

**Table S3. Sox4-occupied genomic loci that gain accessibility between E12.0 and E13.5 and lose accessibility in SoxC cKO.**

Chromosome	Start	End	Closest Gene	Overlapping Gene
chr1	3170231	3170512	Gm39585	
chr1	14285637	14286219	Eya1	
chr1	15135196	15135527	Kcnb2	
chr1	19912353	19912823	Gm32651	
chr1	23214965	23215089	Gm29506	Ogfr1
chr1	27239787	27239993	4931408C20Rik	
chr1	30176077	30176535	Gm31465	
chr1	30548787	30548879	Gm31581	
chr1	30549011	30549063	Gm31581	
chr1	33778793	33779138	Bag2	Bend6;Dst;Prim2;Rab23;Zfp451
chr1	68030567	68031046	Gm15669	
chr1	69858665	69858882	Spag16	Ikzf2;Spag16
chr1	70902416	70902758	Gm29906	Vwc2l
chr1	79314652	79314868	Gm29536	Scg2
chr1	82203834	82204034	Mir6344	Irs1;Rhbdd1
chr1	89799061	89799127	4933400F21Rik	Asb18;Gbx2;
chr1	90206848	90207018	Ackr3	Asb18;Iqca
chr1	94833235	94833582	4930440C22Rik	
chr1	99026124	99026184	Gm7967	
chr1	99074346	99074579	Gm7967	
chr1	99074693	99074893	Gm7967	
chr1	99970379	99970885	Cntnap5b	
chr1	101367971	101368185	Gm31973	
chr1	103472033	103472041	Gm41924	
chr1	103883325	103883552	Gm41924	
chr1	113540165	113540504	LOC108167836	
chr1	114457089	114457108	Gm33042	
chr1	115764486	115764742	Cntnap5a	
chr1	118228628	118228966	Tsn	Clasp1;Nifk
chr1	121366420	121366477	2210011K15Rik	Ccdc93;Htr5b;Insig2
chr1	124517907	124518051	Gm41941	
chr1	125990610	125990950	Gm35562	Lypd1
chr1	129501948	129501996	Gm36347	Thsd7b
chr1	134658906	134658958	Syt2	Kdm5b;Mgat4e;Ppp1r12b;Rabif
chr1	139348635	139348992	Crb1	Aspm;F13b;Zbtb41

chr1	143229449	143229710	Gm35244	
chr1	143352906	143353486	Gm35244	
chr1	151549267	151549798	Fam129a	Fam129a;Mir7682;Rnf2;Swf1;Trmt11
chr1	151880919	151881065	Gm25279	Edem3
chr1	156190317	156190477	Fam163a	Nphs2;Tdrd5;Tor1aip1;Tor1aip2
chr1	158681187	158681220	Mir488	
chr1	163357874	163357997	Prrx1	Gorab
chr1	163358237	163358461	Prrx1	Gorab
chr1	164576786	164577003	Gm26685	Atp1b1
chr1	172991023	172991572	Gm35742	Apcs;Olfr1406;Olfr1408;Olfr16
chr1	173384393	173384817	Aim2	Ackr1;Cadm3;Fcer1a;Mptx2;Olfr1404; Olfr1406;Olfr218;Olfr418;Pydc4
chr1	173973187	173973781	Ifi202b	Ifi203;Ifi205;Mnda;Mndal;Olfr231;Olfr420; Olfr421-ps1;Olfr424;Olfr427;Olfr429; Olfr430;Olfr432;Olfr433;Spta1
chr1	175413921	175414200	Rgs7	
chr1	176013579	176013793	Becn2	Exo1;Pld5
chr1	184192807	184193340	Gm34177	Dusp10
chr1	194762321	194762375	LOC108167784	Cd34;Plxna2
chr10	4278249	4278322	Akap12	Armt1;Rmnd1;Zbtb2
chr10	5295168	5295762	Syne1	
chr10	6115101	6115215	Rgs17	
chr10	6115323	6115605	Rgs17	
chr10	6297920	6297966	Gm3213	
chr10	9508774	9509000	Samd5	
chr10	9509923	9510203	Samd5	
chr10	11801805	11802091	Gm40601	
chr10	12351089	12351407	Utrn	
chr10	19157534	19158089	Gm20139	Olig3;Tnfaip3
chr10	27167397	27167797	Gm40618	
chr10	32871115	32871413	Nkain2	
chr10	33375631	33376088	D830005E20Rik	
chr10	36119321	36119495	Gm40623	
chr10	38054035	38054421	LOC108167804	
chr10	46558689	46558999	Gm40640	
chr10	51006880	51007083	Sim1	
chr10	51123398	51123536	Gm35917	
chr10	60577337	60577672	Cdh23	Slc29a3
chr10	64744113	64744590	Gm28881	

