	16	51.78315	2.4338	credible-set	red
rs7202282	16	51.78329	2.7839	credible-set	red
rs7184081	16	51.78355	2.2051	credible-set	red
rs1118250	16	51.78424	2.2123	credible-set	red
rs7191269	16	51.78492	2.3971	credible-set	red
rs7205097	16	51.78611	2.3697	credible-set	red
rs7203673	16	51.78723	2.2264	credible-set	red
rs1110493	16	51.89980	3.0554	credible-set	red
rs1110494	16	51.89988	2.8417	credible-set	red
rs35868879	16	51.90198	2.5969	credible-set	red
rs11643929	16	51.90230	3.0533	credible-set	red
rs12598602	16	51.90387	3.2038	credible-set	red
rs72805220	16	51.90398	7.4525	credible-set	red

eBMD SNP INDEX 248



date: Wed Jun 28 21:50:51 2017

build: hg19

display range: chr16:51402302–52402302 [51402302–52402302]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:51902302

number of SNPs plotted: 6365

min P-value: 6.5E-21 [chr16:51903981]

max P-value: 1E0 [chr16:51412230]

omitted GWAS Hits: chr16:51.609947–blood pressure response

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	51.42891	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11646917	EFO_0006940	GCST002762
16	51.45829	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1362756	EFO_0006937	GCST002765
16	51.45829	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1362756	EFO_0004832	GCST000699
16	51.48232	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1345467	EFO_0004832	GCST002626
16	51.60995	blood pressure response	He J	28/10/2013	Circ Cardiovasc Genet	24165912	rs2030114	EFO_0006336, EFO_0005401, EFO_0005403	GCST002252
16	52.34782	polycystic ovary syndrome	Shi Y	12/08/2012	Nat Genet	22885925	rs4784165	EFO_0000660	GCST001634

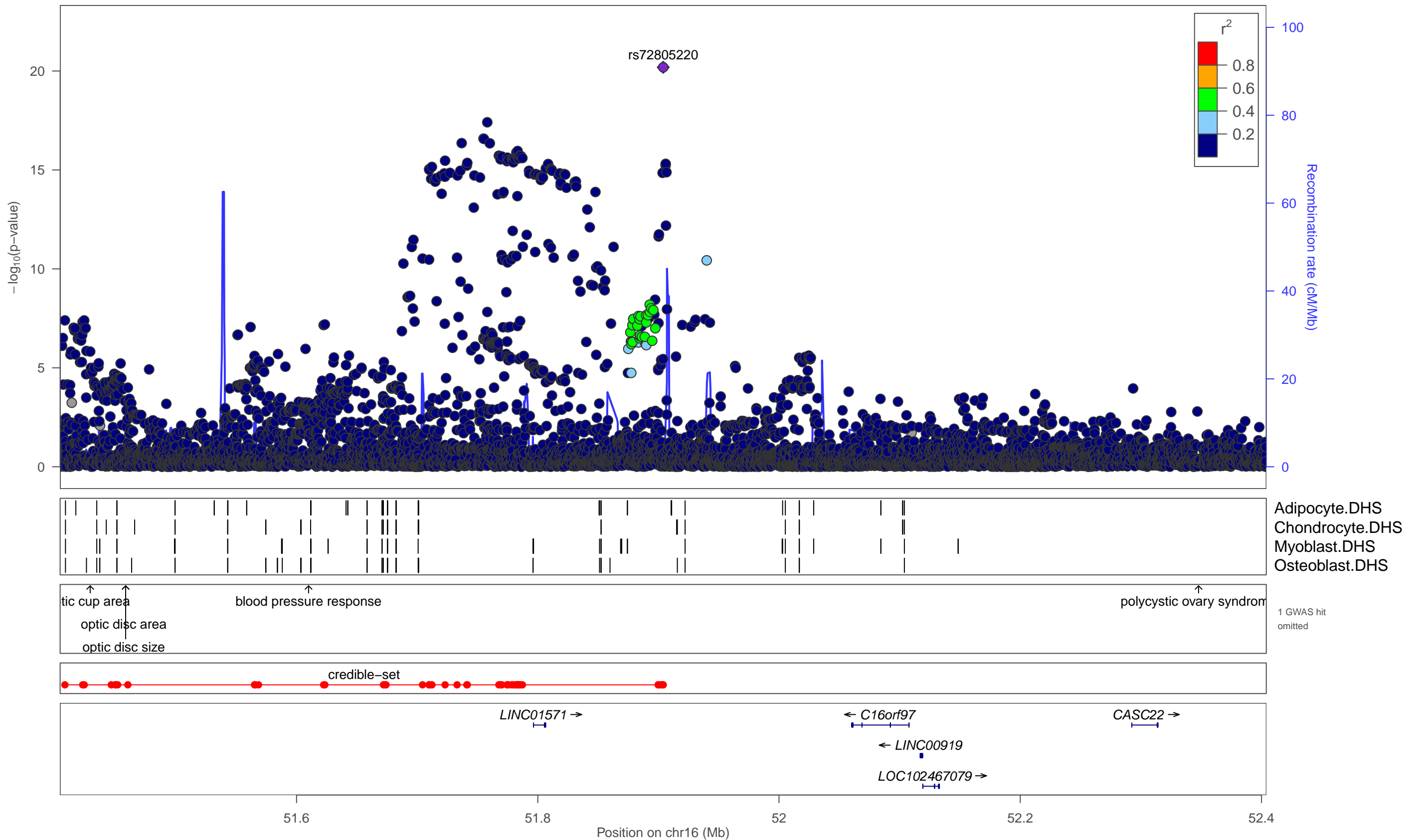
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs370440804	16	51.40794	2.3360	credible-set	red
rs1420996	16	51.42269	2.1686	credible-set	red
rs2052354	16	51.42395	2.2318	credible-set	red
rs11641011	16	51.44638	2.8293	credible-set	red
rs7196814	16	51.44976	2.5429	credible-set	red
rs7197215	16	51.44998	2.5512	credible-set	red
rs17616633	16	51.45168	2.7598	credible-set	red
rs17616757	16	51.46011	3.7442	credible-set	red
rs9933860	16	51.56514	2.8445	credible-set	red
rs62039771	16	51.56583	2.3465	credible-set	red
rs62039775	16	51.56842	2.6435	credible-set	red
rs10521234	16	51.60749	2.0848	credible-set	red
rs1498785	16	51.62246	2.8464	credible-set	red
rs2647979	16	51.62344	2.9500	credible-set	red
rs34900806	16	51.67205	2.2455	credible-set	red
rs139750274	16	51.67264	2.5812	credible-set	red
rs7189116	16	51.67417	2.0267	credible-set	red
rs4784541	16	51.70445	2.9245	credible-set	red
rs1563999	16	51.70986	2.6390	credible-set	red
rs1563998	16	51.70993	2.4222	credible-set	red
rs1563997	16	51.71004	2.4102	credible-set	red
rs1125893	16	51.71222	2.5571	credible-set	red
rs1381448	16	51.72313	2.7902	credible-set	red
rs35392886	16	51.73306	2.7396	credible-set	red
rs8049617	16	51.74114	2.6386	credible-set	red
rs12931467	16	51.74155	2.8525	credible-set	red
rs1564002	16	51.76773	2.4808	credible-set	red
rs6499826	16	51.76877	2.4096	credible-set	red
rs6499827	16	51.76910	2.2282	credible-set	red
rs8043739	16	51.77026	2.4147	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8063305	16	51.77450	2.0847	credible-set	red
rs8051375	16	51.77484	2.2793	credible-set	red
rs1350879	16	51.77580	2.1546	credible-set	red
rs55964246	16	51.77856	2.1375	credible-set	red
rs8056440	16	51.77895	2.1702	credible-set	red
rs4784644	16	51.78121	2.1913	credible-set	red
rs56200621	16	51.78228	2.5926	credible-set	red
rs8048085	16	51.78315	2.3836	credible-set	red
rs7202282	16	51.78329	2.7255	credible-set	red
rs7184081	16	51.78355	2.2295	credible-set	red
rs1118250	16	51.78424	2.2119	credible-set	red
rs7191269	16	51.78492	2.3380	credible-set	red
rs7205097	16	51.78611	2.3929	credible-set	red
rs7203673	16	51.78723	2.1734	credible-set	red
rs1110493	16	51.89980	3.0521	credible-set	red
rs1110494	16	51.89988	2.8133	credible-set	red
rs35868879	16	51.90198	2.5987	credible-set	red
rs11643929	16	51.90230	3.0902	credible-set	red
rs12598602	16	51.90387	3.1692	credible-set	red
rs72805220	16	51.90398	6.8525	credible-set	red

eBMD SNP INDEX 249



date: Wed Jun 28 21:49:39 2017

build: hg19

display range: chr16:51403981–52403981 [51403981–52403981]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:51903981

number of SNPs plotted: 6373

min P-value: 6.5E-21 [chr16:51903981]

max P-value: 1E0 [chr16:51412230]

omitted GWAS Hits: chr16:51.609947–blood pressure response

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	51.42891	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11646917	EFO_0006940	GCST002762
16	51.45829	optic disc area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1362756	EFO_0006937	GCST002765
16	51.45829	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1362756	EFO_0004832	GCST000699
16	51.48232	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1345467	EFO_0004832	GCST002626
16	51.60995	blood pressure response	He J	28/10/2013	Circ Cardiovasc Genet	24165912	rs2030114	EFO_0006336, EFO_0005401, EFO_0005403	GCST002252
16	52.34782	polycystic ovary syndrome	Shi Y	12/08/2012	Nat Genet	22885925	rs4784165	EFO_0000660	GCST001634

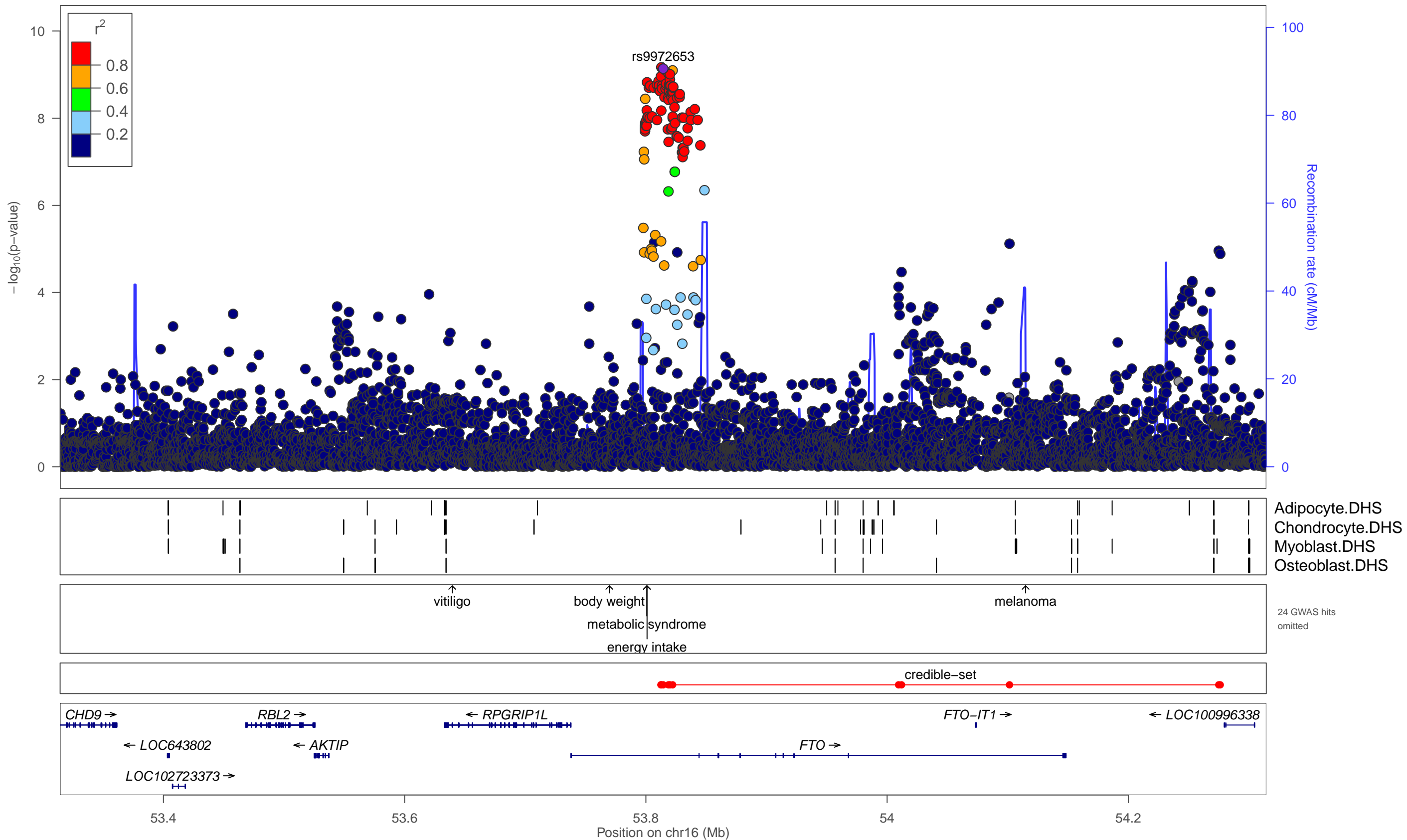
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs370440804	16	51.40794	2.4063	credible-set	red
rs1420996	16	51.42269	2.2321	credible-set	red
rs2052354	16	51.42395	2.3078	credible-set	red
rs11641011	16	51.44638	2.7669	credible-set	red
rs7196814	16	51.44976	2.5221	credible-set	red
rs7197215	16	51.44998	2.4242	credible-set	red
rs17616633	16	51.45168	2.7035	credible-set	red
rs17616757	16	51.46011	3.6352	credible-set	red
rs9933860	16	51.56514	2.7555	credible-set	red
rs62039771	16	51.56583	2.2657	credible-set	red
rs62039775	16	51.56842	2.5931	credible-set	red
rs1498785	16	51.62246	2.9017	credible-set	red
rs2647979	16	51.62344	2.9644	credible-set	red
rs34900806	16	51.67205	2.3199	credible-set	red
rs139750274	16	51.67264	2.6694	credible-set	red
rs35239973	16	51.67359	2.0600	credible-set	red
rs7189116	16	51.67417	2.0599	credible-set	red
rs4784541	16	51.70445	3.0278	credible-set	red
rs1563999	16	51.70986	2.5884	credible-set	red
rs1563998	16	51.70993	2.4300	credible-set	red
rs1563997	16	51.71004	2.3188	credible-set	red
rs1125893	16	51.71222	2.5284	credible-set	red
rs1381448	16	51.72313	2.8202	credible-set	red
rs35392886	16	51.73306	2.6103	credible-set	red
rs8049617	16	51.74114	2.6713	credible-set	red
rs12931467	16	51.74155	2.8557	credible-set	red
rs1564002	16	51.76773	2.4934	credible-set	red
rs6499826	16	51.76877	2.4119	credible-set	red
rs6499827	16	51.76910	2.2155	credible-set	red
rs8043739	16	51.77026	2.4093	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8063305	16	51.77450	2.1040	credible-set	red
rs8051375	16	51.77484	2.2600	credible-set	red
rs1350879	16	51.77580	2.1673	credible-set	red
rs55964246	16	51.77856	2.1913	credible-set	red
rs8056440	16	51.77895	2.1682	credible-set	red
rs4784644	16	51.78121	2.1395	credible-set	red
rs56200621	16	51.78228	2.5854	credible-set	red
rs8048085	16	51.78315	2.3896	credible-set	red
rs7202282	16	51.78329	2.7302	credible-set	red
rs7184081	16	51.78355	2.1974	credible-set	red
rs1118250	16	51.78424	2.2034	credible-set	red
rs7191269	16	51.78492	2.3833	credible-set	red
rs7205097	16	51.78611	2.3438	credible-set	red
rs7203673	16	51.78723	2.1999	credible-set	red
rs1110493	16	51.89980	3.0623	credible-set	red
rs1110494	16	51.89988	2.8146	credible-set	red
rs35868879	16	51.90198	2.5376	credible-set	red
rs11643929	16	51.90230	3.0865	credible-set	red
rs12598602	16	51.90387	3.1643	credible-set	red
rs72805220	16	51.90398	7.1391	credible-set	red

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date: Wed Jun 28 21:49:45 2017

build: hg19

display range: chr16:53314363–54314363 [53314363–54314363]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:53814363

number of SNPs plotted: 6117

min P-value: 6.8E–10 [chr16:53812783]

max P-value: 1E0 [chr16:53316567]

omitted GWAS Hits: chr16:54.114824–melanoma, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	53.63944	vitiligo	Cheong KA	2/05/2013	J Korean Med Sci	23678272	rs3213758	EFO_0004208	GCST001992
16	53.76968	body weight	Thorleifsson G	14/12/2008	Nat Genet	19079260	rs6499640	EFO_0004338	GCST000299
16	53.80075	metabolic syndrome	Kristiansson K	7/03/2012	Circ Cardiovasc Genet	22399527	rs9940128	EFO_0000195	GCST001436
16	53.80095	energy intake	Tanaka T	1/05/2013	Am J Clin Nutr	23636237	rs1421085	EFO_0003939	GCST001989
16	53.80095	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs1421085	EFO_0001073	GCST001953
16	53.80095	obesity	Meyre D	18/01/2009	Nat Genet	19151714	rs1421085	EFO_0001073	GCST000317
16	53.80095	obesity	Wheeler E	7/04/2013	Nat Genet	23563609	rs1421085	EFO_0001073	GCST001957
16	53.80095	type ii diabetes mellitus	Imamura M	28/01/2016	Nat Commun	26818947	rs1421085	EFO_0001360	GCST003400
16	53.80357	body fat percent	Lu Y	1/02/2016	Nat Commun	26833246	rs1558902	NA	GCST003435
16	53.80357	longitudinal bmi	Warrington NM	7/05/2015	Int J Epidemiol	25953783	rs1558902	EFO_0005937	GCST002893
16	53.80357	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs1558902	EFO_0001073	GCST001953
16	53.80357	obesity	Scherag A	22/04/2010	PLoS Genet	20421936	rs1558902	EFO_0001073	GCST000663
16	53.80357	waist circumference	Heard-Costa NL	26/06/2009	PLoS Genet	19557197	rs1558902	EFO_0004342	GCST000427
16	53.80925	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs1121980	EFO_0004612	GCST002223
16	53.80925	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs1121980	EFO_0004530	GCST002216
16	53.81337	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs17817449	EFO_0000305	GCST001937
16	53.81337	obesity	Wang K	28/04/2011	PLoS One	21552555	rs17817449	EFO_0001073	GCST001057
16	53.81345	leptin	Kilpeläinen TO	1/02/2016	Nat Commun	26833098	rs8043757	EFO_0005000	GCST003367
16	53.81345	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs8043757	EFO_0001073	GCST001953
16	53.81627	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs8050136	EFO_0004703	GCST002541
16	53.81627	body weight	Thorleifsson G	14/12/2008	Nat Genet	19079260	rs8050136	EFO_0004338	GCST000299
16	53.81627	obesity	Kilpeläinen TO	26/06/2011	Nat Genet	21706003	rs8050136	EFO_0001073	GCST001128
16	53.81627	type ii diabetes mellitus	Scott LJ	26/04/2007	Science	17463248	rs8050136	EFO_0001360	GCST000024
16	53.81627	type ii diabetes mellitus	Timpson NJ	3/12/2008	Diabetes	19056611	rs8050136	EFO_0001360	GCST000277
16	53.81627	type ii diabetes mellitus	Zeggini E	26/04/2007	Science	17463249	rs8050136	EFO_0001360	GCST000025
16	53.81917	type ii diabetes mellitus	Mahajan A	9/02/2014	Nat Genet	24509480	rs9936385	EFO_0001360	GCST002352
16	53.82053	age at menarche	Elks CE	21/11/2010	Nat Genet	21102462	rs9939609	EFO_0004703	GCST000880
16	53.82053	type ii diabetes mellitus	Perry JR	31/05/2012	PLoS Genet	22693455	rs9939609	EFO_0001360	GCST001550
16	53.82265	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs7185735	EFO_0001073	GCST001953
16	53.82549	obesity	Cotsapas C	24/06/2009	Hum Mol Genet	19553259	rs9941349	EFO_0001073	GCST000426

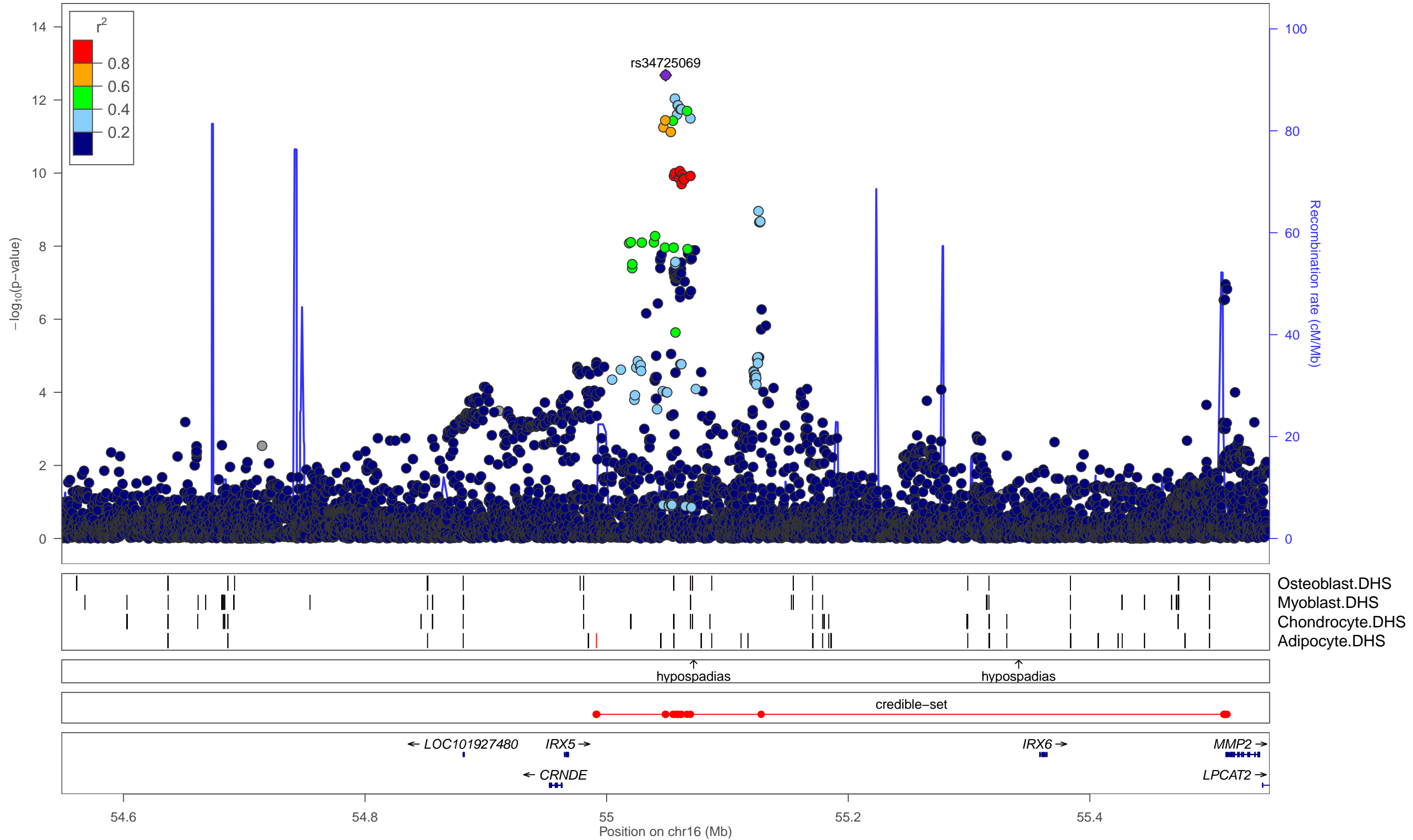
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	53.83046	waist-hip ratio	Scuteri A	20/07/2007	PLoS Genet	17658951	rs9930506	EFO_0004343	GCST000060
16	53.84549	type ii diabetes mellitus	Voight BF	27/06/2010	Nat Genet	20581827	rs11642841	EFO_0001360	GCST000712
16	53.85529	breast carcinoma	Garcia-Closas M	1/04/2013	Nat Genet	23535733	rs11075995	EFO_0000305	GCST001930
16	54.11482	melanoma	Iles MM	3/03/2013	Nat Genet	23455637	rs16953002	EFO_0000756	GCST001886

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8063057	16	53.81243	2.0683	credible-set	red
16:53812783_TTTTG_T	16	53.81278	2.2915	credible-set	red
rs9972653	16	53.81436	2.2609	credible-set	red
rs3751814	16	53.81872	2.1333	credible-set	red
rs11075991	16	53.81994	2.1247	credible-set	red
rs113935429	16	53.82217	2.2120	credible-set	red
rs8056299	16	54.00950	2.0205	credible-set	red
rs1124803	16	54.01195	2.3313	credible-set	red
rs12600060	16	54.10146	2.4496	credible-set	red
rs4627344	16	54.27495	2.7892	credible-set	red
rs75407539	16	54.27616	2.6977	credible-set	red

eBMD SNP INDEX 251



date: Wed Jun 28 21:49:48 2017

build: hg19

display range: chr16:54548852–55548852 [54548852–55548852]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:55048852

number of SNPs plotted: 7162

min P-value: 2.1E-13 [chr16:55048852]

max P-value: 1E0 [chr16:54620748]

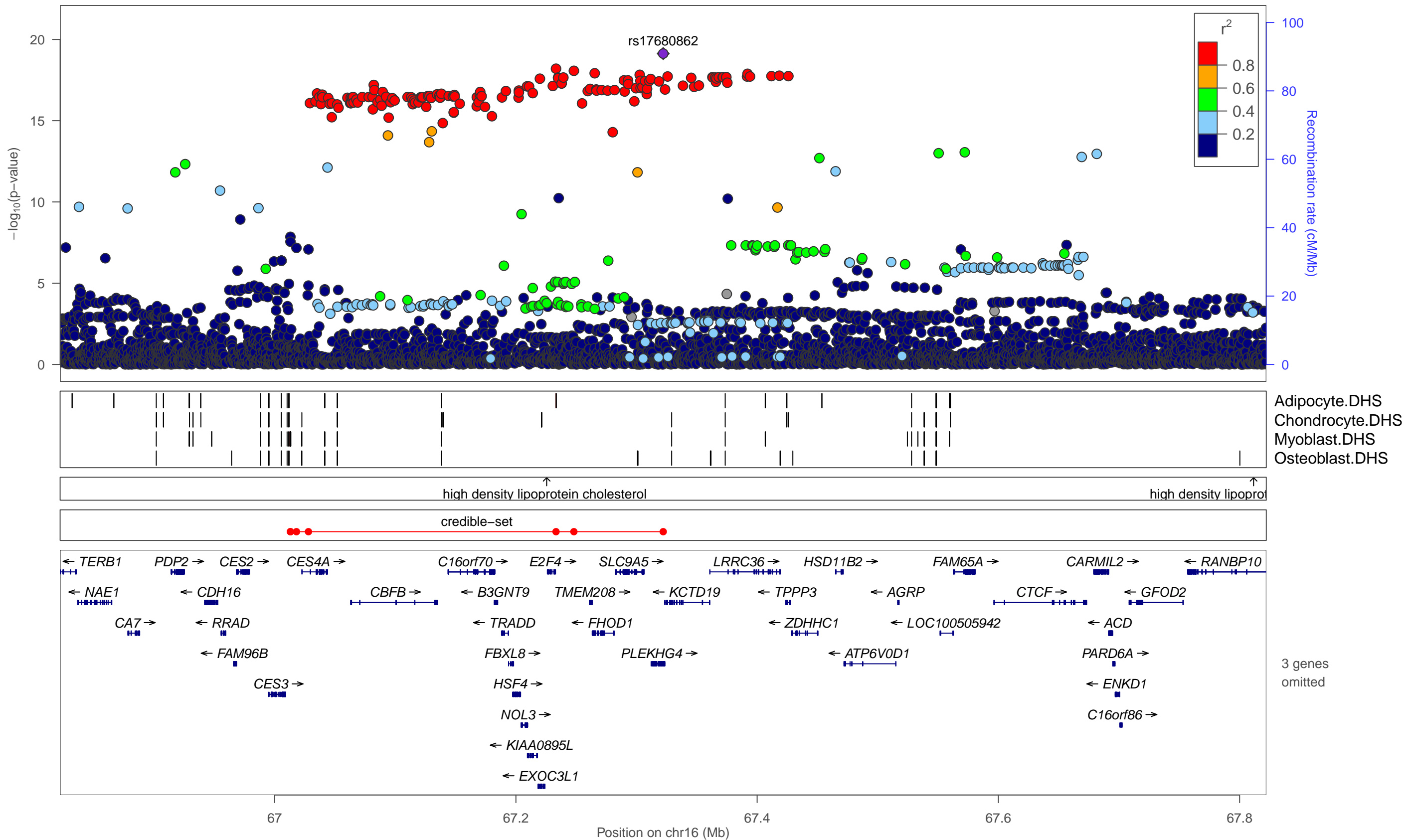
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	55.07201	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs17208368	EFO_0004209	GCST002563
16	55.34114	hypospadias	Geller F	10/08/2014	Nat Genet	25108383	rs6499755	EFO_0004209	GCST002563

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9930570	16	54.99127	2.0690	credible-set	red
rs13334558	16	54.99156	2.1558	credible-set	red
rs12708946	16	54.99181	2.0352	credible-set	red
rs4288990	16	55.04853	2.1711	credible-set	red
rs34725069	16	55.04885	3.0631	credible-set	red
rs60469035	16	55.04885	3.0607	credible-set	red
rs4238775	16	55.05484	2.1202	credible-set	red
rs4392067	16	55.05649	2.7783	credible-set	red
rs8044782	16	55.05835	2.3456	credible-set	red
rs11859843	16	55.05881	2.5919	credible-set	red
rs12149673	16	55.05913	2.6030	credible-set	red
rs8057729	16	55.06106	2.4915	credible-set	red
rs113956898	16	55.06186	2.4920	credible-set	red
16:55066551_T_TAT	16	55.06655	2.1094	credible-set	red
rs4783863	16	55.06936	2.2355	credible-set	red
rs60833045	16	55.12788	2.3553	credible-set	red
rs72459347	16	55.51093	2.7947	credible-set	red
rs243866	16	55.51154	2.8062	credible-set	red
rs243865	16	55.51181	2.8081	credible-set	red
rs243864	16	55.51232	3.3625	credible-set	red
rs243862	16	55.51362	3.1344	credible-set	red

eBMD SNP INDEX 252



date: Wed Jun 28 21:50:03 2017

build: hg19

display range: chr16:66822118–67822118 [66822118–67822118]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:67322118

number of SNPs plotted: 4288

min P-value: 7.4E-20 [chr16:67322118]

max P-value: 1E0 [chr16:66878826]

omitted Genes: ELMO3, MIR328, LRRC29

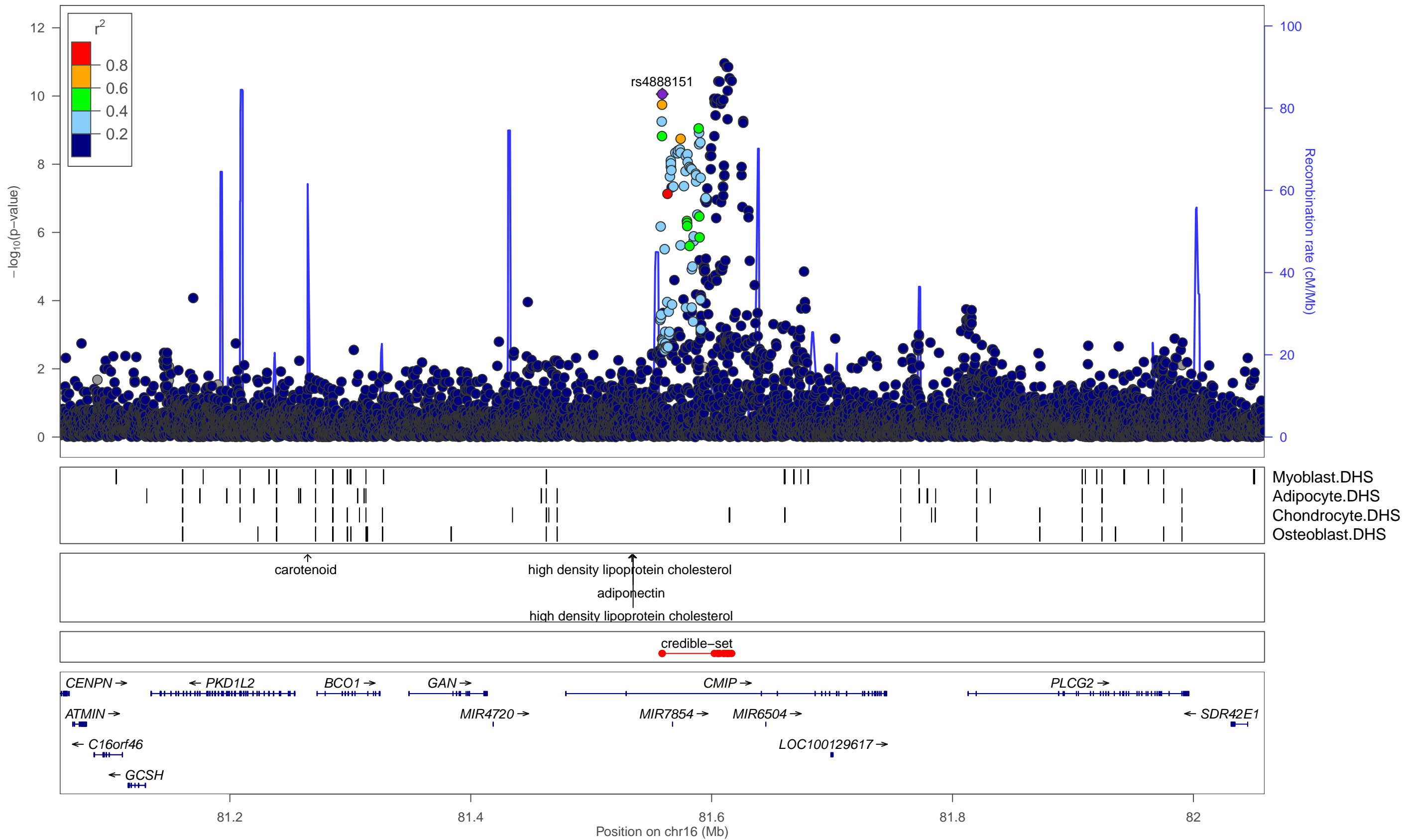
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	67.22550	high density lipoprotein cholesterol	Lettre G	10/02/2011	PLoS Genet	21347282	rs3729639	EFO_0004612	GCST000974
16	67.81159	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs73591976	EFO_0004612	GCST002899

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8064086	16	67.01304	3.4724	credible-set	red
rs8063817	16	67.01308	2.9442	credible-set	red
rs11373123	16	67.01805	2.4976	credible-set	red
rs4783748	16	67.02800	2.3792	credible-set	red
rs75193761	16	67.23324	2.2660	credible-set	red
rs59137598	16	67.24806	2.2016	credible-set	red
rs17680862	16	67.32212	2.1500	credible-set	red

eBMD SNP INDEX 253



date: Wed Jun 28 21:50:54 2017

build: hg19

display range: chr16:81059009–82059009 [81059009–82059009]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:81559009

number of SNPs plotted: 9985

min P-value: 1.1E-11 [chr16:81610667]

max P-value: 1E0 [chr16:81079622]

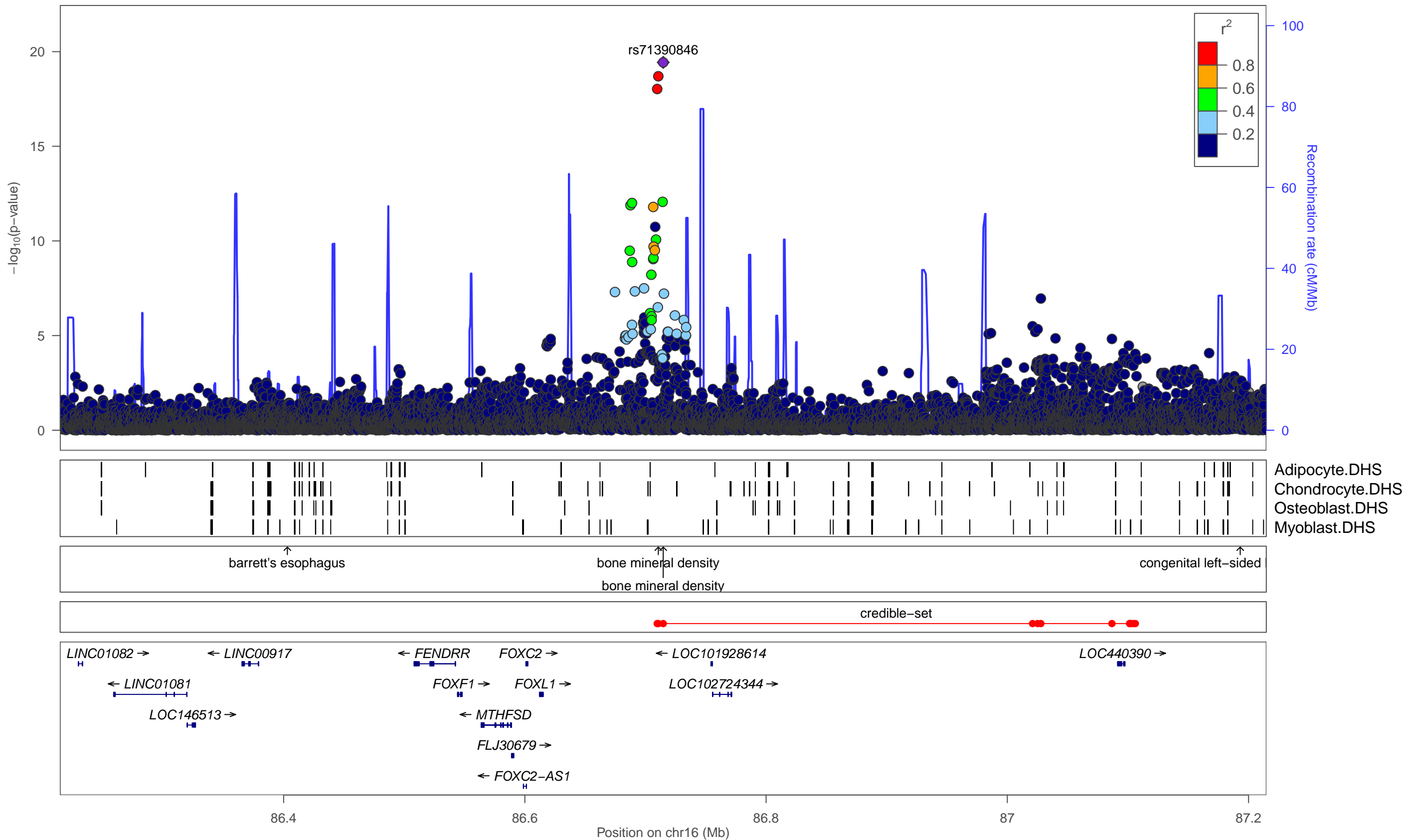
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	81.26460	carotenoid	Ferrucci L	29/01/2009	Am J Hum Genet	19185284	rs6564851	EFO_0004737	GCST000324
16	81.53379	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs56823429	EFO_0004612	GCST002899
16	81.53479	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs2925979	EFO_0004502	GCST001463
16	81.53479	adiponectin	Wu Y	14/10/2013	Hum Mol Genet	24105470	rs2925979	EFO_0004502	GCST002233
16	81.53479	high density lipoprotein cholesterol	Teslovich TM	5/08/2010	Nature	20686565	rs2925979	EFO_0004612	GCST000755
16	81.53479	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs2925979	EFO_0004612	GCST002223

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2317311	16	81.55883	2.0201	credible-set	red
rs4888151	16	81.55901	2.4805	credible-set	red
rs12930850	16	81.60221	2.0623	credible-set	red
rs12931242	16	81.60478	2.0632	credible-set	red
rs7198940	16	81.60556	2.5891	credible-set	red
rs12918645	16	81.60657	2.5707	credible-set	red
rs7196548	16	81.60977	2.0220	credible-set	red
rs12934751	16	81.61067	3.1855	credible-set	red
rs6564890	16	81.61254	3.0586	credible-set	red
rs34345437	16	81.61332	2.2962	credible-set	red
rs12926649	16	81.61373	3.0651	credible-set	red
rs7199293	16	81.61489	2.6831	credible-set	red
rs12925388	16	81.61667	2.5954	credible-set	red

eBMD SNP INDEX 254



date: Wed Jun 28 21:50:45 2017

build: hg19

display range: chr16:86214715–87214715 [86214715–87214715]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr16:86714715

number of SNPs plotted: 9888

min P-value: 3.7E-20 [chr16:86714715]

max P-value: 1E0 [chr16:86228501]

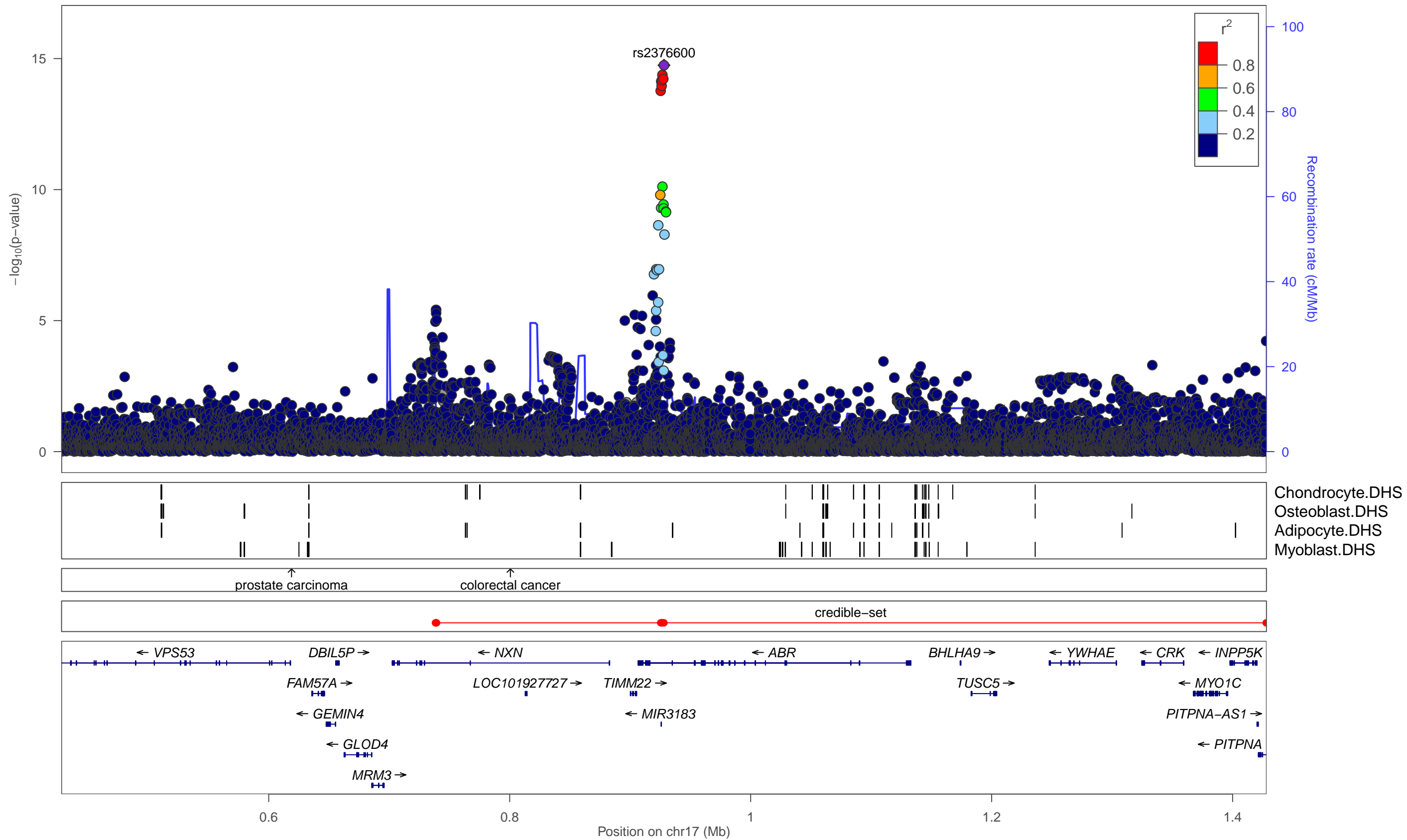
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
16	86.40312	barrett's esophagus	Su Z	9/09/2012	Nat Genet	22961001	rs9936833	EFO_0000280	GCST001675
16	86.71066	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10048146	EFO_0003923	GCST001482
16	86.71066	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs10048146	EFO_0003923	GCST000494
16	86.71471	bone mineral density	Zhang L	17/11/2013	Hum Mol Genet	24249740	rs71390846	EFO_0003923	GCST002276
16	86.71471	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs71390846	EFO_0004339	NA
16	87.19308	congenital left-sided heart lesions	Mitchell LE	18/08/2014	Hum Mol Genet	25138779	rs8061121	EFO_0005938	GCST002572

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12932673	16	86.70973	2.2335	credible-set	red
rs10048146	16	86.71066	3.0136	credible-set	red
rs71390846	16	86.71471	4.4870	credible-set	red
rs12921148	16	87.02091	2.6535	credible-set	red
rs7204035	16	87.02513	2.2401	credible-set	red
rs4072858	16	87.02781	4.0396	credible-set	red
rs4491510	16	87.08673	2.9749	credible-set	red
rs17697480	16	87.10142	2.4015	credible-set	red
rs17770146	16	87.10145	2.3967	credible-set	red
rs113755946	16	87.10236	2.0810	credible-set	red
rs79498694	16	87.10440	2.0459	credible-set	red
rs16942624	16	87.10612	2.7938	credible-set	red

eBMD SNP INDEX 255



date: Wed Jun 28 21:50:36 2017

build: hg19

display range: chr17:428078–1428078 [428078–1428078]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:928078

number of SNPs plotted: 9554

min P-value: 1.8E-15 [chr17:928078]

max P-value: 1E0 [chr17:1027098]

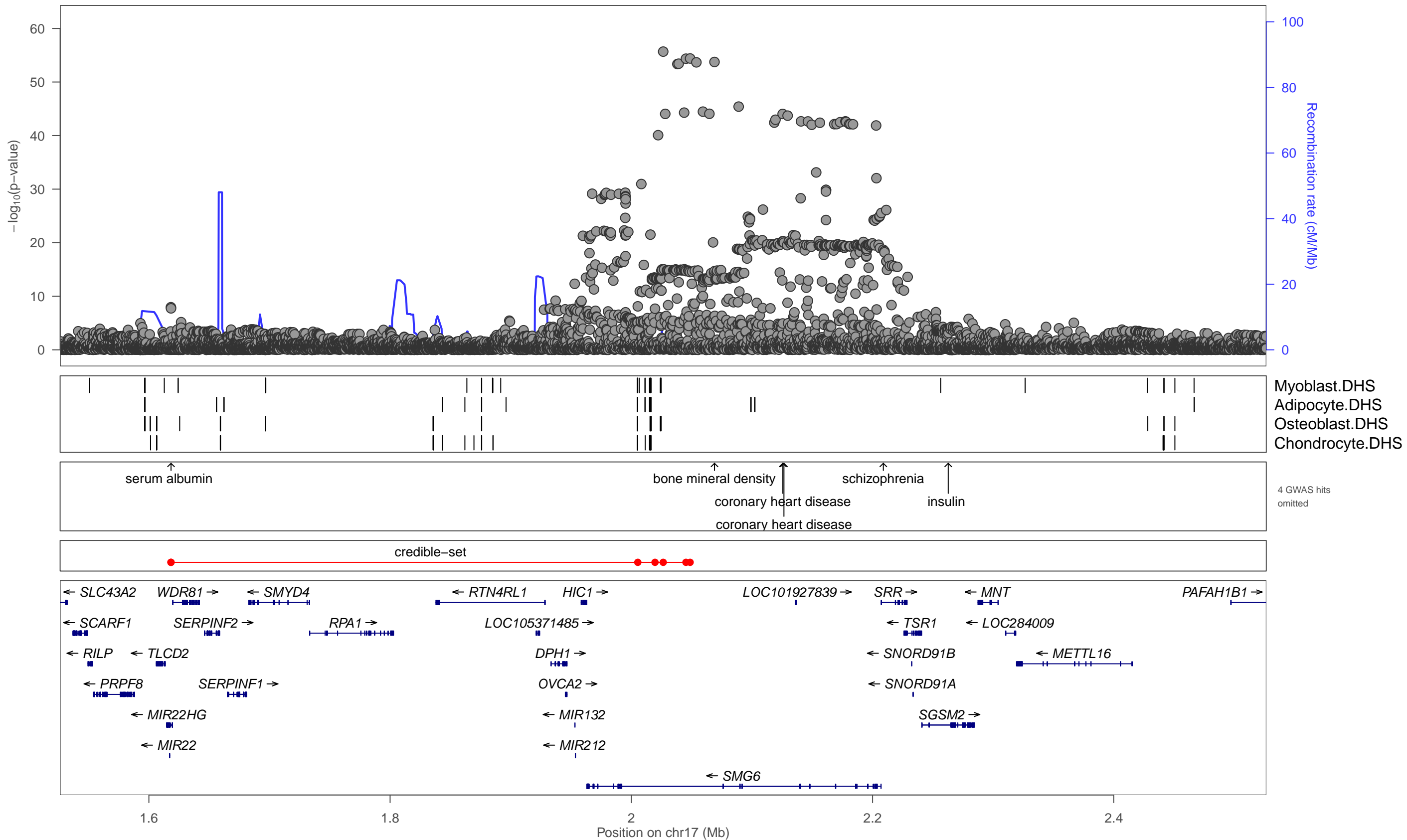
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	0.618965	prostate carcinoma	Eeles RA	1/04/2013	Nat Genet	23535732	rs684232	EFO_0001663	GCST001942
17	0.800593	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs12603526	EFO_0005842	GCST002454

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs112921974	17	0.738344	2.4149	credible-set	red
rs8066620	17	0.738853	2.7554	credible-set	red
rs67695828	17	0.738946	2.7471	credible-set	red
rs56382588	17	0.738949	2.7471	credible-set	red
rs56336971	17	0.738952	2.6040	credible-set	red
rs8071462	17	0.739367	2.3665	credible-set	red
rs2663349	17	0.925304	2.4240	credible-set	red
rs2663345	17	0.925764	2.8063	credible-set	red
rs2586252	17	0.926121	2.6107	credible-set	red
rs2663344	17	0.926359	2.8490	credible-set	red
rs2663343	17	0.926740	3.0867	credible-set	red
rs2663339	17	0.927516	2.9031	credible-set	red
rs2376600	17	0.928078	3.6068	credible-set	red
17:1427805_C_T	17	1.427805	2.0635	credible-set	red

eBMD SNP INDEX 256



date: Wed Jun 28 21:52:39 2017

build: hg19

display range: chr17:1526418–2526418 [1526418–2526418]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:2026418

number of SNPs plotted: 6950

min P-value: 2.1E-56 [chr17:2026417]

max P-value: 1E0 [chr17:1577384]

omitted GWAS Hits: chr17:2.208899–schizophrenia, chr17:2.262703–insulin

omitted GWAS Hits: NA

Warning: No usable LD information for reference SNP.

