

Supplementary Data 3 Custom gene panel ssSCv4

Chr	start	end	Gene	Probegroup
chr12	133263827	133264427	POLE	7_promotor-regions
chr19	50887104	50887704	POLD1	7_promotor-regions
chr19	50901589	50902189	POLD1	7_promotor-regions
chr2	47629806	47630406	MSH2	7_promotor-regions
chr2	47636848	47637448	MSH2	7_promotor-regions
chr2	48009784	48010384	MSH6	7_promotor-regions
chr3	37034478	37035078	MLH1	7_promotor-regions
chr3	37034803	37035403	MLH1	7_promotor-regions
chr3	37053024	37053624	MLH1	7_promotor-regions
chr5	1294967	1295567	TERT	7_promotor-regions
chr5	1295166	1295311	TERT	7_promotor-regions
chr7	6048579	6049179	PMS2	7_promotor-regions
chr7	99262809	99262860	rs10264272	IKP_SNPs
chr10	96741027	96741078	rs1057910	IKP_SNPs
chr6	29913272	29913323	rs1061235	IKP_SNPs
chr22	42526668	42526719	rs1065852	IKP_SNPs
chr6	18130892	18130943	rs1142345	IKP_SNPs
chr10	96521631	96521682	rs12248560	IKP_SNPs
chr6	29746843	29746894	rs1633021	IKP_SNPs
chr10	96535220	96535271	rs17884712	IKP_SNPs
chr10	96702021	96702072	rs1799853	IKP_SNPs
chr6	18139202	18139253	rs1800460	IKP_SNPs
chr6	18143929	18143980	rs1800462	IKP_SNPs
chr19	41515237	41515288	rs2279343	IKP_SNPs
chr6	31431754	31431805	rs2395029	IKP_SNPs
chr10	96740955	96741006	rs28371685	IKP_SNPs
chr10	96741032	96741083	rs28371686	IKP_SNPs
chr22	42525746	42525797	rs28371706	IKP_SNPs
chr22	42523779	42523830	rs28371725	IKP_SNPs
chr19	41518195	41518246	rs28399499	IKP_SNPs
chr10	96522437	96522488	rs28399504	IKP_SNPs
chr6	30946122	30946173	rs2844682	IKP_SNPs
chr2	234669593	234669644	rs35350960	IKP_SNPs
chr22	42524218	42524269	rs35742686	IKP_SNPs
chr19	41512815	41512866	rs3745274	IKP_SNPs
chr22	42524921	42524972	rs3892097	IKP_SNPs
chr6	30699358	30699409	rs3909184	IKP_SNPs
chr1	97915588	97915639	rs3918290	IKP_SNPs
chr10	96535147	96535198	rs41291556	IKP_SNPs
chr7	99250368	99250418	rs41303343	IKP_SNPs
chr2	234669118	234669169	rs4148323	IKP_SNPs
chr12	21331523	21331574	rs4149056	IKP_SNPs
chr10	96541590	96541641	rs4244285	IKP_SNPs
chr10	96540384	96540435	rs4986893	IKP_SNPs
chr22	42525060	42525111	rs5030655	IKP_SNPs
chr22	42524150	42524203	rs5030656	IKP_SNPs
chr22	42525009	42525060	rs5030865	IKP_SNPs
chr1	97981317	97981368	rs55886062	IKP_SNPs
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chr10	96612469	96612520	rs56337013	IKP_SNPs
chr1	169519023	169519074	rs6025	IKP_SNPs
chr10	96541589	96541640	rs6413438	IKP_SNPs
chr1	97547921	97547972	rs67376798	IKP_SNPs
chr7	99270513	99270564	rs776746	IKP_SNPs
chr2	234668855	234668907	rs8175347	IKP_SNPs
chr16	31104852	31104903	rs9934438	IKP_SNPs
chr18	19995535	19997774	CTAGE1	QC_SNPs_and_regions
chr1	152057441	152060019	TCHHL1	QC_SNPs_and_regions
chr9	5919682	5923309	KIAA2026	QC_SNPs_and_regions
chr9	13150505	13150556	rs10756457	QC_SNPs_and_regions
chr4	68780373	68780424	rs1371932	QC_SNPs_and_regions
chr15	27772650	27772701	rs140679	QC_SNPs_and_regions
chr4	85762359	85762410	rs2046402	QC_SNPs_and_regions
chr6	26091310	26091361	rs2071303	QC_SNPs_and_regions
chr6	49425495	49425546	rs2229384	QC_SNPs_and_regions
chr1	183542361	183542412	rs2274064	QC_SNPs_and_regions
chr1	45973902	45973953	rs2275276	QC_SNPs_and_regions
chr6	101166069	101166120	rs41288423	QC_SNPs_and_regions
chr12	72416209	72416260	rs4290270	QC_SNPs_and_regions
chr13	78475287	78475338	rs5351	QC_SNPs_and_regions
chr13	47469914	47469965	rs6313	QC_SNPs_and_regions
chr3	193209152	193209203	rs6788448	QC_SNPs_and_regions
chr6	79679551	79679602	rs7742431	QC_SNPs_and_regions
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chr10	43606913	43607546	RET	selected_fusions
chr10	43608411	43609003	RET	selected_fusions
chr10	43609123	43609927	RET	selected_fusions

chr10	43610184	43612031	RET	selected_fusions
chr12	12022903	12037378	ETV6	selected_fusions
chr15	34638236	34640169	C15orf55	selected_fusions
chr16	31195717	31196259	FUS	selected_fusions
chr16	31196500	31198122	FUS	selected_fusions
chr16	31198157	31199645	FUS	selected_fusions
chr16	31200547	31200985	FUS	selected_fusions
chr17	30264503	30267304	SUZ12	selected_fusions
chr17	34149837	34151081	TAF15	selected_fusions
chr17	38487648	38504567	RARA	selected_fusions
chr19	1615519	1615684	TCF3	selected_fusions
chr19	1615820	1619109	TCF3	selected_fusions
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chr1	156844192	156844362	NTRK1	selected_fusions
chr1	156844418	156844697	NTRK1	selected_fusions
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chr21	42870116	42879876	TMPRSS2	selected_fusions
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chr22	23632600	23634727	BCR	selected_fusions