chr10	66172948	66173073	Gm31056	
chr10	66186849	66187050	Gm31056	
chr10	70359840	70360325	Gm33704	Mrln;Slc16a9
chr10	71756211	71756502	Gm34544	
chr10	72287859	72288052	Gm34609	
chr10	72722653	72722925	Zwint	Zwint
chr10	91156383	91156566	Tmpo	Apaf1;lkbip;Slc25a3
chr10	92647360	92647669	Gm31822	Nedd1
chr10	105760736	105760872	Mettl25	Ccdc59;Tmtc2
chr10	110352562	110352708	Nav3	
chr10	114912607	114912630	Gm40767	Trhde
chr10	118984391	118984566	Gm33624	Dyrk2
chr10	124411816	124411995	4930503E24Rik	
chr11	8293699	8294029	Tns3	
chr11	8453298	8453611	Tns3	
chr11	13149958	13150078	Cobl	
chr11	18305219	18305290	Gm12022	
chr11	19092848	19093301	4933406G16Rik	Meis1
chr11	24131742	24132311	4930538E20Rik	Bcl11a
chr11	25314702	25314803	4933427E13Rik	
chr11	26071832	26072082	Mir6372	
chr11	28685003	28685254	2810471M01Rik	Ccdc85a;Efemp1;Mir216a;Mir216b; Mir216c;Mir217
chr11	42599137	42599456	Gabrb2	
chr11	64156554	64156880	Gm12290	Cox10
chr11	64546340	64546447	F930015N05Rik	Hs3st3a1
chr11	71902746	71902938	LOC108167908	Aipl1;Fam64a;Wscd1
chr11	90538523	90538878	Gm34850	Cox11;Hlf;Stxbp4;Tom1l1
chr11	108709949	108709973	Cep112	
chr12	9132567	9133025	Ttc32	Matn3;Wdr35
chr12	13412582	13412905	Nbas	Ddx1
chr12	29137164	29137269	Gm31333	
chr12	35334815	35335047	Mir680-3	Ahr
chr12	37774208	37774358	Dgkb	
chr12	37849180	37849330	Dgkb	
chr12	38579439	38579642	4930428E07Rik	
chr12	39095184	39095223	Gm34809	
chr12	50128267	50128508	Gm40419	
chr12	51355519	51355667	G2e3	Scfd1

chr12	58085842	58085989	Sstr1	Clec14a
chr12	59414289	59414303	Fbxo33	
chr12	59414484	59414588	Fbxo33	
chr12	59708822	59708971	Gm40430	
chr12	59804133	59804287	Gm40430	
chr12	60367446	60367674	Gm32936	
chr12	61147002	61147217	LOC108167369	
chr12	65593793	65593991	Wdr20rt	
chr12	65594048	65594291	Wdr20rt	
chr12	82424860	82424952	Gm30916	Rgs6;Sipa1l1
chr12	88377229	88377232	3200001D21Rik	Adck1
chr12	89079244	89079307	Gm40537	Nrxn3
chr12	89086334	89086512	Gm40537	Nrxn3
chr12	89258477	89258685	Gm40537	
chr12	89258925	89259074	Gm40537	
chr12	90210146	90210475	Gm40538	
chr12	91265525	91265838	Cep128	Tshr
chr12	91436485	91436838	Tshr	Cep128;Gtf2a1
chr12	94640284	94640329	Mir8099-2	
chr12	95818050	95818348	Flrt2	
chr12	98339768	98340179	Gpr65	Galc;Gpr65;Kcnk10
chr12	101020176	101020589	Mir1190	Ccdc88c;Gpr68;Kif4-ps;Smek1
chr12	110347562	110347831	Gm6988	Dio3;Dio3os;Mir1247;Ppp2r5c
chr12	116823778	116823874	Gm31336	
chr13	6597794	6597825	Gm35730	Pfkip;Pitrm1
chr13	12159044	12159096	Gm10336	Actn2;Mtr;Ryr2
chr13	12829022	12829331	LOC105245453	Gpr137b-ps;Prl2c2;Prl2c3
chr13	14945052	14945372	Gm31066	
chr13	15949430	15949506	Gm31450	Inhba
chr13	17412468	17412954	Gm40826	
chr13	19464161	19464430	9330199G10Rik	Epdr1;Sfrp4;Stard3nl
chr13	20519787	20519971	Elmo1	
chr13	36760936	36761090	Nrn1	
chr13	42198101	42198860	Gm32778	Edn1;Hivep1
chr13	48166993	48167189	Gm36346	Id4
chr13	66996903	66996982	4933433G19Rik	Mterf3;Ptdss1;Rsl1;Rslcan18;Uqcrb; Zfp455;Zfp708;Zfp712;Zfp759
chr13	69236318	69236738	Gm35444	
chr13	74817932	74818377	Cast	Erap1