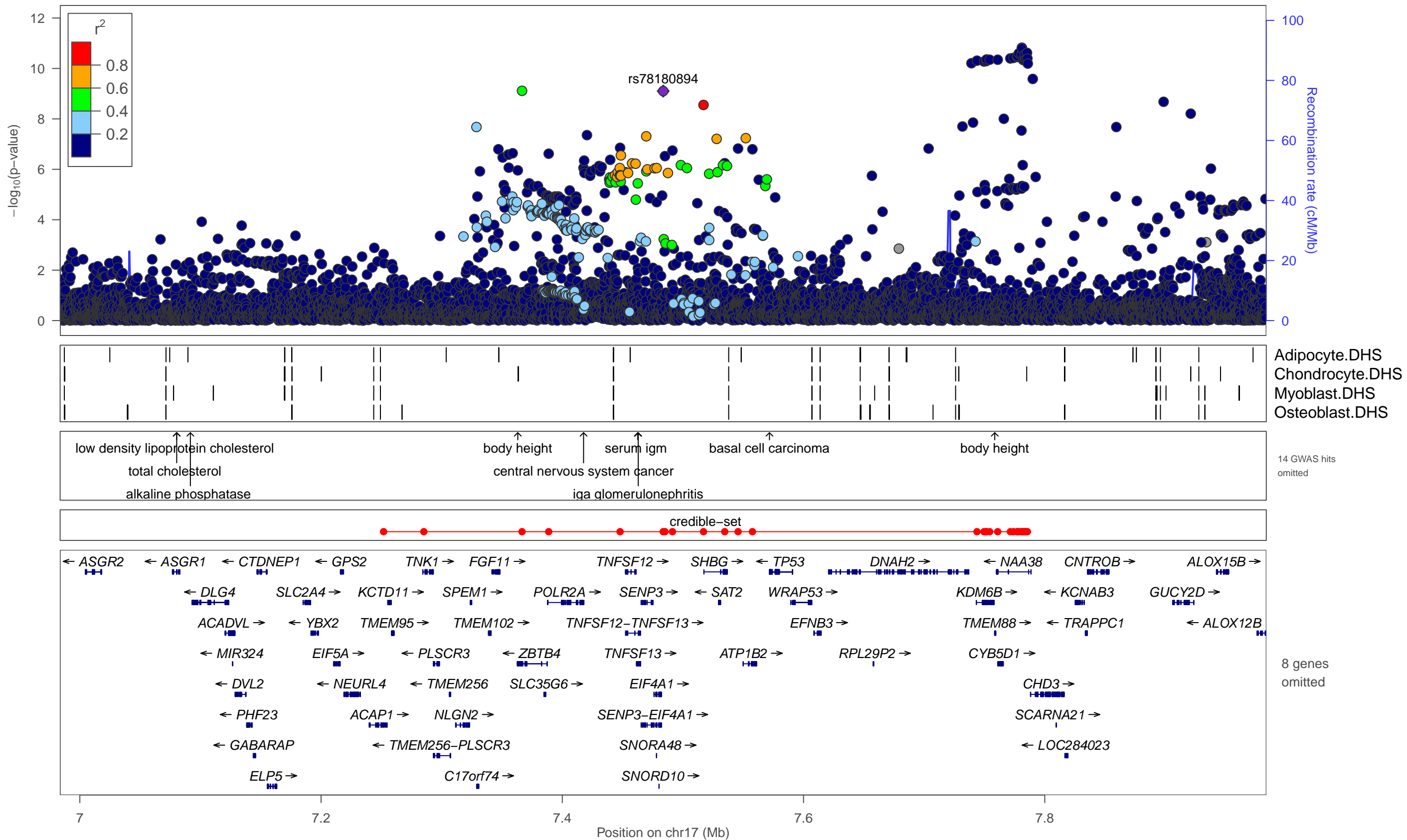
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	1.618363	serum albumin	Franceschini N	26/09/2012	Am J Hum Genet	23022100	rs11078597	EFO_0004535	GCST001699
17	2.068932	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4790881	EFO_0003923	GCST001482
17	2.125605	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs1231206	EFO_0001645	GCST000998
17	2.126504	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs216172	EFO_0001645	GCST000998
17	2.143460	aortic root size	Vasan RS	8/07/2009	JAMA	19584346	rs10852932	EFO_0005037	GCST000442
17	2.171637	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs17761864	EFO_0000707, EFO_0002916	GCST001674
17	2.196150	mitral valve prolapse	Dina C	24/08/2015	Nat Genet	26301497	rs216205	HP_0001634	GCST003094
17	2.208899	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs4523957	EFO_0000692	GCST003048
17	2.208899	schizophrenia	Ripke S	22/07/2014	Nature	25056061	rs4523957	EFO_0000692	GCST002539
17	2.216258	type ii diabetes mellitus	Tsai FJ	19/02/2010	PLoS Genet	20174558	rs391300	EFO_0001360	GCST000601
17	2.262703	insulin	Strawbridge RJ	26/08/2011	Diabetes	21873549	rs4790333	EFO_0004467	GCST001212

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11078596	17	1.618262	3.8873	credible-set	red
rs11078597	17	1.618363	3.3814	credible-set	red
rs7359529	17	2.005346	2.4197	credible-set	red
rs141194199	17	2.019620	2.0331	credible-set	red
rs35401268	17	2.026417	4.5580	credible-set	red
rs8072532	17	2.045273	2.2012	credible-set	red
rs7209460	17	2.048713	2.2387	credible-set	red

eBMD SNP INDEX 257



date: Wed Jun 28 21:53:11 2017

build: hg19

display range: chr17:6983662–7983662 [6983662–7983662]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:7483662

number of SNPs plotted: 6390

min P-value: 1.5E-11 [chr17:7781019]

max P-value: 1E0 [chr17:7011465]

omitted Genes: CLDN7, CHRNA1, SNORA67

omitted Genes: CD68, LOC100996842, MPDU1

omitted Genes: SOX15, FXR2

omitted GWAS Hits: chr17:7.363088–body height, chr17:7.41764–central nervous system cancer

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	7.080316	low density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs55714927	EFO_0004611	GCST002898
17	7.080316	total cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs55714927	EFO_0004574	GCST002896
17	7.091650	alkaline phosphatase	Chambers JC	16/10/2011	Nat Genet	22001757	rs314253	EFO_0004533	GCST001276
17	7.091650	low density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs314253	EFO_0004611	GCST002222
17	7.091650	total cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs314253	EFO_0004574	GCST002221
17	7.142851	metabolite	Kettunen J	29/01/2012	Nat Genet	22286219	rs117616209	EFO_0004725	GCST001391
17	7.363088	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs9217	EFO_0004339	GCST002647
17	7.417640	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs8753	EFO_0000326	GCST003227
17	7.462555	serum igm	Yang M	31/10/2012	PLoS One	23118916	rs11552708	EFO_0004993	GCST001724
17	7.462969	iga glomerulonephritis	Yu XQ	25/12/2011	Nat Genet	22197929	rs3803800	EFO_0004194	GCST001364
17	7.462969	serum non-albumin protein	Osman W	27/04/2012	PLoS One	22558069	rs3803800	EFO_0004568	GCST001496
17	7.487108	testosterone	Chen Z	18/09/2013	J Med Genet	24049095	rs2075230	EFO_0004908	GCST002195
17	7.491177	iga glomerulonephritis	Yu XQ	25/12/2011	Nat Genet	22197929	rs4227	EFO_0004194	GCST001364
17	7.521915	testosterone	Ohlsson C	6/10/2011	PLoS Genet	21998597	rs12150660	EFO_0004908	GCST001264
17	7.534678	testosterone	Ohlsson C	6/10/2011	PLoS Genet	21998597	rs6258	EFO_0004908	GCST001264
17	7.537792	dihydrotestosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs727428	EFO_0004909	GCST001653
17	7.537792	testosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs727428	EFO_0004908	GCST001653
17	7.552123	dihydrotestosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs72829446	EFO_0004909	GCST001653
17	7.557834	esophageal squamous cell carcinoma	Wu C	17/08/2014	Nat Genet	25129146	rs1642764	EFO_0005922	GCST002568
17	7.571752	basal cell carcinoma	Stacey SN	25/09/2011	Nat Genet	21946351	rs78378222	EFO_0004193	GCST001250
17	7.571752	basal cell carcinoma	Stacey SN	8/01/2014	Hum Mol Genet	24403052	rs78378222	EFO_0004193	GCST002331
17	7.571752	basal cell carcinoma	Stacey SN	9/04/2015	Nat Commun	25855136	rs78378222	EFO_0004193	GCST002842
17	7.578671	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs35850753	EFO_0000326	GCST003228
17	7.578671	glioblastoma multiforme	Kinnersley B	1/10/2015	Nat Commun	26424050	rs35850753	EFO_0000519	GCST003220
17	7.758522	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2270518	EFO_0004339	GCST002702

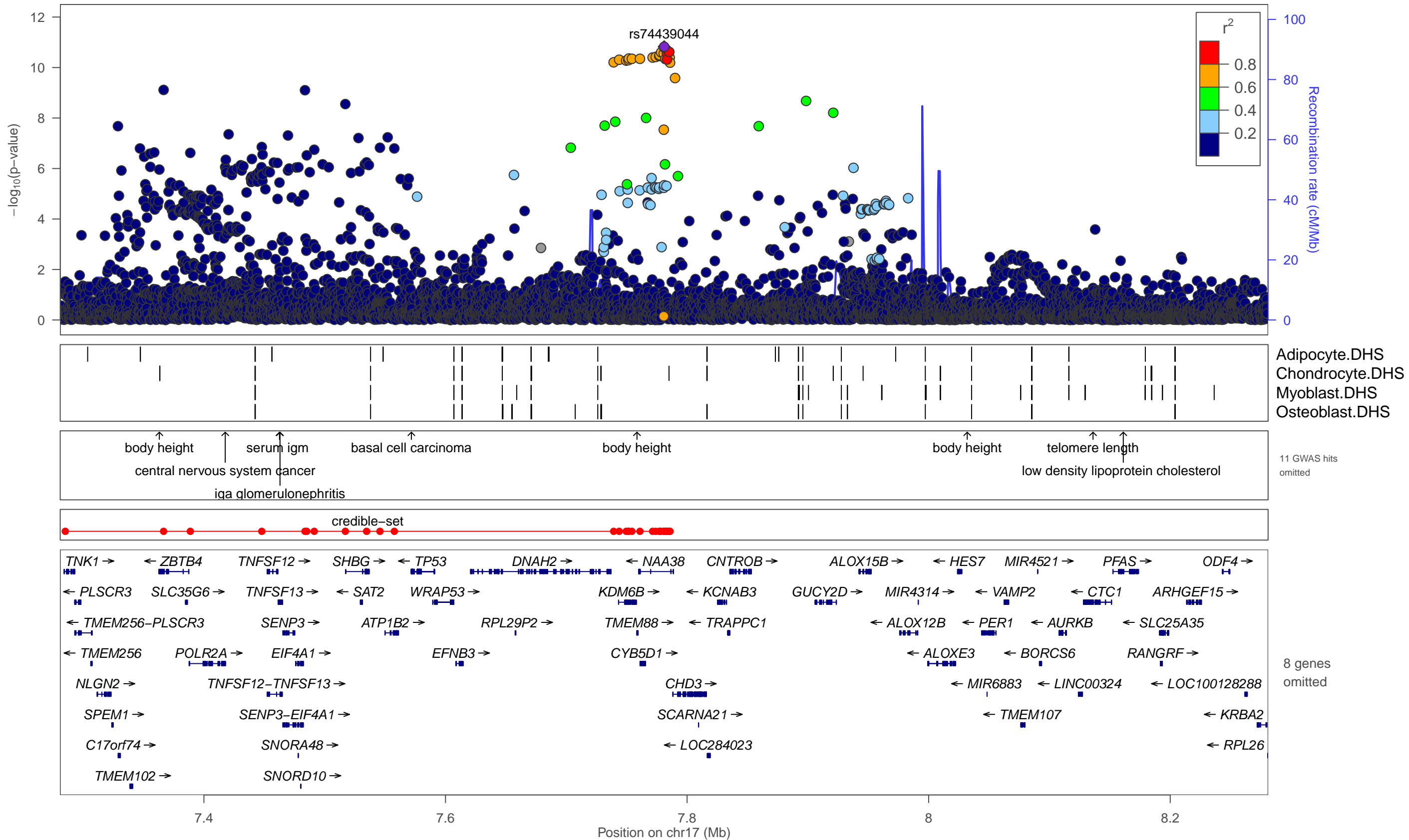
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs113342378	17	7.251839	3.1886	credible-set	red
rs72842805	17	7.285210	2.0721	credible-set	red
rs34914463	17	7.366619	3.9915	credible-set	red
rs117573122	17	7.388716	2.8285	credible-set	red
rs149526962	17	7.447905	3.1699	credible-set	red
rs78180894	17	7.483662	3.0172	credible-set	red
rs12944954	17	7.485131	2.0854	credible-set	red
rs545206972	17	7.491331	3.2130	credible-set	red
rs78766798	17	7.517075	2.3556	credible-set	red
rs6258	17	7.534678	2.4587	credible-set	red
rs34146209	17	7.545722	2.1509	credible-set	red
rs36041343	17	7.557630	2.1107	credible-set	red
rs55977787	17	7.743793	2.1012	credible-set	red
rs80152199	17	7.749621	2.0691	credible-set	red
rs3744247	17	7.751388	2.0796	credible-set	red
rs3744248	17	7.751751	2.1338	credible-set	red
rs146364592	17	7.754295	2.1435	credible-set	red
rs3744251	17	7.760983	2.1512	credible-set	red
rs76730553	17	7.771462	2.1951	credible-set	red
rs55680968	17	7.774047	2.2189	credible-set	red
rs55722807	17	7.776985	2.2690	credible-set	red
rs11078711	17	7.777214	2.3131	credible-set	red
rs79951937	17	7.778525	2.4249	credible-set	red
17:7780690_A_ATT	17	7.780690	2.4085	credible-set	red
rs74439044	17	7.781019	2.6723	credible-set	red
rs76833657	17	7.781020	2.6725	credible-set	red
rs59328845	17	7.782040	2.1421	credible-set	red
rs147435051	17	7.783322	2.3595	credible-set	red
17:7783335_A_AGA	17	7.783335	2.1432	credible-set	red
rs17807204	17	7.784295	2.1428	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs146808712	17	7.785257	2.4394	credible-set	red
rs78209469	17	7.785590	2.2080	credible-set	red

eBMD SNP INDEX 258



date: Wed Jun 28 21:54:58 2017

build: hg19

display range: chr17:7281019–8281019 [7281019–8281019]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:7781019

number of SNPs plotted: 6491

min P-value: 1.5E-11 [chr17:7781019]

max P-value: 1E0 [chr17:7305992]

omitted Genes: FGF11, CHRNA1, SNORA67

omitted Genes: CD68, LOC100996842, MPDU1

omitted Genes: SOX15, FXR2

omitted GWAS Hits: chr17:7.571752–basal cell carcinoma, chr17:7.758522–body height

omitted GWAS Hits: chr17:8.136092–telomere length, chr17:8.161149–low density lipoprotein cholesterol

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	7.363088	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs9217	EFO_0004339	GCST002647
17	7.417640	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs8753	EFO_0000326	GCST003227
17	7.462555	serum igm	Yang M	31/10/2012	PLoS One	23118916	rs11552708	EFO_0004993	GCST001724
17	7.462969	iga glomerulonephritis	Yu XQ	25/12/2011	Nat Genet	22197929	rs3803800	EFO_0004194	GCST001364
17	7.462969	serum non-albumin protein	Osman W	27/04/2012	PLoS One	22558069	rs3803800	EFO_0004568	GCST001496
17	7.487108	testosterone	Chen Z	18/09/2013	J Med Genet	24049095	rs2075230	EFO_0004908	GCST002195
17	7.491177	iga glomerulonephritis	Yu XQ	25/12/2011	Nat Genet	22197929	rs4227	EFO_0004194	GCST001364
17	7.521915	testosterone	Ohlsson C	6/10/2011	PLoS Genet	21998597	rs12150660	EFO_0004908	GCST001264
17	7.534678	testosterone	Ohlsson C	6/10/2011	PLoS Genet	21998597	rs6258	EFO_0004908	GCST001264
17	7.537792	dihydrotestosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs727428	EFO_0004909	GCST001653
17	7.537792	testosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs727428	EFO_0004908	GCST001653
17	7.552123	dihydrotestosterone	Jin G	30/08/2012	Hum Mol Genet	22936694	rs72829446	EFO_0004909	GCST001653
17	7.557834	esophageal squamous cell carcinoma	Wu C	17/08/2014	Nat Genet	25129146	rs1642764	EFO_0005922	GCST002568
17	7.571752	basal cell carcinoma	Stacey SN	25/09/2011	Nat Genet	21946351	rs78378222	EFO_0004193	GCST001250
17	7.571752	basal cell carcinoma	Stacey SN	8/01/2014	Hum Mol Genet	24403052	rs78378222	EFO_0004193	GCST002331
17	7.571752	basal cell carcinoma	Stacey SN	9/04/2015	Nat Commun	25855136	rs78378222	EFO_0004193	GCST002842
17	7.578671	central nervous system cancer	Kinnersley B	1/10/2015	Nat Commun	26424050	rs35850753	EFO_0000326	GCST003228
17	7.578671	glioblastoma multiforme	Kinnersley B	1/10/2015	Nat Commun	26424050	rs35850753	EFO_0000519	GCST003220
17	7.758522	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2270518	EFO_0004339	GCST002702
17	8.031936	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs8067165	EFO_0004339	GCST002647
17	8.136092	telomere length	Mangino M	25/09/2012	Hum Mol Genet	23001564	rs3027234	EFO_0004505	GCST001697
17	8.161149	low density lipoprotein cholesterol	Below JE	19/01/2016	Sci Rep	26780889	rs4791641	EFO_0004611	GCST003303

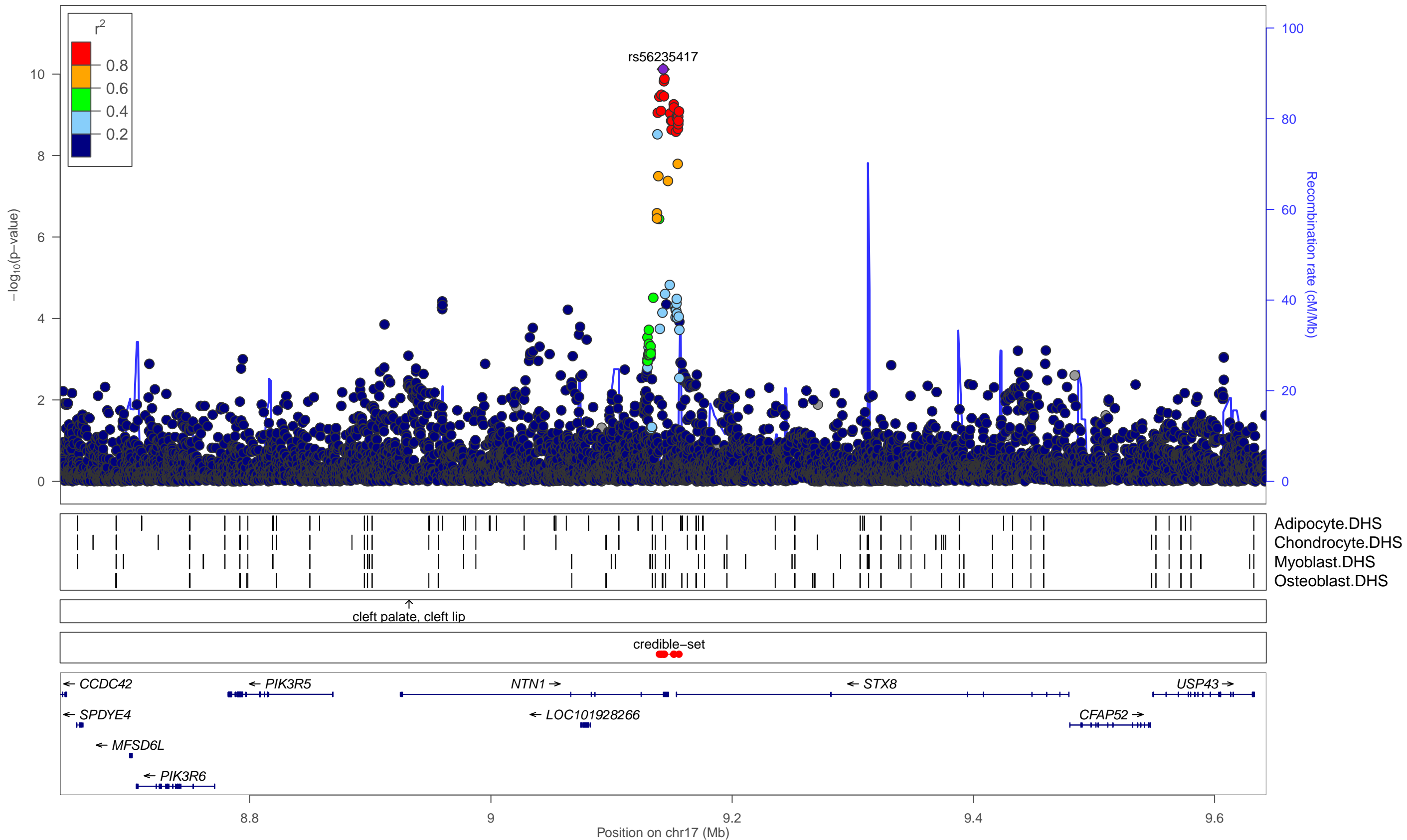
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs72842805	17	7.285210	2.2350	credible-set	red
rs34914463	17	7.366619	3.7832	credible-set	red
rs117573122	17	7.388716	2.8335	credible-set	red
rs149526962	17	7.447905	3.1498	credible-set	red
rs78180894	17	7.483662	3.2235	credible-set	red
rs12944954	17	7.485131	2.0873	credible-set	red
rs545206972	17	7.491331	3.1816	credible-set	red
rs78766798	17	7.517075	2.5244	credible-set	red
rs6258	17	7.534678	2.4504	credible-set	red
rs34146209	17	7.545722	2.2410	credible-set	red
rs36041343	17	7.557630	2.2025	credible-set	red
rs74692204	17	7.739215	2.0096	credible-set	red
rs55977787	17	7.743793	2.1218	credible-set	red
rs80152199	17	7.749621	2.0850	credible-set	red
rs3744247	17	7.751388	2.0914	credible-set	red
rs3744248	17	7.751751	2.1440	credible-set	red
rs146364592	17	7.754295	2.1513	credible-set	red
rs3744251	17	7.760983	2.1595	credible-set	red
rs76730553	17	7.771462	2.2094	credible-set	red
rs55680968	17	7.774047	2.2365	credible-set	red
rs55722807	17	7.776985	2.2811	credible-set	red
rs11078711	17	7.777214	2.3262	credible-set	red
rs79951937	17	7.778525	2.4405	credible-set	red
17:7780690_A_ATT	17	7.780690	2.4166	credible-set	red
rs74439044	17	7.781019	2.6603	credible-set	red
rs76833657	17	7.781020	2.6809	credible-set	red
rs59328845	17	7.782040	2.1513	credible-set	red
rs147435051	17	7.783322	2.3540	credible-set	red
17:7783335_A_AGA	17	7.783335	2.1342	credible-set	red
rs17807204	17	7.784295	2.1551	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs146808712	17	7.785257	2.4307	credible-set	red
rs78209469	17	7.785590	2.2231	credible-set	red
rs74252295	17	7.785905	2.0018	credible-set	red

eBMD SNP INDEX 259



date: Wed Jun 28 21:55:28 2017

build: hg19

display range: chr17:8642846–9642846 [8642846–9642846]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:9142846

number of SNPs plotted: 6956

min P-value: 7.6E-11 [chr17:9142846]

max P-value: 1E0 [chr17:8694029]

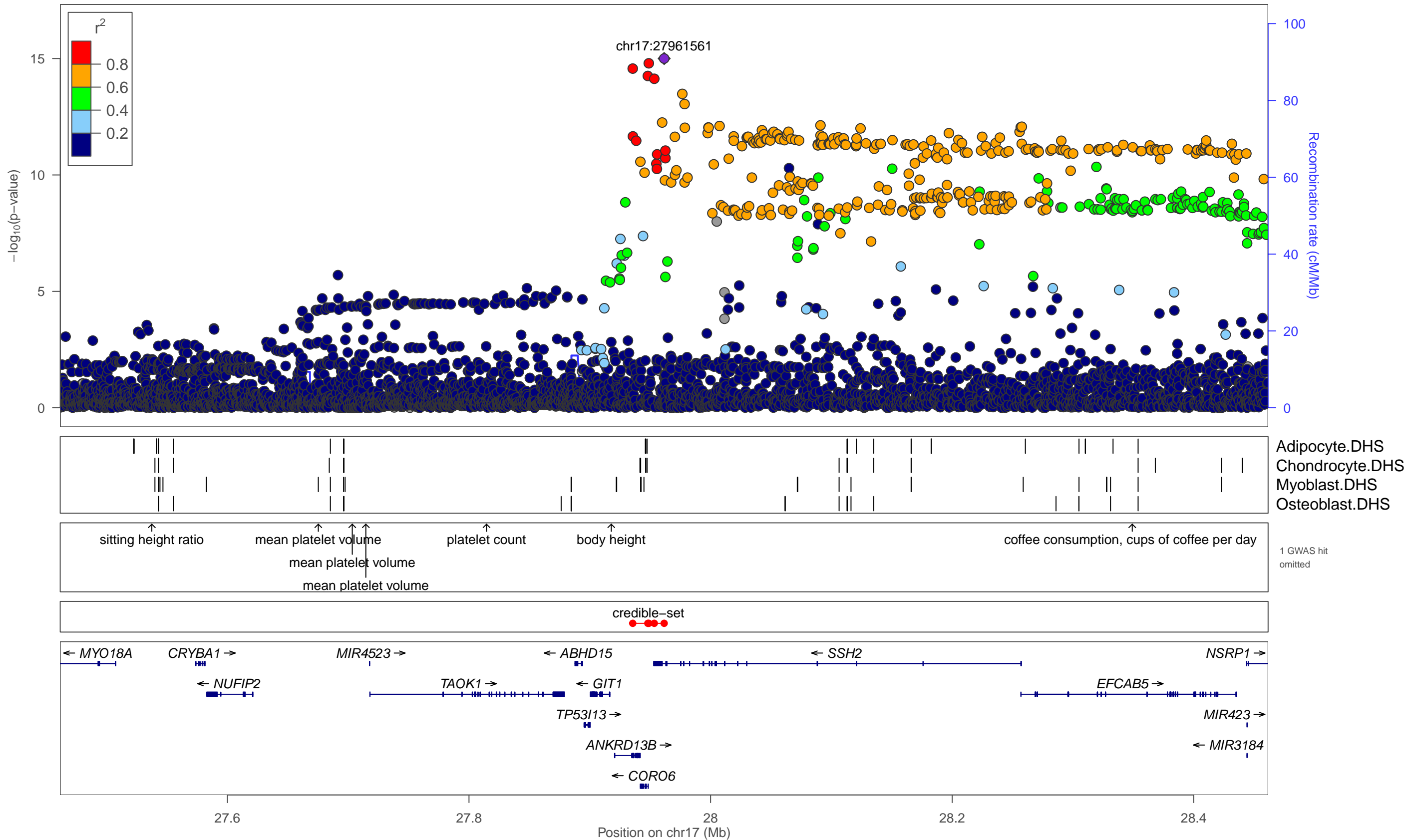
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	8.932119	cleft palate, cleft lip	Sun Y	16/03/2015	Nat Commun	25775280	rs4791774	HP_0000175, EFO_0003959	GCST002811

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs75557587	17	9.139680	2.3966	credible-set	red
rs56223768	17	9.140947	2.0348	credible-set	red
rs3744656	17	9.141323	2.4494	credible-set	red
rs56235417	17	9.142846	3.1625	credible-set	red
rs113122856	17	9.143458	2.8186	credible-set	red
rs184106895	17	9.143476	2.4135	credible-set	red
rs1107361	17	9.143864	2.8851	credible-set	red
rs76653948	17	9.151562	2.2125	credible-set	red
rs80100171	17	9.151754	2.1316	credible-set	red
rs201916086	17	9.155926	2.0308	credible-set	red

eBMD SNP INDEX 260



date: Wed Jun 28 21:58:51 2017

build: hg19

display range: chr17:27461561–28461561 [27461561–28461561]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:27961561

number of SNPs plotted: 4318

min P-value: 1E-15 [chr17:27961561]

max P-value: 1E0 [chr17:27589767]

omitted GWAS Hits: chr17:27.814496–platelet count

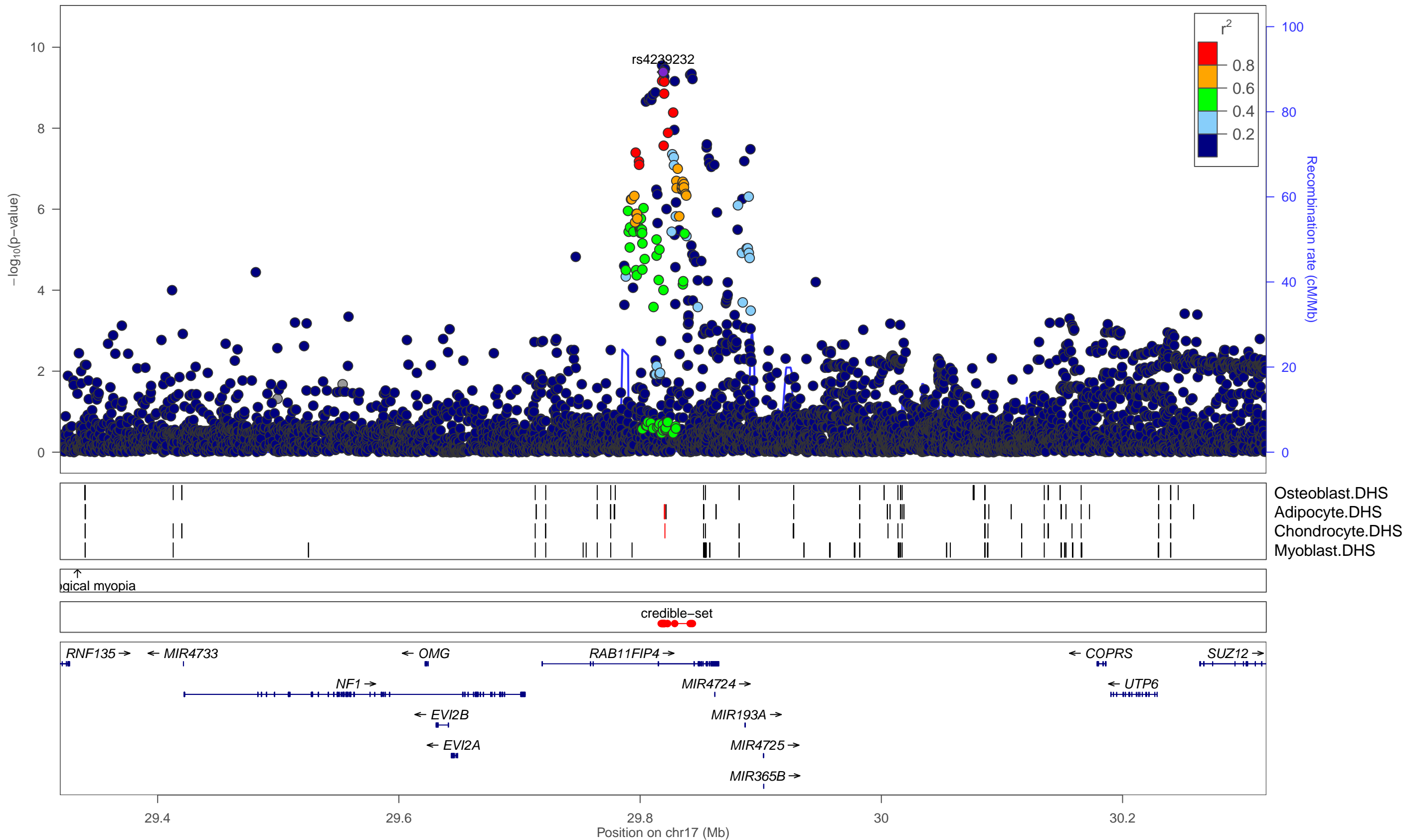
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	27.53741	sitting height ratio	Chan Y	9/04/2015	Am J Hum Genet	25865494	rs34638952	EFO_0007118	GCST002843
17	27.67523	mean platelet volume	Qayyum R	8/03/2012	PLoS Genet	22423221	rs11653144	EFO_0004584	GCST001439
17	27.70335	mean platelet volume	Meisinger C	24/12/2008	Am J Hum Genet	19110211	rs2138852	EFO_0004584	GCST000305
17	27.70335	mean platelet volume	Soranzo N	11/10/2009	Nat Genet	19820697	rs2138852	EFO_0004584	GCST000497
17	27.71459	mean platelet volume	Gieger C	30/11/2011	Nature	22139419	rs8076739	EFO_0004584	GCST001335
17	27.76960	mean platelet volume	Shameer K	12/09/2013	Hum Genet	24026423	rs9900280	EFO_0004584	GCST002184
17	27.81450	platelet count	Gieger C	30/11/2011	Nature	22139419	rs559972	EFO_0004309	GCST001337
17	27.91777	body height	Lango Allen H	29/09/2010	Nature	20881960	rs3110496	EFO_0004339	GCST000817
17	28.34909	coffee consumption, cups of coffee per day	Cornelis MC	7/10/2014	Mol Psychiatry	25288136	rs9902453	EFO_0004330, EFO_0006782	GCST002650

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9911167	17	27.93555	2.7583	credible-set	red
rs8075441	17	27.94805	2.3030	credible-set	red
rs3760456	17	27.94884	2.9702	credible-set	red
rs3833159	17	27.95339	2.2221	credible-set	red
17:27961561_GATTATT_G	17	27.96156	3.2725	credible-set	red

eBMD SNP INDEX 261



date: Wed Jun 28 21:50:27 2017

build: hg19

display range: chr17:29319149–30319149 [29319149–30319149]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:29819149

number of SNPs plotted: 5655

min P-value: 2.8E-10 [chr17:29818219]

max P-value: 1E0 [chr17:29330596]

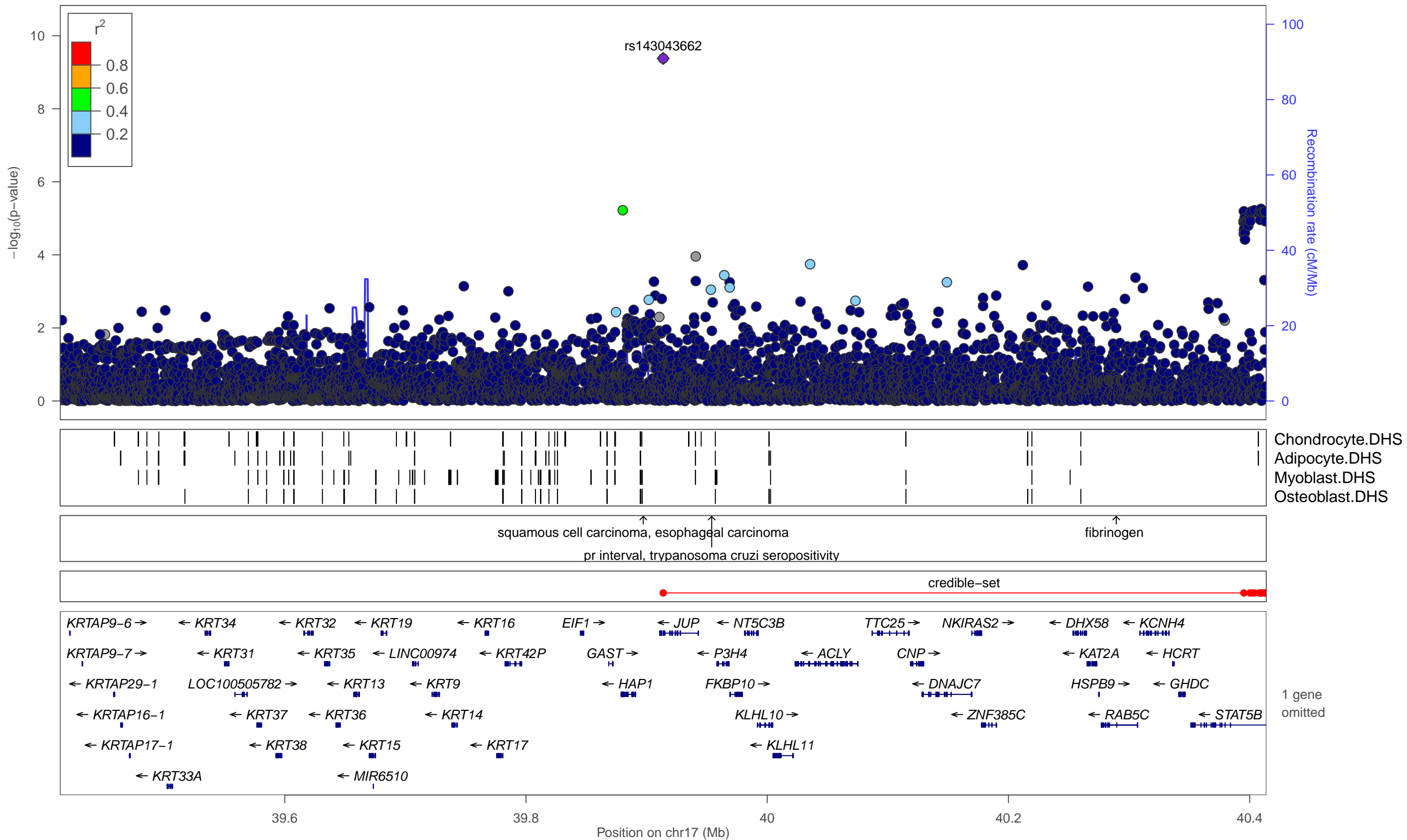
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	29.33352	pathological myopia	Meng W	9/10/2012	Invest Ophthalmol Vis Sci	23049088	rs17826255	EFO_0004207	GCST001712