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chr22	29693939	29694722	EWSR1	selected_fusions
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chr7	55221845	55223522	EGFR	selected_fusions
chr8	38271322	38271435	FGFR1	selected_fusions
chr9	87285875	87317073	NTRK2	selected_fusions
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chr15	58903172	58903331	ADAM10	693_selected_genes
chr15	58903981	58904215	ADAM10	693_selected_genes
chr15	58913644	58913845	ADAM10	693_selected_genes
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chr2	215593374	215593757	BARD1	693_selected_genes
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chr2	215609765	215609908	BARD1	693_selected_genes
chr2	215610420	215610603	BARD1	693_selected_genes
chr2	215617145	215617304	BARD1	693_selected_genes
chr2	215632180	215632403	BARD1	693_selected_genes
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chr2	215661759	215661866	BARD1	693_selected_genes
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chr19	47724932	47725200	BBC3	693_selected_genes
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chr19	47731389	47731728	BBC3	693_selected_genes
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chr18	60795832	60796017	BCL2	693_selected_genes
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chr20	30253726	30253914	BCL2L1	693_selected_genes
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chr2	111881297	111881741	BCL2L11	693_selected_genes

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chr2	111902039	111902103	BCL2L11	693_selected_genes
chr2	111907595	111907749	BCL2L11	693_selected_genes
chr2	111909373	111909453	BCL2L11	693_selected_genes
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chr2	111918970	111919041	BCL2L11	693_selected_genes
chr2	111921684	111921833	BCL2L11	693_selected_genes
chr14	23776951	23777433	BCL2L2	693_selected_genes
chr14	23777999	23778199	BCL2L2	693_selected_genes
chr14	23780156	23780332	BCL2L2	693_selected_genes
chr3	187440220	187440414	BCL6	693_selected_genes
chr3	187442703	187442891	BCL6	693_selected_genes
chr3	187443261	187443442	BCL6	693_selected_genes
chr3	187444493	187444711	BCL6	693_selected_genes
chr3	187446122	187446357	BCL6	693_selected_genes
chr3	187446812	187447834	BCL6	693_selected_genes
chr3	187449471	187449743	BCL6	693_selected_genes
chr3	187451295	187451506	BCL6	693_selected_genes
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chr6	136582377	136582640	BCLAF1	693_selected_genes
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chrX	129171316	129171533	BCORL1	693_selected_genes
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chrX	129184666	129184794	BCORL1	693_selected_genes
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chr22	23613693	23613804	BCR	693_selected_genes
chr22	23615242	23615345	BCR	693_selected_genes
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chr22	23626138	23626310	BCR	693_selected_genes
chr22	23627194	23627413	BCR	693_selected_genes
chr22	23629320	23629490	BCR	693_selected_genes
chr22	23630258	23630384	BCR	693_selected_genes
chr22	23631678	23631833	BCR	693_selected_genes
chr22	23632500	23632625	BCR	693_selected_genes
chr22	23634702	23634850	BCR	693_selected_genes
chr22	23637185	23637367	BCR	693_selected_genes
chr22	23651585	23651695	BCR	693_selected_genes
chr22	23652485	23652645	BCR	693_selected_genes
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chr22	23655048	23655233	BCR	693_selected_genes

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chr15	91337371	91337612	BLM	693_selected_genes
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chr15	91347371	91347614	BLM	693_selected_genes
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chr10	88649793	88650006	BMPR1A	693_selected_genes
chr10	88651858	88652011	BMPR1A	693_selected_genes
chr10	88659525	88659672	BMPR1A	693_selected_genes
chr10	88659758	88659908	BMPR1A	693_selected_genes
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chr10	88678903	88679251	BMPR1A	693_selected_genes
chr10	88681251	88681477	BMPR1A	693_selected_genes
chr10	88683107	88683288	BMPR1A	693_selected_genes
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chr7	140434371	140434595	BRAF	693_selected_genes
chr7	140439586	140439771	BRAF	693_selected_genes
chr7	140447189	140447272	BRAF	693_selected_genes
chr7	140449061	140449243	BRAF	693_selected_genes
chr7	140453049	140453218	BRAF	693_selected_genes
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chr7	140481350	140481518	BRAF	693_selected_genes