chr13	75368473	75368966	Mir682	
chr13	78940888	78941210	Gm32067	
chr13	83953181	83953207	2810049E08Rik	
chr13	84681001	84681780	Gm34246	
chr13	90753881	90754256	Atp6ap1l	Rps23
chr13	91855123	91855546	Ckmt2	Acot12;Ckmt2;Zcchc9
chr13	96073585	96073908	Sv2c	Iqgap2;Sv2c
chr13	99384653	99385126	Gm41037	Map1b;Mrps27;Ptcd2;Zfp366
chr13	100566270	100566323	Ocln	Ak6;Ccdc125;Cdk7;Gtf2h2;Marveld2;Mrps36;Naip1;Rad17;Taf9
chr13	101110059	101110202	Gm41042	
chr13	114532465	114532813	Fst	Ndufs4
chr13	116279549	116279671	Isl1	
chr14	9606600	9606726	Gm41096	
chr14	14309551	14309577	Olfr31	Il3ra;Olfr720;Psmid6
chr14	15333334	15333426	Gm31577	Lrrc3b
chr14	15472022	15472399	Lrrc3b	
chr14	17358039	17358389	Gm32121	
chr14	18378045	18378246	Ube2e1	Nkiras1;Nr1d2;Rpl15
chr14	42134940	42135090	Gm5376	
chr14	57314155	57314377	Gm41161	Cryl1;Gjb6;Ift88
chr14	64265727	64265970	Gm41176	Msra;Prss51;Prss52;Prss55
chr14	68190159	68190320	Nefm	Nefl
chr14	78049761	78049963	Fam216b	Dnajc15;Epsti1;Gm30608;Mir1971
chr14	78050273	78050307	Fam216b	Dnajc15;Epsti1;Gm30608;Mir1971
chr14	81278278	81278704	Gm41219	
chr14	81758541	81758779	Gm41219	
chr14	86326146	86326348	Gm32860	
chr14	92000449	92000646	Gm33246	
chr14	92635754	92635794	Gm33349	
chr14	96885505	96885749	Gm33525	
chr14	99192252	99192302	Pibf1	Bora;Dis3;Klf5;Mzt1
chr14	104665759	104665807	D130009I18Rik	Pou4f1;Rnf219
chr14	107186154	107186449	Gm41241	
chr14	107368459	107368719	Gm41242	
chr14	108791545	108791787	Gm30157	Slitrk1
chr14	109266601	109267097	Gm30216	
chr14	109550724	109550815	Gm30216	
chr14	109610163	109610368	Gm30216	

chr14	113395551	113395776	Gm41243	
chr14	115836556	115836875	4930505G20Rik	
chr14	119103347	119103405	Gm16835	Dnajc3;Dzip1;Hs6st3;Uggt2
chr14	119831859	119831937	Gm41249	
chr14	119831989	119832182	Gm41249	
chr14	123304973	123304976	AA536875	
chr14	124332735	124332769	Fgf14	
chr15	3295812	3295984	Gm41254	Ccdc152;Sepp1
chr15	4349416	4349570	Plcx3	
chr15	4558300	4558432	C6	Plcx3
chr15	10685694	10685954	Rai14	Brix1;Rad1;Ttc23l
chr15	11310114	11310517	Gm34444	Tars
chr15	13320392	13320914	LOC108168242	Cdh6
chr15	13751658	13751712	LOC108168242	
chr15	14127657	14127909	LOC108168242	
chr15	22170636	22170791	Gm41278	
chr15	24567006	24567244	Gm35827	
chr15	26533899	26534353	Fbxl7	
chr15	31676759	31677047	Gm32383	Cct5;Cmb1;Fam173b;March6
chr15	32160474	32160482	Gm32499	Sema5a;Snhg18;Snord123;Tas2r119
chr15	32377312	32377637	Gm32562	Sema5a;Snhg18;Snord123
chr15	34686410	34686731	Nipal2	Kcns2;Pop1;Rida
chr15	44259920	44260276	Gm33793	Eny2;Nudcd1;Pkhd1l1;Trhr
chr15	46480096	46480176	4930523O13Rik	
chr15	46480318	46480532	4930523O13Rik	
chr15	50508060	50508295	Trps1	
chr15	52384232	52384292	Gm41321	Slc30a8
chr15	53492198	53492394	Mir28c	Ext1
chr15	53848643	53848762	Samd12	
chr15	54124644	54124885	Tnfrsf11b	
chr15	55155491	55155848	Deptor	Col14a1;Dsc1;Taf2
chr15	61782540	61782707	D030024E09Rik	
chr15	61921709	61921821	Myc	Pvt1
chr15	62801750	62801997	Gm41333	
chr15	63532271	63532647	Gm20740	
chr15	65449292	65449510	Gm41339	
chr15	79973872	79974054	Cbx7	Apobec3;Cbx6;Dnal4;Mgat3;Mir7213;Npcd;Nptxr;Pdgb;Rpl3;Snord43;Snord83b;Syngr1;Tab1