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12936948	17	29.81744	2.1749	credible-set	red
rs34122905	17	29.81788	2.1900	credible-set	red
rs7209296	17	29.81822	2.7456	credible-set	red
rs7215205	17	29.81826	2.6491	credible-set	red
rs4795613	17	29.81889	2.0205	credible-set	red
rs4239232	17	29.81915	2.9082	credible-set	red
rs4794891	17	29.81915	2.0297	credible-set	red
rs11422116	17	29.81988	2.1471	credible-set	red
rs76585552	17	29.81995	2.3894	credible-set	red
rs7221730	17	29.82005	2.6100	credible-set	red
rs62063883	17	29.82057	2.6917	credible-set	red
rs9890269	17	29.82246	2.1492	credible-set	red
rs12937238	17	29.82286	2.1507	credible-set	red
rs8074486	17	29.82869	2.2304	credible-set	red
rs5819947	17	29.84150	2.3472	credible-set	red
rs882360	17	29.84255	2.3888	credible-set	red
rs7502143	17	29.84340	2.2243	credible-set	red

eBMD SNP INDEX 262



date: Wed Jun 28 21:51:21 2017

build: hg19

display range: chr17:39413771–40413771 [39413771–40413771]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:39913771

number of SNPs plotted: 5850

min P-value: 4.2E-10 [chr17:39913771]

max P-value: 1E0 [chr17:39430764]

omitted Genes: KRT33B

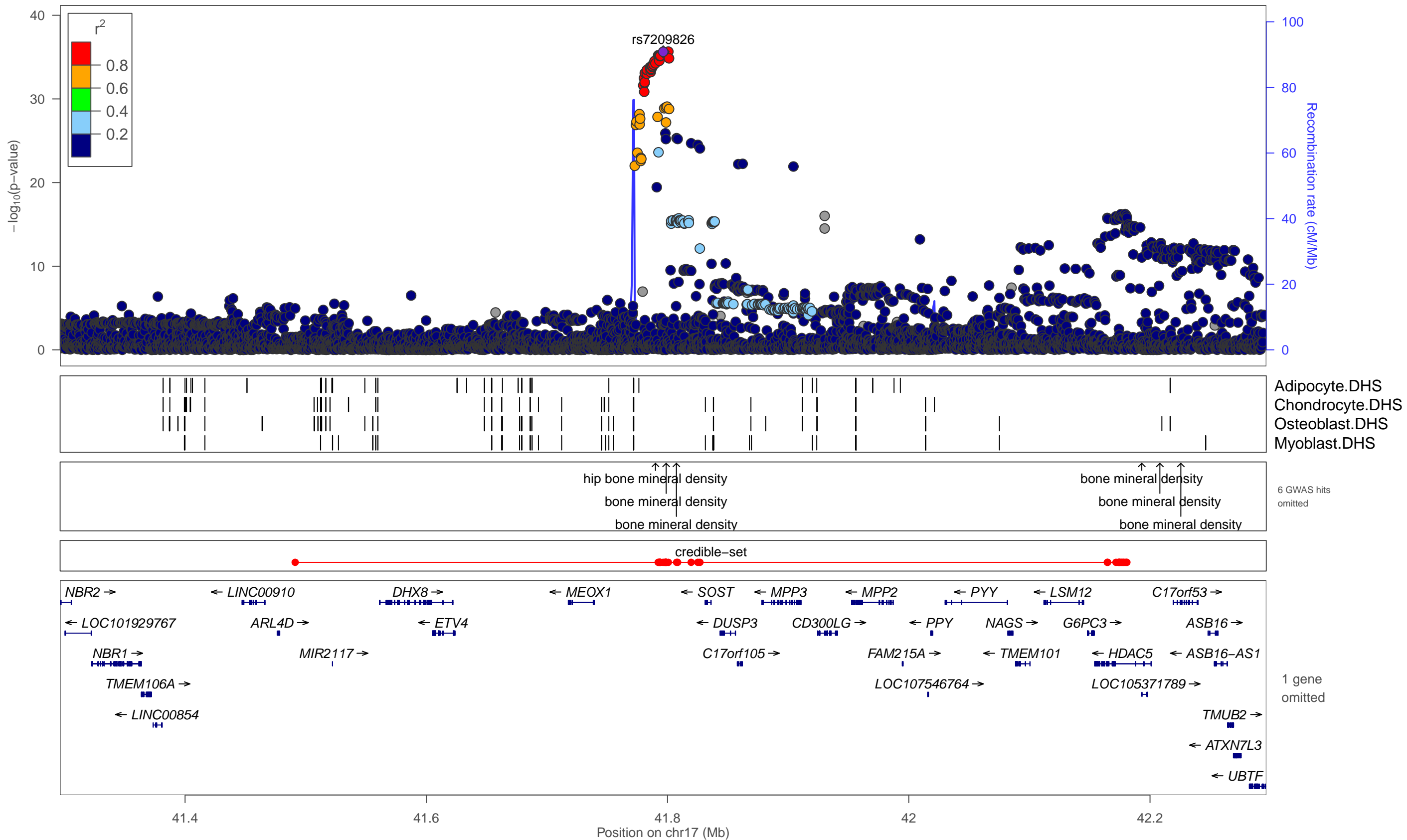
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	39.89726	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs6503659	EFO_0000707, EFO_0002916	GCST001674
17	39.95396	pr interval, trypanosoma cruzi seropositivity	Deng X	20/11/2013	PLoS One	24324551	rs191392302	EFO_0004462, EFO_0005530	GCST002279
17	40.28936	fibrinogen	de Vries PS	10/11/2015	Hum Mol Genet	26561523	rs7224737	EFO_0004623	GCST003194

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs143043662	17	39.91377	7.2627	credible-set	red
rs11443474	17	40.39519	2.1601	credible-set	red
rs60145270	17	40.40039	2.1370	credible-set	red
rs16967611	17	40.40157	2.1834	credible-set	red
rs8071671	17	40.40393	2.2115	credible-set	red
rs12600584	17	40.40806	2.0982	credible-set	red
rs9893794	17	40.40840	2.1904	credible-set	red
rs140604830	17	40.40940	2.2566	credible-set	red
rs9906933	17	40.41004	2.1540	credible-set	red
rs1136897	17	40.41195	2.1540	credible-set	red
rs7216004	17	40.41282	2.1757	credible-set	red

eBMD SNP INDEX 263



date: Wed Jun 28 21:52:32 2017

build: hg19

display range: chr17:41296406–42296406 [41296406–42296406]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:41796406

number of SNPs plotted: 5340

min P-value: 2.2E–36 [chr17:41800656]

max P-value: 1E0 [chr17:41318252]

omitted Genes: MIR6782

omitted GWAS Hits: chr17:42.193185–bone mineral density, chr17:42.208172–bone mineral density

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	41.78997	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs7220711	EFO_0007702	GCST003389
17	41.79882	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4792909	EFO_0003923	GCST001482
17	41.80733	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1513670	EFO_0003923	GCST000297
17	41.84085	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004612	GCST002899
17	41.84085	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004530	GCST002897
17	41.85862	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007702	GCST003389
17	41.85862	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007701	GCST003388
17	41.87817	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs8077889	EFO_0004530	GCST002216
17	42.19318	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs228769	EFO_0003923	GCST000495
17	42.20817	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11652763	EFO_0004339	NA
17	42.22555	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs227584	EFO_0003923	GCST001482
17	42.24193	a1c	Chen P	7/11/2013	PLoS One	24244560	rs12602486	EFO_0004541	GCST002270

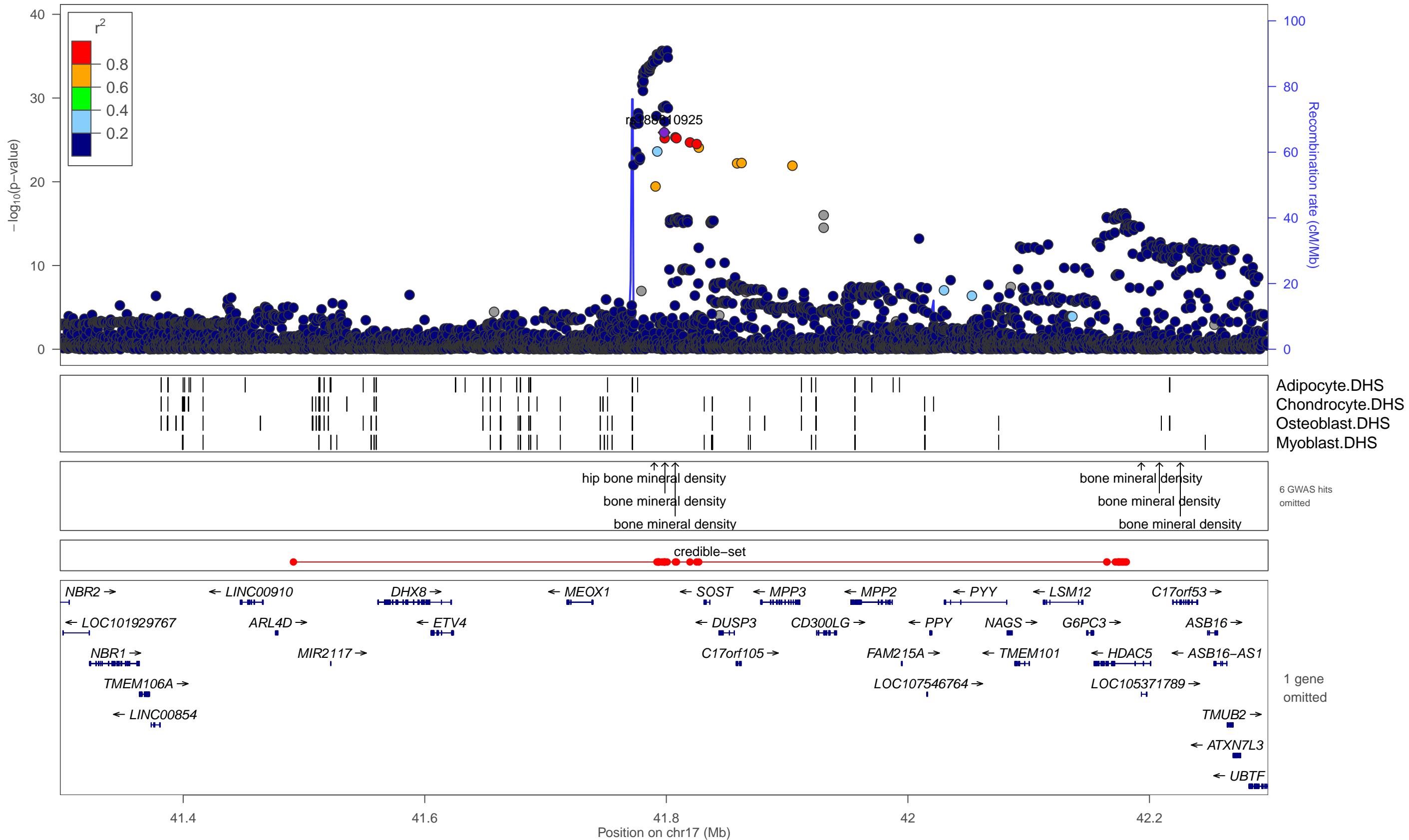
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs111460024	17	41.49128	3.9675	credible-set	red
rs12602349	17	41.79224	2.3771	credible-set	red
rs2342313	17	41.79277	2.3410	credible-set	red
rs12602890	17	41.79326	2.3913	credible-set	red
rs59303349	17	41.79367	2.2968	credible-set	red
rs8072333	17	41.79389	2.2849	credible-set	red
rs8072602	17	41.79403	2.3635	credible-set	red
rs7209826	17	41.79641	2.7391	credible-set	red
rs1828720	17	41.79769	2.3352	credible-set	red
rs188810925	17	41.79819	3.0250	credible-set	red
rs66838809	17	41.79862	2.2419	credible-set	red
rs4792909	17	41.79882	2.1912	credible-set	red
rs4793022	17	41.79886	2.1837	credible-set	red
rs4793023	17	41.80066	2.3924	credible-set	red
rs76410205	17	41.80751	3.0656	credible-set	red
rs80107551	17	41.80837	2.9635	credible-set	red
rs144691710	17	41.81956	2.5649	credible-set	red
rs75013658	17	41.82511	2.4531	credible-set	red
rs2741856	17	41.82684	2.1251	credible-set	red
rs190144	17	42.16458	2.0892	credible-set	red
rs228757	17	42.16488	2.0556	credible-set	red
rs4793076	17	42.17177	2.2981	credible-set	red
rs228746	17	42.17375	2.2351	credible-set	red
rs228748	17	42.17439	2.3066	credible-set	red
rs228749	17	42.17457	2.0110	credible-set	red
rs5820523	17	42.17482	2.2831	credible-set	red
rs170634	17	42.17582	2.4521	credible-set	red
rs615070	17	42.17659	2.2658	credible-set	red
rs850851	17	42.17767	2.1510	credible-set	red
rs12940978	17	42.17812	2.2361	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2523161	17	42.17941	2.4739	credible-set	red
rs609292	17	42.18044	2.2011	credible-set	red
rs1684662	17	42.18082	2.1889	credible-set	red

eBMD SNP INDEX 264



date: Wed Jun 28 21:50:59 2017

build: hg19

display range: chr17:41298194–42298194 [41298194–42298194]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:41798194

number of SNPs plotted: 5335

min P-value: 2.2E-36 [chr17:41800656]

max P-value: 1E0 [chr17:41318252]

omitted Genes: MIR6782

omitted GWAS Hits: chr17:42.193185–bone mineral density, chr17:42.208172–bone mineral density

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	41.78997	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs7220711	EFO_0007702	GCST003389
17	41.79882	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4792909	EFO_0003923	GCST001482
17	41.80733	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1513670	EFO_0003923	GCST000297
17	41.84085	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004612	GCST002899
17	41.84085	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004530	GCST002897
17	41.85862	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007702	GCST003389
17	41.85862	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007701	GCST003388
17	41.87817	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs8077889	EFO_0004530	GCST002216
17	42.19318	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs228769	EFO_0003923	GCST000495
17	42.20817	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11652763	EFO_0004339	NA
17	42.22555	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs227584	EFO_0003923	GCST001482
17	42.24193	a1c	Chen P	7/11/2013	PLoS One	24244560	rs12602486	EFO_0004541	GCST002270

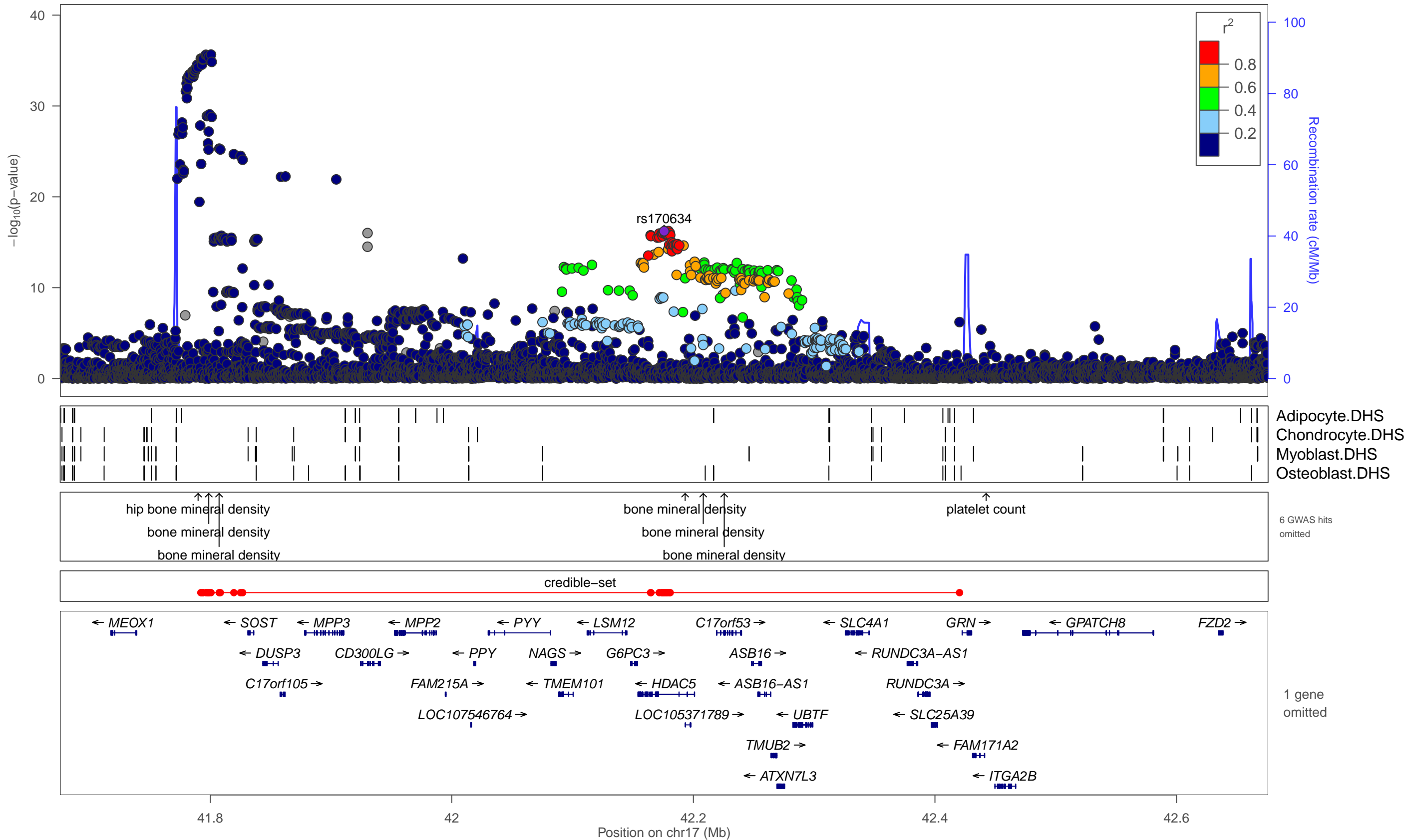
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs111460024	17	41.49128	3.9845	credible-set	red
rs12602349	17	41.79224	2.3979	credible-set	red
rs2342313	17	41.79277	2.3371	credible-set	red
rs12602890	17	41.79326	2.3825	credible-set	red
rs59303349	17	41.79367	2.3087	credible-set	red
rs8072333	17	41.79389	2.2999	credible-set	red
rs8072602	17	41.79403	2.3626	credible-set	red
rs7209826	17	41.79641	2.7267	credible-set	red
rs1828720	17	41.79769	2.3485	credible-set	red
rs188810925	17	41.79819	3.0128	credible-set	red
rs66838809	17	41.79862	2.2316	credible-set	red
rs4792909	17	41.79882	2.1813	credible-set	red
rs4793022	17	41.79886	2.1953	credible-set	red
rs4793023	17	41.80066	2.3832	credible-set	red
rs76410205	17	41.80751	3.0635	credible-set	red
rs80107551	17	41.80837	2.9800	credible-set	red
rs144691710	17	41.81956	2.5608	credible-set	red
rs75013658	17	41.82511	2.4529	credible-set	red
rs2741856	17	41.82684	2.1534	credible-set	red
rs190144	17	42.16458	2.0860	credible-set	red
rs228757	17	42.16488	2.0532	credible-set	red
rs4793076	17	42.17177	2.2841	credible-set	red
rs228746	17	42.17375	2.2270	credible-set	red
rs228748	17	42.17439	2.3058	credible-set	red
rs228749	17	42.17457	2.0061	credible-set	red
rs5820523	17	42.17482	2.3024	credible-set	red
rs170634	17	42.17582	2.4442	credible-set	red
rs615070	17	42.17659	2.2685	credible-set	red
rs850851	17	42.17767	2.1521	credible-set	red
rs12940978	17	42.17812	2.2209	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2523161	17	42.17941	2.4681	credible-set	red
rs609292	17	42.18044	2.2088	credible-set	red
rs1684662	17	42.18082	2.1963	credible-set	red

eBMD SNP INDEX 265



date: Wed Jun 28 21:51:03 2017

build: hg19

display range: chr17:41675821–42675821 [41675821–42675821]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:42175821

number of SNPs plotted: 5174

min P-value: 2.2E–36 [chr17:41800656]

max P-value: 1E0 [chr17:41686183]

omitted Genes: MIR6782

omitted GWAS Hits: chr17:42.193185–bone mineral density, chr17:42.208172–bone mineral density

omitted GWAS Hits: chr17:42.442344–platelet count, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	41.78997	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs7220711	EFO_0007702	GCST003389
17	41.79882	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs4792909	EFO_0003923	GCST001482
17	41.80733	bone mineral density	Styrkarsdottir U	14/12/2008	Nat Genet	19079262	rs1513670	EFO_0003923	GCST000297
17	41.84085	high density lipoprotein cholesterol	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004612	GCST002899
17	41.84085	triglyceride	Surakka I	11/05/2015	Nat Genet	25961943	rs77697917	EFO_0004530	GCST002897
17	41.85862	hip bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007702	GCST003389
17	41.85862	spine bone mineral density	Styrkarsdottir U	6/01/2016	Nat Commun	26733130	rs71382995	EFO_0007701	GCST003388
17	41.87817	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs8077889	EFO_0004530	GCST002216
17	42.19318	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs228769	EFO_0003923	GCST000495
17	42.20817	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs11652763	EFO_0004339	NA
17	42.22555	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs227584	EFO_0003923	GCST001482
17	42.24193	a1c	Chen P	7/11/2013	PLoS One	24244560	rs12602486	EFO_0004541	GCST002270
17	42.44234	platelet count	Gieger C	30/11/2011	Nature	22139419	rs708382	EFO_0004309	GCST001337

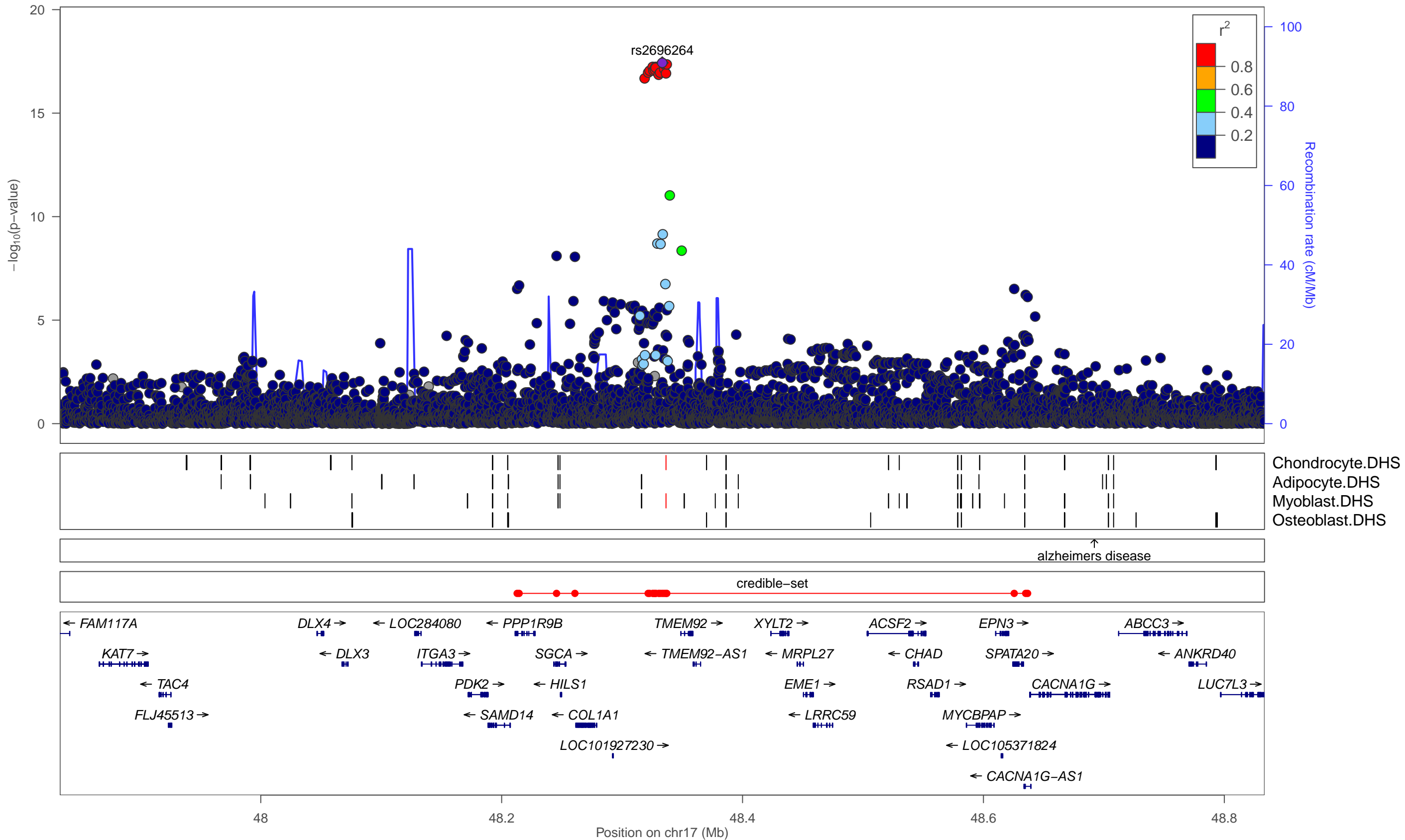
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12602349	17	41.79224	2.3550	credible-set	red
rs2342313	17	41.79277	2.3225	credible-set	red
rs12602890	17	41.79326	2.3623	credible-set	red
rs59303349	17	41.79367	2.2991	credible-set	red
rs8072333	17	41.79389	2.2819	credible-set	red
rs8072602	17	41.79403	2.3367	credible-set	red
rs7209826	17	41.79641	2.7118	credible-set	red
rs1828720	17	41.79769	2.3542	credible-set	red
rs188810925	17	41.79819	3.2021	credible-set	red
rs66838809	17	41.79862	2.3698	credible-set	red
rs4792909	17	41.79882	2.1995	credible-set	red
rs4793022	17	41.79886	2.1986	credible-set	red
rs4793023	17	41.80066	2.4121	credible-set	red
rs76410205	17	41.80751	2.9465	credible-set	red
rs80107551	17	41.80837	2.8544	credible-set	red
rs144691710	17	41.81956	2.4848	credible-set	red
rs75013658	17	41.82511	2.3886	credible-set	red
rs2741856	17	41.82684	2.0663	credible-set	red
rs190144	17	42.16458	2.0979	credible-set	red
rs228757	17	42.16488	2.0672	credible-set	red
rs4793076	17	42.17177	2.3114	credible-set	red
rs228746	17	42.17375	2.2417	credible-set	red
rs228748	17	42.17439	2.3052	credible-set	red
rs228749	17	42.17457	2.0097	credible-set	red
rs5820523	17	42.17482	2.3024	credible-set	red
rs170634	17	42.17582	2.4673	credible-set	red
rs615070	17	42.17659	2.2824	credible-set	red
rs850851	17	42.17767	2.1484	credible-set	red
rs12940978	17	42.17812	2.2183	credible-set	red
rs2523161	17	42.17941	2.4969	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs609292	17	42.18044	2.2399	credible-set	red
rs1684662	17	42.18082	2.1954	credible-set	red
rs74335985	17	42.42035	2.4266	credible-set	red

eBMD SNP INDEX 266



date: Wed Jun 28 21:51:45 2017

build: hg19

display range: chr17:47833349–48833349 [47833349–48833349]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:48333349

number of SNPs plotted: 5992

min P-value: 3.7E-18 [chr17:48333349]

max P-value: 1E0 [chr17:47900880]

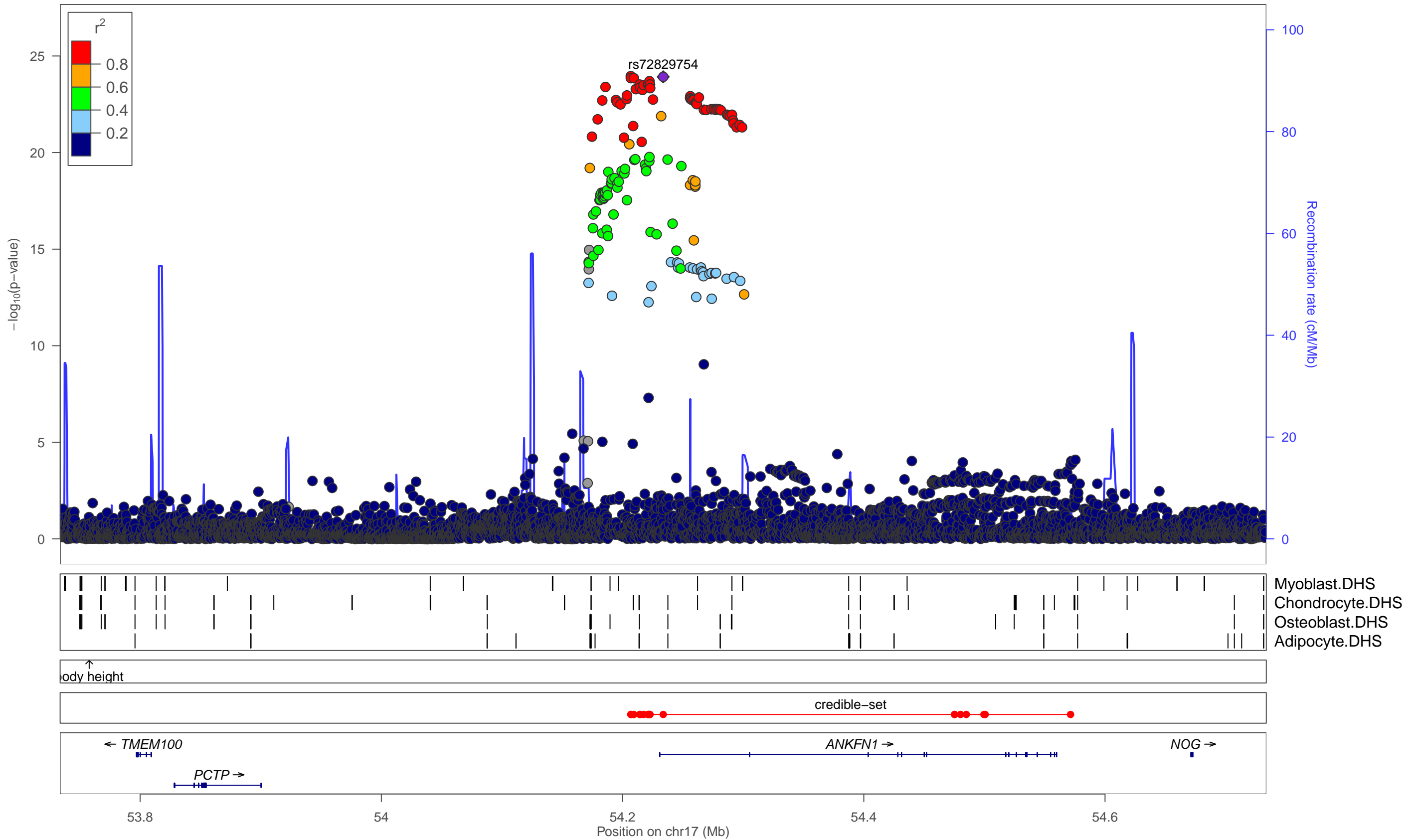
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	48.69208	alzheimers disease	Sherva R	24/03/2013	Alzheimers Dement	23535033	rs117964204	EFO_0000249	GCST001915

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs3744536	17	48.21288	2.9060	credible-set	red
rs78832434	17	48.21449	3.1047	credible-set	red
rs11870423	17	48.24557	2.1472	credible-set	red
rs79409705	17	48.26082	2.0748	credible-set	red
rs76004073	17	48.32162	2.2334	credible-set	red
rs78759579	17	48.32281	2.3272	credible-set	red
rs2696281	17	48.32538	2.5400	credible-set	red
rs2920417	17	48.32601	2.3246	credible-set	red
rs2586468	17	48.32721	2.4581	credible-set	red
rs2586469	17	48.32725	2.3726	credible-set	red
rs2586470	17	48.32778	2.5255	credible-set	red
rs9893817	17	48.32784	2.4820	credible-set	red
rs2440123	17	48.33031	2.1603	credible-set	red
rs2950642	17	48.33155	2.2811	credible-set	red
rs2696264	17	48.33335	2.7914	credible-set	red
rs2049675	17	48.33495	2.4395	credible-set	red
rs2586457	17	48.33645	2.2524	credible-set	red
rs2696263	17	48.33707	2.6992	credible-set	red
rs12943759	17	48.62554	3.1672	credible-set	red
rs34966325	17	48.63508	2.9010	credible-set	red
rs7501581	17	48.63666	2.8942	credible-set	red

eBMD SNP INDEX 267



date: Wed Jun 28 21:52:53 2017

build: hg19

display range: chr17:53733702–54733702 [53733702–54733702]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:54233702

number of SNPs plotted: 5686

min P-value: 1.1E-24 [chr17:54206839]

max P-value: 1E0 [chr17:53739738]

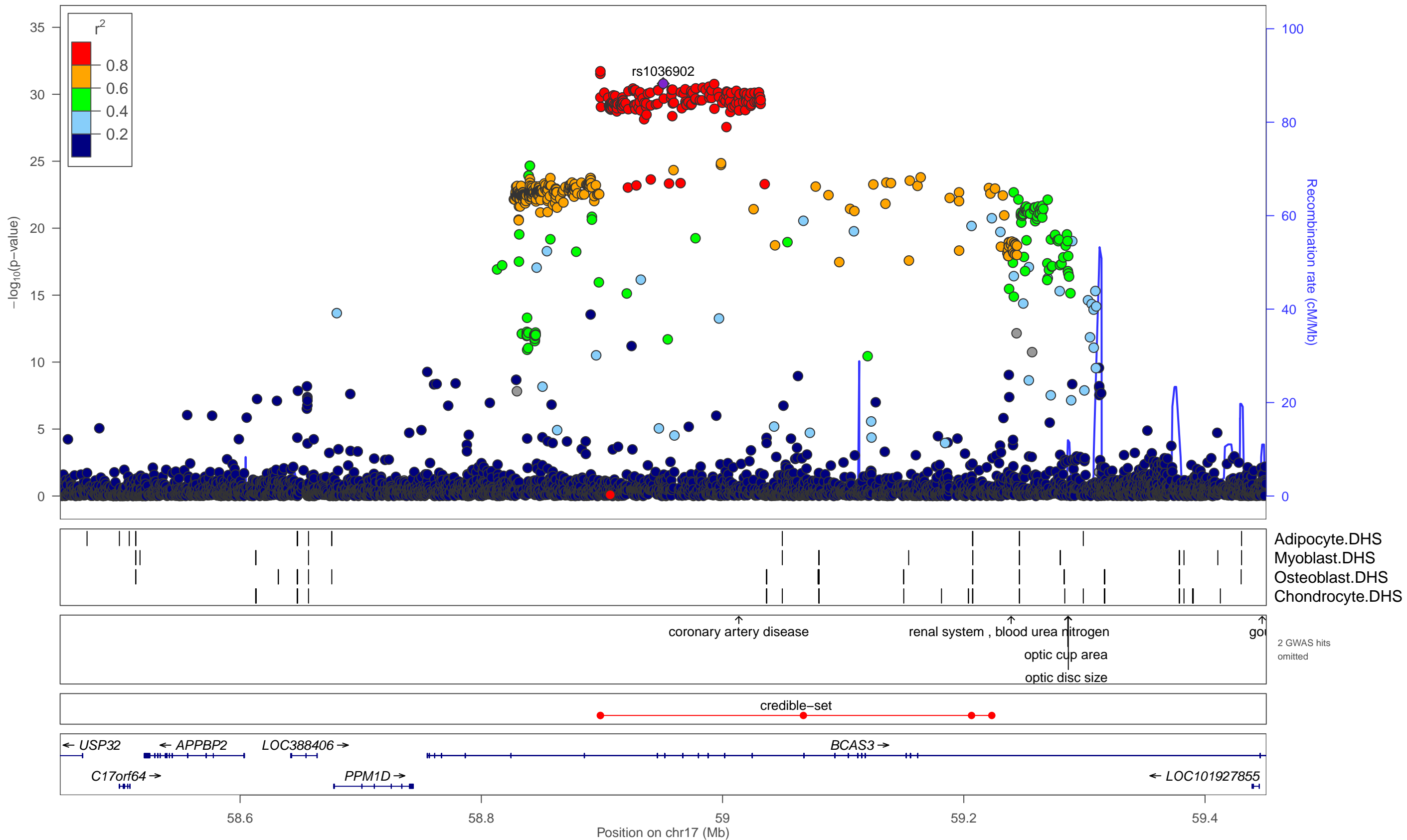
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	53.75779	body height	Carty CL	21/10/2011	Hum Mol Genet	22021425	rs1549519	EFO_0004339	GCST001290

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2332596	17	54.20684	2.4159	credible-set	red
rs11285113	17	54.20685	2.2640	credible-set	red
rs16956711	17	54.20935	2.5578	credible-set	red
rs4548936	17	54.21417	2.2409	credible-set	red
rs887788	17	54.21452	2.0227	credible-set	red
rs9896667	17	54.21749	2.2088	credible-set	red
rs12602730	17	54.22112	2.2578	credible-set	red
rs57302699	17	54.22134	2.2727	credible-set	red
rs28497174	17	54.22151	2.2716	credible-set	red
rs57791149	17	54.22231	2.4034	credible-set	red
rs55723612	17	54.22271	2.2021	credible-set	red
rs55710378	17	54.22271	2.2037	credible-set	red
rs72829754	17	54.23370	2.7733	credible-set	red
rs2192222	17	54.47521	2.0944	credible-set	red
rs2192221	17	54.47527	2.1496	credible-set	red
rs11870564	17	54.48023	2.2279	credible-set	red
rs10515125	17	54.48499	2.1334	credible-set	red
rs6505057	17	54.49958	2.1885	credible-set	red
rs2215760	17	54.50063	2.0400	credible-set	red
rs972872	17	54.57141	2.0952	credible-set	red

eBMD SNP INDEX 268



date: Wed Jun 28 21:51:50 2017

build: hg19

display range: chr17:58450791–59450791 [58450791–59450791]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:58950791

number of SNPs plotted: 4659

min P-value: 1.9E–32 [chr17:58898700]

max P-value: 1E0 [chr17:58497453]

omitted GWAS Hits: chr17:59.447369–gout, NA

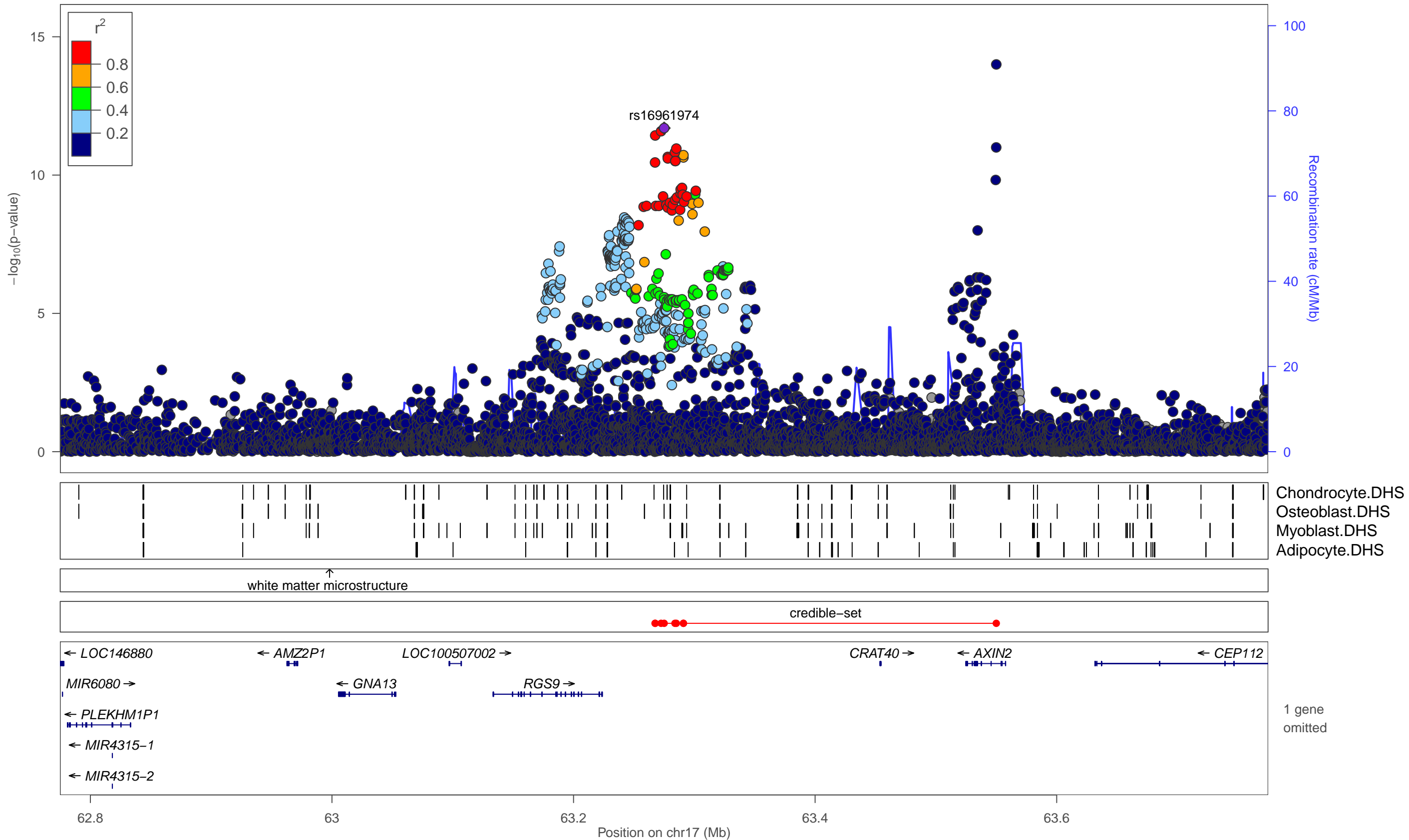
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	59.01349	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs7212798	EFO_0000378	GCST003116
17	59.23922	renal system , blood urea nitrogen	Okada Y	15/07/2012	Nat Genet	22797727	rs11868441	EFO_0004742, EFO_0004741	GCST001610
17	59.28626	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs11651885	EFO_0006940	GCST002762
17	59.28664	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs8068952	EFO_0004832	GCST000700
17	59.29244	alzheimers disease	Sherva R	24/03/2013	Alzheimers Dement	23535033	rs72832584	EFO_0000249	GCST001915
17	59.44737	gout	Li C	13/05/2015	Nat Commun	25967671	rs11653176	EFO_0004274	GCST002909
17	59.45011	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs11657044	EFO_0005208, EFO_0004518	GCST003372

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
17:58898698_CATA_C	17	58.89870	2.7779	credible-set	red
17:58898700_TACA_T	17	58.89870	3.0262	credible-set	red
rs111287200	17	59.06701	2.2780	credible-set	red
rs111581093	17	59.20641	2.1560	credible-set	red
rs138852655	17	59.22321	2.4424	credible-set	red

eBMD SNP INDEX 269



date: Wed Jun 28 21:52:56 2017

build: hg19

display range: chr17:62775018–63775018 [62775018–63775018]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:63275018

number of SNPs plotted: 5799

min P-value: 1E-14 [chr17:63549979]

max P-value: 1E0 [chr17:62799111]

omitted Genes: LRRC37A3

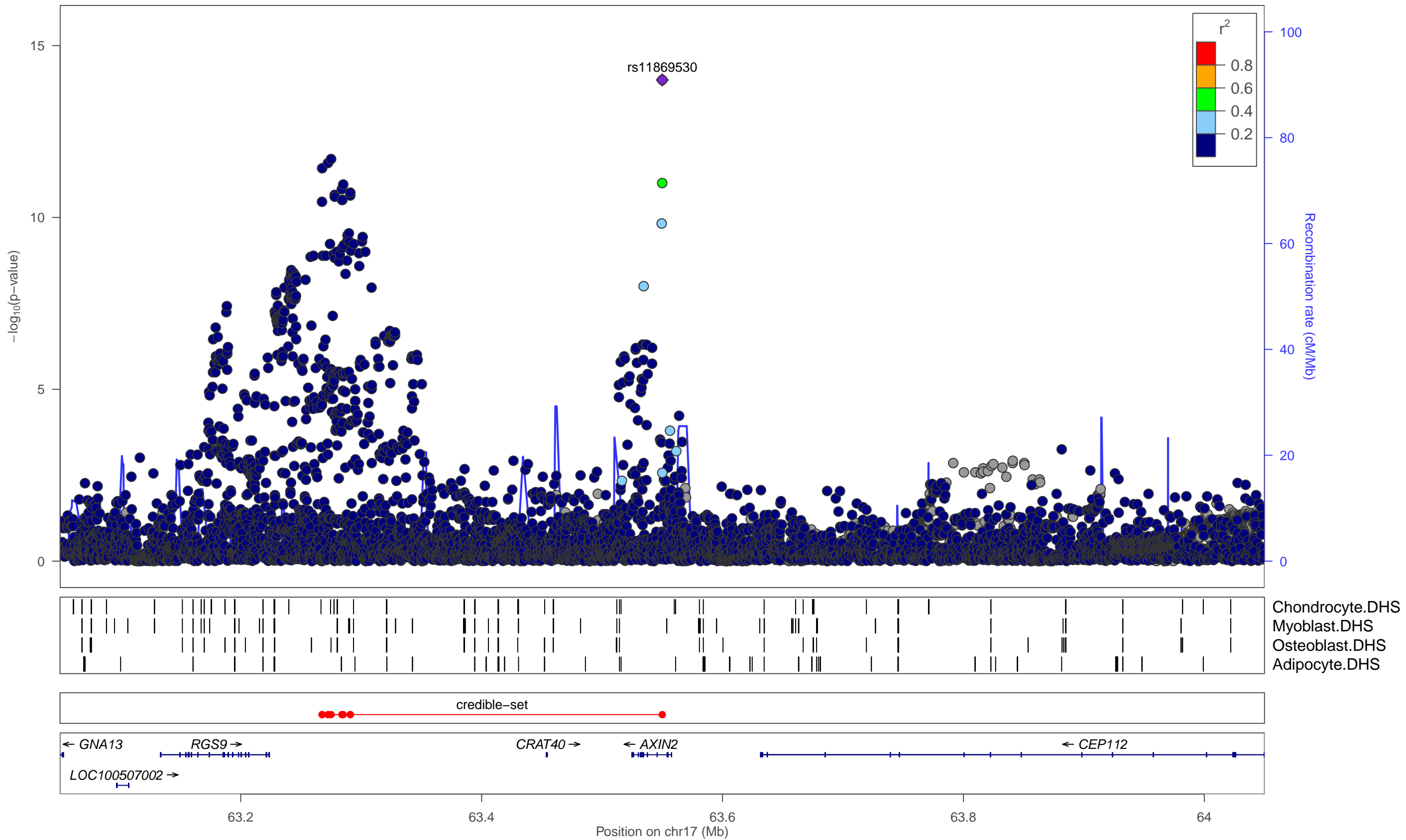
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	62.99802	white matter microstructure	Sprooten E	13/04/2014	Neuroimage	24736177	rs10853057	EFO_0005674	GCST002409