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chr7	140487322	140487409	BRAF	693_selected_genes
chr7	140494082	140494292	BRAF	693_selected_genes
chr7	140500136	140500306	BRAF	693_selected_genes
chr7	140501186	140501385	BRAF	693_selected_genes
chr7	140507734	140507887	BRAF	693_selected_genes
chr7	140508069	140508141	BRAF	693_selected_genes
chr7	140508666	140508820	BRAF	693_selected_genes
chr7	140534383	140534697	BRAF	693_selected_genes
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chr17	41203054	41203159	BRCA1	693_selected_genes
chr17	41209043	41209177	BRCA1	693_selected_genes
chr17	41215324	41215415	BRCA1	693_selected_genes
chr17	41215865	41215993	BRCA1	693_selected_genes
chr17	41219599	41219737	BRCA1	693_selected_genes
chr17	41222919	41223280	BRCA1	693_selected_genes
chr17	41226322	41226563	BRCA1	693_selected_genes
chr17	41228479	41228656	BRCA1	693_selected_genes
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chr17	41247837	41247964	BRCA1	693_selected_genes
chr17	41249235	41249331	BRCA1	693_selected_genes
chr17	41251766	41251922	BRCA1	693_selected_genes
chr17	41256113	41256303	BRCA1	693_selected_genes
chr17	41256859	41256998	BRCA1	693_selected_genes
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chr17	41262526	41262622	BRCA1	693_selected_genes
chr17	41267717	41267821	BRCA1	693_selected_genes
chr17	41276008	41276138	BRCA1	693_selected_genes
chr17	41277173	41277227	BRCA1	693_selected_genes
chr13	32890572	32890689	BRCA2	693_selected_genes
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chr13	32900610	32900775	BRCA2	693_selected_genes
chr13	32903554	32903654	BRCA2	693_selected_genes
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chr13	32906383	32907549	BRCA2	693_selected_genes
chr13	32910376	32915358	BRCA2	693_selected_genes
chr13	32918669	32918815	BRCA2	693_selected_genes
chr13	32920938	32921058	BRCA2	693_selected_genes
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chr13	32936634	32936855	BRCA2	693_selected_genes
chr13	32937290	32937695	BRCA2	693_selected_genes
chr13	32944513	32944719	BRCA2	693_selected_genes
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chr13	32970102	32970254	BRCA2	693_selected_genes
chr13	32971009	32971206	BRCA2	693_selected_genes
chr13	32972273	32972932	BRCA2	693_selected_genes
chr19	15349162	15349281	BRD4	693_selected_genes
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chr19	15349844	15350100	BRD4	693_selected_genes
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chr17	59858175	59858391	BRIP1	693_selected_genes
chr17	59861221	59861293	BRIP1	693_selected_genes
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chr17	59870932	59871115	BRIP1	693_selected_genes
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chr17	59885802	59886143	BRIP1	693_selected_genes
chr17	59924436	59924606	BRIP1	693_selected_genes
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chr15	40475889	40476109	BUB1B	693_selected_genes
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chr15	40504674	40504874	BUB1B	693_selected_genes
chr15	40505507	40505700	BUB1B	693_selected_genes
chr15	40509671	40509893	BUB1B	693_selected_genes
chr15	40510631	40510788	BUB1B	693_selected_genes
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chr9	21968182	21968266	CDKN2A	693_selected_genes
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chr1	51436015	51436194	CDKN2C	693_selected_genes
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chrX	32380879	32381100	DMD	693_selected_genes
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chrX	32430253	32430351	DMD	693_selected_genes
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chr19	2213512	2213664	DOT1L	693_selected_genes
chr19	2213822	2214010	DOT1L	693_selected_genes
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chr19	2215431	2215595	DOT1L	693_selected_genes
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chr19	2223254	2223510	DOT1L	693_selected_genes
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chr1	98058748	98058968	DPYD	693_selected_genes
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chr22	41558701	41558808	EP300	693_selected_genes
chr22	41560031	41560159	EP300	693_selected_genes
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chr22	41564427	41564628	EP300	693_selected_genes
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chr22	41565481	41565645	EP300	693_selected_genes
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chr22	41568477	41568692	EP300	693_selected_genes