chr15	84310374	84310737	Parvg	Mir6392;Parvb;Pnpla3;Pnpla5;Samm50
chr16	7197377	7197829	Rbfox1	
chr16	9463957	9464285	Gm41418	
chr16	10639064	10639243	Clec16a	Ciita;Dexi;Prm1;Prm2;Prm3;Rmi2; Socs1;Tnp2;Tvp23a
chr16	13206675	13206864	Gm32596	Ercc4;Gm15738;Mkl2
chr16	21690020	21690407	2510009E07Rik	Ehhadh;Map3k13
chr16	27017453	27017814	Gmnc	
chr16	28668814	28669262	LOC108168283	Fgf12;Mb21d2;Mir690
chr16	33005449	33005560	lqcg	Fyttl1;Lmln;Lrch3;Mir1947;Osbp11; Rpl35a;Rubcn
chr16	40143318	40143502	Gm29907	
chr16	49408602	49408877	Gm4802	
chr16	52180343	52180398	Cblb	
chr16	52388520	52388742	Gm41461	Alcam
chr16	54335216	54335614	Zpld1	
chr16	57038662	57038938	Tmem45a2	Lnp1;Nit2;Tbc1d23;Tmem45a;Tomm70a
chr16	60368084	60368272	Epha6	
chr16	60368358	60368587	Epha6	
chr16	60687323	60687424	Epha6	
chr16	65065444	65065489	Htr1f	
chr16	65850125	65850353	Vgll3	
chr16	65964371	65964676	Vgll3	
chr16	66015481	66015537	Vgll3	
chr16	71356123	71356236	4930567J20Rik	
chr16	73245833	73246007	4930500H12Rik	
chr16	74739708	74740090	Robo2	
chr16	74811225	74811358	Robo2	
chr16	74895308	74895393	Robo2	
chr16	76248883	76248942	Gm30507	Nrip1
chr16	77094308	77094483	Usp25	
chr16	78976480	78976727	Chodl	Tmprss15
chr16	82152630	82153016	Gm41480	
chr16	85988347	85988665	Adamts5	Adamts1
chr17	11823734	11823817	D17Ertd648e	
chr17	29874320	29874736	Mdga1	Ccdc167;Zfand3
chr17	41059927	41060092	Mut	Cenpq;Glyatl3
chr17	42157097	42157347	Ptchd4	

chr17	42267502	42268039	Ptchd4	
chr17	49500497	49500632	Daam2	Kif6;Mocs1
chr17	53973216	53973489	Sult1c1	Mark1-ps1;Sult1c2
chr17	54239804	54239821	Slc5a7	
chr17	58111160	58111254	Cntnap5c	
chr17	63861038	63861233	Fer	
chr17	67816211	67816621	Lama1	Arhgap28;Lrrc30
chr17	68999240	68999660	Gm36437	Epb41l3;Tmem200c
chr17	75233074	75233551	Ltbp1	
chr17	81455394	81455557	Gm41627	
chr17	85440451	85440858	Six3	Six3os1
chr17	89297893	89297931	4933400B14Rik	
chr17	91268767	91268928	Nrxn1	
chr17	91543324	91543528	Gm41654	
chr17	94470084	94470277	Mettl4	
chr18	7121584	7122011	LOC108168391	Armc4;Mkx
chr18	7257812	7257962	Armc4	Mpp7
chr18	17052733	17053127	Gm41674	
chr18	20012372	20012523	Dsc3	Dsc1;Dsc2
chr18	22908128	22908317	Nol4	
chr18	24359585	24359702	Gm38410	Galnt1;Mir187;Rprd1a
chr18	40759041	40759571	Gm41710	
chr18	41429174	41429687	Preli2	
chr18	50364646	50364765	Fam170a	
chr18	52236680	52237012	Ftmt	
chr18	53866569	53866892	Csnk1g3	Cep120
chr18	61634924	61635024	Gm35607	Ablim3;Afap1l1;Arhgef37;Bvht;Carmn; Csnk1a1;Grpel2;Il17b;Mir143;Mir145a; Pcyox1l
chr18	63950851	63951104	Wdr7	
chr18	65119778	65119978	Nedd4l	
chr18	68370259	68370655	Gm29677	Ldlrad4;Mc2r;Mc5r;Mir7219;Rnmt
chr18	72023567	72023998	Dcc	
chr18	81043166	81043533	Sall3	Atp9b
chr18	82396353	82397287	Galr1	Mbp
chr18	85331217	85331467	Gm32291	
chr18	87419097	87419515	Cbln2	
chr19	14971722	14971825	LOC108168406	
chr19	17567164	17567437	Gm41812	Gcnt1;Pcsk5;Rfk