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35247588	17	63.26748	2.1825	credible-set	red
rs16961965	17	63.26762	2.8065	credible-set	red
rs4791207	17	63.27245	2.9761	credible-set	red
rs16961974	17	63.27502	3.1106	credible-set	red
rs2869822	17	63.28395	2.0599	credible-set	red
rs7224599	17	63.28509	2.1884	credible-set	red
rs72853511	17	63.29096	2.2672	credible-set	red
rs72853513	17	63.29098	2.3487	credible-set	red
rs11869530	17	63.54998	6.9677	credible-set	red

eBMD SNP INDEX 270



date: Wed Jun 28 21:51:59 2017

build: hg19

display range: chr17:63049979–64049979 [63049979–64049979]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:63549979

number of SNPs plotted: 6867

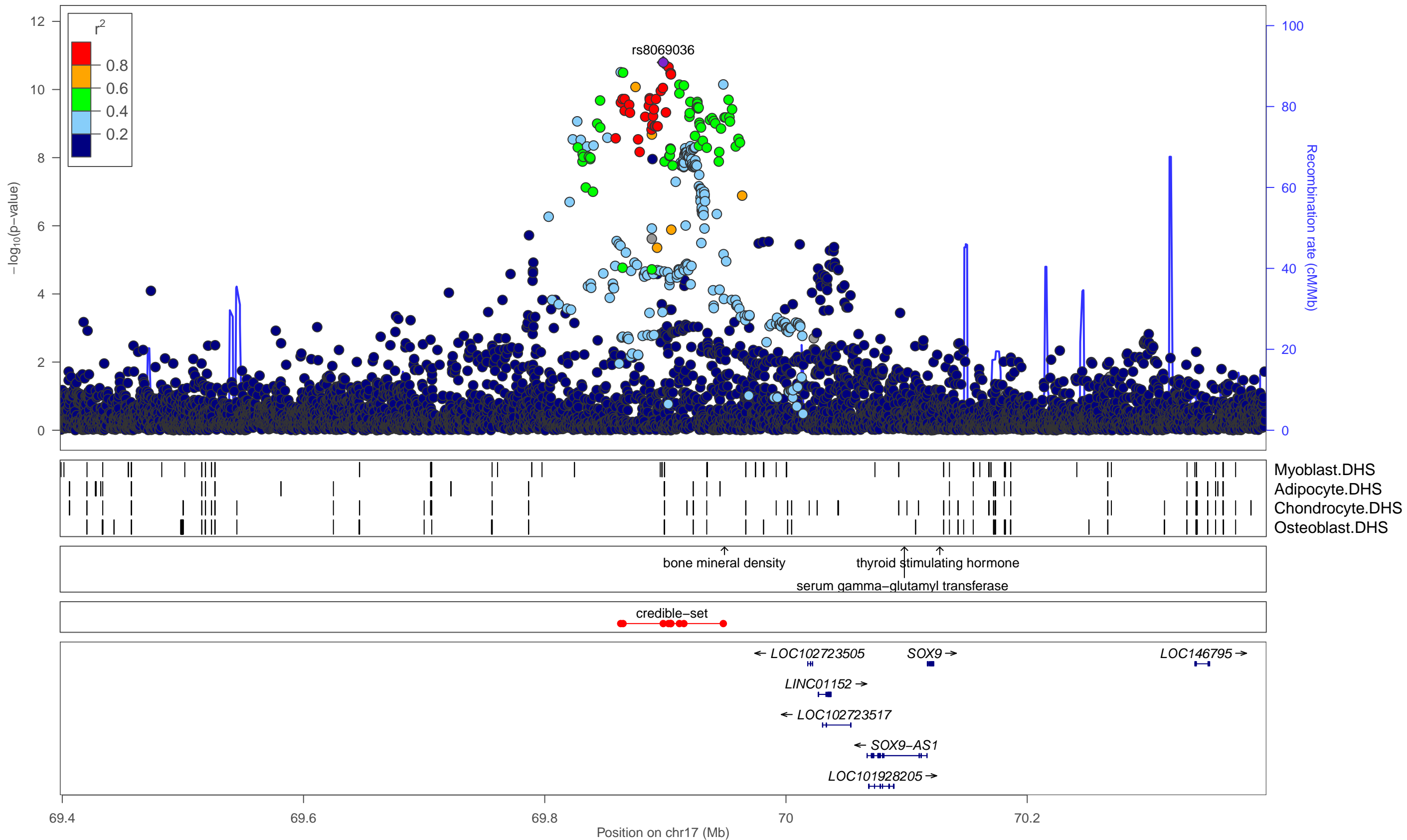
min P-value: 1E-14 [chr17:63549979]

max P-value: 1E0 [chr17:63115694]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs35247588	17	63.26748	2.2160	credible-set	red
rs16961965	17	63.26762	2.8421	credible-set	red
rs4791207	17	63.27245	3.0116	credible-set	red
rs16961974	17	63.27502	3.1461	credible-set	red
rs2869822	17	63.28395	2.0933	credible-set	red
rs7224599	17	63.28509	2.2210	credible-set	red
rs72853511	17	63.29096	2.3042	credible-set	red
rs72853513	17	63.29098	2.3858	credible-set	red
rs11869530	17	63.54998	6.9957	credible-set	red

eBMD SNP INDEX 271



date: Wed Jun 28 21:53:08 2017

build: hg19

display range: chr17:69398215–70398215 [69398215–70398215]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:69898215

number of SNPs plotted: 6242

min P-value: 1.6E-11 [chr17:69898215]

max P-value: 1E0 [chr17:69492370]

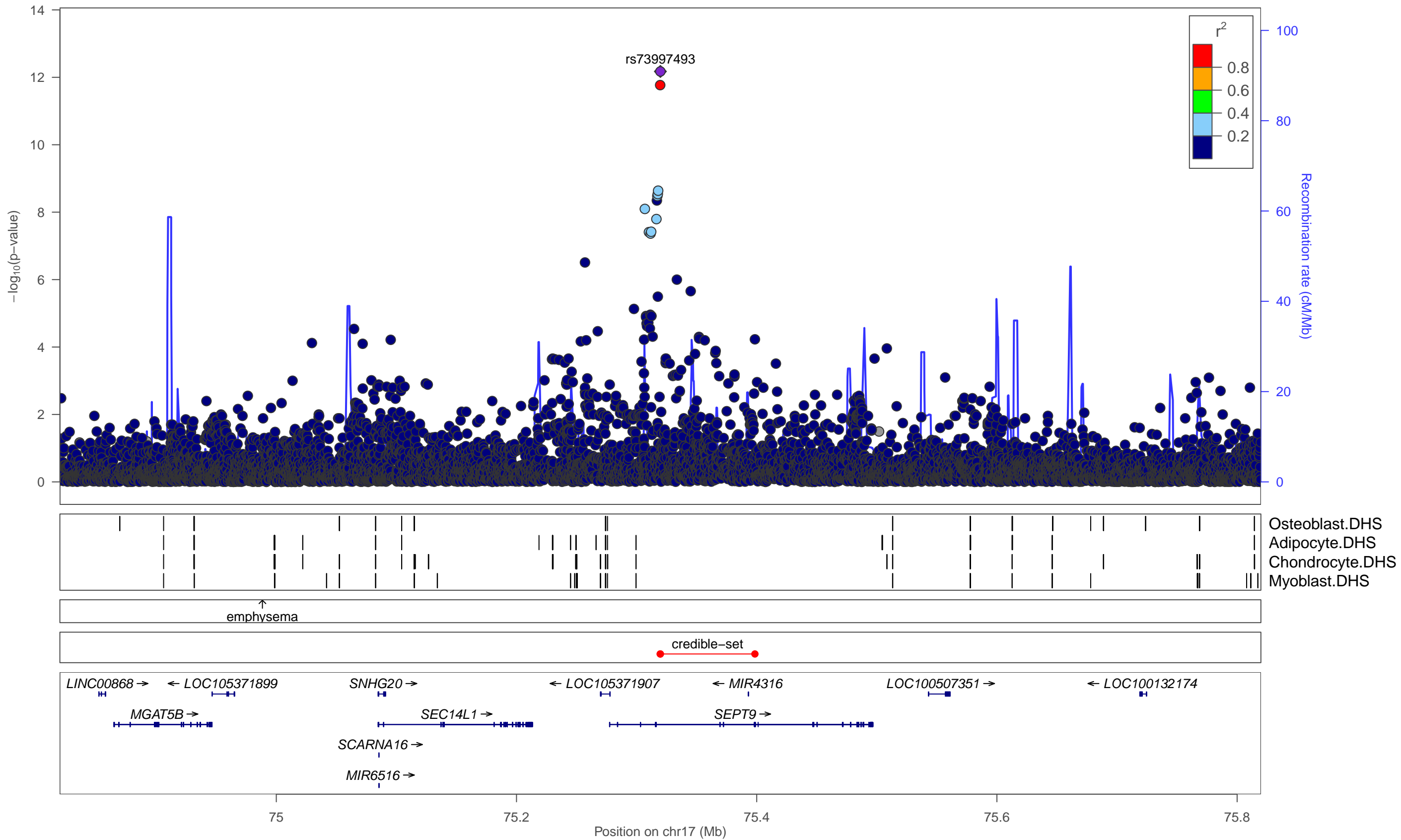
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	69.94902	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs7217932	EFO_0003923	GCST001482
17	70.09816	serum gamma–glutamyl transferase	Chambers JC	16/10/2011	Nat Genet	22001757	rs9913711	EFO_0004532	GCST001277
17	70.12754	thyroid stimulating hormone	Porcu E	7/02/2013	PLoS Genet	23408906	rs9915657	EFO_0004748	GCST001856

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12942736	17	69.86298	2.8017	credible-set	red
rs34133242	17	69.86491	2.3823	credible-set	red
rs8069036	17	69.89821	2.7530	credible-set	red
rs536097010	17	69.90262	2.5462	credible-set	red
rs9912424	17	69.90435	2.4078	credible-set	red
rs9891777	17	69.90444	2.4045	credible-set	red
rs9913774	17	69.90462	2.3652	credible-set	red
rs12602507	17	69.91162	2.0277	credible-set	red
rs9891640	17	69.91535	2.0070	credible-set	red
rs55888531	17	69.94804	2.0155	credible-set	red

eBMD SNP INDEX 272



date: Wed Jun 28 21:53:12 2017

build: hg19

display range: chr17:74819800–75819800 [74819800–75819800]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:75319800

number of SNPs plotted: 8212

min P-value: 6.7E-13 [chr17:75319800]

max P-value: 1E0 [chr17:74876210]

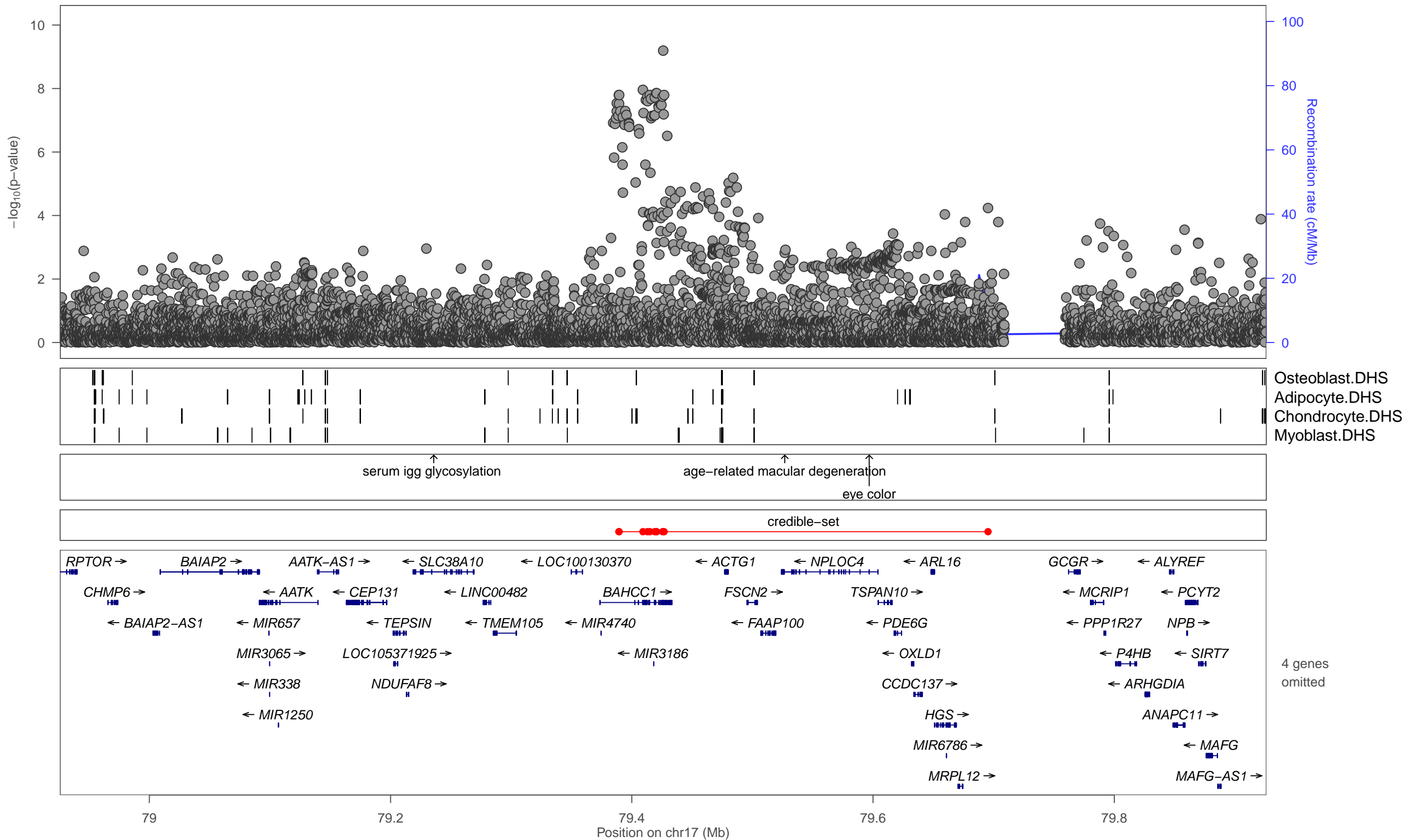
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	74.98844	emphysema	Manichaikul A	2/01/2014	Am J Respir Crit Care Med	24383474	rs7221059	EFO_0000464	GCST002326

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs74709405	17	75.31964	3.3136	credible-set	red
rs73997493	17	75.31980	4.1041	credible-set	red
rs34587622	17	75.39850	2.6118	credible-set	red

eBMD SNP INDEX 273



date: Wed Jun 28 21:53:12 2017

build: hg19

display range: chr17:78926022–79926022 [78926022–79926022]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr17:79426022

number of SNPs plotted: 8327

min P-value: 6.4E-10 [chr17:79426021]

max P-value: 1E0 [chr17:78960389]

omitted Genes: SLC25A10, PYCR1, MYADML2

omitted Genes: NOTUM

Warning: No usable LD information for reference SNP.

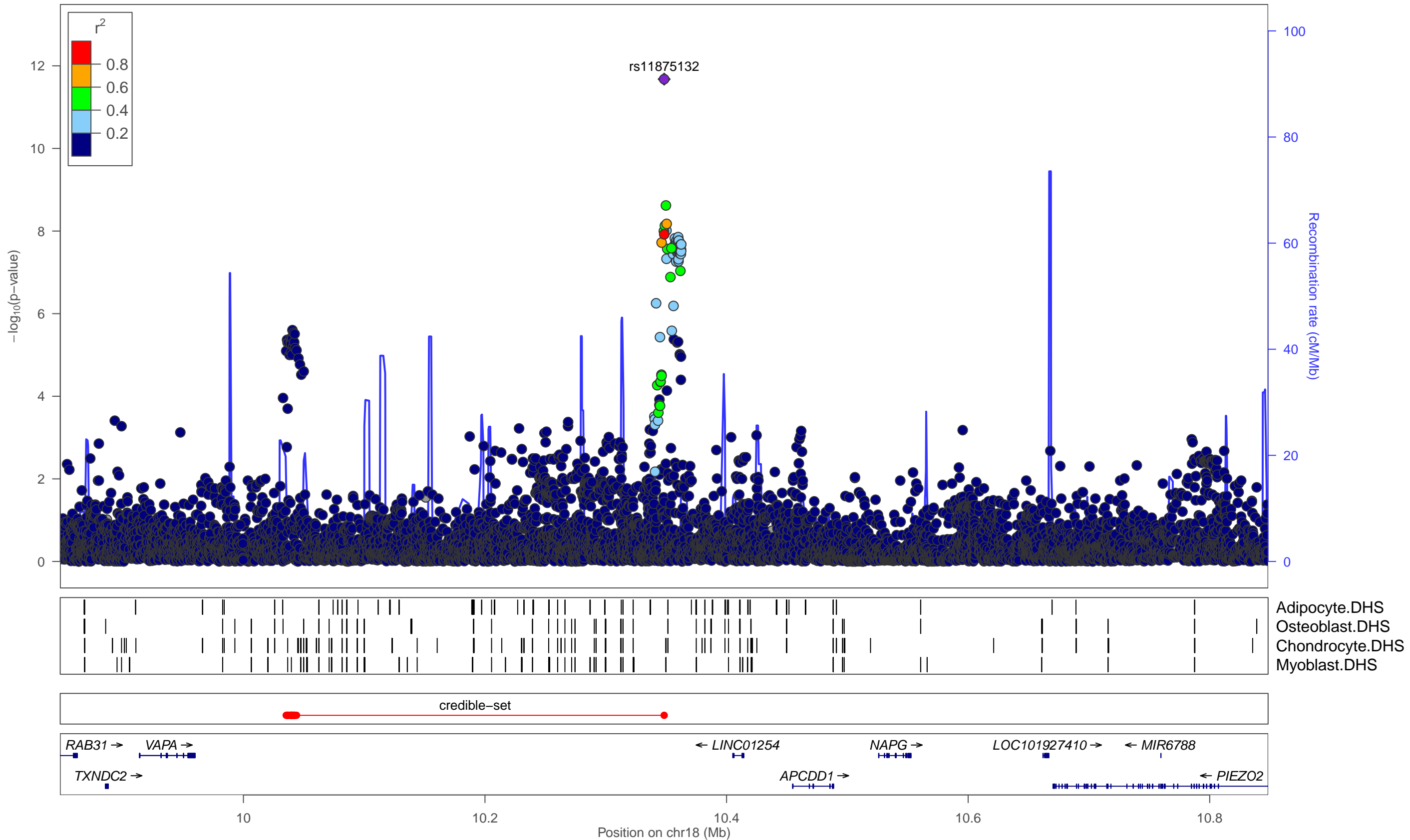
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
17	79.23579	serum igg glycosylation	Lauc G	31/01/2013	PLoS Genet	23382691	rs7224668	EFO_0005193	GCST001848
17	79.52682	age-related macular degeneration	Fritsche LG	21/12/2015	Nat Genet	26691988	rs6565597	EFO_0001365	GCST003219
17	79.59681	eye color	Liu F	16/05/2010	PLoS Genet	20463881	rs9894429	EFO_0003949	GCST000685

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9897258	17	79.38925	2.1488	credible-set	red
rs11870740	17	79.38949	2.1549	credible-set	red
rs12952981	17	79.40919	2.2499	credible-set	red
rs28507130	17	79.41289	2.0472	credible-set	red
rs11650750	17	79.41490	2.0985	credible-set	red
rs35572189	17	79.41903	2.0242	credible-set	red
rs12150031	17	79.42022	2.1804	credible-set	red
rs34940977	17	79.42062	2.1683	credible-set	red
rs148767323	17	79.42556	2.0725	credible-set	red
rs34202212	17	79.42602	3.7754	credible-set	red
rs11652589	17	79.42676	2.1099	credible-set	red
rs562159416	17	79.69531	2.0142	credible-set	red

eBMD SNP INDEX 274



date: Wed Jun 28 21:52:17 2017

build: hg19

display range: chr18:9848334–10848334 [9848334–10848334]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:10348334

number of SNPs plotted: 7716

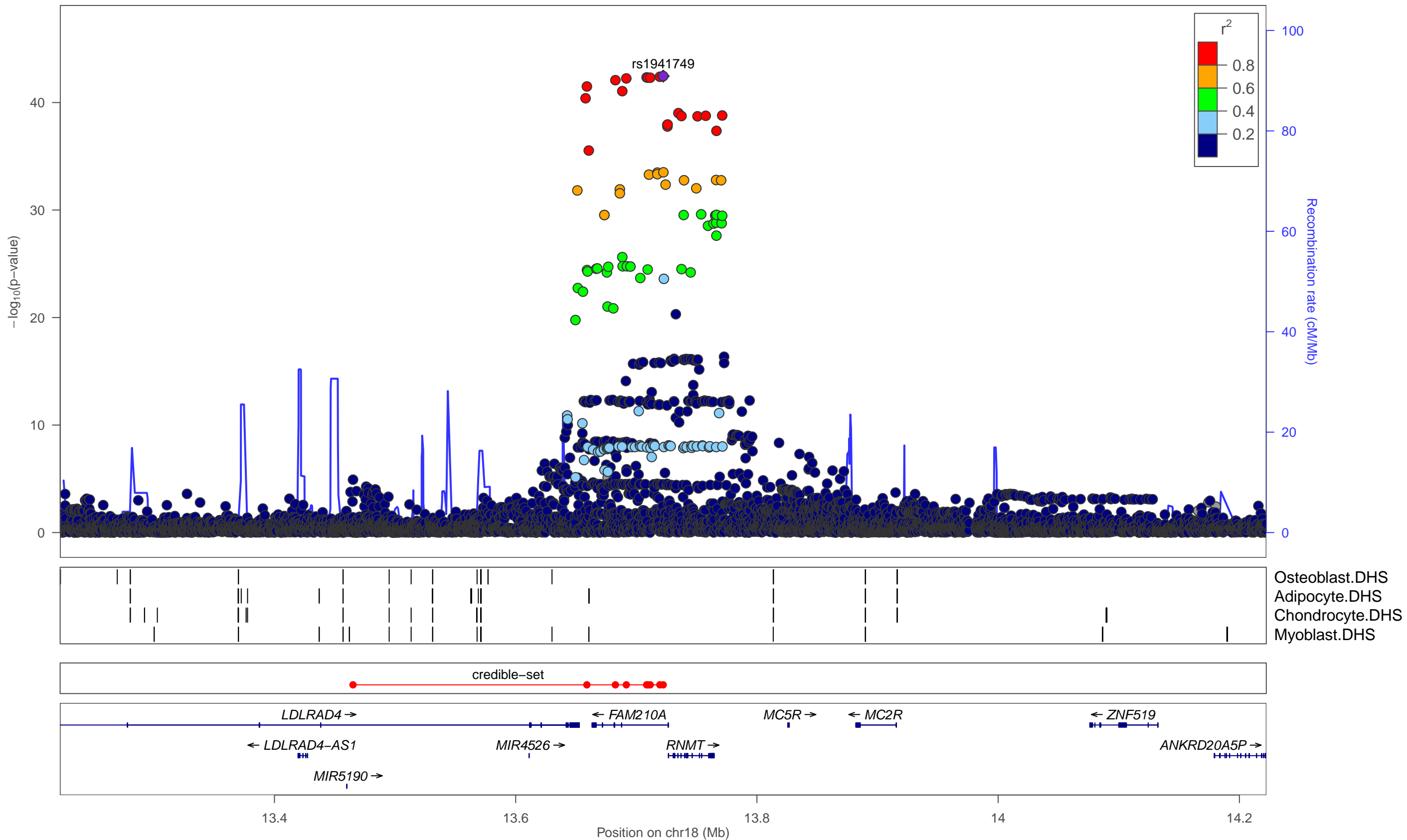
min P-value: 2.1E-12 [chr18:10348334]

max P-value: 1E0 [chr18:10004054]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9945119	18	10.03544	2.0697	credible-set	red
rs625395	18	10.03614	2.3370	credible-set	red
rs613223	18	10.03655	2.2859	credible-set	red
rs518096	18	10.03721	2.2732	credible-set	red
rs517854	18	10.03729	2.2916	credible-set	red
rs569812	18	10.03903	2.3977	credible-set	red
rs568855	18	10.03913	2.2917	credible-set	red
rs67716474	18	10.03926	2.3000	credible-set	red
rs1292308	18	10.03933	2.0536	credible-set	red
rs565991	18	10.03945	2.2509	credible-set	red
rs535823	18	10.04045	2.3910	credible-set	red
rs201761842	18	10.04057	2.5906	credible-set	red
rs541164	18	10.04135	2.5211	credible-set	red
rs541853	18	10.04137	2.1900	credible-set	red
rs644778	18	10.04202	2.2897	credible-set	red
rs572197	18	10.04240	2.4886	credible-set	red
rs631448	18	10.04274	2.1482	credible-set	red
rs106763	18	10.04396	2.0913	credible-set	red
rs11875132	18	10.34833	5.9474	credible-set	red

eBMD SNP INDEX 275



date: Wed Jun 28 21:53:10 2017

build: hg19

display range: chr18:13222308–14222308 [13222308–14222308]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:13722308

number of SNPs plotted: 6554

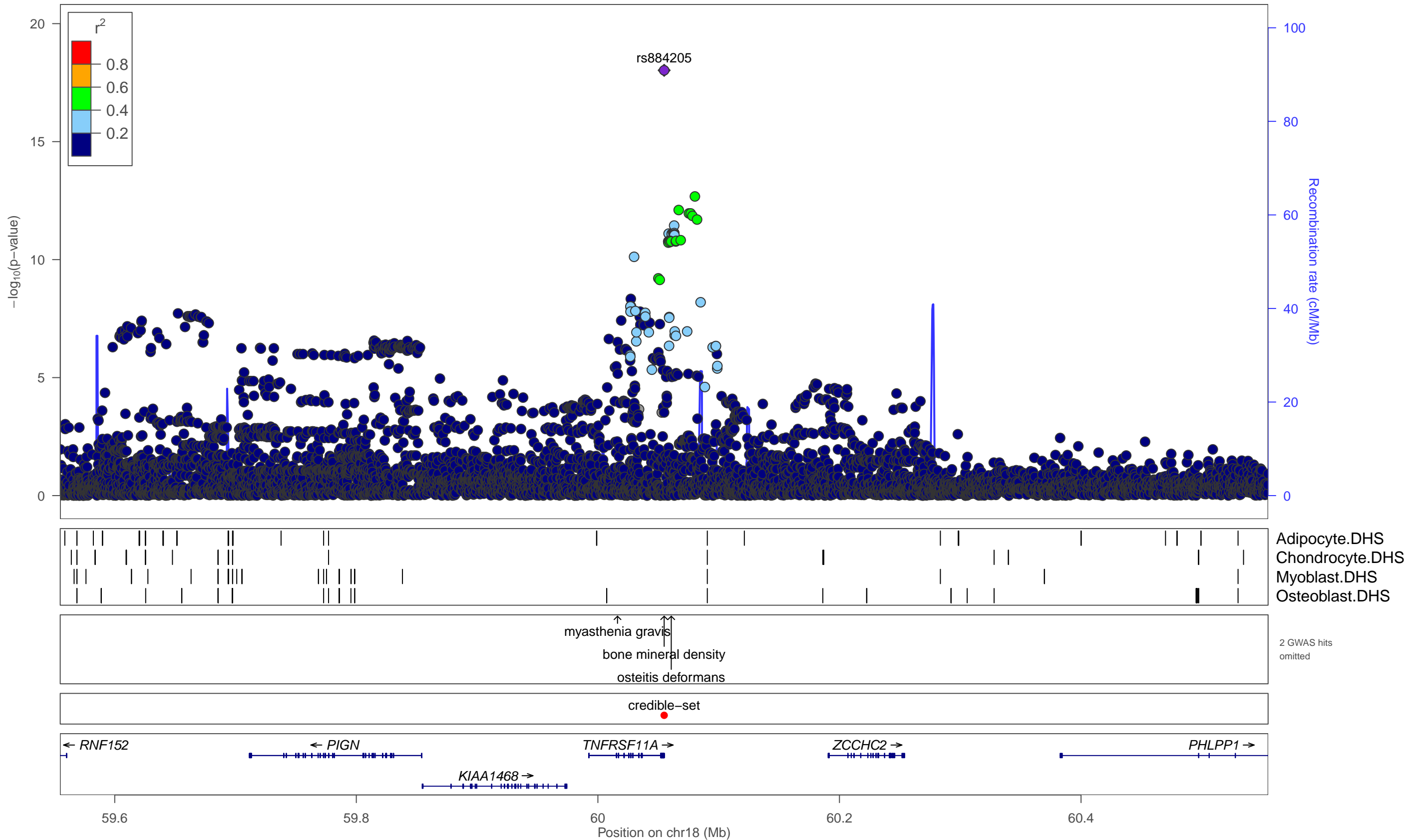
min P-value: 3.5E-43 [chr18:13722308]

max P-value: 1E0 [chr18:13263824]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs61706632	18	13.46513	2.6402	credible-set	red
rs2040189	18	13.65902	2.0544	credible-set	red
rs4430817	18	13.68267	2.5550	credible-set	red
rs180690452	18	13.69171	2.7342	credible-set	red
rs4796995	18	13.70857	2.8358	credible-set	red
rs10221370	18	13.70958	2.8078	credible-set	red
rs4797804	18	13.71152	2.8079	credible-set	red
rs4635400	18	13.71951	2.9089	credible-set	red
rs1941749	18	13.72231	2.9754	credible-set	red

eBMD SNP INDEX 276



date: Wed Jun 28 21:53:25 2017

build: hg19

display range: chr18:59554857–60554857 [59554857–60554857]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:60054857

number of SNPs plotted: 6175

min P-value: 9.5E-19 [chr18:60054857]

max P-value: 1E0 [chr18:59570651]

omitted GWAS Hits: NA, NA

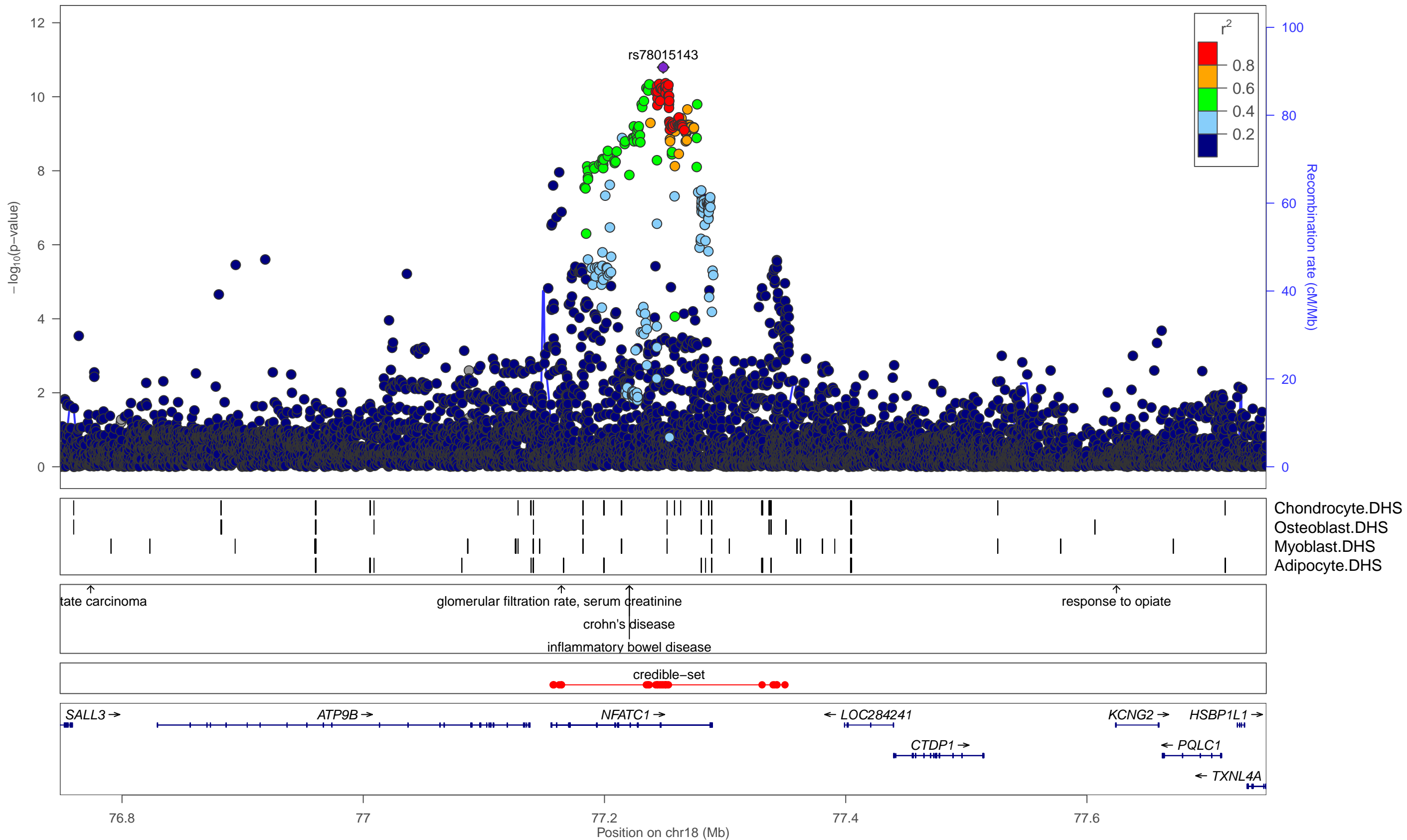
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
18	60.01623	myasthenia gravis	Renton AE	1/04/2015	JAMA Neurol	25643325	rs4263037	EFO_0004991	GCST002838
18	60.05486	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs884205	EFO_0003923	GCST001482
18	60.05486	bone mineral density	Kemp JP	19/06/2014	PLoS Genet	24945404	rs884205	EFO_0003923	GCST002493
18	60.05486	bone mineral density	Rivadeneira F	4/10/2009	Nat Genet	19801982	rs884205	EFO_0003923	GCST000494
18	60.05486	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs884205	EFO_0004339	NA
18	60.06074	osteitis deformans	Albagha OM	2/05/2010	Nat Genet	20436471	rs2957128	EFO_0004261	GCST000672
18	60.08209	osteitis deformans	Albagha OM	2/05/2010	Nat Genet	20436471	rs3018362	EFO_0004261	GCST000672
18	60.08209	osteitis deformans	Albagha OM	29/05/2011	Nat Genet	21623375	rs3018362	EFO_0004261	GCST001086
18	60.12611	serum albumin	Franceschini N	26/09/2012	Am J Hum Genet	23022100	rs694419	EFO_0004535	GCST001699

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs884205	18	60.05486	7.8307	credible-set	red

eBMD SNP INDEX 277



date: Wed Jun 28 21:53:29 2017

build: hg19

display range: chr18:76748691–77748691 [76748691–77748691]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr18:77248691

number of SNPs plotted: 8073

min P-value: 1.6E-11 [chr18:77248691]

max P-value: 1E0 [chr18:76760106]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
18	76.77397	prostate carcinoma	Eeles RA	1/04/2013	Nat Genet	23535732	rs7241993	EFO_0001663	GCST001942
18	77.16424	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs8091180	EFO_0005208, EFO_0004518	GCST003401
18	77.22062	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs7236492	EFO_0000384	GCST003044
18	77.22062	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs7236492	EFO_0003767	GCST003043
18	77.62448	response to opiate	Gelernter J	19/10/2013	Biol Psychiatry	24143882	rs62103177	GO_0014072	GCST002235

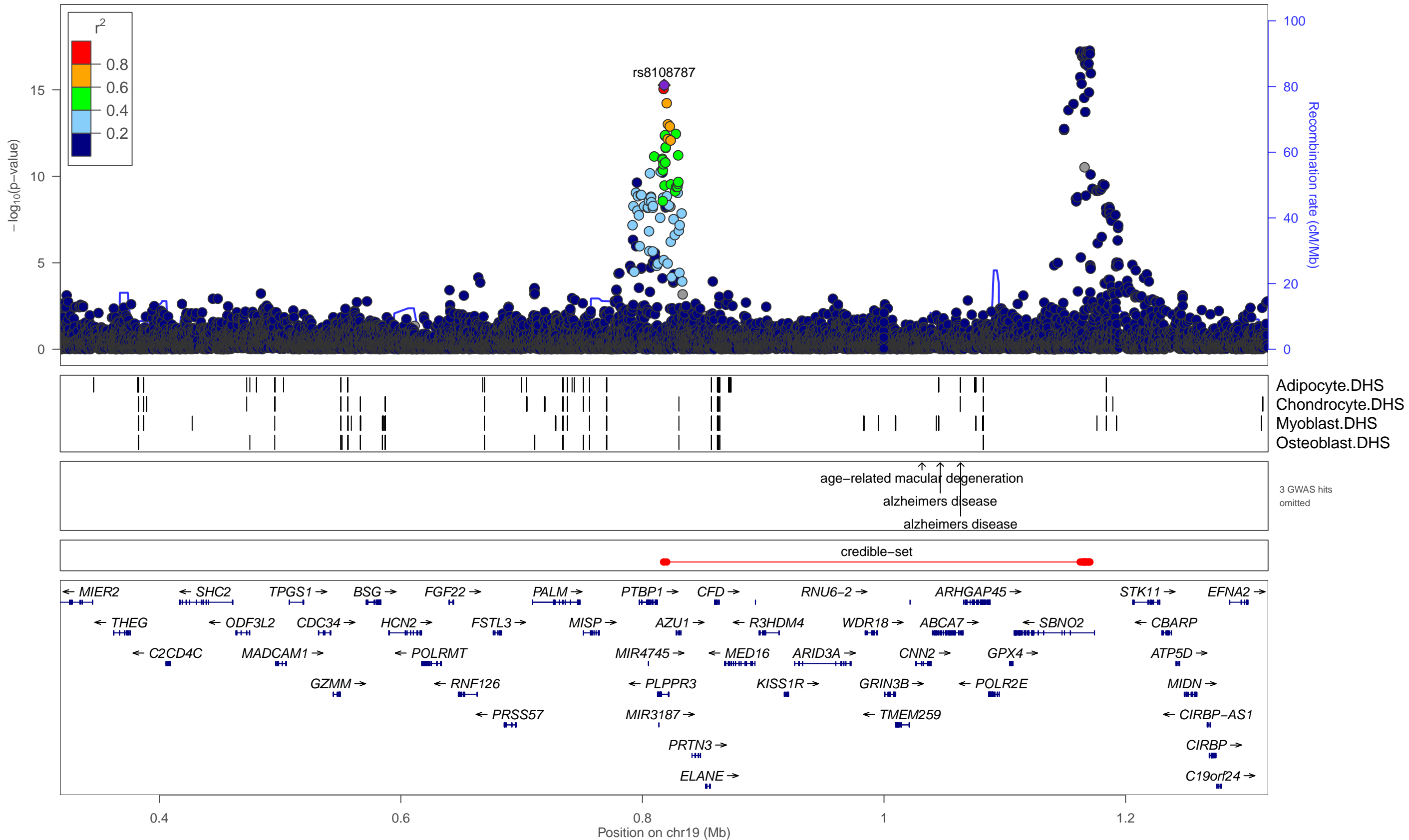
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11276781	18	77.15743	3.4418	credible-set	red
rs562952	18	77.15780	2.0520	credible-set	red
rs4799053	18	77.15802	2.6226	credible-set	red
rs657693	18	77.16246	3.3348	credible-set	red
rs8091180	18	77.16424	2.2432	credible-set	red
rs8091347	18	77.16438	2.5520	credible-set	red
rs145041024	18	77.23471	2.1018	credible-set	red
rs76694706	18	77.23601	2.0574	credible-set	red
rs112187368	18	77.23626	2.0028	credible-set	red
rs79617804	18	77.23714	2.1855	credible-set	red
rs113118218	18	77.24250	2.2053	credible-set	red
rs9748849	18	77.24362	2.3402	credible-set	red
rs142456823	18	77.24393	2.0109	credible-set	red
rs9748916	18	77.24395	2.1775	credible-set	red
rs80040510	18	77.24549	2.3934	credible-set	red
rs7233684	18	77.24644	2.2396	credible-set	red
rs112470200	18	77.24720	2.2517	credible-set	red
rs79702884	18	77.24829	2.2059	credible-set	red
rs78015143	18	77.24869	2.7419	credible-set	red
rs112411064	18	77.25020	2.2506	credible-set	red
rs111626441	18	77.25067	2.3859	credible-set	red
rs111858849	18	77.25068	2.1249	credible-set	red
rs9962906	18	77.25069	2.3009	credible-set	red
rs79447992	18	77.25092	2.2880	credible-set	red
rs11661220	18	77.25249	2.2303	credible-set	red
rs73498310	18	77.25304	2.2728	credible-set	red
rs626077	18	77.33065	2.0791	credible-set	red
rs3063537	18	77.33979	2.1809	credible-set	red
rs616830	18	77.34094	2.3434	credible-set	red
rs484227	18	77.34286	2.6031	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs663207	18	77.34301	2.5730	credible-set	red
rs3848474	18	77.34964	2.4041	credible-set	red

eBMD SNP INDEX 278



date: Wed Jun 28 21:53:06 2017

build: hg19

display range: chr19:317980–1317980 [317980–1317980]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:817980

number of SNPs plotted: 10238

min P-value: 5.4E-18 [chr19:1170297]

max P-value: 1E0 [chr19:1010908]

omitted GWAS Hits: NA, NA

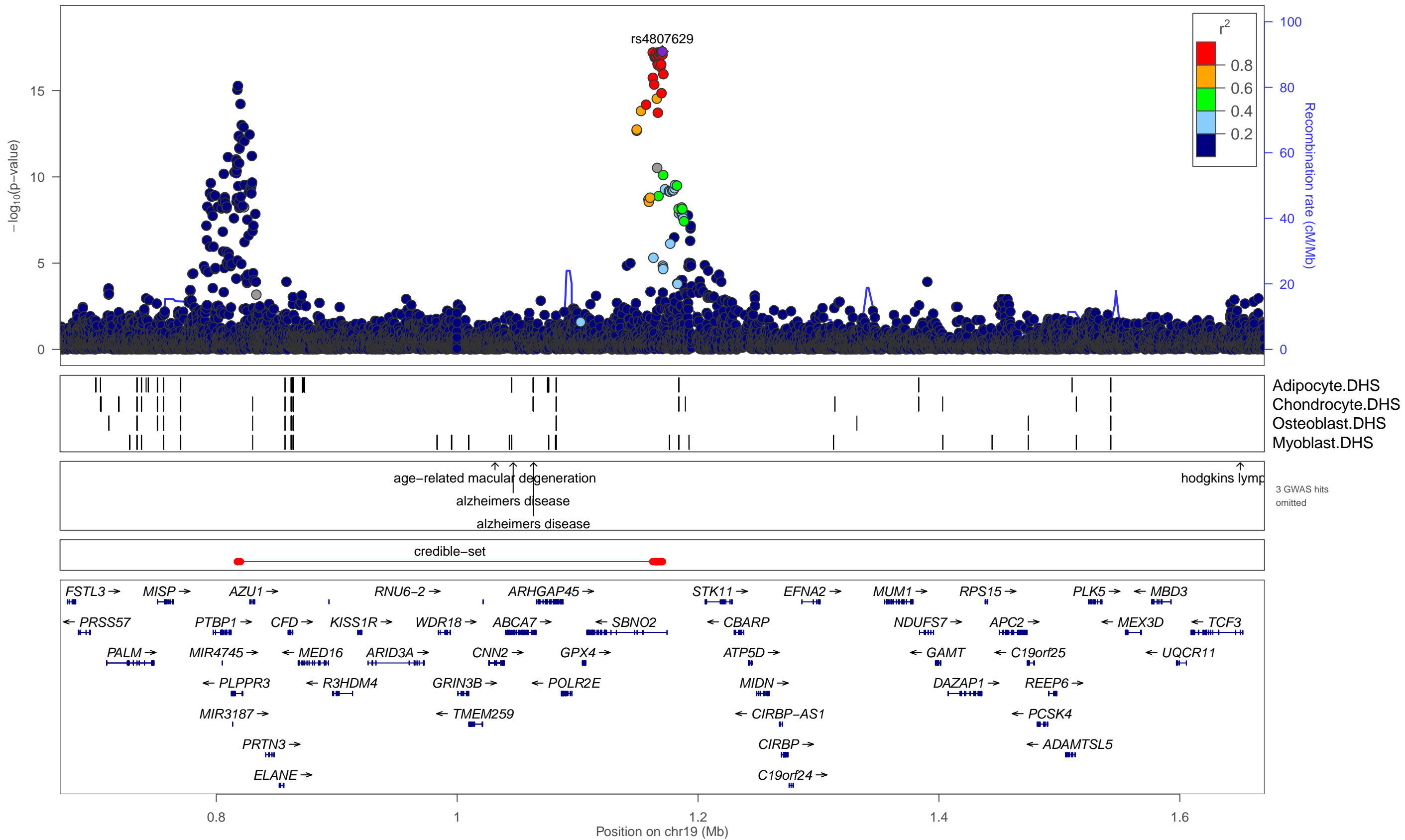
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	1.031438	age-related macular degeneration	Fritsche LG	21/12/2015	Nat Genet	26691988	rs67538026	EFO_0001365	GCST003219
19	1.046520	alzheimers disease	Hollingworth P	3/04/2011	Nat Genet	21460840	rs3764650	EFO_0000249	GCST001025
19	1.063443	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs4147929	EFO_0000249	GCST002245
19	1.124031	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs2024092	EFO_0000384	GCST001729
19	1.124031	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2024092	EFO_0000384	GCST003044
19	1.124031	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2024092	EFO_0003767	GCST003043
19	1.124835	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs740495	EFO_0000384	GCST000879