chr19	18935955	18935958	Rorb	Trpm6
chr19	30505248	30505435	Ppp1r2-ps3	Dkk1
chr19	36213676	36213737	LOC108168426	Ankrd1;Pcgf5;Rpp30
chr19	48160980	48161349	Sorcs3	
chr19	50546412	50546512	Gm26629	Sorcs1
chr19	50546548	50546703	Gm26629	Sorcs1
chr19	53002874	53003286	Mir6407	Add3;Xpnpep1
chr2	3964487	3964669	Frmd4a	Fam107b
chr2	13061479	13061693	C1ql3	Pter
chr2	13061830	13061911	C1ql3	Pter
chr2	13061978	13062132	C1ql3	Pter
chr2	13062733	13062776	C1ql3	Pter
chr2	13175748	13175887	Rsu1	C1ql3
chr2	14271207	14271503	Mir511	Mrc1;Slc39a12;Stam;Stamos;Tmem236
chr2	23901804	23902000	Hnmt	Tbpl2
chr2	29646859	29646929	Rapgef1	Cercam;Coq4;Mir133c;Mir219a-2; Mir219b;Rapgef1;Slc27a4;Trub2;Urm1
chr2	40479431	40479640	Gm30138	
chr2	43455512	43455758	Kynu	
chr2	43456017	43456181	Kynu	
chr2	43915714	43915948	Gm39804	Arhgap15;Arhgap15os
chr2	46556863	46557102	Gm13470	
chr2	53603893	53604208	Gm38481	
chr2	56991978	56992182	Nr4a2	
chr2	62493628	62494052	Gcg	Dpp4;Fap;Gca
chr2	64171575	64171652	Fign	
chr2	67043157	67043196	Gm1322	
chr2	74408814	74408847	4930441J16Rik	Lnp
chr2	77994637	77995012	Cwc22	
chr2	80852860	80852955	Gm36282	
chr2	83011005	83011038	Fsip2	
chr2	95210662	95210861	Gm13794	
chr2	96287713	96287809	Lrrc4c	
chr2	97609397	97609554	Lrrc4c	
chr2	99726601	99726807	Gm33780	
chr2	100813397	100813946	Gm39886	
chr2	106305751	106306131	Gm36036	Dcdc5
chr2	114588803	114589071	Dph6	

chr2	117176772	117176925	Mir674	Fam98b;Rasgrp1;Spred1
chr2	124329753	124330003	4930583P06Rik	
chr2	125617082	125617347	Cep152	Eid1;Fbn1;Secisbp2l;Shc4
chr2	136824847	136825159	LOC108168797	Mkks;Slx4ip;Snap25
chr2	168467788	168468033	Gm33413	Kcng1;Mir7004;Nfatc2
chr2	181192207	181192448	Ppdpf	Arfrp1;Chrna4;Col20a1;Eef1a2;Helz2; Kcnq2;Lime1;Ptk6;Rtel1;Slc2a4rg-ps; Srms;Stmn3;Zgpat
chr2	181931193	181931406	Gm40034	Myt1;Pcmd2;Polr3k
chr3	7667928	7668027	LOC102634900	Il7
chr3	11701087	11701277	Gm10745	
chr3	14002257	14002516	Raly1	
chr3	15016054	15016080	Gm42000	Car2;Car3
chr3	16866543	16866728	Gm42184	
chr3	16942648	16942936	Gm42184	
chr3	17669298	17669471	Gm30340	Mir124-2hg;Mir124a-2
chr3	18937041	18937266	Armc1	
chr3	18937414	18937448	Armc1	
chr3	19549550	19549846	Dnajc5b	Crh;Trim55
chr3	21535054	21535159	Gm31610	
chr3	23164379	23164811	4930412E21Rik	
chr3	27372324	27372507	Ghsr	Fndc3b;Nceh1;Tnfsf10
chr3	33115928	33116103	Pex5l	
chr3	34908640	34908950	Mir6378	
chr3	36263379	36263517	Gm42208	Acad9;Qrfpr
chr3	36352368	36352377	Gm42209	Anxa5;Mir7009;Qrfpr
chr3	36636781	36637172	Gm35856	Anxa5;Bbs7;Ccna2;Exosc9;Mir7009;Trpc3
chr3	38962388	38962841	Fat4	
chr3	39272719	39272874	Gm42214	
chr3	40682102	40682299	Intu	Abhd18;Hspa4l;Mfsd8;Plk4;Slc25a31
chr3	42327782	42327895	D3Ert751e	
chr3	46701784	46701810	Mir6379	Mir6379
chr3	53143269	53143808	Lhfp	Cog6
chr3	53244649	53244864	Gm40048	
chr3	55337012	55337178	Gm40051	Ccdc169;Dclk1;Sohlh2
chr3	59899827	59899932	C130079G13Rik	Aadac;Aadacl2;Sucnr1
chr3	60789587	60789751	Gm38326	

chr3	63101342	63101776	Gm40064	Mme
chr3	64831210	64831440	Vmn2r-ps11	Kcnab1
chr3	67105129	67105415	Rsrc1	Shox2
chr3	70298037	70298250	Otol1	
chr3	99301400	99301642	Tbx15	Mir6481;Wars2
chr3	99337342	99337541	Tbx15	Mir6481;Wars2
chr3	115324512	115324795	Olfm3	
chr3	115324835	115325073	Olfm3	
chr3	124595002	124595087	1700003H04Rik	
chr3	128148940	128149545	D030025E07Rik	
chr3	130494257	130494354	Etnppl	
chr3	131560990	131561541	Papss1	Sgms2
chr3	132642089	132642164	Gimd1	Aimp1;Tbck
chr3	133331540	133331584	Ppa2	Arhgef38
chr3	133750138	133750347	Gm6135	
chr3	138653669	138654011	4930425O10Rik	Metap1;Mir1956;Tspan5
chr3	143748882	143748888	Gm33867	
chr3	150352952	150353218	Gm40178	
chr3	151331331	151331506	4930555A03Rik	Adgrl4
chr3	151402743	151403243	Adgrl4	
chr3	151749537	151749714	Ifi44	Ptgfr
chr3	157709689	157709801	Ptger3	Zranb2
chr3	157709905	157710126	Ptger3	Zranb2
chr3	157710187	157710379	Ptger3	Zranb2
chr3	158131797	158131991	Lrrc7	Ankrd13c;Lrrc40;Srsf11
chr3	159186973	159187080	Gm20752	
chr4	5059387	5059421	Impad1	
chr4	14278956	14279033	Gm2560	
chr4	14298077	14298526	Gm2560	
chr4	15535142	15535328	Gm29829	
chr4	15535362	15535629	Gm29829	
chr4	21310157	21310165	Prdm13	
chr4	24429415	24429591	Gm27243	Mms22l
chr4	24631196	24631530	Gm31436	Klhl32;Mms22l
chr4	32197679	32198023	Gm42266	Bach2
chr4	37727421	37727511	Gm12374	
chr4	52961581	52961649	Gm33479	Abca1;Nipsnap3a;Nipsnap3b;Olfr270; Olfr272;Olfr273;Olfr275
chr4	55519396	55519677	Klf4	Rad23b

chr4	66330580	66330946	Astn2	
chr4	69582071	69582565	Gm31905	
chr4	70906972	70907191	Gm11228	
chr4	72373702	72373934	C630043F03Rik	Tle1
chr4	72765605	72765919	Aldoart1	
chr4	73110984	73111050	Aldoart1	
chr4	77741412	77741419	Ptprd	
chr4	79114804	79115245	A430085M09Rik	
chr4	79621554	79621923	Gm32658	
chr4	79973837	79974189	Gm32658	
chr4	93184400	93184631	Tusc1	
chr4	93184665	93184840	Tusc1	
chr4	93528330	93528605	Gm31828	Tusc1
chr4	94407213	94407315	LOC108168967	Caap1;ift74;Plaa
chr4	98118614	98119010	Gm34784	
chr4	107028419	107028591	Mrpl37	Cdcp2;Cyb5rl;Ldlrad1;Ssbp3;Tceanc2;Tmem59
chr4	107139140	107139478	Tceanc2	Cdcp2;Cyb5rl;Dio1;Hspb11;Ldlrad1;Lrrc42;Mrpl37;Tmem59;Yipf1
chr4	108843179	108843297	Kti12	Btf3l4;Mir761;Nrd1;Rab3b;Txndc12;Zfyve9
chr4	129020311	129020778	Ak2	Azin2;Fndc5;Hpca;Rnf19b;S100pbp;Tmem54;Trim62;Yars
chr4	139206797	139206982	Capzb	Akr7a5;Emc1;Htr6;Minos1;Mrto4;Nbl1;Pqlc2;Ubr4
chr4	144468825	144468912	Aadacl3	Pramef12;Pramel5
chr4	151489528	151489758	Gm30344	
chr4	154549758	154549924	Gm13133	Actrt2;Prdm16
chr5	5190749	5191377	Cdk14	
chr5	6266832	6267052	Gm40263	
chr5	12638617	12638715	Sema3d	
chr5	13139019	13139071	Sema3a	
chr5	16968537	16968663	LOC108169105	
chr5	21989385	21989625	Slc26a5	
chr5	39846164	39846527	Gm35191	
chr5	41392763	41393238	Gm35380	
chr5	42972870	42973389	LOC108169042	
chr5	47052864	47053086	Gm7931	
chr5	49816596	49817205	Gm40299	
chr5	49817321	49817465	Gm40299	
chr5	49965735	49966157	Adgra3	

chr5	59038584	59038732	Gm40306	
chr5	62933472	62933546	Dthd1	Dthd1
chr5	63364618	63365148	Gm30837	
chr5	69158666	69159201	Kctd8	
chr5	70339029	70339065	Gabrg1	
chr5	71721892	71722167	Gm38562	Cox7b2;Gabra4;Gabrb1
chr5	78622131	78622803	Gm34912	
chr5	86782614	86783276	Ythdc1	Tmprss11b;Tmprss11e;Tmprss11f; Ugt2b1;Ugt2b34
chr5	87469443	87469528	Ugt2a2	Csn1s1;Mir3969;Sult1b1;Sult1d1;Sult1e1; Ugt2a1;Ugt2a3;Ugt2b38
chr5	92053064	92053307	Gm42111	Cdkl2;G3bp2;Ppof2;Rchy1;Thap6; U90926;Uso1
chr5	92936247	92936410	Shroom3	Mir1961;Sept11;Sowahb
chr5	96691315	96691847	Gm32995	Anxa3;Fras1
chr5	97697605	97698057	Gm34029	
chr5	111577530	111577640	C130026L21Rik	Mn1
chr5	112371974	112372146	Gm20636	Asphd2;Cryba4;Crybb1;Hps4;Miat;Srrd; Tfip11;Tpst2
chr5	116330853	116331093	B230112J18Rik	Ccdc60;Hspb8;Srrm4;Srrm4os
chr5	129493620	129493644	Gm34468	Mmp17;Sfswap;Zfp11
chr5	138380788	138381188	Pvrig	Cnpy4;Gal3st4;Gpc2;Lamtor4;Mblac1; Nxpe5;Stag3;Taf6;Zfp157
chr6	4355170	4355489	Gm33788	Col1a2
chr6	6369770	6369993	Gm34749	Slc25a13
chr6	7085501	7085781	Sdhaf3	
chr6	7158790	7158817	Gm19272	
chr6	12712957	12713019	Thsd7a	
chr6	13687572	13687581	Bmt2	Gpr85;Tmem168
chr6	15499180	15499412	Gm36352	
chr6	15777033	15777349	Mdfic	
chr6	16920041	16920369	Tfec	Tes
chr6	16978490	16978606	Tfec	Tes
chr6	18996028	18996062	Ankrd7	Lsm8
chr6	22349626	22349861	Fam3c	Wnt16
chr6	23307103	23307249	Fezf1	Aass
chr6	24249267	24249452	Slc13a1	
chr6	24628628	24628778	Lmod2	Asb15;Hyal4;Hyal6;Iqub;Ndufa5;Spam1;Wasl