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7259955	19	0.817522	3.5447	credible-set	red
rs8108787	19	0.817980	3.9852	credible-set	red
rs351103	19	0.820095	2.3455	credible-set	red
rs11084888	19	1.162376	2.7592	credible-set	red
rs10853952	19	1.163934	2.4973	credible-set	red
rs35971149	19	1.164197	2.4444	credible-set	red
rs7507563	19	1.165030	2.5817	credible-set	red
rs919814	19	1.165172	2.3885	credible-set	red
rs4807623	19	1.165264	2.5141	credible-set	red
rs35405743	19	1.165552	2.7938	credible-set	red
rs12462901	19	1.166410	2.0817	credible-set	red
rs12459067	19	1.166749	2.0030	credible-set	red
rs57813069	19	1.167157	2.5565	credible-set	red
rs35921363	19	1.167343	2.6571	credible-set	red
rs12461269	19	1.167922	2.8032	credible-set	red
rs11671793	19	1.169022	2.7796	credible-set	red
rs11668064	19	1.169066	2.7828	credible-set	red
rs881549	19	1.169384	2.0197	credible-set	red
rs4807629	19	1.170297	2.8141	credible-set	red
rs4807630	19	1.170445	2.5794	credible-set	red

eBMD SNP INDEX 279



date: Wed Jun 28 21:53:11 2017

build: hg19

display range: chr19:670297–1670297 [670297–1670297]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:1170297

number of SNPs plotted: 8765

min P-value: 5.4E–18 [chr19:1170297]

max P-value: 1E0 [chr19:1010908]

omitted GWAS Hits: chr19:1.650134–hodgkins lymphoma, NA

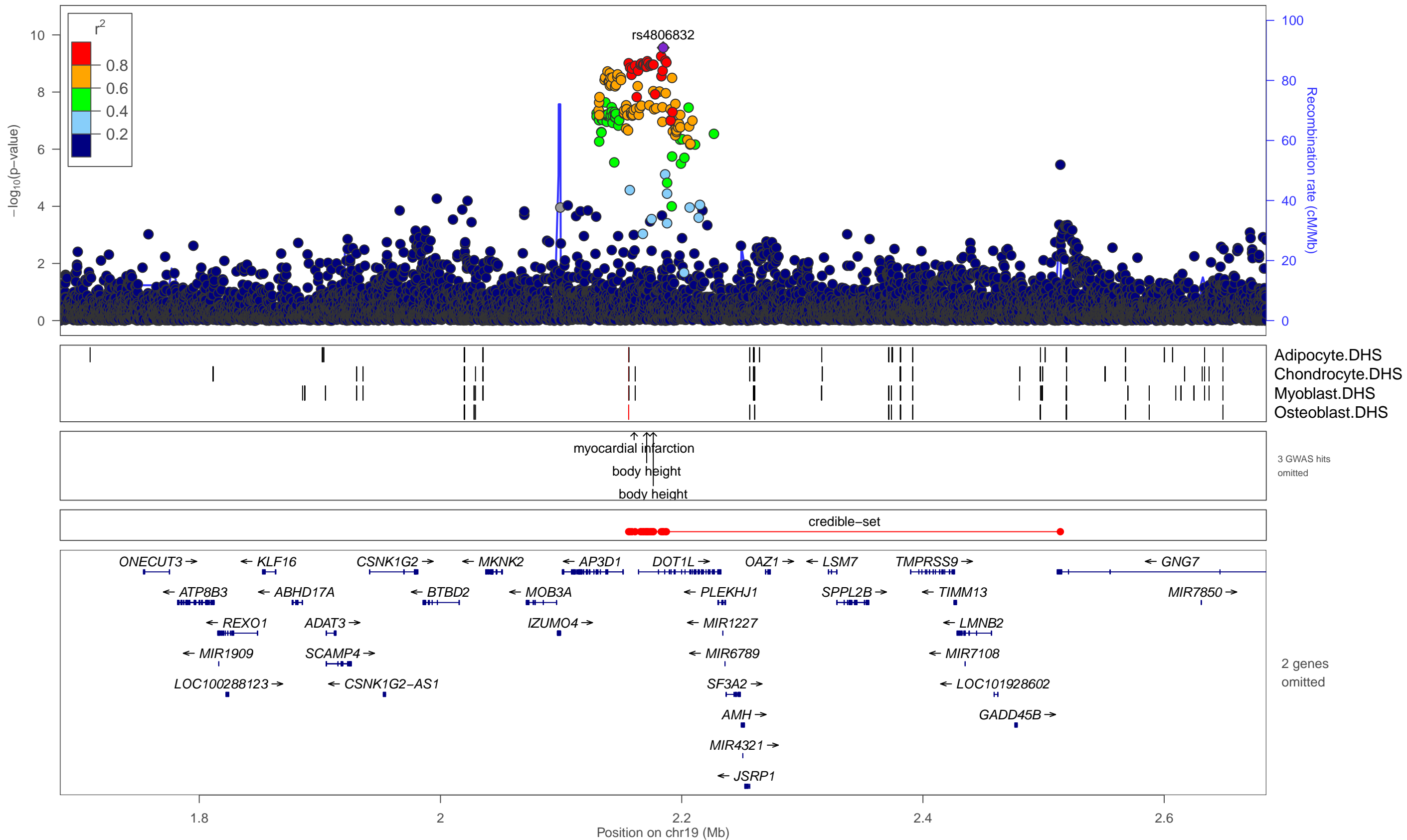
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	1.031438	age-related macular degeneration	Fritsche LG	21/12/2015	Nat Genet	26691988	rs67538026	EFO_0001365	GCST003219
19	1.046520	alzheimers disease	Hollingworth P	3/04/2011	Nat Genet	21460840	rs3764650	EFO_0000249	GCST001025
19	1.063443	alzheimers disease	EADI	27/10/2013	Nat Genet	24162737	rs4147929	EFO_0000249	GCST002245
19	1.124031	crohn's disease	Jostins L	1/11/2012	Nature	23128233	rs2024092	EFO_0000384	GCST001729
19	1.124031	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2024092	EFO_0000384	GCST003044
19	1.124031	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2024092	EFO_0003767	GCST003043
19	1.124835	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs740495	EFO_0000384	GCST000879
19	1.650134	hodgkins lymphoma	Cozen W	12/06/2014	Nat Commun	24920014	rs1860661	EFO_0000183	GCST002480

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7259955	19	0.817522	3.4773	credible-set	red
rs8108787	19	0.817980	3.9167	credible-set	red
rs351103	19	0.820095	2.2843	credible-set	red
rs11084888	19	1.162376	2.6925	credible-set	red
rs10853952	19	1.163934	2.4304	credible-set	red
rs35971149	19	1.164197	2.3778	credible-set	red
rs7507563	19	1.165030	2.5146	credible-set	red
rs919814	19	1.165172	2.3219	credible-set	red
rs4807623	19	1.165264	2.4473	credible-set	red
rs35405743	19	1.165552	2.7269	credible-set	red
rs12462901	19	1.166410	2.0155	credible-set	red
rs57813069	19	1.167157	2.4904	credible-set	red
rs35921363	19	1.167343	2.5906	credible-set	red
rs12461269	19	1.167922	2.7370	credible-set	red
rs11671793	19	1.169022	2.7129	credible-set	red
rs11668064	19	1.169066	2.7162	credible-set	red
rs4807629	19	1.170297	2.7480	credible-set	red
rs4807630	19	1.170445	2.5131	credible-set	red

eBMD SNP INDEX 280



date: Wed Jun 28 21:53:12 2017

build: hg19

display range: chr19:1684652–2684652 [1684652–2684652]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:2184652

number of SNPs plotted: 8719

min P-value: 2.8E-10 [chr19:2184652]

max P-value: 1E0 [chr19:1684736]

omitted Genes: C19orf35, LINGO3

omitted GWAS Hits: NA, NA

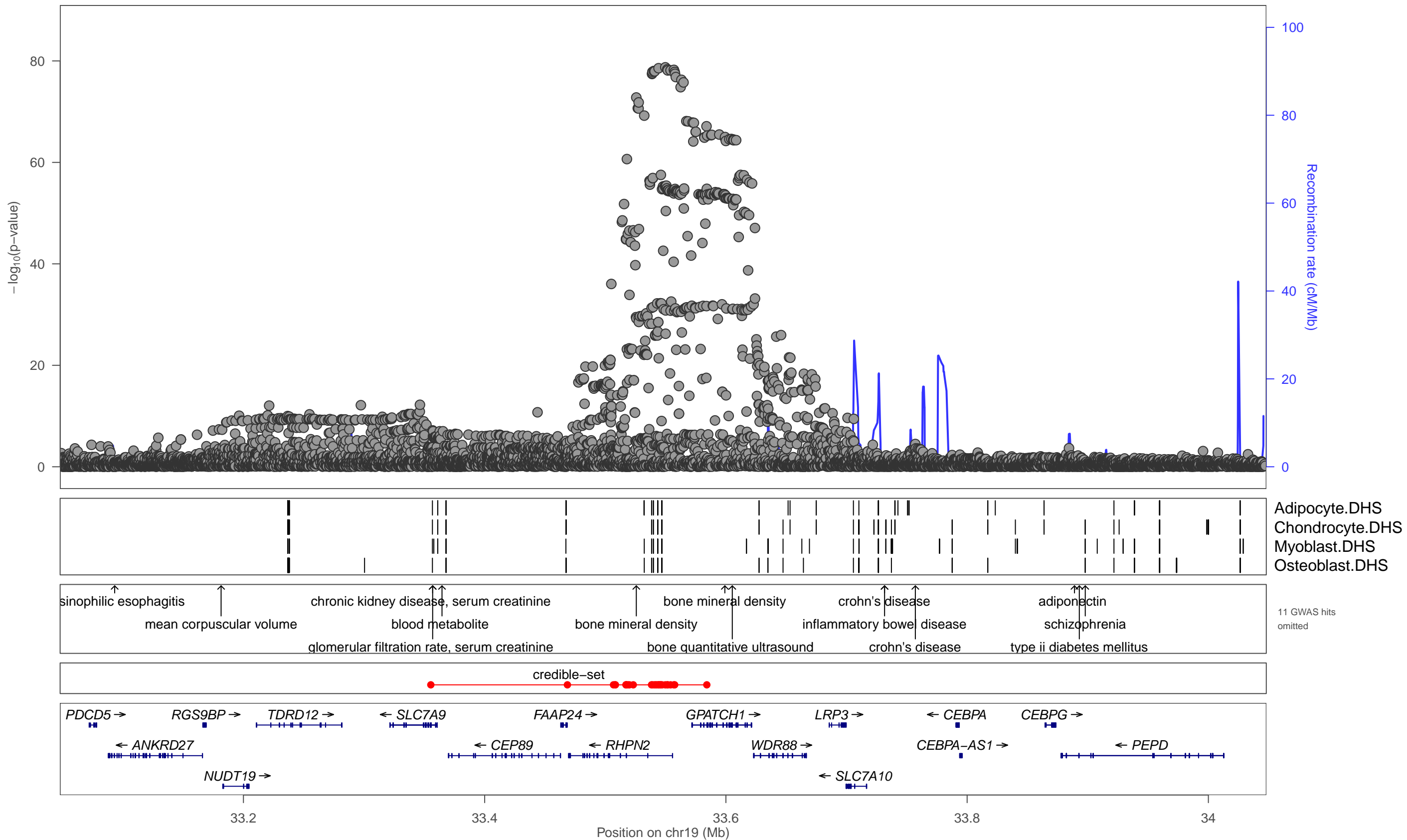
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	2.160529	myocardial infarction	Hirokawa M	11/06/2014	Eur J Hum Genet	24916648	rs3803915	EFO_0000612	GCST002475
19	2.170954	body height	Lettre G	6/04/2008	Nat Genet	18391950	rs12986413	EFO_0004339	GCST000176
19	2.176403	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs11880992	EFO_0004339	GCST001956
19	2.176403	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs11880992	EFO_0004339	GCST002647
19	2.177193	body height	Lango Allen H	29/09/2010	Nature	20881960	rs12982744	EFO_0004339	GCST000817
19	2.177193	osteoarthritis	Castano Betancourt MC	7/05/2012	Proc Natl Acad Sci U S A	22566624	rs12982744	EFO_0002506	GCST001516
19	2.232221	pulse pressure	Kato N	21/09/2015	Nat Genet	26390057	rs740406	EFO_0005763	GCST003274

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs66864687	19	2.156051	2.2494	credible-set	red
rs7249081	19	2.157167	2.0845	credible-set	red
rs1074047	19	2.158748	2.0589	credible-set	red
rs57908212	19	2.161321	2.1557	credible-set	red
rs12610645	19	2.165842	2.2032	credible-set	red
rs12460807	19	2.166375	2.2459	credible-set	red
rs4807205	19	2.167878	2.2029	credible-set	red
rs12983458	19	2.168612	2.2030	credible-set	red
rs4807208	19	2.170205	2.1273	credible-set	red
rs2108524	19	2.170764	2.2595	credible-set	red
rs12986413	19	2.170954	2.1268	credible-set	red
rs1015670	19	2.171490	2.3291	credible-set	red
rs12978179	19	2.172378	2.2672	credible-set	red
rs11882273	19	2.173836	2.1640	credible-set	red
rs4807211	19	2.174643	2.2049	credible-set	red
rs12982593	19	2.175891	2.2042	credible-set	red
rs12459350	19	2.176586	2.2042	credible-set	red
rs12609327	19	2.183000	2.5326	credible-set	red
rs12980417	19	2.184166	2.0053	credible-set	red
rs4806832	19	2.184652	2.8467	credible-set	red
rs77995255	19	2.186497	2.3803	credible-set	red
rs2240127	19	2.187271	2.3056	credible-set	red
rs34327923	19	2.513914	3.4238	credible-set	red

eBMD SNP INDEX 281



date: Wed Jun 28 21:53:05 2017

build: hg19

display range: chr19:33048026–34048026 [33048026–34048026]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:33548026

number of SNPs plotted: 7532

min P-value: 1.8E-79 [chr19:33549775]

max P-value: 1E0 [chr19:33068351]

omitted GWAS Hits: chr19:33.525713–bone mineral density, chr19:33.599127–bone mineral density

omitted GWAS Hits: chr19:33.731551–inflammatory bowel disease, chr19:33.893008–type ii diabetes mellitus

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

Warning: No usable LD information for reference SNP.

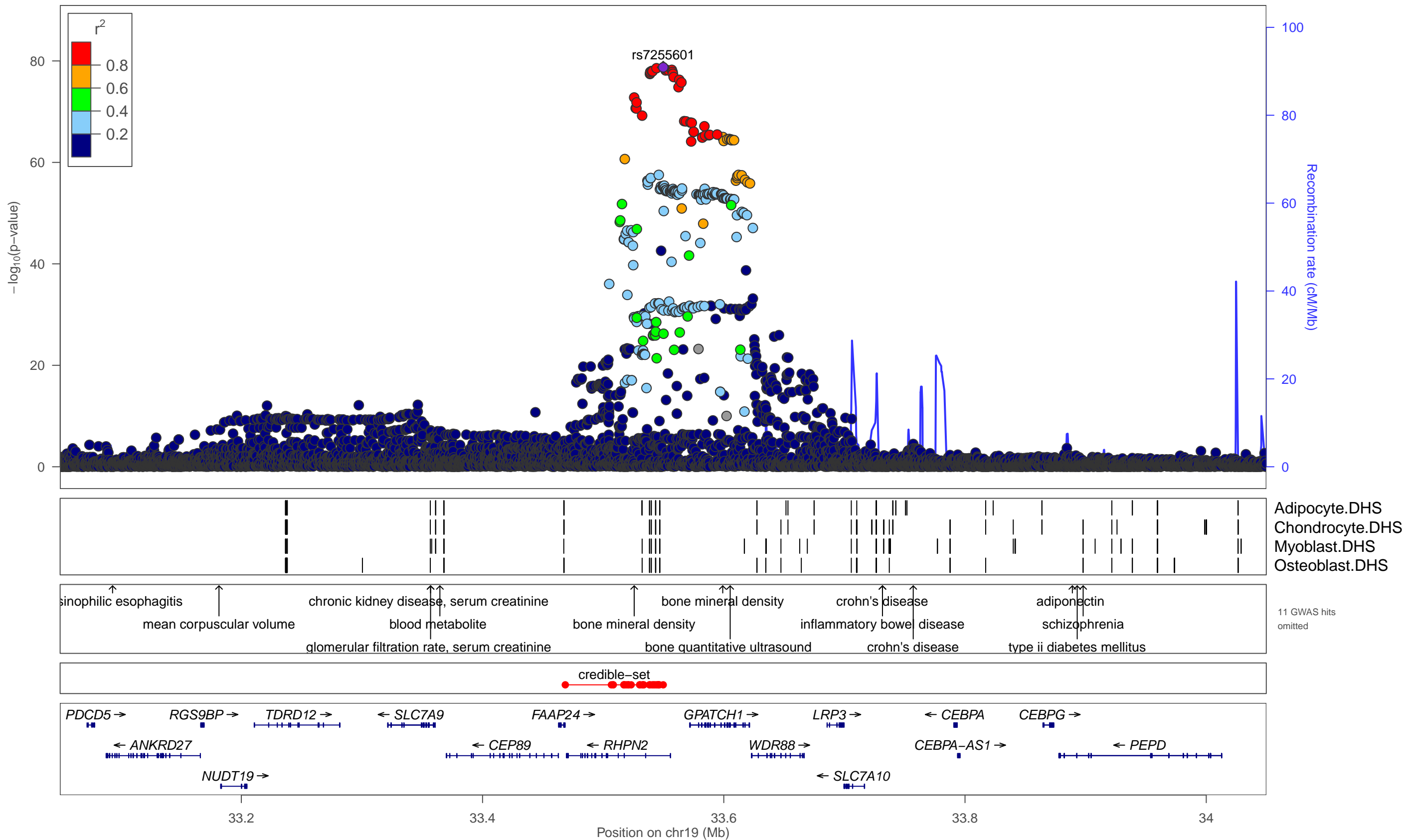
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	33.09325	eosinophilic esophagitis	Sleiman PM	19/11/2014	Nat Commun	25407941	rs3815700	EFO_0004232	GCST002697
19	33.18148	mean corpuscular volume	van der Harst P	5/12/2012	Nature	23222517	rs3892630	EFO_0004526	GCST001765
19	33.35689	chronic kidney disease, serum creatinine	Kottgen A	11/04/2010	Nat Genet	20383146	rs12460876	EFO_0003884, EFO_0004518	GCST000649
19	33.35689	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs12460876	EFO_0005208, EFO_0004518	GCST003372
19	33.35689	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs12460876	EFO_0005208, EFO_0004518	GCST003401
19	33.36463	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs8101881	EFO_0005664	GCST002443
19	33.36463	metabolite	Suhre K	15/05/2011	Nat Genet	21572414	rs8101881	EFO_0004725	GCST001073
19	33.36463	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs8101881	EFO_0005116	GCST002364
19	33.45366	serum creatinine	Chambers JC	11/04/2010	Nat Genet	20383145	rs4805834	EFO_0004518	GCST000651
19	33.52571	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9749364	EFO_0004339	NA
19	33.53230	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs10411210	EFO_0005842	GCST000270
19	33.59913	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10416218	EFO_0003923	GCST001482
19	33.60530	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs10416265	EFO_0004514	GCST002335
19	33.60530	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs10416265	EFO_0005654	GCST002333
19	33.73155	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0000384	GCST003044
19	33.73155	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs17694108	EFO_0003767	GCST001725
19	33.73155	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0003767	GCST003043
19	33.73155	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0000729	GCST003045
19	33.75031	inflammatory bowel disease	Imielinski M	15/11/2009	Nat Genet	19915574	rs10500264	EFO_0003767	GCST000531
19	33.75706	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs736289	EFO_0000384	GCST000879
19	33.88900	adiponectin	Wu Y	14/10/2013	Hum Mol Genet	24105470	rs889140	EFO_0004502	GCST002233
19	33.89301	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs3786897	EFO_0001360	GCST001351
19	33.89793	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs10425465	EFO_0000692	GCST003048
19	33.89907	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs731839	EFO_0004502	GCST001465
19	33.89907	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs731839	EFO_0004612	GCST002223
19	33.89907	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs731839	EFO_0004530	GCST002216
19	33.90612	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs4805885	EFO_0004502	GCST001463

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs12151145	19	33.35536	2.1982	credible-set	red
rs7247407	19	33.46860	2.2705	credible-set	red
rs10406104	19	33.50682	2.7496	credible-set	red
rs75205874	19	33.50820	2.8234	credible-set	red
rs17316183	19	33.50838	2.7012	credible-set	red
rs28570619	19	33.51715	2.8207	credible-set	red
rs17841839	19	33.51720	2.8974	credible-set	red
rs28626308	19	33.51752	2.8252	credible-set	red
rs8112217	19	33.51872	3.0821	credible-set	red
rs28840750	19	33.51993	3.3245	credible-set	red
rs73039431	19	33.52320	2.5797	credible-set	red
rs34363498	19	33.53834	2.9273	credible-set	red
rs73585910	19	33.53906	2.0045	credible-set	red
rs34621377	19	33.54069	2.6059	credible-set	red
rs11673329	19	33.54173	2.6500	credible-set	red
rs10426804	19	33.54266	2.6515	credible-set	red
rs34475253	19	33.54404	2.3885	credible-set	red
rs60507951	19	33.54419	2.4880	credible-set	red
rs12462348	19	33.54504	2.2478	credible-set	red
rs12462935	19	33.54588	2.2902	credible-set	red
rs7246562	19	33.54609	2.6221	credible-set	red
rs35281881	19	33.54705	2.4775	credible-set	red
rs7255601	19	33.54977	3.3808	credible-set	red
rs11881367	19	33.55143	2.9692	credible-set	red
rs7249860	19	33.55177	2.6851	credible-set	red
rs7258173	19	33.55411	2.7034	credible-set	red
rs8104911	19	33.55689	2.9484	credible-set	red
rs8109970	19	33.55753	2.2456	credible-set	red
rs535206216	19	33.58418	2.1505	credible-set	red

eBMD SNP INDEX 282



date: Wed Jun 28 21:53:10 2017

build: hg19

display range: chr19:33049775–34049775 [33049775–34049775]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:33549775

number of SNPs plotted: 7535

min P-value: 1.8E-79 [chr19:33549775]

max P-value: 1E0 [chr19:33068351]

omitted GWAS Hits: chr19:33.525713–bone mineral density, chr19:33.599127–bone mineral density

omitted GWAS Hits: chr19:33.731551–inflammatory bowel disease, chr19:33.893008–type ii diabetes mellitus

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

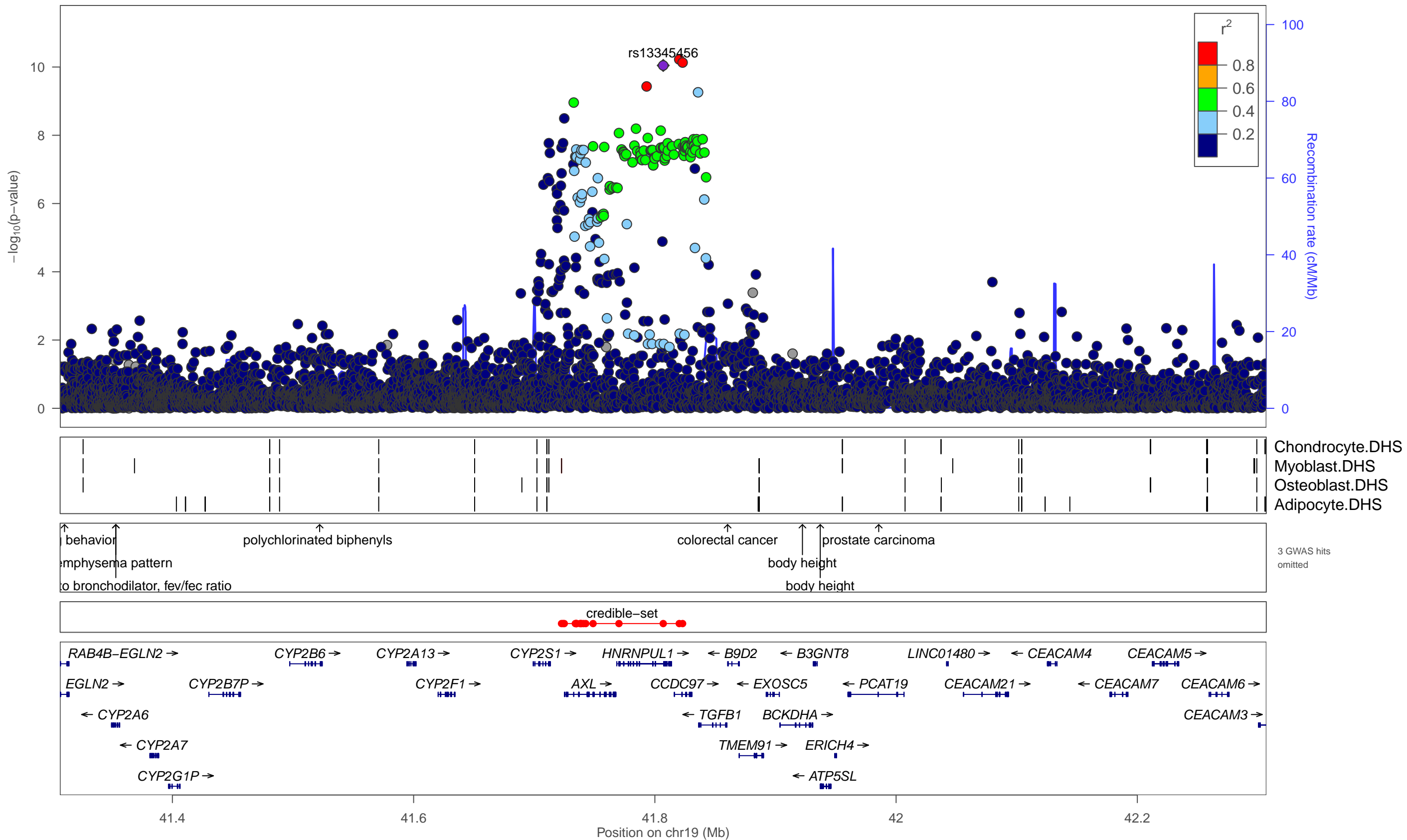
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	33.09325	eosinophilic esophagitis	Sleiman PM	19/11/2014	Nat Commun	25407941	rs3815700	EFO_0004232	GCST002697
19	33.18148	mean corpuscular volume	van der Harst P	5/12/2012	Nature	23222517	rs3892630	EFO_0004526	GCST001765
19	33.35689	chronic kidney disease, serum creatinine	Kottgen A	11/04/2010	Nat Genet	20383146	rs12460876	EFO_0003884, EFO_0004518	GCST000649
19	33.35689	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs12460876	EFO_0005208, EFO_0004518	GCST003372
19	33.35689	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs12460876	EFO_0005208, EFO_0004518	GCST003401
19	33.36463	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs8101881	EFO_0005664	GCST002443
19	33.36463	metabolite	Suhre K	15/05/2011	Nat Genet	21572414	rs8101881	EFO_0004725	GCST001073
19	33.36463	urinary metabolite	Rueedi R	20/02/2014	PLoS Genet	24586186	rs8101881	EFO_0005116	GCST002364
19	33.45366	serum creatinine	Chambers JC	11/04/2010	Nat Genet	20383145	rs4805834	EFO_0004518	GCST000651
19	33.52571	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs9749364	EFO_0004339	NA
19	33.53230	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs10411210	EFO_0005842	GCST000270
19	33.59913	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs10416218	EFO_0003923	GCST001482
19	33.60530	bone quantitative ultrasound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs10416265	EFO_0004514	GCST002335
19	33.60530	velocity of sound	Moayyeri A	14/01/2014	Hum Mol Genet	24430505	rs10416265	EFO_0005654	GCST002333
19	33.73155	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0000384	GCST003044
19	33.73155	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs17694108	EFO_0003767	GCST001725
19	33.73155	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0003767	GCST003043
19	33.73155	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs17694108	EFO_0000729	GCST003045
19	33.75031	inflammatory bowel disease	Imielinski M	15/11/2009	Nat Genet	19915574	rs10500264	EFO_0003767	GCST000531
19	33.75706	crohn's disease	Franke A	21/11/2010	Nat Genet	21102463	rs736289	EFO_0000384	GCST000879
19	33.88900	adiponectin	Wu Y	14/10/2013	Hum Mol Genet	24105470	rs889140	EFO_0004502	GCST002233
19	33.89301	type ii diabetes mellitus	Cho YS	11/12/2011	Nat Genet	22158537	rs3786897	EFO_0001360	GCST001351
19	33.89793	schizophrenia	Goes FS	21/07/2015	Am J Med Genet	26198764	rs10425465	EFO_0000692	GCST003048
19	33.89907	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs731839	EFO_0004502	GCST001465
19	33.89907	high density lipoprotein cholesterol	Willer CJ	6/10/2013	Nat Genet	24097068	rs731839	EFO_0004612	GCST002223
19	33.89907	triglyceride	Willer CJ	6/10/2013	Nat Genet	24097068	rs731839	EFO_0004530	GCST002216
19	33.90612	adiponectin	Dastani Z	29/03/2012	PLoS Genet	22479202	rs4805885	EFO_0004502	GCST001463

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs7247407	19	33.46860	2.3557	credible-set	red
rs10406104	19	33.50682	2.6045	credible-set	red
rs75205874	19	33.50820	2.6755	credible-set	red
rs17316183	19	33.50838	2.5570	credible-set	red
rs28570619	19	33.51715	2.8185	credible-set	red
rs17841839	19	33.51720	2.8370	credible-set	red
rs28626308	19	33.51752	2.8186	credible-set	red
rs8112217	19	33.51872	3.0024	credible-set	red
rs28840750	19	33.51993	3.2042	credible-set	red
rs73039426	19	33.52096	2.0174	credible-set	red
rs73039428	19	33.52115	2.0355	credible-set	red
rs73039431	19	33.52320	2.6124	credible-set	red
rs8182598	19	33.53020	2.0001	credible-set	red
rs8110492	19	33.53052	2.3228	credible-set	red
rs9783948	19	33.53251	2.5869	credible-set	red
rs2194022	19	33.53305	2.3384	credible-set	red
rs78372061	19	33.53367	2.8523	credible-set	red
rs34363498	19	33.53834	2.5905	credible-set	red
rs11881514	19	33.53881	4.6087	credible-set	red
rs34621377	19	33.54069	2.6870	credible-set	red
rs11673329	19	33.54173	3.1941	credible-set	red
rs10426804	19	33.54266	3.3416	credible-set	red
rs34475253	19	33.54404	2.4331	credible-set	red
rs12462348	19	33.54504	2.1981	credible-set	red
rs6510337	19	33.54570	3.5531	credible-set	red
rs12462935	19	33.54588	2.2564	credible-set	red
rs7246562	19	33.54609	2.3877	credible-set	red
rs7508599	19	33.54651	3.5366	credible-set	red
rs7255601	19	33.54977	2.3548	credible-set	red

eBMD SNP INDEX 283



date: Wed Jun 28 21:53:09 2017

build: hg19

display range: chr19:41306918–42306918 [41306918–42306918]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:41806918

number of SNPs plotted: 6591

min P-value: 6E-11 [chr19:41820213]

max P-value: 1E0 [chr19:41308867]

omitted GWAS Hits: chr19:41.522069–polychlorinated biphenyls , chr19:41.860296–colorectal cancer

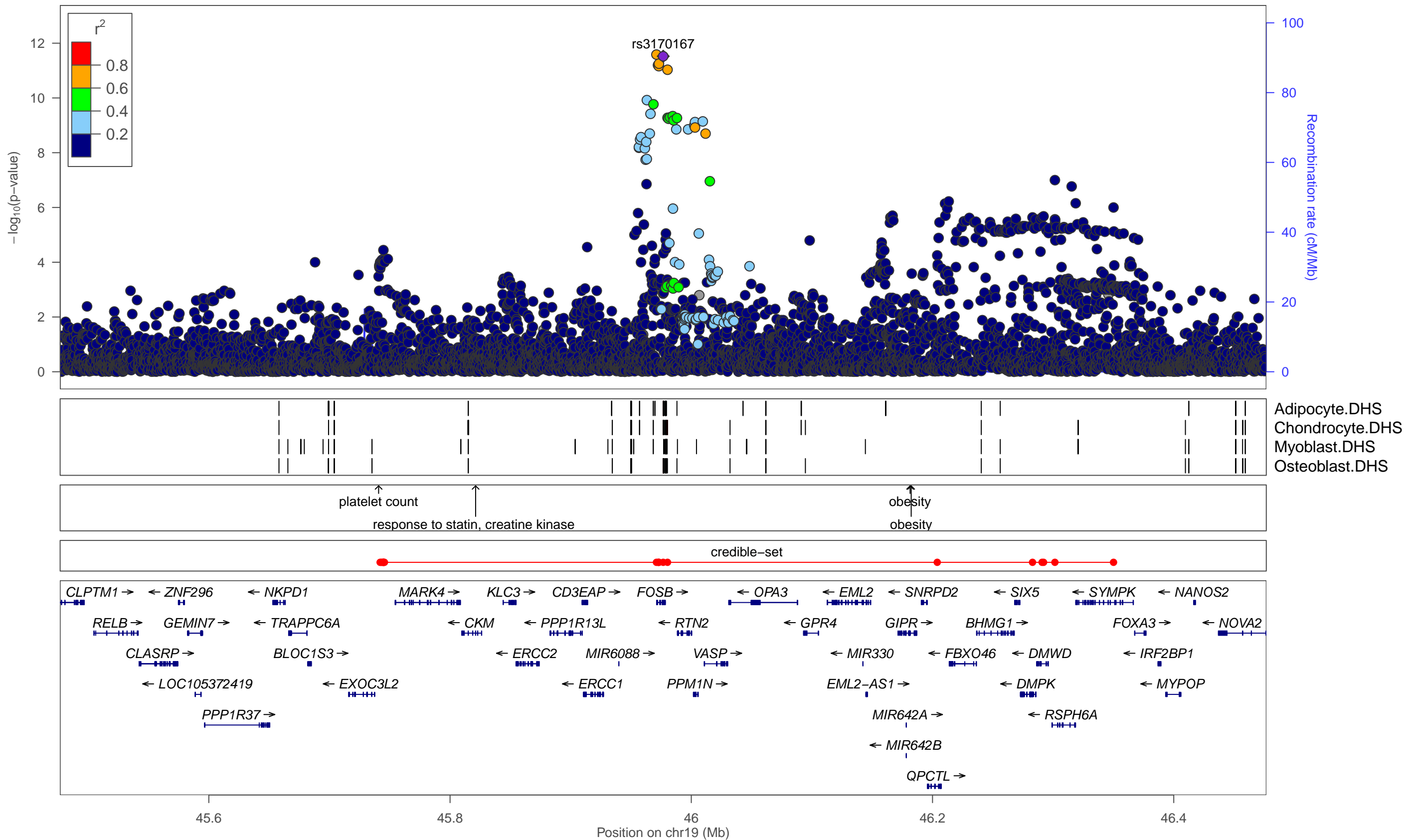
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	41.31057	smoking behavior	TGC	25/04/2010	Nat Genet	20418890	rs3733829	EFO_0004318	GCST000666
19	41.35311	emphysema pattern	Castaldi PJ	9/07/2014	Am J Respir Crit Care Med	25006744	rs56113850	EFO_0005850	GCST002525
19	41.35311	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs56113850	GO_0097366, EFO_0004713	GCST003264
19	41.35862	smoking behavior	Thorgeirsson TE	25/04/2010	Nat Genet	20418888	rs4105144	EFO_0004318	GCST000667
19	41.36377	smoking behavior	Kumasaka N	25/09/2012	PLoS One	23049750	rs8102683	EFO_0004318	GCST001696
19	41.36693	response to bronchodilator, fev/fec ratio	Lutz SM	3/12/2015	BMC Genet	26634245	rs8102900	GO_0097366, EFO_0004713	GCST003264
19	41.52207	polychlorinated biphenyls	Ng E	2/04/2015	Environ Res	25839716	rs8109848	EFO_0007042	GCST002839
19	41.86030	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs1800469	EFO_0005842	GCST002454
19	41.92235	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs4803468	EFO_0004339	GCST002647
19	41.93709	body height	Lango Allen H	29/09/2010	Nature	20881960	rs17318596	EFO_0004339	GCST000817
19	41.98559	prostate carcinoma	Amin Al Olama A	12/10/2012	Hum Mol Genet	23065704	rs11672691	EFO_0001663	GCST001714

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs8107802	19	41.72261	2.6089	credible-set	red
rs8101017	19	41.72389	2.7628	credible-set	red
rs28364580	19	41.72489	4.0377	credible-set	red
rs4802111	19	41.73406	2.1457	credible-set	red
rs4803448	19	41.73456	2.1272	credible-set	red
rs12978098	19	41.73484	2.1897	credible-set	red
rs12979764	19	41.73496	2.1623	credible-set	red
rs12980248	19	41.73512	2.1689	credible-set	red
rs7246525	19	41.73800	2.1103	credible-set	red
rs12459223	19	41.73853	2.2079	credible-set	red
rs67033402	19	41.73925	2.2984	credible-set	red
rs4802113	19	41.74090	2.3034	credible-set	red
rs56927752	19	41.74269	2.1649	credible-set	red
rs2304234	19	41.74875	2.5396	credible-set	red
rs12975585	19	41.77023	3.3088	credible-set	red
rs13345456	19	41.80692	2.1345	credible-set	red
rs12980839	19	41.82021	2.2798	credible-set	red
rs8109627	19	41.82299	2.1908	credible-set	red

eBMD SNP INDEX 284



date: Wed Jun 28 21:53:10 2017

build: hg19

display range: chr19:45476718–46476718 [45476718–46476718]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr19:45976718

number of SNPs plotted: 6357

min P-value: 2.6E-12 [chr19:45971095]

max P-value: 1E0 [chr19:45477731]

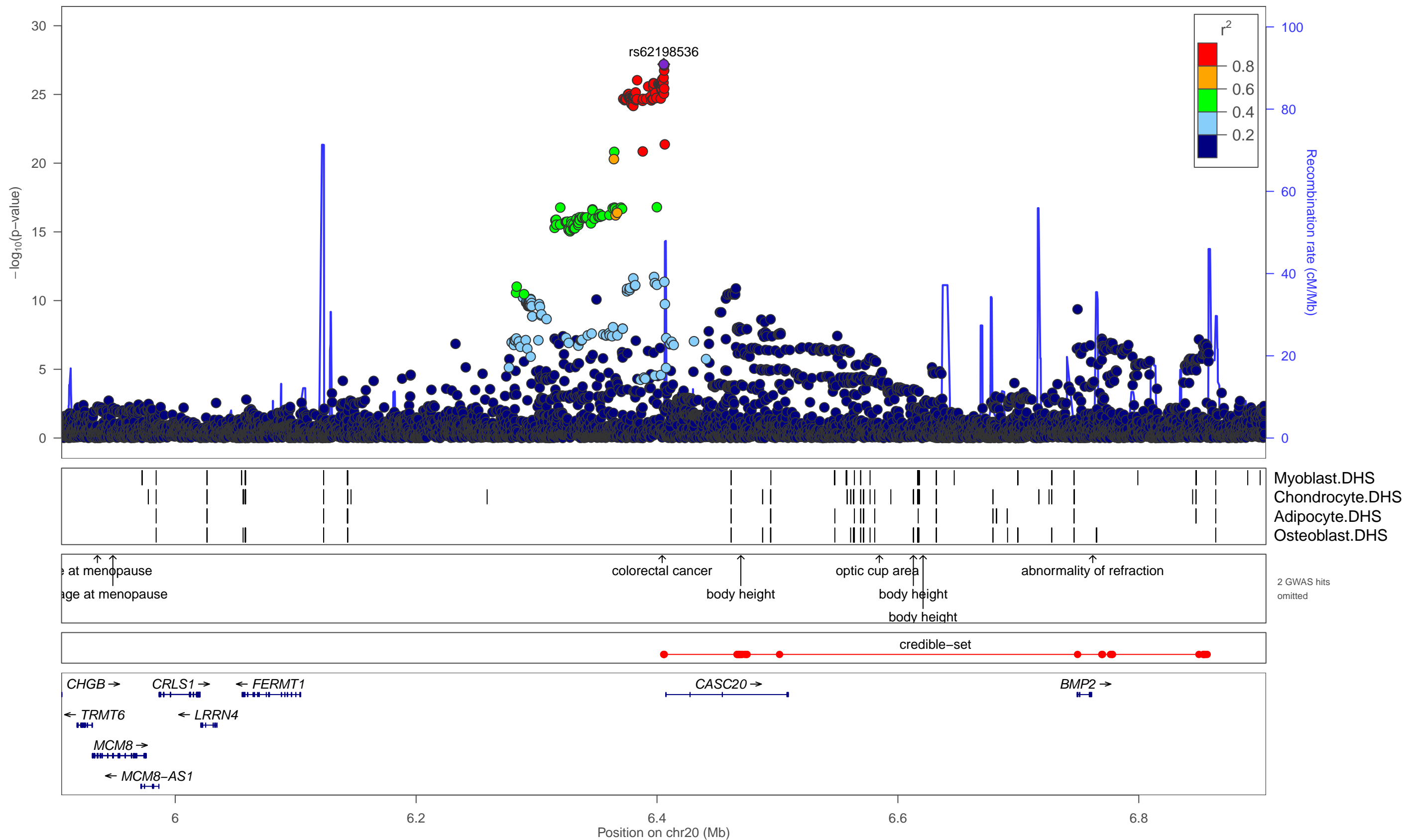
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
19	45.74077	platelet count	Gieger C	30/11/2011	Nature	22139419	rs17356664	EFO_0004309	GCST001337
19	45.82118	response to statin, creatine kinase	Dube MP	11/09/2014	Circ Cardiovasc Genet	25214527	rs11559024	GO_0036273, EFO_0004534	GCST002603
19	46.18139	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs1800437	EFO_0001073	GCST001953
19	46.18230	obesity	Berndt SI	7/04/2013	Nat Genet	23563607	rs10423928	EFO_0001073	GCST001953

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs11673000	19	45.74201	2.0356	credible-set	red
rs145605569	19	45.74290	2.0931	credible-set	red
rs11670562	19	45.74364	2.1565	credible-set	red
rs143273199	19	45.74455	2.1242	credible-set	red
rs554632176	19	45.74473	2.3158	credible-set	red
rs73036517	19	45.74484	2.1125	credible-set	red
rs137991431	19	45.74505	2.1384	credible-set	red
rs74444983	19	45.74561	2.0407	credible-set	red
rs12373539	19	45.97109	3.1384	credible-set	red
rs12976374	19	45.97241	2.5961	credible-set	red
rs2238686	19	45.97306	2.5656	credible-set	red
rs2238687	19	45.97317	2.6579	credible-set	red
rs3170167	19	45.97672	3.1420	credible-set	red
19:45980289_C_CAA	19	45.98029	2.7208	credible-set	red
rs11673709	19	46.20392	2.5264	credible-set	red
rs2070737	19	46.28289	2.0323	credible-set	red
rs17571725	19	46.29082	2.0661	credible-set	red
rs9676288	19	46.29206	2.1035	credible-set	red
rs35226705	19	46.30146	3.1312	credible-set	red
rs35159561	19	46.35006	2.4220	credible-set	red

eBMD SNP INDEX 285



date: Wed Jun 28 21:53:04 2017

build: hg19

display range: chr20:5905614–6905614 [5905614–6905614]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:6405614

number of SNPs plotted: 6508

min P-value: 6.4E-28 [chr20:6405607]

max P-value: 1E0 [chr20:5979653]

omitted GWAS Hits: chr20:6.761765–abnormality of refraction, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	5.935385	age at menopause	Stolk L	15/05/2009	Nat Genet	19448619	rs236114	EFO_0004704	GCST000401
20	5.948227	age at menopause	He C	17/05/2009	Nat Genet	19448621	rs16991615	EFO_0004704	GCST000403
20	5.948227	age at menopause	Perry JR	9/01/2013	Hum Mol Genet	23307926	rs16991615	EFO_0004704	GCST001810
20	5.948227	age at menopause	Stolk L	22/01/2012	Nat Genet	22267201	rs16991615	EFO_0004704	GCST001381
20	6.404281	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs961253	EFO_0005842	GCST000270
20	6.469596	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs17721822	EFO_0004339	GCST002647
20	6.584604	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs6054383	EFO_0006940	GCST002762
20	6.612832	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs1884897	EFO_0004339	GCST002647
20	6.620893	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs967417	EFO_0004339	GCST000175
20	6.621685	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2145270	EFO_0004339	GCST001956
20	6.626218	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2145272	EFO_0004339	GCST002702
20	6.626218	body height	Lango Allen H	29/09/2010	Nature	20881960	rs2145272	EFO_0004339	GCST000817
20	6.761765	abnormality of refraction	Verhoeven VJ	10/02/2013	Nat Genet	23396134	rs235770	HP_0000539	GCST001858