chr6	32863551	32864316	Chchd3	
chr6	40895455	40895787	Prss58	Moxd2
chr6	42862652	42863068	Olfr449	Olfr38;Olfr444;Olfr446;Olfr447; Olfr448;;Olfr450;Olfr452;Olfr453;Tcaf1
chr6	43299610	43299860	Nobox	Arhgef5;Olfr13;Olfr237-ps1;Olfr434; Olfr435;Olfr437;Olfr441;Olfr47
chr6	43879755	43880076	Gm35163	
chr6	44179942	44180190	Gm35216	
chr6	44571975	44571998	Cntnap2	
chr6	54701734	54701983	Mturn	Fkbp14;Plekha8;Scrn1;Znrf2
chr6	60217857	60217973	LOC108169190	
chr6	60441449	60441968	Gm38823	
chr6	64865296	64865595	Gm35851	Atoh1;Smarcad1
chr6	64910587	64910945	Smarcad1	Atoh1
chr6	64910587	64910945	Atoh1	Smarcad1
chr6	74121743	74122203	Gm31747	
chr6	81385654	81385831	Gm38838	
chr6	82358355	82358792	Tacr1	
chr6	91408570	91409013	Wnt7a	Chchd4;Fbln2;Gm30437;Lsm3;Tmem43;Xpc
chr6	103119970	103120120	Mir6373	
chr6	106719623	106719748	Il5ra	Crbn;Trnt1
chr6	106719836	106720023	Il5ra	Crbn;Trnt1
chr6	107495920	107495980	Lrrn1	
chr6	128543268	128543615	Pzp	Clec2h;Clec2j;Fkbp4;Foxm1;Itfg2;Klrb1; Klrb1a;Nrip2;Rhno1;Tulp3
chr6	138246577	138246876	Gm30213	Lmo3;Mgst1;Slc15a5
chr6	138325245	138325442	Lmo3	Mgst1
chr6	138597146	138597168	Lmo3	Mgst2
chr6	146404558	146404605	Itpr2	
chr7	16668681	16668767	Ceacam15	Ap2s1;Arhgap35;Ceacam-ps1;Ceacam9; Fkrp;Gm29443;Npas1;Prkd2;Slc1a5;Strn4
chr7	18496116	18496434	Psg26	Psg18;Psg20;Psg21;Psg23;Psg25; Psg27;Psg28
chr7	18687775	18688016	Psg20	Mill2;Pglyrp1;Psg17;Psg19;Psg21; Psg22;Psg23;Psg25;Psg27;Symp1-ps1

chr7	31025342	31025926	Gm42377	Fam187b;Ffar1;Ffar3;Fxyd1;Fxyd3; Fxyd5;Fxyd7;Gramd1a;Hamp;Hamp2; Hpn;Lgi4;Lsr;Mag;Mir7050;Scn1b;Usf2
chr7	36244743	36244921	LOC108167497	
chr7	46562841	46563329	Sergef	Munc;Myod1;Saa1;Saa2;Saa3;Saa4; Saal1;Tph1
chr7	50261286	50261421	Nell1	
chr7	56976358	56976524	Gm39017	
chr7	65454218	65454480	Tjp1	Tarsl2
chr7	65454534	65454748	Tjp1	Tarsl3
chr7	88162952	88163157	Ctsc	
chr7	88341437	88341539	Ctsc	Rab38
chr7	88526908	88527574	Rab38	
chr7	88946696	88946981	Tmem135	
chr7	93855307	93855489	Gm32647	
chr7	94096864	94097145	Gm32647	
chr7	99045699	99045882	Uvrag	Dgat2;Mogat2
chr7	101409123	101409188	Pde2a	Arap1;Art2a-ps;Art2b;Atg16l2; Mir139;Stard10
chr7	104930410	104930610	Olfr668	Olfr665;Olfr666;Olfr667;Olfr669; Olfr670;Olfr671;Olfr672;Olfr675; Olfr676;Olfr677;Olfr678;Olfr679; Olfr681;Usp17la;Usp17lb;Usp17le
chr7	106691450	106691462	Olfr694	Olfr693;Olfr695;Olfr697;Olfr698; Olfr699;Olfr700;Olfr701;Olfr702; Olfr703;Olfr704;Olfr705;Olfr706
chr7	132166601	132167480	Cpxm2	Chst15
chr8	18807212	18807582	Agpat5	Angpt2;Defb37;Defb40;Mcph1;Xkr5
chr8	21012074	21012268	Defa21	AY761185;Defa22;Defa23;Defa25; Defa30;Defa31;Defa35;Defb33
chr8	28705520	28705621	Gm32505	
chr8	28781023	28781601	Gm32505	
chr8	36092063	36092388	D8Ertd82e	Lonrf1
chr8	42012604	42012807	2810404M03Rik	
chr8	42012896	42013134	2810404M03Rik	
chr8	43402949	43403277	Gm40498	Adam26a;Adam26b;Zfp42
chr8	50704365	50704543	1700019L22Rik	
chr8	53842813	53842950	Neil3	
chr8	53997566	53997792	Vegfc	
chr8	54160544	54160669	Gm33153	Vegfc
chr8	54828076	54828297	Gpm6a	Wdr17

chr8	60755864	60756008	Mfap3l	Clcn3;Hpf1
chr8	60756095	60756382	Mfap3l	Clcn3;Hpf2
chr8	63079219	63079258	Spock3	
chr8	63651606	63651653	Gm35424	
chr8	63825137	63825457	Gm35424	Sgol2b
chr8	65355786	65355906	BC030870	
chr8	65356291	65356365	BC030870	
chr8	65557413	65557749	March1	
chr8	68275398	68275550	Sh2d4a	Psd3;Sh2d4a
chr8	78162088	78162274	Gm39202	Ttc29
chr8	80252152	80252307	Gm39208	Hhip
chr8	82418759	82419137	Il15	
chr8	82473259	82473566	Il15	
chr8	89512595	89512649	Gm35593	
chr8	95360372	95360611	Mmp15	Ccdc113;Cfap20;Cngb1;Csnk2a2; Kifc3;Tepp;Usb1;Zfp319
chr8	98861232	98861386	Gm15679	Cdh8
chr8	100499701	100500059	Gm39232	
chr8	100939824	100939845	Gm39232	
chr8	101422589	101423032	Gm32423	
chr8	104088249	104088428	Cdh5	Bean1;Cklf;Tk2
chr8	115597623	115597794	Gm39256	Maf
chr8	118793886	118794073	Cdh13	
chr9	7596722	7597011	Gm31751	Mir5618;Mmp10;Mmp1a;Mmp20; Mmp27;Mmp3;Mmp7;Mmp8;Tmem123
chr9	9996675	9996885	Gm39289	Mir6237
chr9	10682488	10682666	Cntn5	
chr9	16685228	16685779	Fat3	
chr9	21669935	21670307	Smarca4	Angptl8;Carm1;Dock6;Kank2;Ldlr; Mir1946b;Mir199a-1;Mir7083;Spc24; Tmed1;Yipf2
chr9	22669194	22669431	Gm39309	Bbs9
chr9	37183119	37183406	Tmem218	Ccdc15;Hepacam;Pknox2;Slc37a2
chr9	76878880	76878982	Gm34158	Tinag
chr9	77092674	77093184	Tinag	Mlip
chr9	84566695	84566978	Gm39388	
chr9	87994269	87994437	Gm36767	
chr9	88332500	88332917	Nt5e	Snhg5;Snx14;Syncrip

chr9	89267912	89268262	Mthfs	Bcl2a1b;Mthfs;Trim43b
chr9	90490905	90491070	Gm39398	
chr9	97702946	97703278	4921534H16Rik	
chr9	107511290	107511317	Gm34037	Cacna2d2;Cyb561d2;Gnai2;Gnat1;Hemk1; Hyal1;Hyal2;Hyal3;lfrd2;Lsmem2;Nat6;Nprl2; Rassf1;Sema3b;Sema3f;Slc38a3;Tmem115; Tusc2;Zmynd10
chr9	109006980	109007017	Pfkfb4	Atrip;Ccadc51;Celsr3;Col7a1;Fbxw13;Fbxw21; Mir711;Nckips;Plxnb1;Shisa5;Slc26a6;Tma7; Tmem89;Trex1;Ucn2;Uqcrc1
chr9	118083000	118083076	Azi2	Cmc1;Rbms3
chr9	118964683	118964959	Ctdspl	Acaa1b;Dlec1;Mir26a-1;Plcd1;Vill
chrX	141436919	141437080	Col4a6	Col4a5
chrX	164944727	164944940	Mospd2	Fancb
chrY	90740328	90740592	LOC108168534	