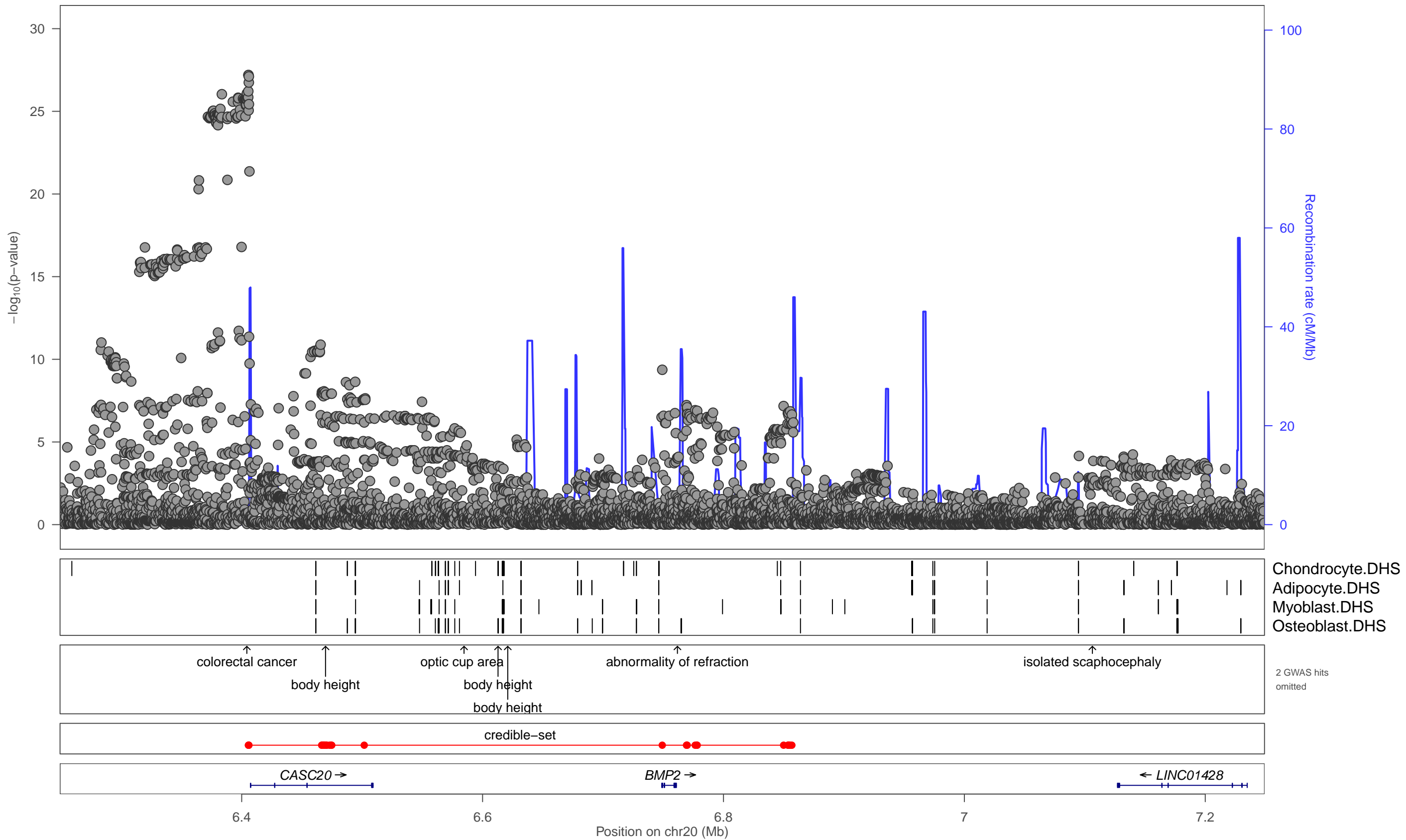
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6054223	20	6.405607	3.1841	credible-set	red
rs62198536	20	6.405614	3.1914	credible-set	red
rs71336174	20	6.405923	2.5567	credible-set	red
rs71338564	20	6.405944	3.0248	credible-set	red
rs4815904	20	6.466405	2.1624	credible-set	red
rs6085574	20	6.466574	2.3074	credible-set	red
rs4815905	20	6.467481	2.3305	credible-set	red
rs4815906	20	6.467605	2.1462	credible-set	red
rs4815907	20	6.467844	2.0836	credible-set	red
rs10485705	20	6.468261	2.3620	credible-set	red
rs1970008	20	6.468371	2.1986	credible-set	red
rs4441551	20	6.469312	2.2944	credible-set	red
rs2326789	20	6.470104	2.2017	credible-set	red
rs6117294	20	6.470805	3.3863	credible-set	red
rs6054308	20	6.472918	2.4888	credible-set	red
rs6085577	20	6.474221	2.2678	credible-set	red
rs6085578	20	6.474766	2.2936	credible-set	red
rs542353602	20	6.501730	3.1302	credible-set	red
rs201402819	20	6.749181	4.9502	credible-set	red
rs28151	20	6.769300	2.6237	credible-set	red
rs235753	20	6.769533	2.3872	credible-set	red
rs235750	20	6.769877	2.4557	credible-set	red
rs2650976	20	6.776498	2.2773	credible-set	red
rs235737	20	6.777913	2.0642	credible-set	red
rs235739	20	6.778164	2.2259	credible-set	red
rs61506360	20	6.849922	3.3298	credible-set	red
rs1555136	20	6.853448	2.4249	credible-set	red
rs4813805	20	6.853998	2.4288	credible-set	red
rs4813806	20	6.854018	2.1462	credible-set	red
rs4813807	20	6.854187	2.3937	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6054572	20	6.855401	2.4715	credible-set	red
rs58690729	20	6.856770	2.3573	credible-set	red

eBMD SNP INDEX 286



date: Wed Jun 28 21:53:00 2017

build: hg19

display range: chr20:6249184–7249184 [6249184–7249184]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:6749184

number of SNPs plotted: 6480

min P-value: 6.4E–28 [chr20:6405607]

max P-value: 1E0 [chr20:6287529]

omitted GWAS Hits: chr20:6.761765–abnormality of refraction, chr20:7.106289–isolated scaphocephaly

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	6.404281	colorectal cancer	Houlston RS	16/11/2008	Nat Genet	19011631	rs961253	EFO_0005842	GCST000270
20	6.469596	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs17721822	EFO_0004339	GCST002647
20	6.584604	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs6054383	EFO_0006940	GCST002762
20	6.612832	body height	Wood AR	5/10/2014	Nat Genet	25282103	rs1884897	EFO_0004339	GCST002647
20	6.620893	body height	Gudbjartsson DF	6/04/2008	Nat Genet	18391951	rs967417	EFO_0004339	GCST000175
20	6.621685	body height	Berndt SI	7/04/2013	Nat Genet	23563607	rs2145270	EFO_0004339	GCST001956
20	6.626218	body height	He M	26/11/2014	Hum Mol Genet	25429064	rs2145272	EFO_0004339	GCST002702
20	6.626218	body height	Lango Allen H	29/09/2010	Nature	20881960	rs2145272	EFO_0004339	GCST000817
20	6.761765	abnormality of refraction	Verhoeven VJ	10/02/2013	Nat Genet	23396134	rs235770	HP_0000539	GCST001858
20	7.106289	isolated scaphocephaly	Justice CM	18/11/2012	Nat Genet	23160099	rs1884302	Orphanet_35093	GCST001745

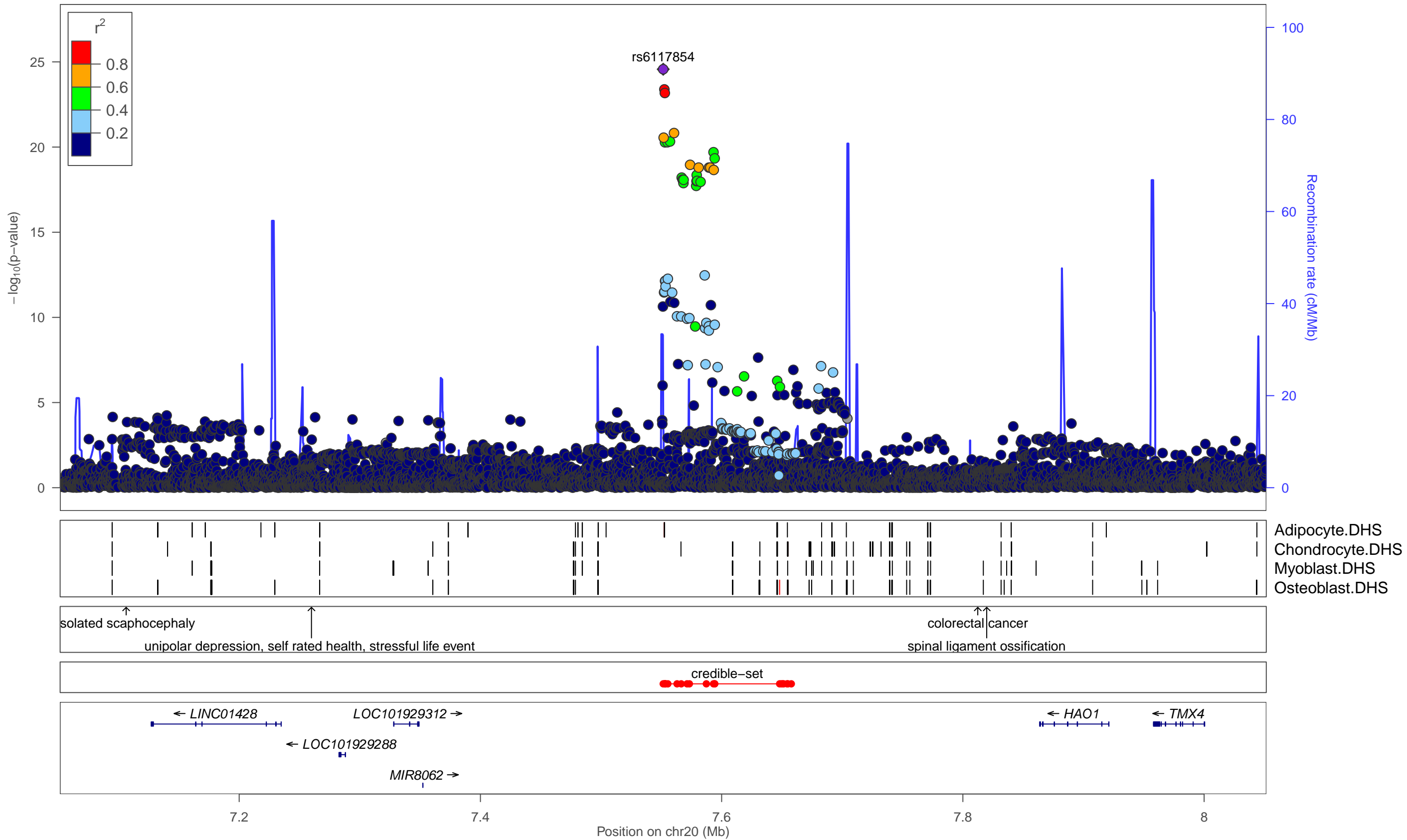
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6054223	20	6.405607	3.1798	credible-set	red
rs62198536	20	6.405614	3.1967	credible-set	red
rs71336174	20	6.405923	2.5603	credible-set	red
rs71338564	20	6.405944	3.0271	credible-set	red
rs4815904	20	6.466405	2.1761	credible-set	red
rs6085574	20	6.466574	2.2890	credible-set	red
rs4815905	20	6.467481	2.2788	credible-set	red
rs4815906	20	6.467605	2.1834	credible-set	red
rs4815907	20	6.467844	2.0886	credible-set	red
rs10485705	20	6.468261	2.3577	credible-set	red
rs1970008	20	6.468371	2.1718	credible-set	red
rs4441551	20	6.469312	2.2911	credible-set	red
rs2326789	20	6.470104	2.1922	credible-set	red
rs6117294	20	6.470805	3.4102	credible-set	red
rs6054308	20	6.472918	2.4718	credible-set	red
rs6085577	20	6.474221	2.2568	credible-set	red
rs6085578	20	6.474766	2.2889	credible-set	red
rs542353602	20	6.501730	3.1040	credible-set	red
rs201402819	20	6.749181	4.9721	credible-set	red
rs28151	20	6.769300	2.6218	credible-set	red
rs235753	20	6.769533	2.3951	credible-set	red
rs235750	20	6.769877	2.4544	credible-set	red
rs2650976	20	6.776498	2.2648	credible-set	red
rs235737	20	6.777913	2.0514	credible-set	red
rs235739	20	6.778164	2.2064	credible-set	red
rs61506360	20	6.849922	3.3540	credible-set	red
rs1555136	20	6.853448	2.3958	credible-set	red
rs4813805	20	6.853998	2.4348	credible-set	red
rs4813806	20	6.854018	2.1169	credible-set	red
rs4813807	20	6.854187	2.3769	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6054572	20	6.855401	2.4639	credible-set	red
rs58690729	20	6.856770	2.3434	credible-set	red

eBMD SNP INDEX 287



date: Wed Jun 28 21:53:05 2017

build: hg19

display range: chr20:7051554–8051554 [7051554–8051554]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:7551554

number of SNPs plotted: 6415

min P-value: 2.7E–25 [chr20:7551554]

max P-value: 1E0 [chr20:7132239]

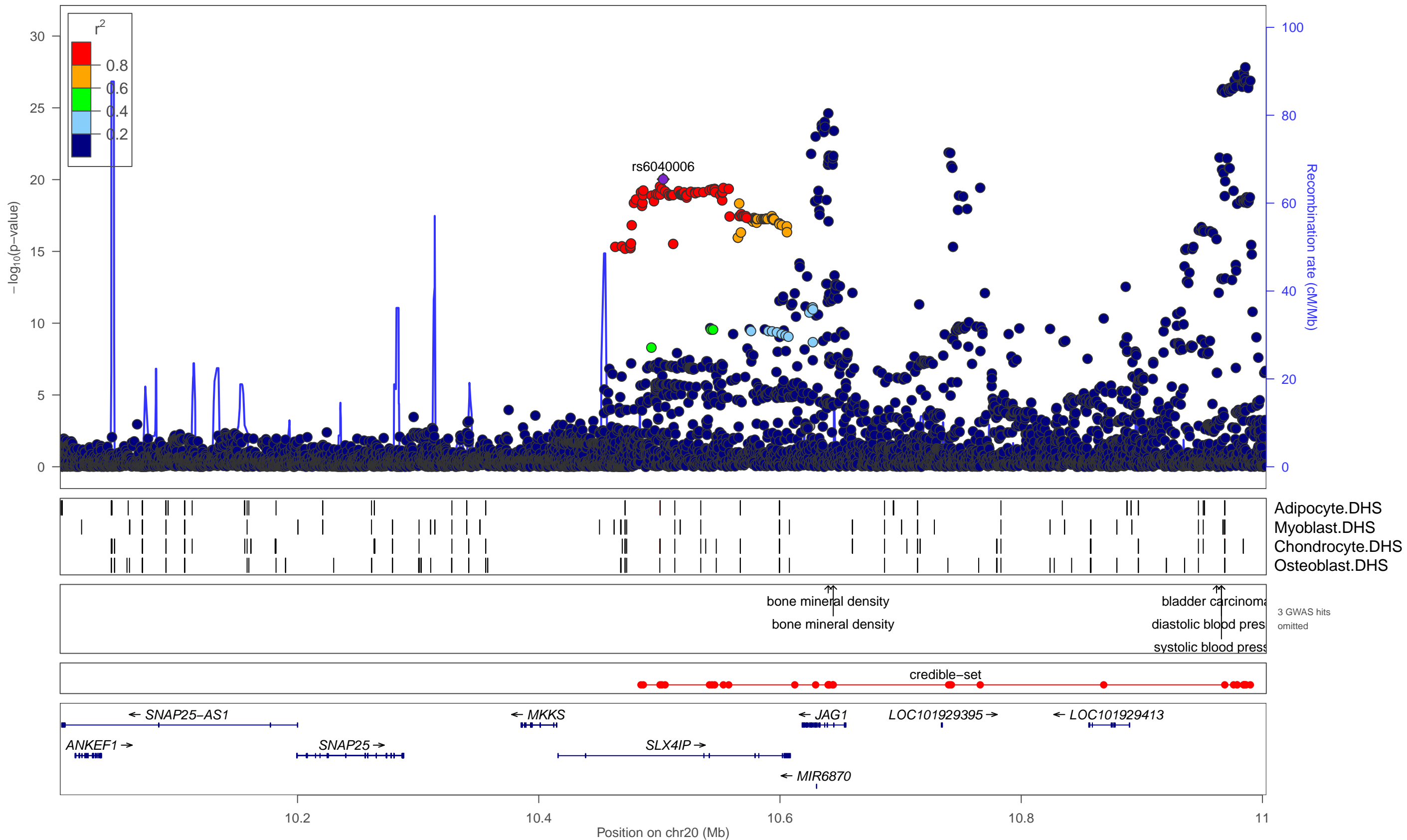
GWAS Catalog SNPs in Region

pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.acce
7.106289	isolated scaphocephaly	Justice CM	18/11/2012	Nat Genet	23160099	rs1884302	Orphanet_35093	GCST001
7.259925	unipolar depression, self rated health, stressful life event	Ikeda M	1/01/2016	J Clin Psychiatry	26845276	rs10485715	EFO_0003761, EFO_0004778, EFO_0007781	GCST003
7.812350	colorectal cancer	Jia WH	23/12/2012	Nat Genet	23263487	rs2423279	EFO_0005842	GCST001
7.812350	colorectal cancer	Zhang B	18/05/2014	Nat Genet	24836286	rs2423279	EFO_0005842	GCST002
7.819768	spinal ligament ossification	Nakajima M	27/07/2014	Nat Genet	25064007	rs2423294	EFO_0005895	GCST002

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6117854	20	7.551554	4.0216	credible-set	red
rs6108011	20	7.552504	2.8857	credible-set	red
rs11333505	20	7.552887	2.6360	credible-set	red
rs8120502	20	7.553077	2.5350	credible-set	red
rs6055130	20	7.553424	2.5871	credible-set	red
rs6117855	20	7.553476	2.1397	credible-set	red
rs6108012	20	7.555385	2.7104	credible-set	red
rs11481947	20	7.563019	2.6101	credible-set	red
rs6055144	20	7.566496	2.5854	credible-set	red
rs6117868	20	7.571322	2.4633	credible-set	red
rs2207693	20	7.573244	2.4545	credible-set	red
rs6117881	20	7.587314	2.2585	credible-set	red
rs34031061	20	7.593266	2.8259	credible-set	red
rs564758144	20	7.594214	2.4334	credible-set	red
rs6117883	20	7.594246	2.2069	credible-set	red
rs6108036	20	7.648085	2.6179	credible-set	red
rs6038917	20	7.649535	2.6207	credible-set	red
rs6117912	20	7.650577	2.5481	credible-set	red
rs6117913	20	7.651373	2.6565	credible-set	red
rs11467696	20	7.654259	2.1225	credible-set	red
rs6055249	20	7.654897	2.9514	credible-set	red
rs73616191	20	7.657739	2.9694	credible-set	red

eBMD SNP INDEX 288



date: Wed Jun 28 21:53:08 2017

build: hg19

display range: chr20:10003184–11003184 [10003184–11003184]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:10503184

number of SNPs plotted: 6320

min P-value: 1.5E-28 [chr20:10985803]

max P-value: 1E0 [chr20:10017066]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.63999	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3790160	EFO_0003923	GCST001482
20	10.64416	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2235811	EFO_0004339	NA
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

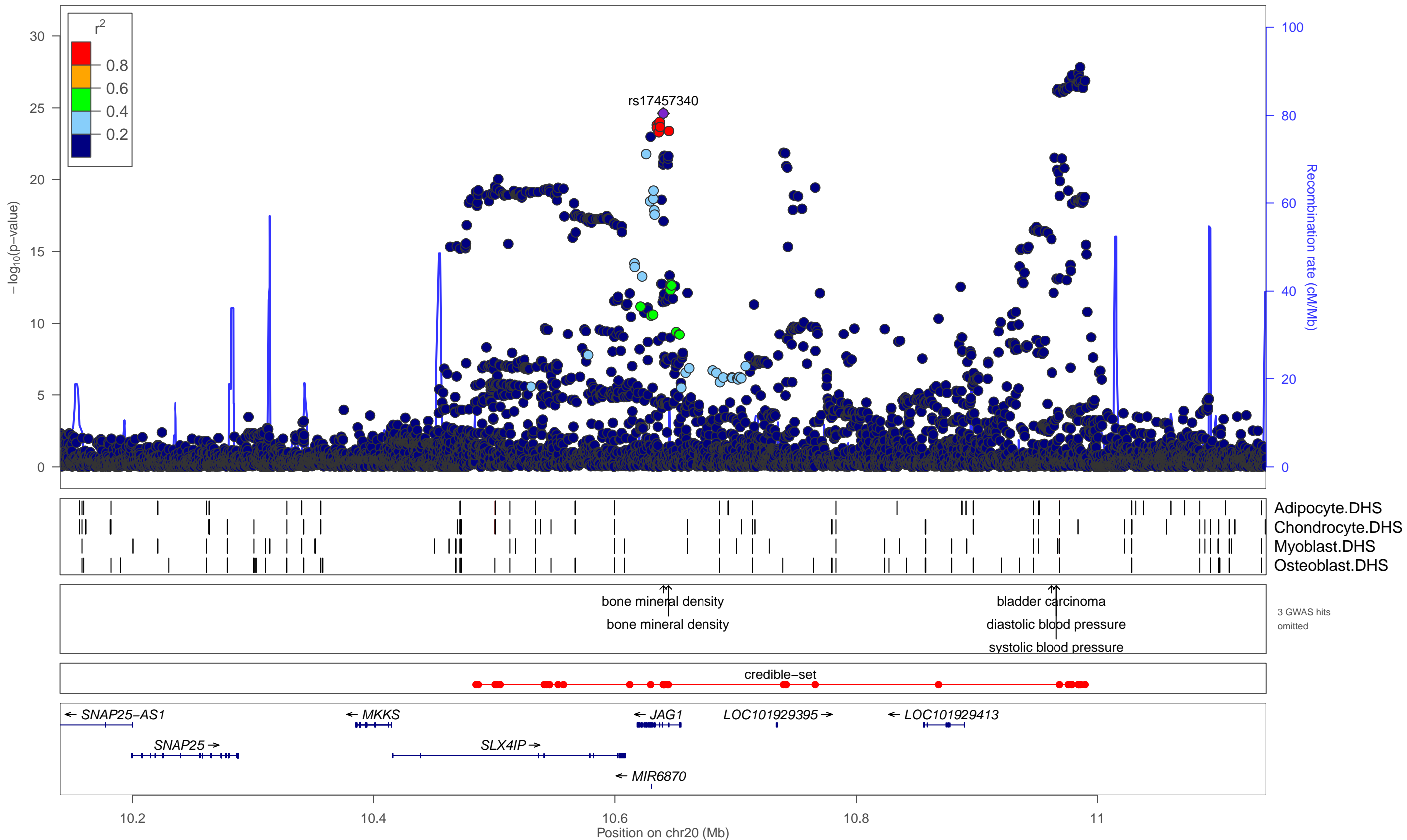
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6039993	20	10.48472	2.1381	credible-set	red
rs113218579	20	10.48667	2.1247	credible-set	red
rs6032894	20	10.50053	2.2980	credible-set	red
rs6074153	20	10.50205	2.2894	credible-set	red
rs6040008	20	10.50474	2.0794	credible-set	red
rs139067448	20	10.54154	2.0354	credible-set	red
rs112777667	20	10.54367	2.1338	credible-set	red
rs78532542	20	10.54583	2.1592	credible-set	red
rs78119533	20	10.55304	2.1608	credible-set	red
rs77087848	20	10.55747	2.0657	credible-set	red
rs112175375	20	10.61225	13.6007	credible-set	red
rs35308216	20	10.62952	13.6007	credible-set	red
rs3790159	20	10.63992	2.0199	credible-set	red
rs3790160	20	10.63999	2.0346	credible-set	red
rs3790161	20	10.64009	2.2426	credible-set	red
rs6040061	20	10.64031	2.6823	credible-set	red
rs7269017	20	10.64044	2.6321	credible-set	red
rs6040063	20	10.64088	2.7865	credible-set	red
rs33962097	20	10.64096	2.6978	credible-set	red
rs3833513	20	10.64368	2.3110	credible-set	red
rs7267595	20	10.64385	2.6584	credible-set	red
rs2235811	20	10.64416	2.7726	credible-set	red
rs35205996	20	10.73984	3.6905	credible-set	red
rs6134023	20	10.74118	3.3027	credible-set	red
rs41280286	20	10.74207	2.1563	credible-set	red
rs6134038	20	10.76599	2.4046	credible-set	red
rs148801552	20	10.86838	4.4656	credible-set	red
rs2094347	20	10.96873	2.2884	credible-set	red
rs1555958	20	10.97605	2.7506	credible-set	red
rs6078002	20	10.97901	2.5127	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6108796	20	10.97909	2.5038	credible-set	red
20:10984360_T_C	20	10.98436	2.5433	credible-set	red
rs144144720	20	10.98442	2.0407	credible-set	red
rs6074226	20	10.98461	2.7018	credible-set	red
rs6040286	20	10.98514	2.0133	credible-set	red
rs1980853	20	10.98544	2.3278	credible-set	red
rs1980854	20	10.98580	3.2274	credible-set	red
rs6078006	20	10.98645	2.2027	credible-set	red
rs6040291	20	10.98995	2.1209	credible-set	red

eBMD SNP INDEX 289



date: Wed Jun 28 21:53:09 2017

build: hg19

display range: chr20:10140042–11140042 [10140042–11140042]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:10640042

number of SNPs plotted: 6306

min P-value: 1.5E–28 [chr20:10985803]

max P-value: 1E0 [chr20:10207009]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.63999	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3790160	EFO_0003923	GCST001482
20	10.64416	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2235811	EFO_0004339	NA
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

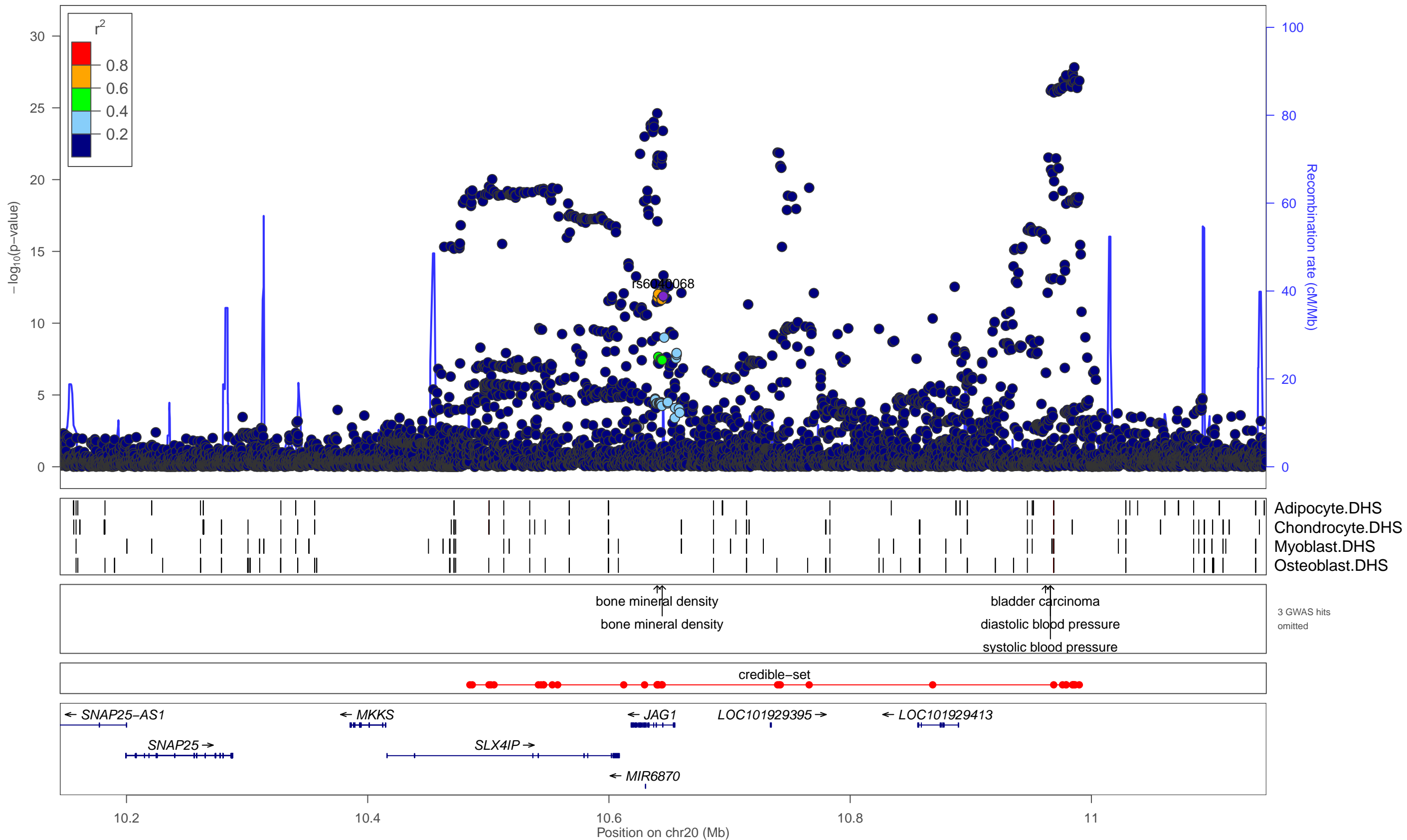
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6039993	20	10.48472	2.1176	credible-set	red
rs113218579	20	10.48667	2.1332	credible-set	red
rs6032894	20	10.50053	2.2748	credible-set	red
rs6074153	20	10.50205	2.2795	credible-set	red
rs6040008	20	10.50474	2.0807	credible-set	red
rs139067448	20	10.54154	2.0514	credible-set	red
rs112777667	20	10.54367	2.1279	credible-set	red
rs78532542	20	10.54583	2.1702	credible-set	red
rs111539884	20	10.54583	2.0071	credible-set	red
rs78119533	20	10.55304	2.1380	credible-set	red
rs77087848	20	10.55747	2.0729	credible-set	red
rs112175375	20	10.61225	13.5998	credible-set	red
rs35308216	20	10.62952	13.5998	credible-set	red
rs3790159	20	10.63992	2.0249	credible-set	red
rs3790161	20	10.64009	2.2354	credible-set	red
rs6040061	20	10.64031	2.7140	credible-set	red
rs7269017	20	10.64044	2.6327	credible-set	red
rs6040063	20	10.64088	2.7948	credible-set	red
rs33962097	20	10.64096	2.6977	credible-set	red
rs3833513	20	10.64368	2.3261	credible-set	red
rs7267595	20	10.64385	2.6143	credible-set	red
rs2235811	20	10.64416	2.7733	credible-set	red
rs35205996	20	10.73984	3.6959	credible-set	red
rs6134023	20	10.74118	3.3052	credible-set	red
rs41280286	20	10.74207	2.1258	credible-set	red
rs6134038	20	10.76599	2.3750	credible-set	red
rs148801552	20	10.86838	4.4680	credible-set	red
rs2094347	20	10.96873	2.2699	credible-set	red
rs1555958	20	10.97605	2.7639	credible-set	red
rs6078002	20	10.97901	2.4647	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6108796	20	10.97909	2.5339	credible-set	red
20:10984360_T_C	20	10.98436	2.5482	credible-set	red
rs144144720	20	10.98442	2.1156	credible-set	red
rs6074226	20	10.98461	2.6800	credible-set	red
rs1980853	20	10.98544	2.3585	credible-set	red
rs1980854	20	10.98580	3.2328	credible-set	red
rs6078006	20	10.98645	2.2003	credible-set	red
rs6040291	20	10.98995	2.1088	credible-set	red

eBMD SNP INDEX 290



date: Wed Jun 28 21:53:05 2017

build: hg19

display range: chr20:10144984–11144984 [10144984–11144984]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:10644984

number of SNPs plotted: 6306

min P-value: 1.5E–28 [chr20:10985803]

max P-value: 1E0 [chr20:10207009]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.63999	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3790160	EFO_0003923	GCST001482
20	10.64416	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2235811	EFO_0004339	NA
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

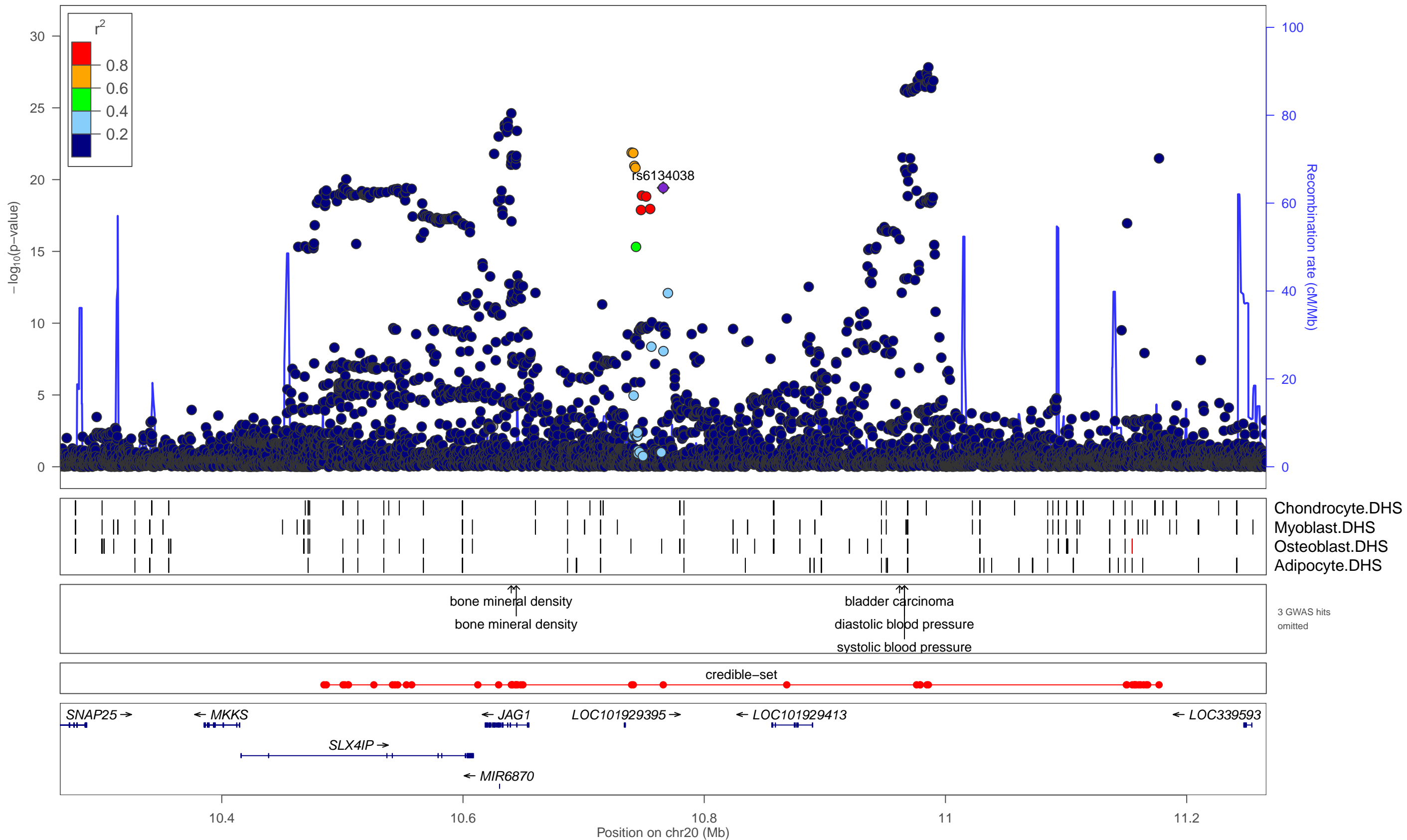
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6039993	20	10.48472	2.0919	credible-set	red
rs113218579	20	10.48667	2.1354	credible-set	red
rs6032894	20	10.50053	2.3129	credible-set	red
rs6074153	20	10.50205	2.2892	credible-set	red
rs6040008	20	10.50474	2.0625	credible-set	red
rs139067448	20	10.54154	2.0031	credible-set	red
rs112777667	20	10.54367	2.1260	credible-set	red
rs78532542	20	10.54583	2.1601	credible-set	red
rs111539884	20	10.54583	2.0004	credible-set	red
rs78119533	20	10.55304	2.1430	credible-set	red
rs77087848	20	10.55747	2.0623	credible-set	red
rs112175375	20	10.61225	13.5999	credible-set	red
rs35308216	20	10.62952	13.5999	credible-set	red
rs3790159	20	10.63992	2.0067	credible-set	red
rs3790160	20	10.63999	2.0715	credible-set	red
rs3790161	20	10.64009	2.2260	credible-set	red
rs6040061	20	10.64031	2.7228	credible-set	red
rs7269017	20	10.64044	2.6289	credible-set	red
rs6040063	20	10.64088	2.7711	credible-set	red
rs33962097	20	10.64096	2.7098	credible-set	red
rs3833513	20	10.64368	2.3200	credible-set	red
rs7267595	20	10.64385	2.6701	credible-set	red
rs2235811	20	10.64416	2.7788	credible-set	red
rs35205996	20	10.73984	3.7117	credible-set	red
rs6134023	20	10.74118	3.2834	credible-set	red
rs41280286	20	10.74207	2.1821	credible-set	red
rs6134038	20	10.76599	2.3372	credible-set	red
rs148801552	20	10.86838	4.4633	credible-set	red
rs2094347	20	10.96873	2.3561	credible-set	red
rs1555958	20	10.97605	2.7773	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6078002	20	10.97901	2.4753	credible-set	red
rs6108796	20	10.97909	2.5076	credible-set	red
20:10984360_T_C	20	10.98436	2.5676	credible-set	red
rs144144720	20	10.98442	2.0499	credible-set	red
rs6074226	20	10.98461	2.7367	credible-set	red
rs1980853	20	10.98544	2.3454	credible-set	red
rs1980854	20	10.98580	3.2564	credible-set	red
rs6078006	20	10.98645	2.1467	credible-set	red
rs6040291	20	10.98995	2.0831	credible-set	red

eBMD SNP INDEX 291



date: Wed Jun 28 21:58:00 2017

build: hg19

display range: chr20:10265986–11265986 [10265986–11265986]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:10765986

number of SNPs plotted: 6514

min P-value: 1.5E-28 [chr20:10985803]

max P-value: 1E0 [chr20:10282537]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.63999	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3790160	EFO_0003923	GCST001482
20	10.64416	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2235811	EFO_0004339	NA
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

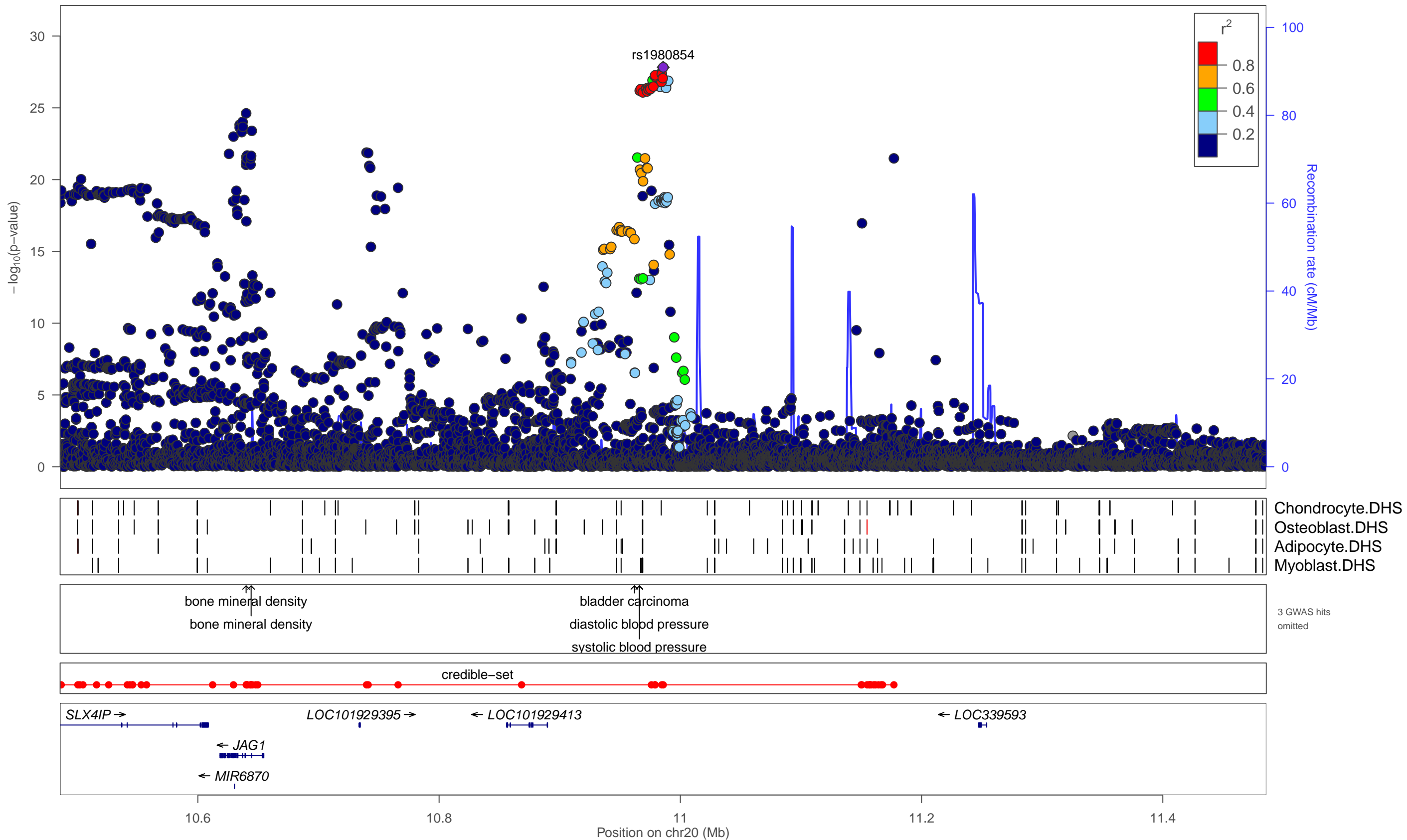
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6039993	20	10.48472	2.1522	credible-set	red
rs113218579	20	10.48667	2.1194	credible-set	red
rs6032894	20	10.50053	2.4659	credible-set	red
rs6074153	20	10.50205	2.4263	credible-set	red
rs6040008	20	10.50474	2.0656	credible-set	red
rs607064	20	10.50499	2.2454	credible-set	red
rs78240786	20	10.52607	2.0149	credible-set	red
rs139067448	20	10.54154	2.0576	credible-set	red
rs112777667	20	10.54367	2.2173	credible-set	red
rs78532542	20	10.54583	2.2697	credible-set	red
rs78119533	20	10.55304	2.1779	credible-set	red
rs77087848	20	10.55747	2.0723	credible-set	red
rs112175375	20	10.61225	13.6136	credible-set	red
rs35308216	20	10.62952	13.6136	credible-set	red
rs3790161	20	10.64009	2.0004	credible-set	red
rs6040061	20	10.64031	2.6749	credible-set	red
rs7269017	20	10.64044	2.4420	credible-set	red
rs6040063	20	10.64088	2.7797	credible-set	red
rs33962097	20	10.64096	2.6657	credible-set	red
rs3833513	20	10.64368	2.1199	credible-set	red
rs7267595	20	10.64385	2.6012	credible-set	red
rs2235811	20	10.64416	2.9071	credible-set	red
rs6040069	20	10.64520	2.1014	credible-set	red
rs3790163	20	10.64795	2.0129	credible-set	red
rs549768142	20	10.64968	2.7408	credible-set	red
rs35205996	20	10.73984	3.8511	credible-set	red
rs6134023	20	10.74118	3.1966	credible-set	red
rs6134038	20	10.76599	2.5863	credible-set	red
rs148801552	20	10.86838	3.3999	credible-set	red
rs1555958	20	10.97605	2.4522	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6078002	20	10.97901	2.2303	credible-set	red
rs6108796	20	10.97909	2.2493	credible-set	red
rs6074226	20	10.98461	2.6917	credible-set	red
rs1980854	20	10.98580	4.0804	credible-set	red
rs6134145	20	11.14997	2.3085	credible-set	red
rs6033042	20	11.15044	2.0261	credible-set	red
rs6134147	20	11.15484	2.1682	credible-set	red
rs6040398	20	11.15655	2.5844	credible-set	red
rs6040399	20	11.15701	2.2477	credible-set	red
rs6040400	20	11.15704	2.2656	credible-set	red
rs2064525	20	11.15808	2.2296	credible-set	red
rs6040404	20	11.16036	2.2417	credible-set	red
rs2024689	20	11.16175	2.2139	credible-set	red
rs6108856	20	11.16429	2.5325	credible-set	red
rs2327342	20	11.16648	2.7112	credible-set	red
rs1972192	20	11.16762	2.6211	credible-set	red
rs34952318	20	11.17705	13.6136	credible-set	red

eBMD SNP INDEX 292



date: Wed Jun 28 21:53:16 2017

build: hg19

display range: chr20:10485803–11485803 [10485803–11485803]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:10985803

number of SNPs plotted: 6394

min P-value: 1.5E-28 [chr20:10985803]

max P-value: 1E0 [chr20:10488882]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.63999	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs3790160	EFO_0003923	GCST001482
20	10.64416	bone mineral density	Zheng HF	15/09/2015	Nat Genet	26367794	rs2235811	EFO_0004339	NA
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

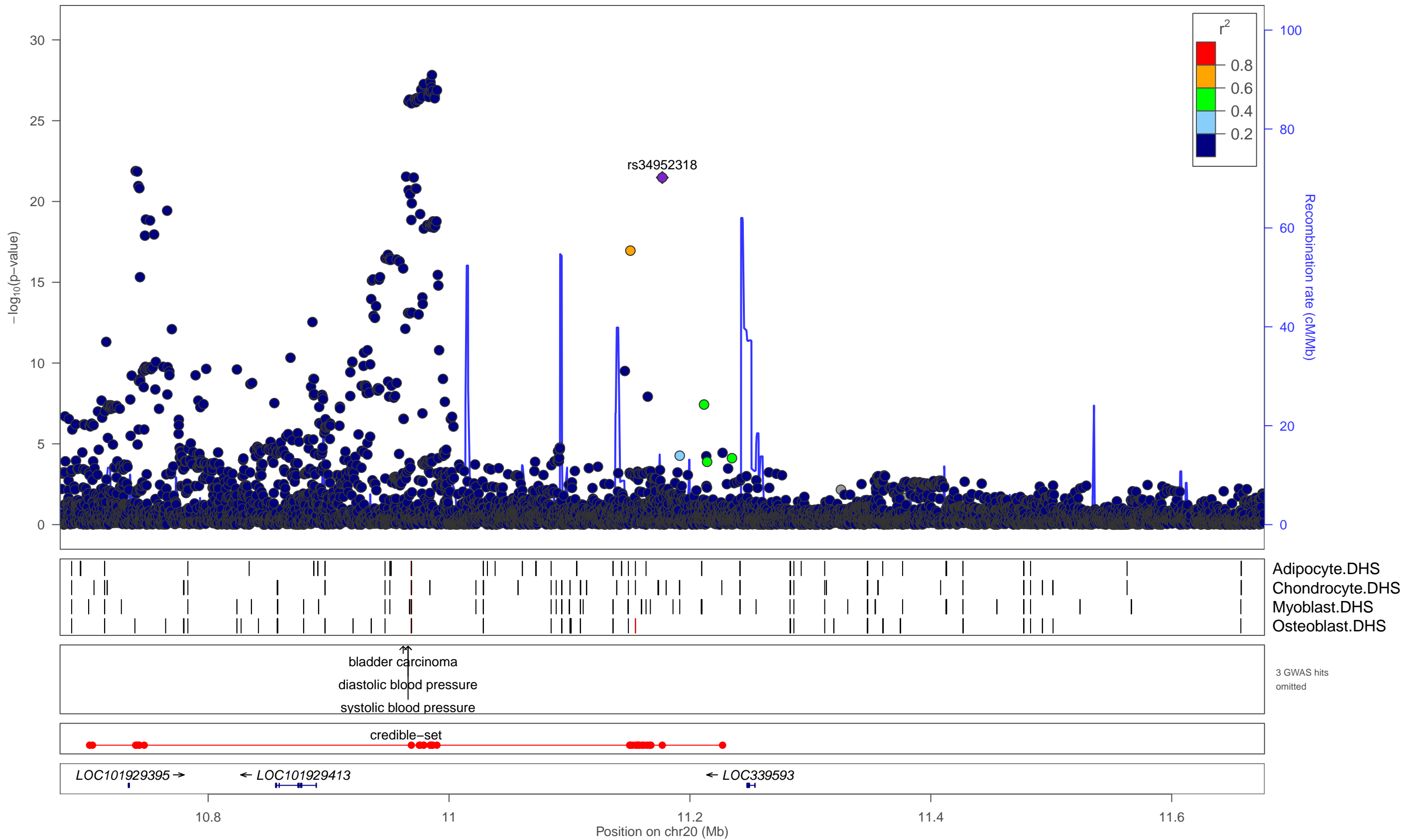
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs113218579	20	10.48667	2.1260	credible-set	red
rs6032894	20	10.50053	2.5273	credible-set	red
rs6074153	20	10.50205	2.4265	credible-set	red
rs6040008	20	10.50474	2.1339	credible-set	red
rs112253955	20	10.51603	2.0313	credible-set	red
rs78240786	20	10.52607	2.0331	credible-set	red
rs139067448	20	10.54154	2.0921	credible-set	red
rs112777667	20	10.54367	2.2522	credible-set	red
rs78532542	20	10.54583	2.2954	credible-set	red
rs111539884	20	10.54583	2.0144	credible-set	red
rs78119533	20	10.55304	2.2080	credible-set	red
rs77087848	20	10.55747	2.0738	credible-set	red
rs112175375	20	10.61225	13.6054	credible-set	red
rs35308216	20	10.62952	13.6054	credible-set	red
rs3790161	20	10.64009	2.0440	credible-set	red
rs6040061	20	10.64031	2.6746	credible-set	red
rs7269017	20	10.64044	2.5802	credible-set	red
rs6040063	20	10.64088	2.7454	credible-set	red
rs33962097	20	10.64096	2.6636	credible-set	red
rs3833513	20	10.64368	2.0298	credible-set	red
rs7267595	20	10.64385	2.5671	credible-set	red
rs2235811	20	10.64416	2.7910	credible-set	red
rs6040069	20	10.64520	2.2304	credible-set	red
rs3790163	20	10.64795	2.0408	credible-set	red
rs549768142	20	10.64968	2.7363	credible-set	red
rs35205996	20	10.73984	3.8068	credible-set	red
rs6134023	20	10.74118	3.2402	credible-set	red
rs6134038	20	10.76599	2.5334	credible-set	red
rs148801552	20	10.86838	3.3894	credible-set	red
rs1555958	20	10.97605	2.4019	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6078002	20	10.97901	2.2672	credible-set	red
rs6108796	20	10.97909	2.2682	credible-set	red
rs6074226	20	10.98461	2.6340	credible-set	red
rs1980854	20	10.98580	4.0814	credible-set	red
rs6134145	20	11.14997	2.2881	credible-set	red
rs6033042	20	11.15044	2.0356	credible-set	red
rs6134147	20	11.15484	2.1570	credible-set	red
rs6040398	20	11.15655	2.5450	credible-set	red
rs6040399	20	11.15701	2.2601	credible-set	red
rs6040400	20	11.15704	2.1967	credible-set	red
rs2064525	20	11.15808	2.2006	credible-set	red
rs6040404	20	11.16036	2.2603	credible-set	red
rs2024689	20	11.16175	2.3212	credible-set	red
rs6108856	20	11.16429	2.5915	credible-set	red
rs2327342	20	11.16648	2.6732	credible-set	red
rs1972192	20	11.16762	2.6152	credible-set	red
rs34952318	20	11.17705	13.6054	credible-set	red

eBMD SNP INDEX 293



date: Wed Jun 28 21:53:16 2017

build: hg19

display range: chr20:10677055–11677055 [10677055–11677055]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:11177055

number of SNPs plotted: 6453

min P-value: 1.5E–28 [chr20:10985803]

max P-value: 1E0 [chr20:10846154]

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	10.96194	bladder carcinoma	Rafnar T	26/05/2014	Hum Mol Genet	24861552	rs62185668	EFO_0000292	GCST002460
20	10.96600	diastolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006336	GCST002631
20	10.96600	systolic blood pressure	Lu X	23/09/2014	Hum Mol Genet	25249183	rs1887320	EFO_0006335	GCST002630
20	10.96903	diastolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006336	GCST001228
20	10.96903	mean arterial pressure	Wain LV	11/09/2011	Nat Genet	21909110	rs1327235	EFO_0006340	GCST001236
20	10.96903	systolic blood pressure	Ehret GB	11/09/2011	Nature	21909115	rs1327235	EFO_0006335	GCST001227

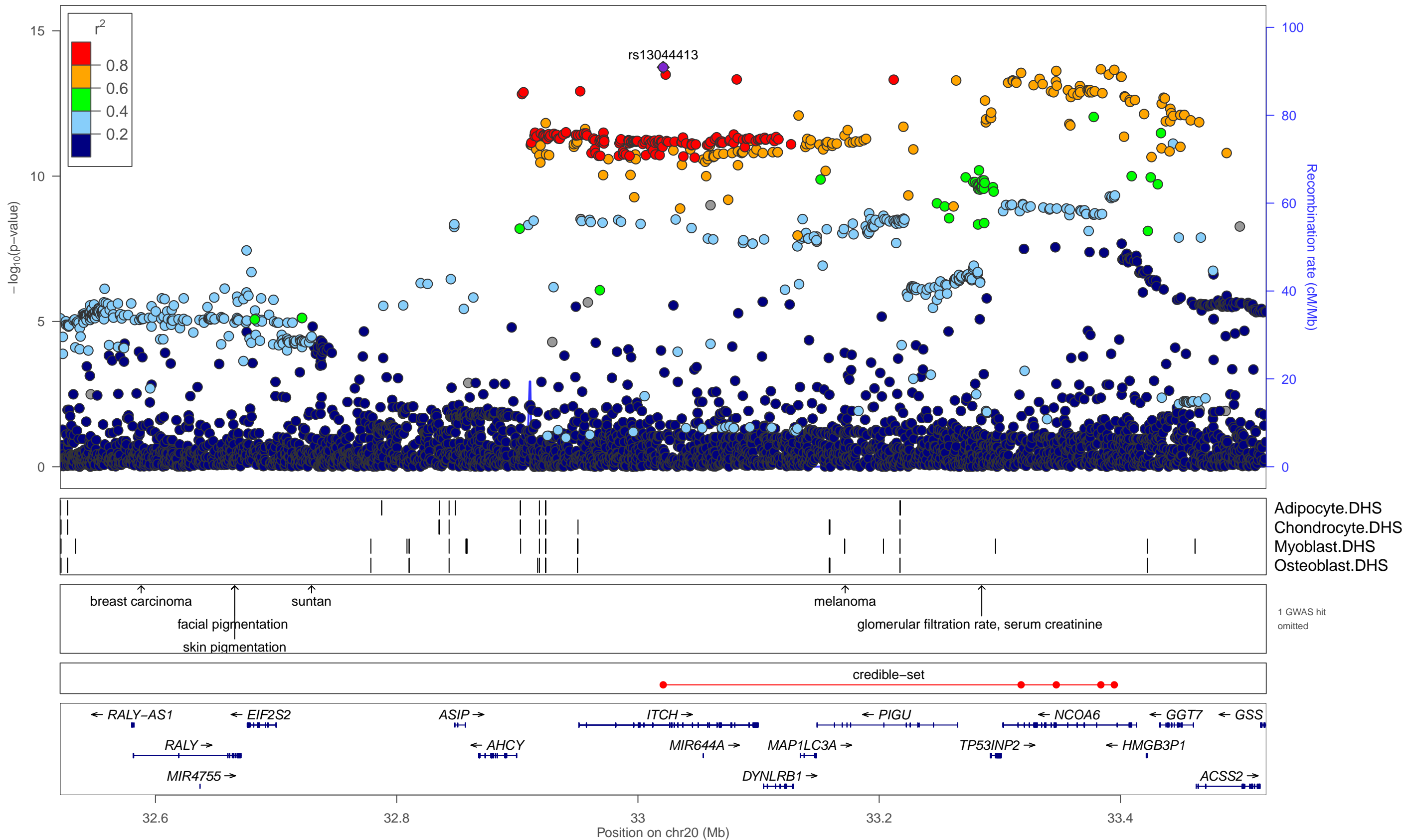
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6040107	20	10.70159	2.7036	credible-set	red
rs2423515	20	10.70399	2.5132	credible-set	red
rs35205996	20	10.73984	3.6247	credible-set	red
rs6134023	20	10.74118	3.4172	credible-set	red
rs41280286	20	10.74207	2.2697	credible-set	red
rs77272398	20	10.74293	2.1461	credible-set	red
rs543944827	20	10.74697	3.1394	credible-set	red
rs2094347	20	10.96873	2.8573	credible-set	red
rs6077999	20	10.97528	2.0026	credible-set	red
rs1555958	20	10.97605	3.1853	credible-set	red
rs6078002	20	10.97901	2.5563	credible-set	red
rs6108796	20	10.97909	2.6637	credible-set	red
rs144144720	20	10.98442	2.2580	credible-set	red
rs6074226	20	10.98461	2.8159	credible-set	red
rs1980853	20	10.98544	2.4528	credible-set	red
rs1980854	20	10.98580	3.3831	credible-set	red
rs6078006	20	10.98645	2.0193	credible-set	red
rs6040291	20	10.98995	2.0168	credible-set	red
rs6134145	20	11.14997	2.2620	credible-set	red
rs6033042	20	11.15044	2.1279	credible-set	red
rs6040392	20	11.15221	2.0930	credible-set	red
rs6134147	20	11.15484	2.2140	credible-set	red
rs6040398	20	11.15655	2.4219	credible-set	red
rs6040399	20	11.15701	2.1975	credible-set	red
rs6040400	20	11.15704	2.2437	credible-set	red
rs2064525	20	11.15808	2.2124	credible-set	red
rs6040404	20	11.16036	2.2501	credible-set	red
rs2024689	20	11.16175	2.2435	credible-set	red
rs6108856	20	11.16429	2.4472	credible-set	red
rs2327342	20	11.16648	2.5307	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs1972192	20	11.16762	2.5024	credible-set	red
rs34952318	20	11.17705	13.6096	credible-set	red
rs55716188	20	11.22711	2.0201	credible-set	red

eBMD SNP INDEX 294



date: Wed Jun 28 21:53:15 2017

build: hg19

display range: chr20:32520957–33520957 [32520957–33520957]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:33020957

number of SNPs plotted: 4161

min P-value: 1.8E-14 [chr20:33020957]

max P-value: 1E0 [chr20:32914103]

omitted GWAS Hits: chr20:32.729444–suntan

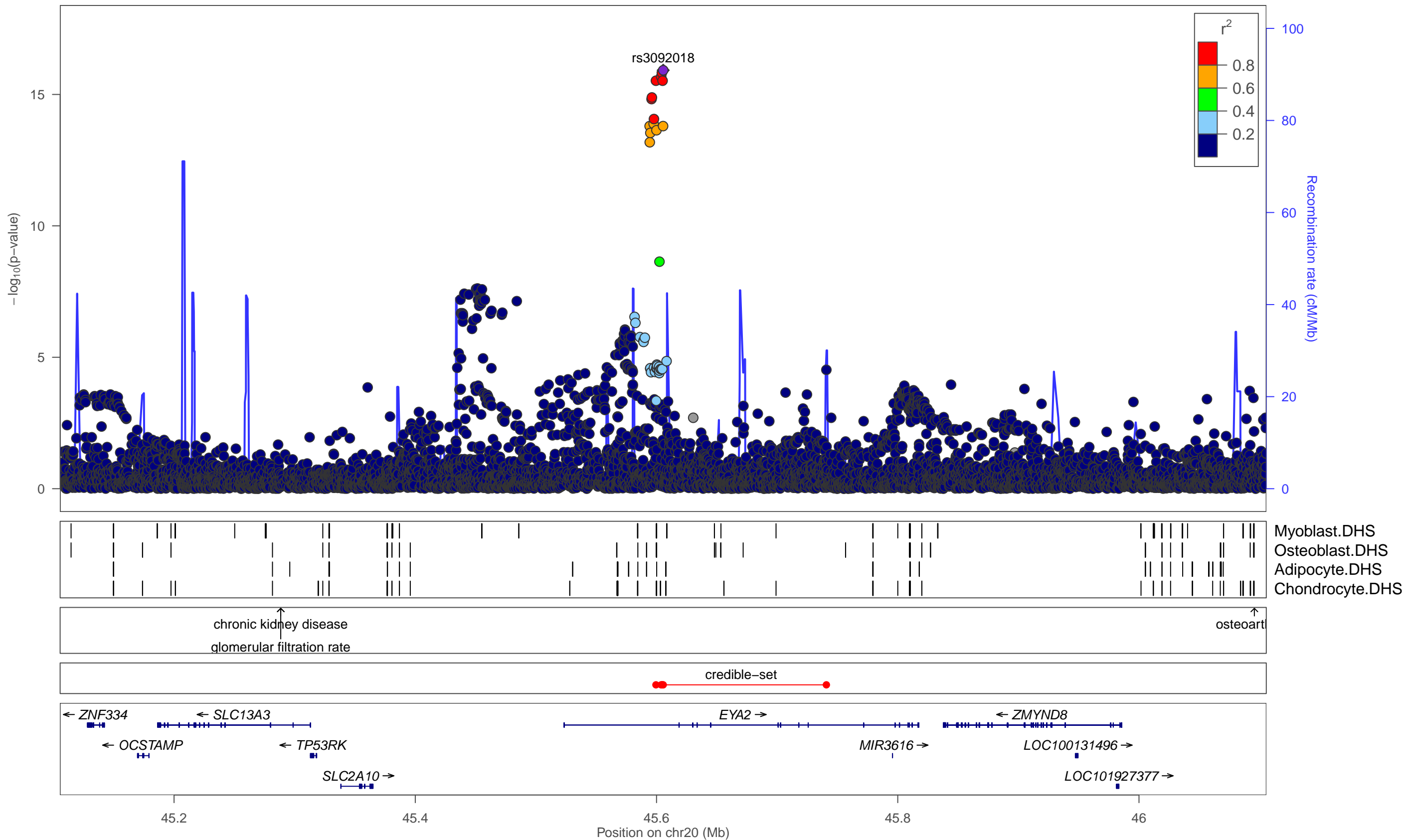
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	32.58810	breast carcinoma	Siddiq A	13/09/2012	Hum Mol Genet	22976474	rs2284378	EFO_0000305	GCST001683
20	32.66575	facial pigmentation	Jacobs LC	23/02/2015	J Invest Dermatol	25705849	rs6059655	EFO_0006942	GCST002785
20	32.66575	skin pigmentation	Liu F	12/05/2015	Hum Genet	25963972	rs6059655	EFO_0003784	GCST002906
20	32.66575	squamous cell carcinoma	Asgari MM	29/01/2016	J Invest Dermatol	26829030	rs6059655	EFO_0000707	GCST003327
20	32.72944	suntan	Zhang M	1/04/2013	Hum Mol Genet	23548203	rs4911414	EFO_0004279	GCST001939
20	33.17177	melanoma	Brown KM	18/05/2008	Nat Genet	18488026	rs910873	EFO_0000756	GCST000198
20	33.28505	glomerular filtration rate, serum creatinine	Pattaro C	21/01/2016	Nat Commun	26831199	rs6088580	EFO_0005208, EFO_0004518	GCST003372

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13044413	20	33.02096	2.2475	credible-set	red
rs6087623	20	33.31766	2.0709	credible-set	red
rs11476500	20	33.34683	2.1427	credible-set	red
rs569229378	20	33.38381	2.1936	credible-set	red
rs55753039	20	33.39494	2.1718	credible-set	red

eBMD SNP INDEX 295



date: Wed Jun 28 21:53:17 2017

build: hg19

display range: chr20:45105548–46105548 [45105548–46105548]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr20:45605548

number of SNPs plotted: 6045

min P-value: 1.2E-16 [chr20:45605548]

max P-value: 1E0 [chr20:45211089]

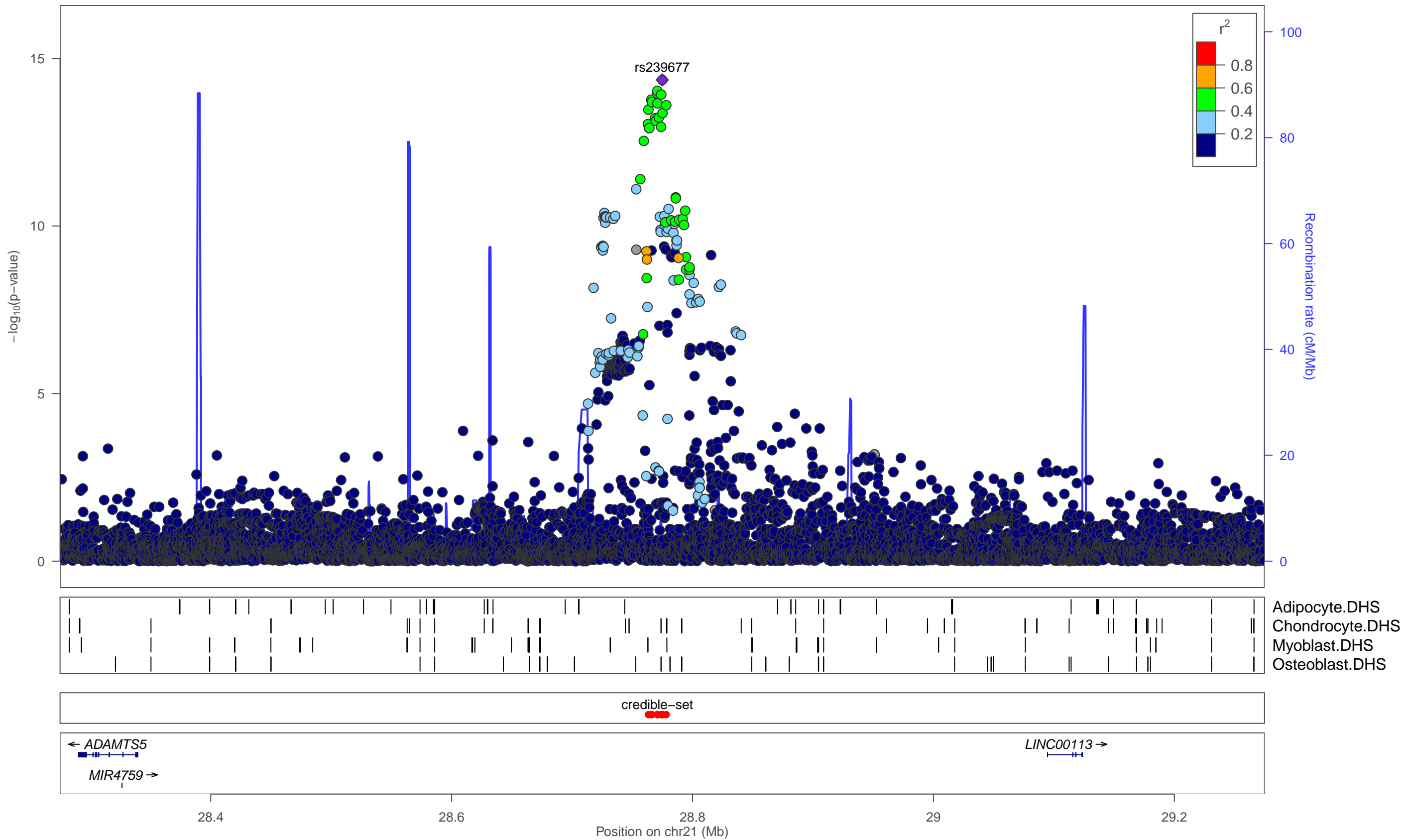
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
20	45.28845	chronic kidney disease	Nanayakkara S	18/12/2013	J Occup Health	24351856	rs6066043	EFO_0003884	GCST002313
20	45.28845	glomerular filtration rate	Nanayakkara S	18/12/2013	J Occup Health	24351856	rs6066043	EFO_0005208	GCST002314
20	46.09565	osteoarthritis	Evangelou E	29/08/2013	Ann Rheum Dis	23989986	rs6094710	EFO_0002506	GCST002155

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs6066145	20	45.59951	2.7017	credible-set	red
rs1150442	20	45.60384	2.8937	credible-set	red
rs6063051	20	45.60442	3.0803	credible-set	red
rs78853648	20	45.60503	2.6983	credible-set	red
rs3092018	20	45.60555	3.2253	credible-set	red
rs1538911	20	45.74081	2.5154	credible-set	red

eBMD SNP INDEX 296



date: Wed Jun 28 21:52:47 2017

build: hg19

display range: chr21:28274869–29274869 [28274869–29274869]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:28774869

number of SNPs plotted: 6919

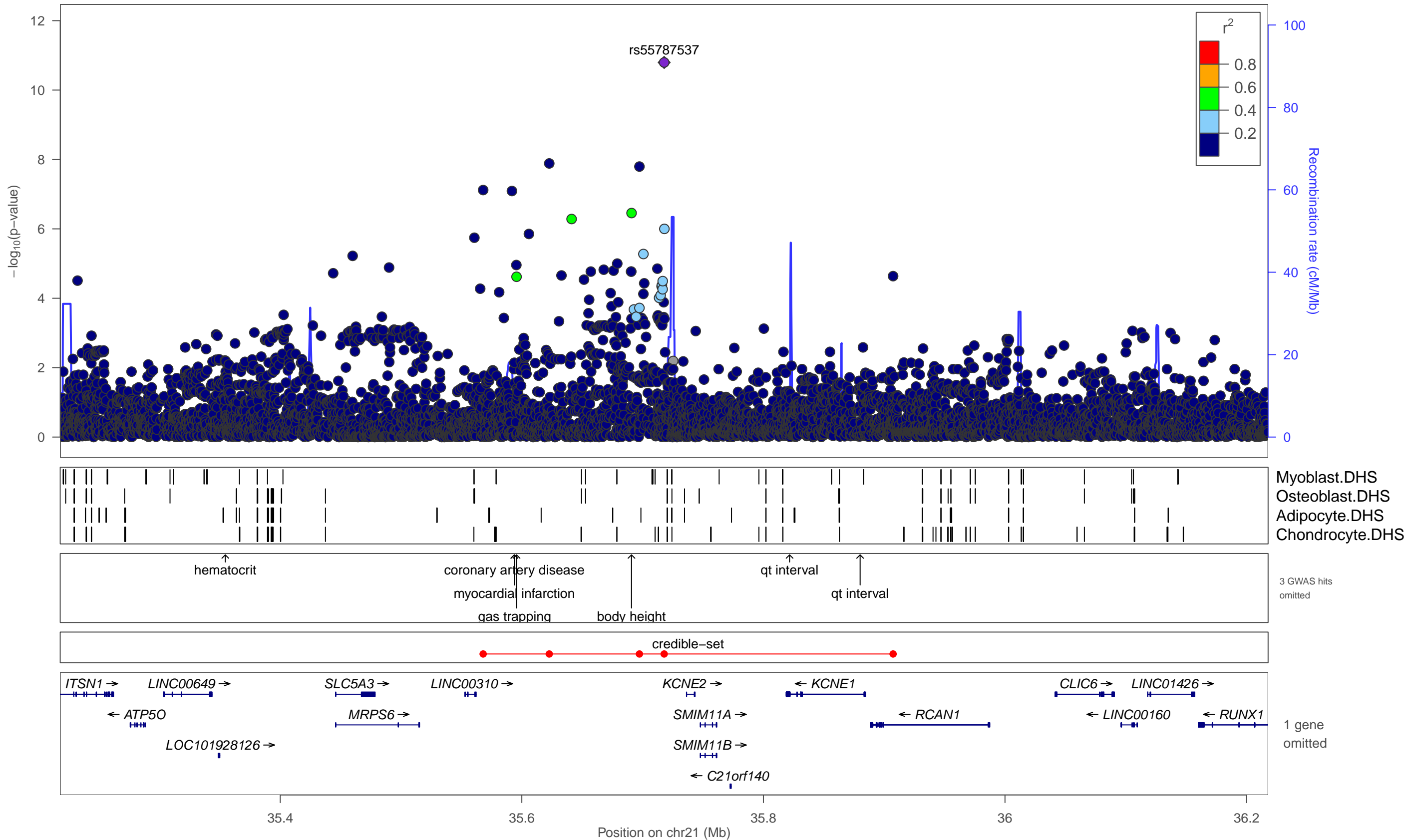
min P-value: 4.4E-15 [chr21:28774869]

max P-value: 1E0 [chr21:28340879]

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs9980456	21	28.76340	2.2050	credible-set	red
rs9975887	21	28.76573	2.5133	credible-set	red
rs1376928	21	28.76626	2.4430	credible-set	red
rs2830907	21	28.77061	2.7237	credible-set	red
rs2000760	21	28.77080	2.8028	credible-set	red
rs2000761	21	28.77090	2.3990	credible-set	red
rs2830913	21	28.77402	2.6441	credible-set	red
rs239677	21	28.77487	3.1525	credible-set	red
rs62223497	21	28.77508	2.0524	credible-set	red
rs2830918	21	28.77815	2.3105	credible-set	red

eBMD SNP INDEX 297



date: Wed Jun 28 21:52:46 2017

build: hg19

display range: chr21:35217837–36217837 [35217837–36217837]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:35717837

number of SNPs plotted: 6250

min P-value: 1.6E-11 [chr21:35717837]

max P-value: 1E0 [chr21:35245479]

omitted Genes: KCNE1B

omitted GWAS Hits: chr21:35.690786–body height, chr21:35.82168–qt interval

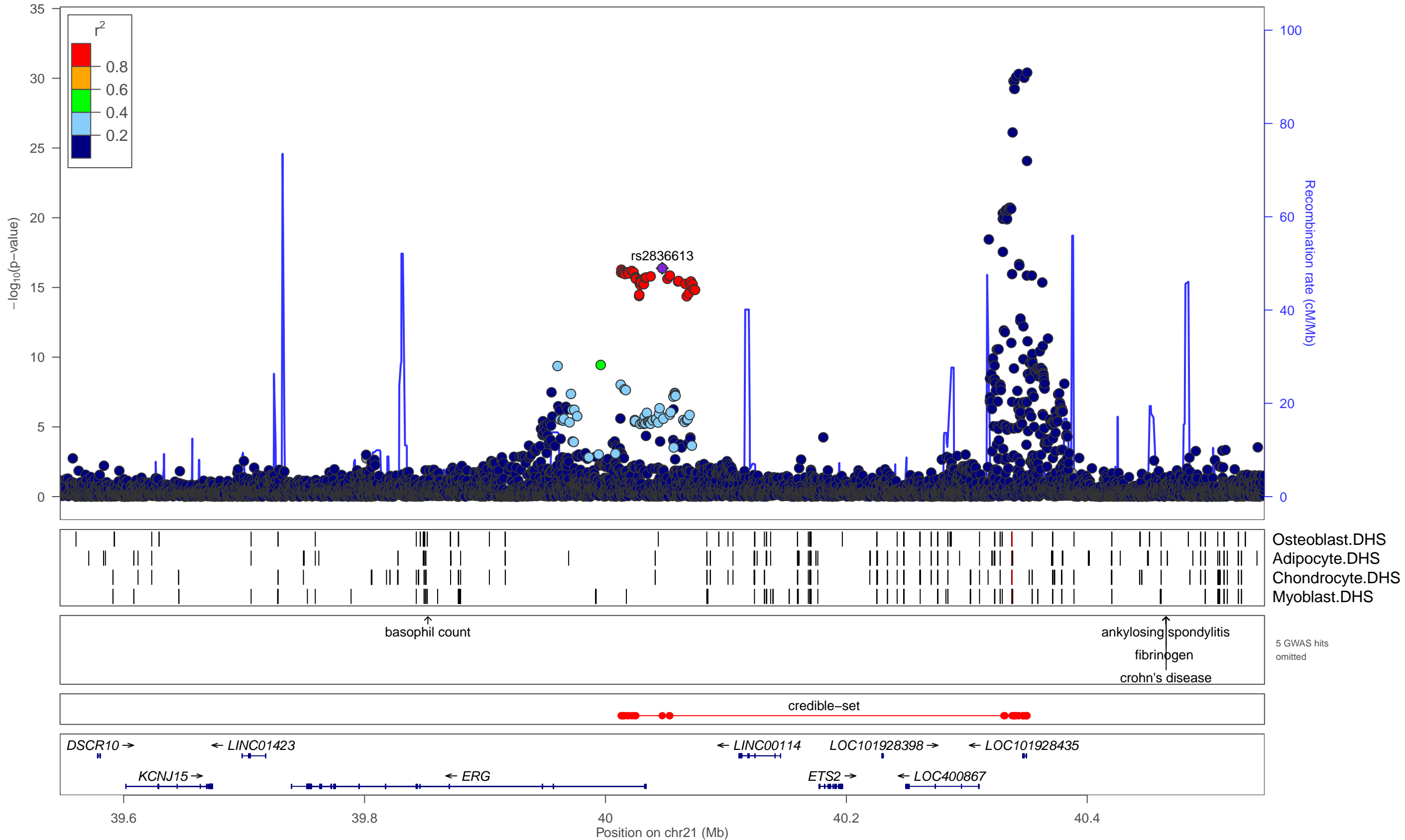
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
21	35.35452	hematocrit	van der Harst P	5/12/2012	Nature	23222517	rs2032314	EFO_0004348	GCST001765
21	35.59383	coronary artery disease	Nikpay M	7/09/2015	Nat Genet	26343387	rs28451064	EFO_0000378	GCST003116
21	35.59383	myocardial infarction	Nikpay M	7/09/2015	Nat Genet	26343387	rs28451064	EFO_0000612	GCST003117
21	35.59564	gas trapping	Cho MH	1/06/2015	Am J Respir Crit Care Med	26030696	rs55706246	EFO_0007628	GCST002942
21	35.59913	coronary heart disease	Dichgans M	21/11/2013	Stroke	24262325	rs9982601	EFO_0001645	GCST002289
21	35.59913	coronary heart disease	Schunkert H	6/03/2011	Nat Genet	21378990	rs9982601	EFO_0001645	GCST000998
21	35.59913	myocardial infarction	Kathiresan S	8/02/2009	Nat Genet	19198609	rs9982601	EFO_0000612	GCST000340
21	35.65224	pulmonary function , fev/fec ratio	Soler Artigas M	25/09/2011	Nat Genet	21946350	rs9978142	EFO_0003892, EFO_0004713	GCST001248
21	35.69079	body height	Lango Allen H	29/09/2010	Nature	20881960	rs2834442	EFO_0004339	GCST000817
21	35.82168	qt interval	Arking DE	22/06/2014	Nat Genet	24952745	rs1805128	EFO_0004682	GCST002500
21	35.88007	qt interval	Holm H	10/01/2010	Nat Genet	20062063	rs727957	EFO_0004682	GCST000561

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs79728480	21	35.56799	2.9895	credible-set	red
rs62213704	21	35.62271	3.6110	credible-set	red
rs56794727	21	35.69736	2.1779	credible-set	red
rs55787537	21	35.71784	6.7881	credible-set	red
rs184860228	21	35.90737	2.2380	credible-set	red

eBMD SNP INDEX 298



date: Wed Jun 28 21:52:50 2017

build: hg19

display range: chr21:39547176–40547176 [39547176–40547176]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:40047176

number of SNPs plotted: 6810

min P-value: 3.9E-31 [chr21:40350120]

max P-value: 1E0 [chr21:39560433]

omitted GWAS Hits: NA, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
21	39.85255	basophil count	Okada Y	30/06/2011	PLoS Genet	21738478	rs7275212	EFO_0005090	GCST001134
21	40.46518	ankylosing spondylitis	Reveille JD	10/01/2010	Nat Genet	20062062	rs2242944	EFO_0003898	GCST000563
21	40.46551	fibrinogen	Sabater-Lleal M	22/08/2013	Circulation	23969696	rs4817986	EFO_0004623	GCST002147
21	40.46553	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836878	EFO_0000384	GCST003044
21	40.46553	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs2836878	EFO_0003767	GCST001725
21	40.46553	inflammatory bowel disease	Kugathasan S	31/08/2008	Nat Genet	18758464	rs2836878	EFO_0003767	GCST000225
21	40.46553	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs2836878	EFO_0000729	GCST000964
21	40.46553	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836878	EFO_0000729	GCST003045
21	40.46553	ulcerative colitis	McGovern DP	14/03/2010	Nat Genet	20228799	rs2836878	EFO_0000729	GCST000624
21	40.46647	fibrinogen	de Vries PS	10/11/2015	Hum Mol Genet	26561523	rs9808651	EFO_0004623	GCST003194
21	40.46674	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836883	EFO_0003767	GCST003043
21	40.46952	ankylosing spondylitis	Evans DM	10/07/2011	Nat Genet	21743469	rs378108	EFO_0003898	GCST001149

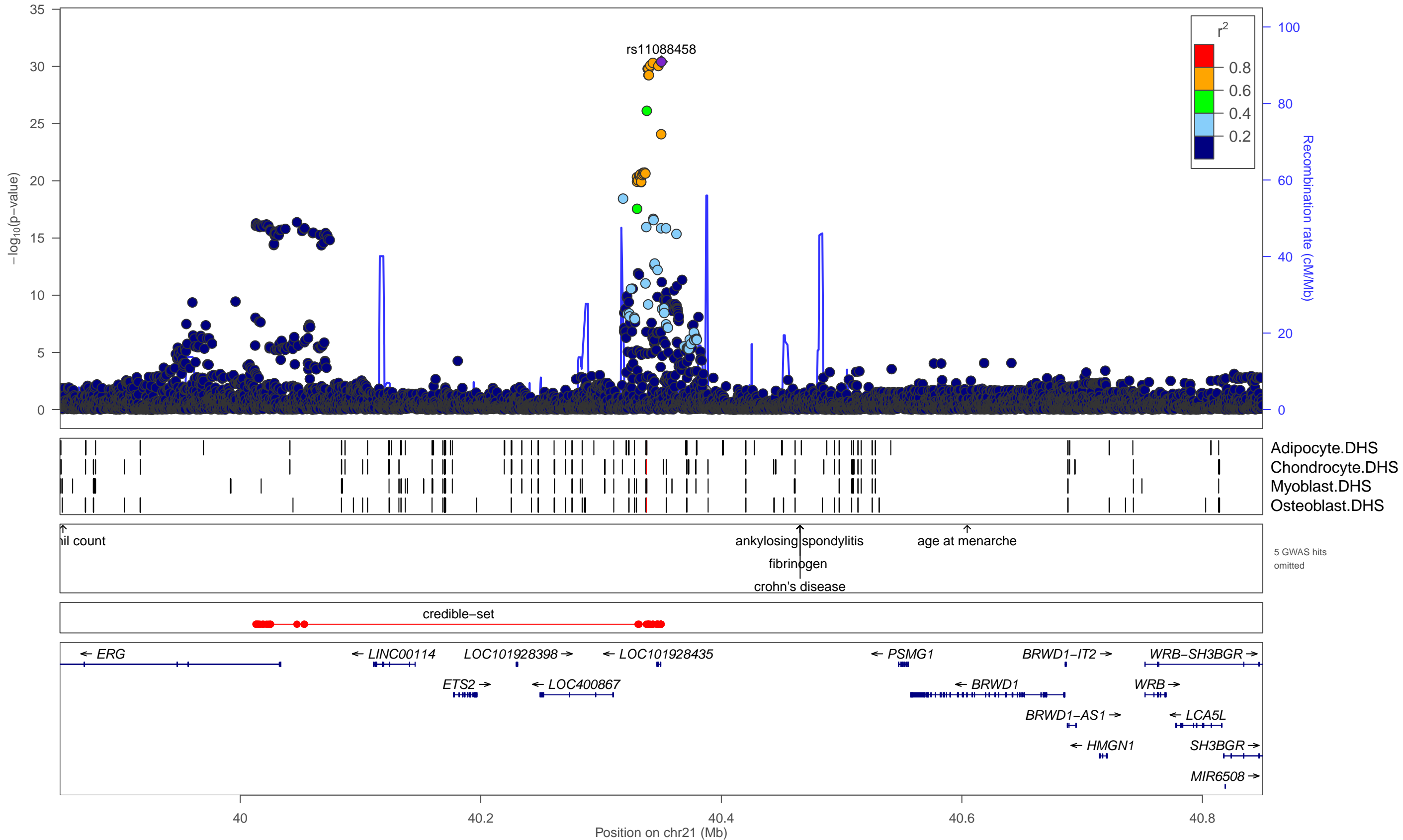
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs460843	21	40.01306	2.3752	credible-set	red
rs458783	21	40.01322	2.5961	credible-set	red
rs6147506	21	40.01439	2.4430	credible-set	red
rs463269	21	40.01444	2.3742	credible-set	red
rs460947	21	40.01528	2.2810	credible-set	red
rs463501	21	40.01629	2.2464	credible-set	red
rs465327	21	40.01847	2.3684	credible-set	red
rs461592	21	40.01934	2.2969	credible-set	red
rs465004	21	40.02185	2.4931	credible-set	red
rs463530	21	40.02343	2.3528	credible-set	red
rs459813	21	40.02483	2.2897	credible-set	red
rs461488	21	40.02525	2.1520	credible-set	red
rs2836613	21	40.04718	2.5394	credible-set	red
rs2836620	21	40.05308	2.2172	credible-set	red
rs6517476	21	40.05346	2.2453	credible-set	red
rs12165276	21	40.33077	2.9590	credible-set	red
rs9980120	21	40.33161	2.7934	credible-set	red
rs8133475	21	40.33763	2.4655	credible-set	red
rs9980072	21	40.33882	2.5973	credible-set	red
rs2836789	21	40.33899	2.5968	credible-set	red
rs10211935	21	40.33952	2.6000	credible-set	red
rs2836790	21	40.33973	2.0132	credible-set	red
rs11280751	21	40.34100	2.8726	credible-set	red
rs9982800	21	40.34300	2.4858	credible-set	red
rs9982895	21	40.34309	3.1833	credible-set	red
rs9980681	21	40.34629	2.4329	credible-set	red
rs9981682	21	40.34652	2.4347	credible-set	red
rs9983903	21	40.34714	2.4848	credible-set	red
rs2836800	21	40.34768	2.9978	credible-set	red
rs8129750	21	40.34949	2.5181	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10854393	21	40.34960	2.5132	credible-set	red
rs10854394	21	40.34977	2.4775	credible-set	red
rs10854395	21	40.34988	2.4881	credible-set	red
rs10745026	21	40.35000	2.6838	credible-set	red

eBMD SNP INDEX 299



date: Wed Jun 28 21:52:48 2017

build: hg19

display range: chr21:39850120–40850120 [39850120–40850120]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:40350120

number of SNPs plotted: 6692

min P-value: 3.9E-31 [chr21:40350120]

max P-value: 1E0 [chr21:39877324]

omitted GWAS Hits: chr21:40.604429–age at menarche, NA

omitted GWAS Hits: NA, NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
21	39.85255	basophil count	Okada Y	30/06/2011	PLoS Genet	21738478	rs7275212	EFO_0005090	GCST001134
21	40.46518	ankylosing spondylitis	Reveille JD	10/01/2010	Nat Genet	20062062	rs2242944	EFO_0003898	GCST000563
21	40.46551	fibrinogen	Sabater-Lleal M	22/08/2013	Circulation	23969696	rs4817986	EFO_0004623	GCST002147
21	40.46553	crohn's disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836878	EFO_0000384	GCST003044
21	40.46553	inflammatory bowel disease	Jostins L	1/11/2012	Nature	23128233	rs2836878	EFO_0003767	GCST001725
21	40.46553	inflammatory bowel disease	Kugathasan S	31/08/2008	Nat Genet	18758464	rs2836878	EFO_0003767	GCST000225
21	40.46553	ulcerative colitis	Anderson CA	6/02/2011	Nat Genet	21297633	rs2836878	EFO_0000729	GCST000964
21	40.46553	ulcerative colitis	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836878	EFO_0000729	GCST003045
21	40.46553	ulcerative colitis	McGovern DP	14/03/2010	Nat Genet	20228799	rs2836878	EFO_0000729	GCST000624
21	40.46647	fibrinogen	de Vries PS	10/11/2015	Hum Mol Genet	26561523	rs9808651	EFO_0004623	GCST003194
21	40.46674	inflammatory bowel disease	Liu JZ	20/07/2015	Nat Genet	26192919	rs2836883	EFO_0003767	GCST003043
21	40.46952	ankylosing spondylitis	Evans DM	10/07/2011	Nat Genet	21743469	rs378108	EFO_0003898	GCST001149
21	40.60443	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs2836950	EFO_0004703	GCST002541

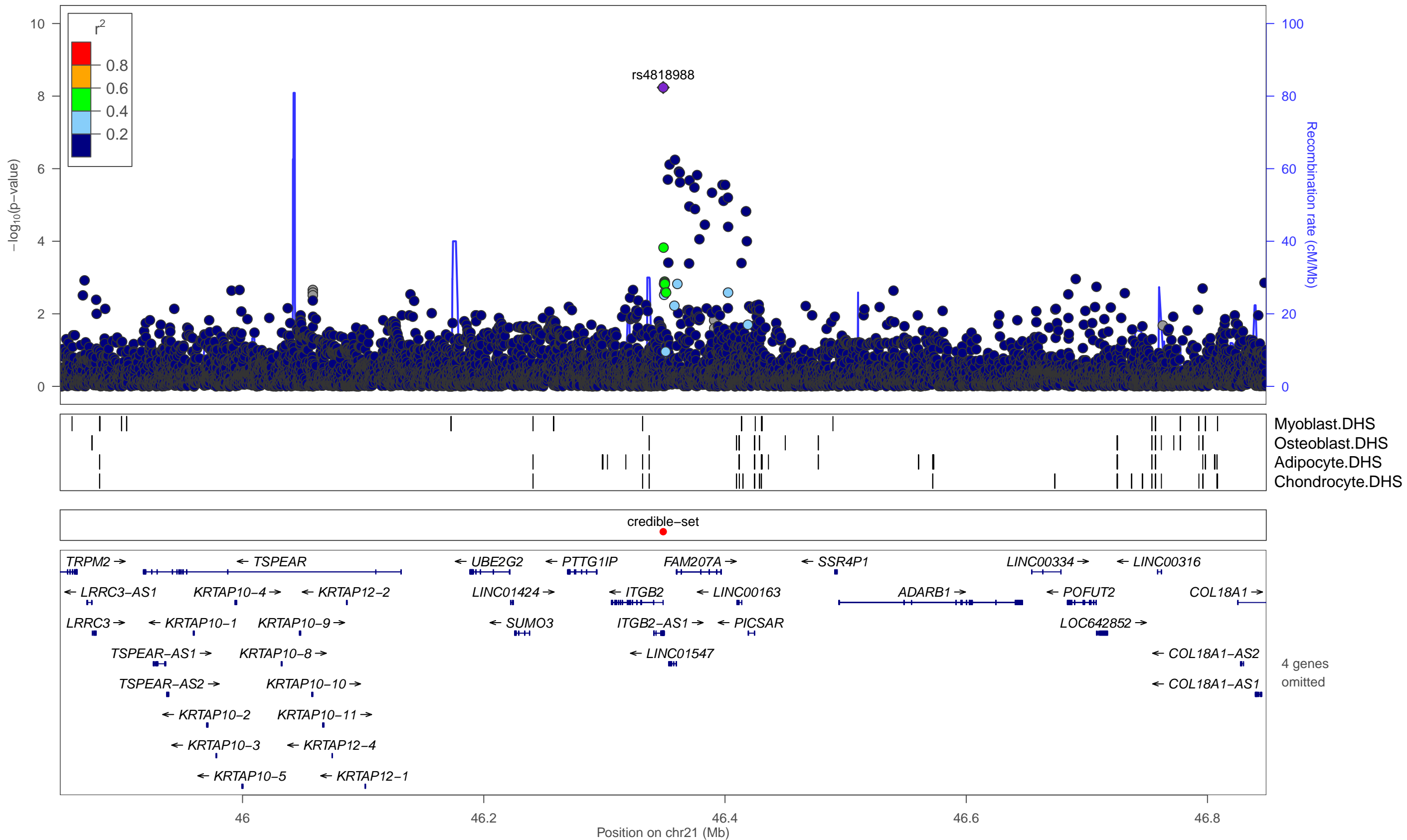
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs460843	21	40.01306	2.3503	credible-set	red
rs458783	21	40.01322	2.5884	credible-set	red
rs6147506	21	40.01439	2.4293	credible-set	red
rs463269	21	40.01444	2.3581	credible-set	red
rs460947	21	40.01528	2.2682	credible-set	red
rs463501	21	40.01629	2.2398	credible-set	red
rs465327	21	40.01847	2.3601	credible-set	red
rs461592	21	40.01934	2.2903	credible-set	red
rs465004	21	40.02185	2.4743	credible-set	red
rs463530	21	40.02343	2.3406	credible-set	red
rs459813	21	40.02483	2.2838	credible-set	red
rs461488	21	40.02525	2.1486	credible-set	red
rs2836613	21	40.04718	2.5439	credible-set	red
rs2836620	21	40.05308	2.2086	credible-set	red
rs6517476	21	40.05346	2.2458	credible-set	red
rs12165276	21	40.33077	2.9418	credible-set	red
rs9980120	21	40.33161	2.7882	credible-set	red
rs8133475	21	40.33763	2.4643	credible-set	red
rs9980072	21	40.33882	2.5922	credible-set	red
rs2836789	21	40.33899	2.5895	credible-set	red
rs10211935	21	40.33952	2.5942	credible-set	red
rs2836790	21	40.33973	2.0121	credible-set	red
rs11280751	21	40.34100	2.8732	credible-set	red
rs9982800	21	40.34300	2.4803	credible-set	red
rs9982895	21	40.34309	3.1658	credible-set	red
rs9980681	21	40.34629	2.4337	credible-set	red
rs9981682	21	40.34652	2.4259	credible-set	red
rs9983903	21	40.34714	2.4883	credible-set	red
rs2836800	21	40.34768	2.9857	credible-set	red
rs8129750	21	40.34949	2.4972	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs10854393	21	40.34960	2.5044	credible-set	red
rs10854394	21	40.34977	2.4724	credible-set	red
rs10854395	21	40.34988	2.4764	credible-set	red
rs10745026	21	40.35000	2.6866	credible-set	red

eBMD SNP INDEX 300



date: Wed Jun 28 21:52:18 2017

build: hg19

display range: chr21:45848764–46848764 [45848764–46848764]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr21:46348764

number of SNPs plotted: 8409

min P-value: 5.8E-9 [chr21:46348764]

max P-value: 1E0 [chr21:45849923]

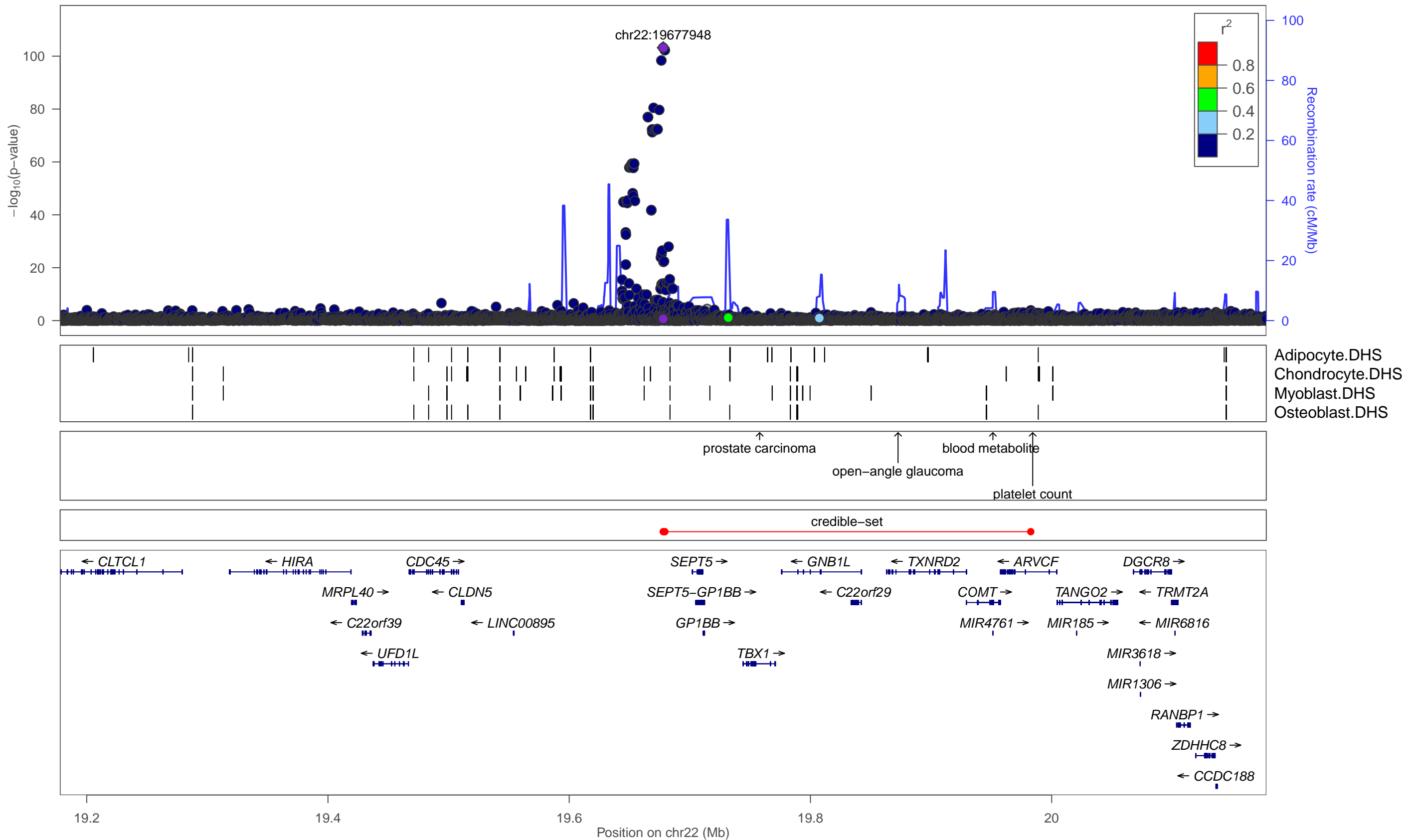
omitted Genes: KRTAP10-6, KRTAP10-7, KRTAP12-3

omitted Genes: KRTAP10-12

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs4818988	21	46.34876	4.9696	credible-set	red

eBMD SNP INDEX 301



date: Wed Jun 28 16:38:11 2017

build: hg19

display range: chr22:19177948–20177948 [19177948–20177948]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:19677948

number of SNPs plotted: 7044

min P-value: 6.2E-104 [chr22:19677948]

max P-value: 1E0 [chr22:19207346]

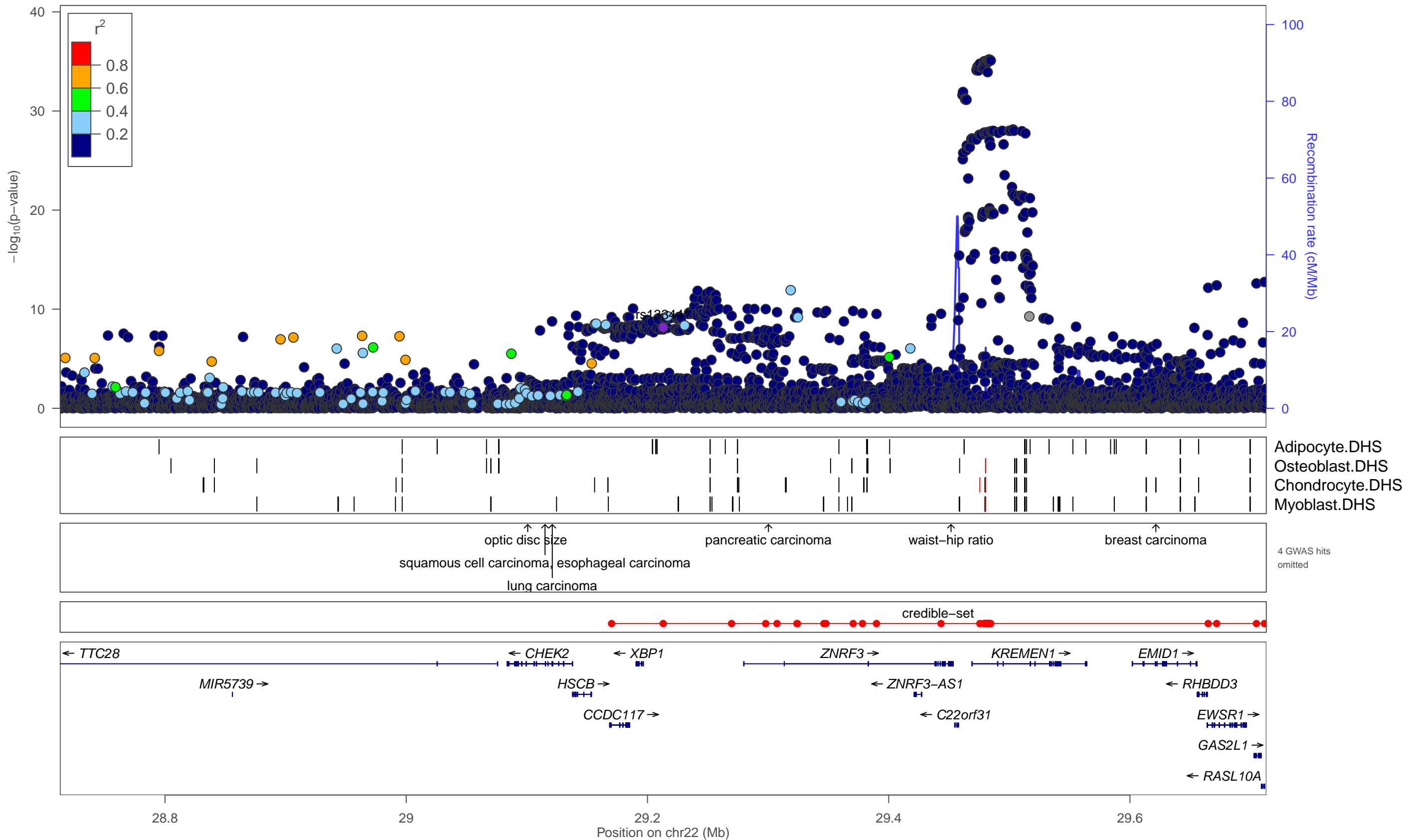
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
22	19.75789	prostate carcinoma	Al Olama AA	14/09/2014	Nat Genet	25217961	rs2238776	EFO_0001663	GCST002606
22	19.87264	open-angle glaucoma	Cooke Bailey JN	11/01/2016	Nat Genet	26752265	rs35934224	EFO_0004190	GCST003342
22	19.95127	blood metabolite	Shin SY	11/05/2014	Nat Genet	24816252	rs4680	EFO_0005664	GCST002443
22	19.98428	platelet count	Gieger C	30/11/2011	Nature	22139419	rs1034566	EFO_0004309	GCST001337

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
22:19677948_CG_C	22	19.67795	4.6017	credible-set	red
rs9606139	22	19.67930	2.6910	credible-set	red
rs75767932	22	19.98268	2.5867	credible-set	red

eBMD SNP INDEX 302



date: Wed Jun 28 21:52:00 2017

build: hg19

display range: chr22:28713054–29713054 [28713054–29713054]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:29213054

number of SNPs plotted: 5579

min P-value: 6.3E–36 [chr22:29483060]

max P-value: 1E0 [chr22:28713379]

omitted GWAS Hits: chr22:29.300306–pancreatic carcinoma, chr22:29.451671–waist–hip ratio

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
22	29.10071	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1547014	EFO_0004832	GCST000700
22	29.10071	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1547014	EFO_0004832	GCST002626
22	29.11507	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs4822983	EFO_0000707, EFO_0002916	GCST001674
22	29.12109	lung carcinoma	Wang Y	1/06/2014	Nat Genet	24880342	rs17879961	EFO_0001071	GCST002466
22	29.12109	squamous cell carcinoma	Wang Y	1/06/2014	Nat Genet	24880342	rs17879961	EFO_0000707	GCST002466
22	29.13001	esophageal carcinoma	Abnet CC	22/08/2010	Nat Genet	20729852	rs738722	EFO_0002916	GCST000777
22	29.13030	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1033667	EFO_0006940	GCST002762
22	29.19267	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs2239815	EFO_0000707, EFO_0002916	GCST001674
22	29.30031	pancreatic carcinoma	Wolpin BM	3/08/2014	Nat Genet	25086665	rs16986825	EFO_0002618	GCST002553
22	29.45167	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs4823006	EFO_0004343	GCST000829
22	29.62148	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs132390	EFO_0000305	GCST001937

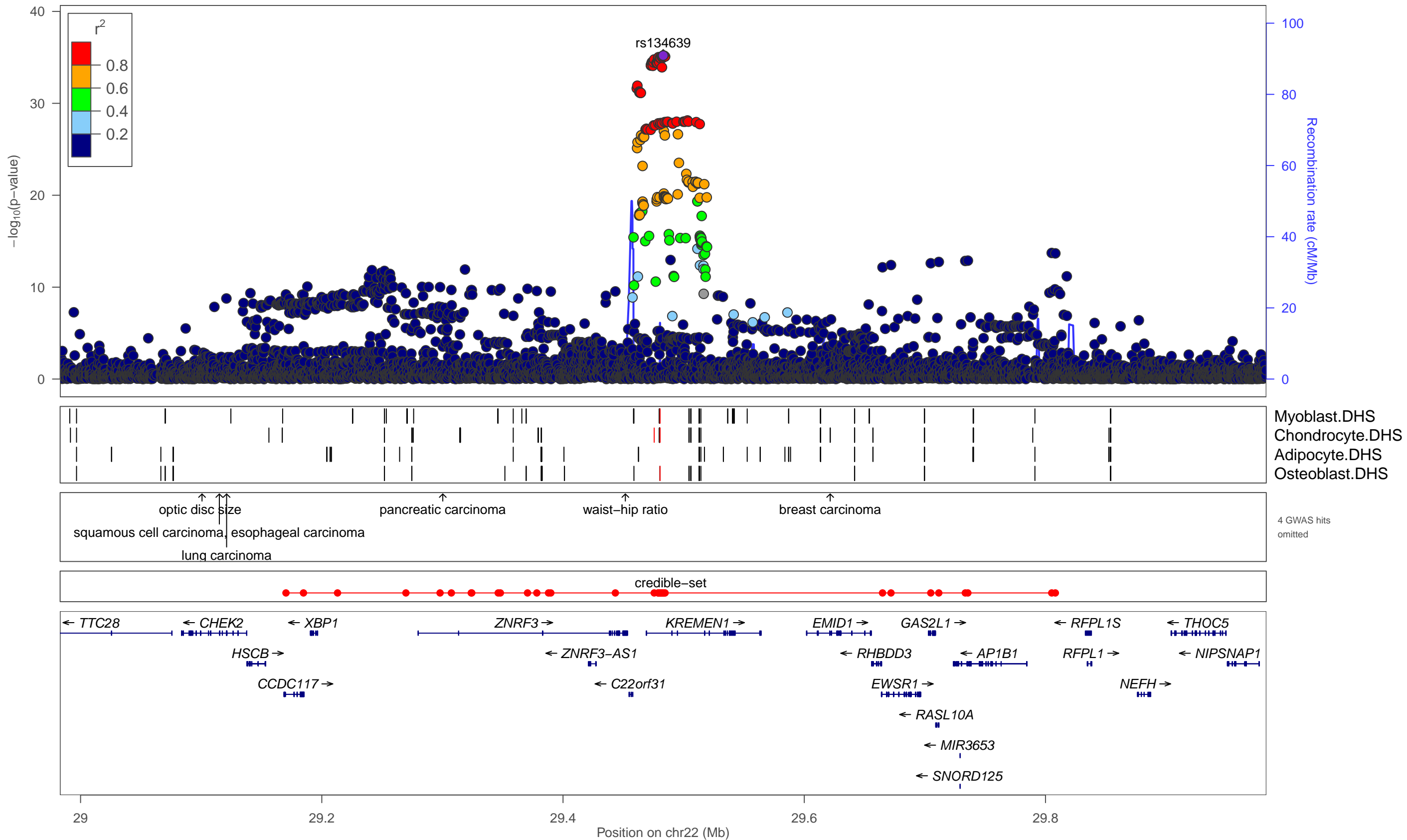
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs577325660	22	29.17030	2.0439	credible-set	red
rs133441	22	29.21305	4.9323	credible-set	red
22:29269739_T_C	22	29.26974	2.1834	credible-set	red
rs562868990	22	29.29805	2.7790	credible-set	red
rs180934993	22	29.30742	2.3788	credible-set	red
rs540182926	22	29.32392	2.3542	credible-set	red
rs528790443	22	29.32434	2.3556	credible-set	red
rs536806289	22	29.34626	2.2895	credible-set	red
rs548026195	22	29.34806	2.5602	credible-set	red
rs535379166	22	29.37055	2.5819	credible-set	red
rs545980309	22	29.37826	2.3278	credible-set	red
rs546314108	22	29.38987	2.2806	credible-set	red
22:29443384_TGCGGG_T	22	29.44338	2.3067	credible-set	red
rs134609	22	29.47558	2.0004	credible-set	red
rs134621	22	29.47883	2.2016	credible-set	red
rs134623	22	29.47919	2.2845	credible-set	red
rs134624	22	29.47923	2.2848	credible-set	red
rs134629	22	29.48040	2.2107	credible-set	red
rs134630	22	29.48074	2.1824	credible-set	red
rs5762980	22	29.48090	2.1854	credible-set	red
rs134632	22	29.48188	2.3515	credible-set	red
rs10696373	22	29.48201	2.0528	credible-set	red
rs134635	22	29.48215	2.4084	credible-set	red
rs134637	22	29.48268	2.2075	credible-set	red
rs134638	22	29.48272	2.3794	credible-set	red
rs134639	22	29.48306	2.4967	credible-set	red
rs2049939	22	29.48392	2.6140	credible-set	red
rs134645	22	29.48461	2.3762	credible-set	red
rs34091309	22	29.66488	2.7603	credible-set	red
rs80317435	22	29.67191	3.0208	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs13055676	22	29.70488	3.119	credible-set	red
rs149913061	22	29.71154	3.289	credible-set	red

eBMD SNP INDEX 303



date: Wed Jun 28 21:52:03 2017

build: hg19

display range: chr22:28983060–29983060 [28983060–29983060]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:29483060

number of SNPs plotted: 5957

min P-value: 6.3E–36 [chr22:29483060]

max P-value: 1E0 [chr22:29014565]

omitted GWAS Hits: chr22:29.300306–pancreatic carcinoma, chr22:29.451671–waist–hip ratio

omitted GWAS Hits: NA

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
22	29.10071	optic disc size	Ramdas WD	10/06/2010	PLoS Genet	20548946	rs1547014	EFO_0004832	GCST000700
22	29.10071	optic disc size	Springelkamp H	22/09/2014	Nat Commun	25241763	rs1547014	EFO_0004832	GCST002626
22	29.11507	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs4822983	EFO_0000707, EFO_0002916	GCST001674
22	29.12109	lung carcinoma	Wang Y	1/06/2014	Nat Genet	24880342	rs17879961	EFO_0001071	GCST002466
22	29.12109	squamous cell carcinoma	Wang Y	1/06/2014	Nat Genet	24880342	rs17879961	EFO_0000707	GCST002466
22	29.13001	esophageal carcinoma	Abnet CC	22/08/2010	Nat Genet	20729852	rs738722	EFO_0002916	GCST000777
22	29.13030	optic cup area	Springelkamp H	28/01/2015	Genet Epidemiol	25631615	rs1033667	EFO_0006940	GCST002762
22	29.19267	squamous cell carcinoma, esophageal carcinoma	Wu C	9/09/2012	Nat Genet	22960999	rs2239815	EFO_0000707, EFO_0002916	GCST001674
22	29.30031	pancreatic carcinoma	Wolpin BM	3/08/2014	Nat Genet	25086665	rs16986825	EFO_0002618	GCST002553
22	29.45167	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs4823006	EFO_0004343	GCST000829
22	29.62148	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs132390	EFO_0000305	GCST001937

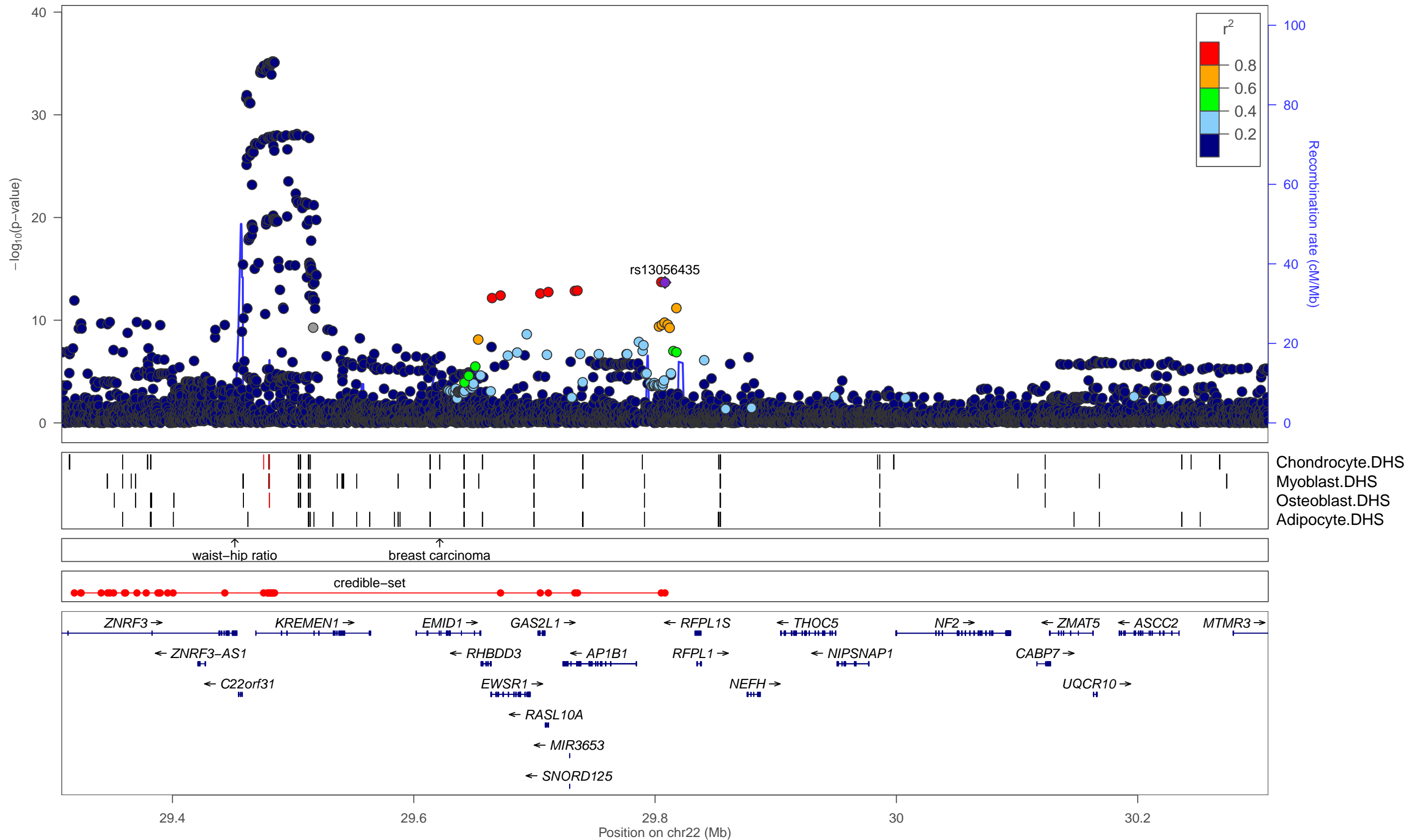
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs577325660	22	29.17030	2.0778	credible-set	red
rs577387952	22	29.18481	2.0150	credible-set	red
rs133441	22	29.21305	4.8865	credible-set	red
22:29269739_T_C	22	29.26974	2.2327	credible-set	red
rs562868990	22	29.29805	2.7697	credible-set	red
rs180934993	22	29.30742	2.4137	credible-set	red
rs540182926	22	29.32392	2.3879	credible-set	red
rs528790443	22	29.32434	2.3885	credible-set	red
rs536806289	22	29.34626	2.3329	credible-set	red
rs548026195	22	29.34806	2.5806	credible-set	red
rs535379166	22	29.37055	2.5891	credible-set	red
rs545980309	22	29.37826	2.3498	credible-set	red
rs7291953	22	29.38798	2.0530	credible-set	red
rs546314108	22	29.38987	2.3011	credible-set	red
22:29443384_TGCGGG_T	22	29.44338	2.3311	credible-set	red
rs134609	22	29.47558	2.0187	credible-set	red
rs134621	22	29.47883	2.2397	credible-set	red
rs134623	22	29.47919	2.3133	credible-set	red
rs134624	22	29.47923	2.3105	credible-set	red
rs134629	22	29.48040	2.2292	credible-set	red
rs134630	22	29.48074	2.2037	credible-set	red
rs5762980	22	29.48090	2.2048	credible-set	red
rs134632	22	29.48188	2.3849	credible-set	red
rs10696373	22	29.48201	2.1610	credible-set	red
rs134635	22	29.48215	2.4251	credible-set	red
rs134637	22	29.48268	2.2342	credible-set	red
rs134638	22	29.48272	2.3979	credible-set	red
rs134639	22	29.48306	2.5120	credible-set	red
rs2049939	22	29.48392	2.6251	credible-set	red
rs134645	22	29.48461	2.4095	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs34091309	22	29.66488	2.0622	credible-set	red
rs80317435	22	29.67191	2.2937	credible-set	red
rs13055676	22	29.70488	2.3427	credible-set	red
rs149913061	22	29.71154	2.4735	credible-set	red
rs75337432	22	29.73351	2.6046	credible-set	red
rs34583478	22	29.73565	2.6306	credible-set	red
rs71329479	22	29.80516	3.2027	credible-set	red
rs13056435	22	29.80816	3.1770	credible-set	red

eBMD SNP INDEX 304



date: Wed Jun 28 21:52:11 2017

build: hg19

display range: chr22:29308163–30308163 [29308163–30308163]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:29808163

number of SNPs plotted: 5738

min P-value: 6.3E–36 [chr22:29483060]

max P-value: 1E0 [chr22:29310953]

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
22	29.45167	waist-hip ratio	Heid IM	10/10/2010	Nat Genet	20935629	rs4823006	EFO_0004343	GCST000829
22	29.62148	breast carcinoma	Michailidou K	1/04/2013	Nat Genet	23535729	rs132390	EFO_0000305	GCST001937

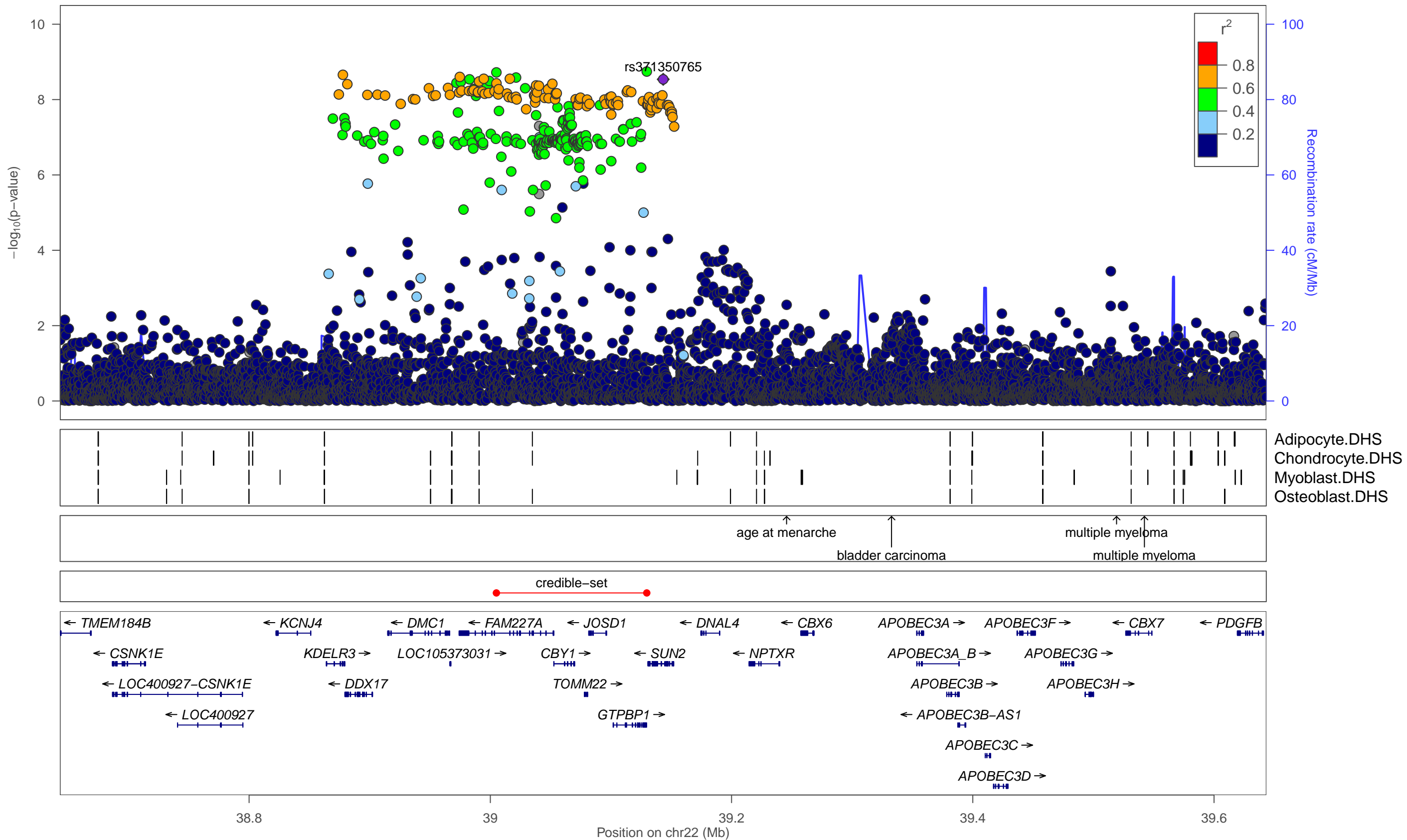
Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs132549	22	29.31872	2.1607	credible-set	red
rs540182926	22	29.32392	2.3242	credible-set	red
rs528790443	22	29.32434	2.3388	credible-set	red
rs71316875	22	29.34091	3.9244	credible-set	red
rs536806289	22	29.34626	2.2791	credible-set	red
rs548026195	22	29.34806	2.4236	credible-set	red
rs132561	22	29.35118	2.5969	credible-set	red
rs4822998	22	29.36030	2.4152	credible-set	red
rs2213645	22	29.36116	2.1444	credible-set	red
rs535379166	22	29.37055	2.4522	credible-set	red
rs545980309	22	29.37826	2.2490	credible-set	red
rs7291953	22	29.38798	3.6788	credible-set	red
rs11704960	22	29.38920	2.3897	credible-set	red
rs546314108	22	29.38987	2.2037	credible-set	red
rs10483152	22	29.39597	2.3150	credible-set	red
rs8142788	22	29.40051	2.8420	credible-set	red
22:29443384_TGCGGG_T	22	29.44338	2.2078	credible-set	red
rs134609	22	29.47558	2.0402	credible-set	red
rs134621	22	29.47883	2.2203	credible-set	red
rs134623	22	29.47919	2.2846	credible-set	red
rs134624	22	29.47923	2.2876	credible-set	red
rs134629	22	29.48040	2.2227	credible-set	red
rs134630	22	29.48074	2.1733	credible-set	red
rs5762980	22	29.48090	2.1982	credible-set	red
rs134632	22	29.48188	2.3908	credible-set	red
rs10696373	22	29.48201	2.0190	credible-set	red
rs134635	22	29.48215	2.4202	credible-set	red
rs134637	22	29.48268	2.2564	credible-set	red
rs134638	22	29.48272	2.4004	credible-set	red
rs134639	22	29.48306	2.5109	credible-set	red

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs2049939	22	29.48392	2.5887	credible-set	red
rs134645	22	29.48461	2.3987	credible-set	red
rs80317435	22	29.67191	2.1758	credible-set	red
rs13055676	22	29.70488	2.2573	credible-set	red
rs149913061	22	29.71154	2.3831	credible-set	red
rs75337432	22	29.73351	2.5242	credible-set	red
rs34583478	22	29.73565	2.5485	credible-set	red
rs71329479	22	29.80516	3.2500	credible-set	red
rs13056435	22	29.80816	3.2212	credible-set	red

eBMD SNP INDEX 305



date: Wed Jun 28 21:53:09 2017

build: hg19

display range: chr22:38643336–39643336 [38643336–39643336]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr22:39143336

number of SNPs plotted: 6401

min P-value: 1.8E-9 [chr22:39129708]

max P-value: 1E0 [chr22:38667620]

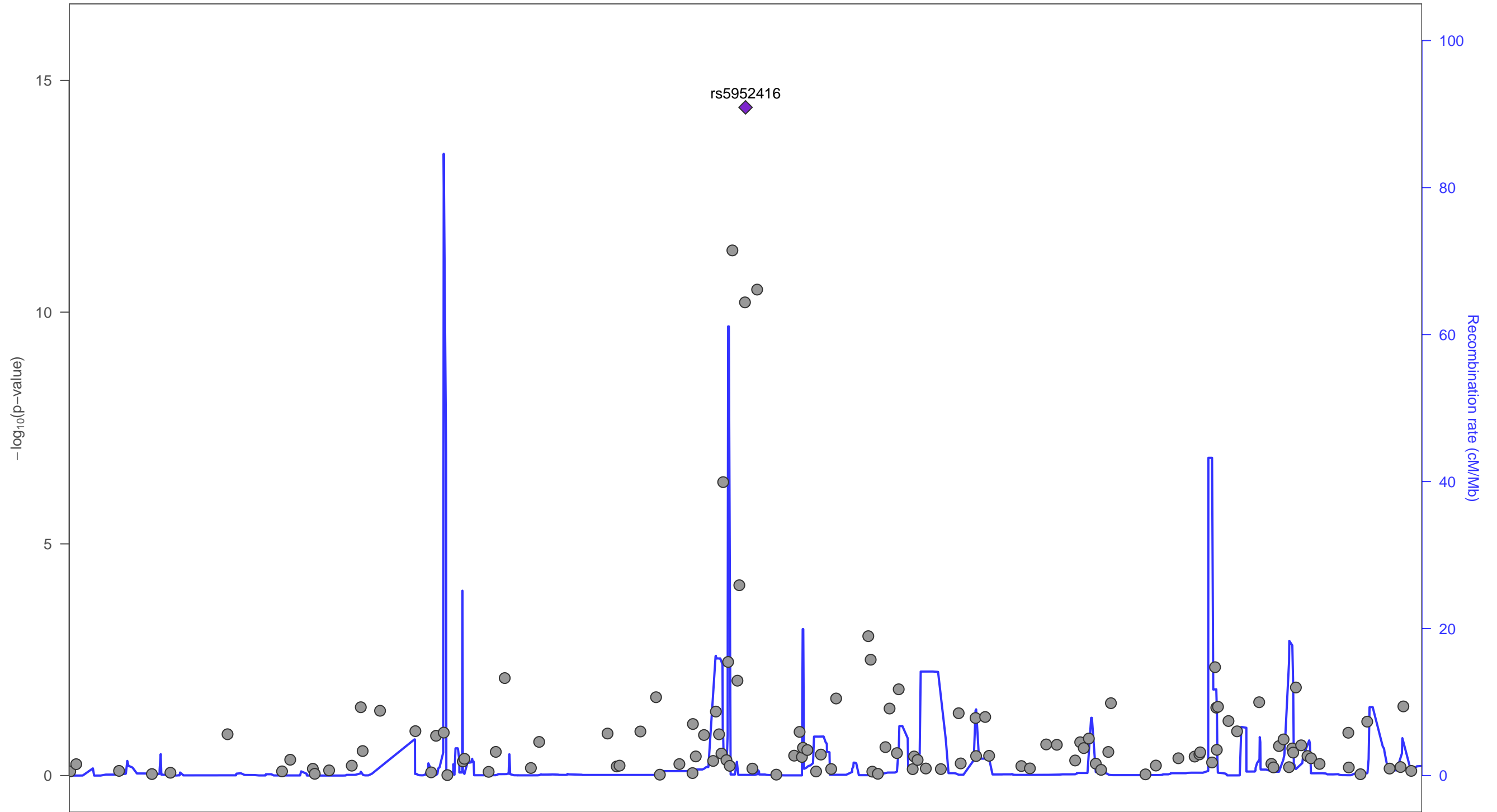
GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
22	39.24562	age at menarche	Perry JR	23/07/2014	Nature	25231870	rs13053505	EFO_0004703	GCST002541
22	39.33262	bladder carcinoma	Figuroa JD	24/10/2013	Hum Mol Genet	24163127	rs1014971	EFO_0000292	GCST002240
22	39.33262	bladder carcinoma	Rothman N	24/10/2010	Nat Genet	20972438	rs1014971	EFO_0000292	GCST000842
22	39.51920	multiple myeloma	Weinhold N	17/03/2013	Nat Genet	23502783	rs139371	EFO_0001378	GCST001907
22	39.54229	multiple myeloma	Chubb D	18/08/2013	Nat Genet	23955597	rs877529	EFO_0001378	GCST002140

Fine-mapping Regions

snp	chr	pos (Mb)	pp	group	color
rs5757172	22	39.00503	2.0423	credible-set	red
rs138699	22	39.12971	2.0681	credible-set	red

eBMD SNP INDEX 306



rs5952416

$-\log_{10}(p\text{-value})$

Recombination rate (cM/Mb)

43.4

43.6

43.8

44

44.2

Position on chrX (Mb)

MAOA →

← MAOB

← NDP

← EFHC2

date: Wed Jun 28 21:51:30 2017

build: hg19

display range: chr23:43335793–44335793 [43335793–44335793]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr23:43835793

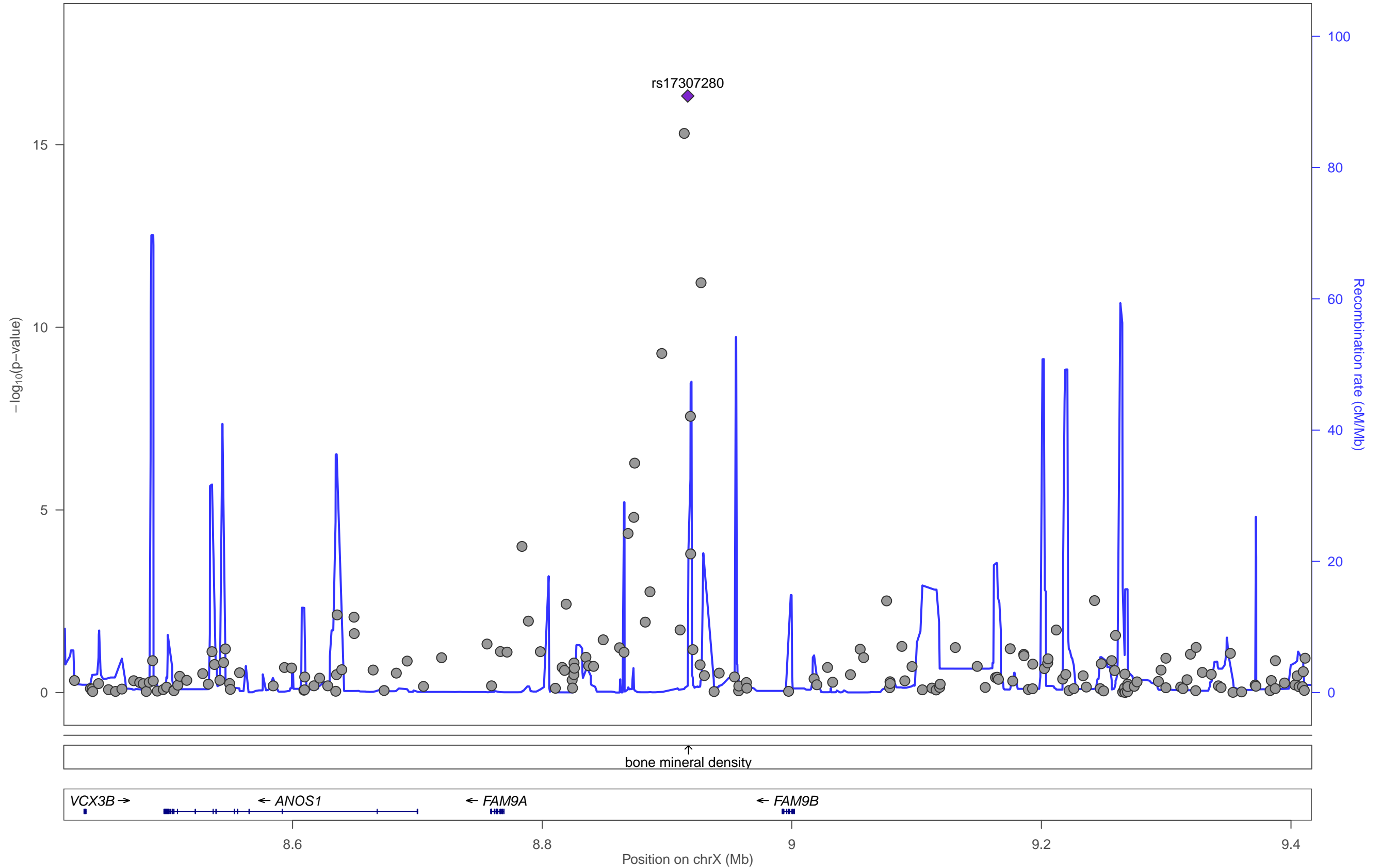
number of SNPs plotted: 128

min P-value: 3.81E–15 [chr23:43835793]

max P-value: 9.77E–1 [chr23:43615391]

Warning: No usable LD information for reference SNP.

eBMD SNP INDEX 307



date: Wed Jun 28 17:19:17 2017

build: hg19

display range: chr23:8416646–9416646 [8416646–9416646]

hilite range: 0 – 0 [0 – 0]

reference SNP: chr23:8916646

number of SNPs plotted: 190

min P-value: 4.65E-17 [chr23:8916646]

max P-value: 9.93E-1 [chr23:9267140]

Warning: No usable LD information for reference SNP.

GWAS Catalog SNPs in Region

chr	pos (Mb)	trait	author	date	journal	pmid	rsid	experimental.factor.ontology	study.accession
23	8.917206	bone mineral density	Estrada K	15/04/2012	Nat Genet	22504420	rs5934507	EFO_0003923	GCST001482