chr22	41569601	41569813	EP300	693_selected_genes
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chr22	41572751	41574985	EP300	693_selected_genes
chr2	47596189	47596399	EPCAM	693_selected_genes
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chr2	47600576	47600734	EPCAM	693_selected_genes
chr2	47600921	47601212	EPCAM	693_selected_genes
chr2	47602347	47602463	EPCAM	693_selected_genes
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chr2	47612279	47612374	EPCAM	693_selected_genes
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chr1	16451684	16451840	EPHA2	693_selected_genes

chr1	16455903	16456109	EPHA2	693_selected_genes
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chr19	11240101	11240371	LDLR	693_selected_genes
chr19	11241931	11242219	LDLR	693_selected_genes
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chr5	38505981	38506201	LIFR	693_selected_genes
chr5	38506579	38506759	LIFR	693_selected_genes
chr5	38510540	38510845	LIFR	693_selected_genes
chr5	38511866	38512091	LIFR	693_selected_genes
chr5	38523495	38523709	LIFR	693_selected_genes
chr5	38527231	38527421	LIFR	693_selected_genes
chr5	38528802	38528967	LIFR	693_selected_genes
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chr8	56864499	56864699	LYN	693_selected_genes
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chr8	56879248	56879481	LYN	693_selected_genes
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chr8	56910879	56911083	LYN	693_selected_genes
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chr22	21349631	21349791	LZTR1	693_selected_genes
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chrX	70342332	70342482	MED12	693_selected_genes
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chrX	70343418	70343595	MED12	693_selected_genes
chrX	70343983	70344263	MED12	693_selected_genes
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chrX	70345487	70345588	MED12	693_selected_genes
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chrX	70347717	70347995	MED12	693_selected_genes
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chr3	69915416	69915522	MITF	693_selected_genes
chr3	69928230	69928559	MITF	693_selected_genes
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chr3	69988223	69988357	MITF	693_selected_genes
chr3	69990361	69990507	MITF	693_selected_genes
chr3	69998176	69998344	MITF	693_selected_genes
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chr3	70005580	70005706	MITF	693_selected_genes
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chr3	37050279	37050421	MLH1	693_selected_genes
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chr3	37053476	37053615	MLH1	693_selected_genes
chr3	37055897	37056060	MLH1	693_selected_genes
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chr3	37070249	37070448	MLH1	693_selected_genes
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chr3	37088984	37089199	MLH1	693_selected_genes
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chr14	75489672	75489746	MLH3	693_selected_genes
chr14	75497220	75497443	MLH3	693_selected_genes
chr14	75498745	75498907	MLH3	693_selected_genes
chr14	75500096	75500218	MLH3	693_selected_genes
chr14	75503346	75503470	MLH3	693_selected_genes
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chr14	75506588	75506743	MLH3	693_selected_genes
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chr10	21827736	21827866	MLLT10	693_selected_genes
chr10	21840719	21840875	MLLT10	693_selected_genes
chr10	21845546	21845896	MLLT10	693_selected_genes
chr10	21875197	21875302	MLLT10	693_selected_genes
chr10	21884234	21884394	MLLT10	693_selected_genes
chr10	21901251	21901405	MLLT10	693_selected_genes
chr10	21903734	21903878	MLLT10	693_selected_genes
chr10	21906015	21906161	MLLT10	693_selected_genes
chr10	21940576	21940722	MLLT10	693_selected_genes
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chr10	22019803	22020008	MLLT10	693_selected_genes
chr10	22021802	22022041	MLLT10	693_selected_genes
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chr9	20346415	20346597	MLLT3	693_selected_genes
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chr9	20354780	20354902	MLLT3	693_selected_genes
chr9	20360714	20360864	MLLT3	693_selected_genes
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chr9	20365641	20365767	MLLT3	693_selected_genes
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chr16	55536665	55536826	MMP2	693_selected_genes
chr16	55539225	55539379	MMP2	693_selected_genes
chr22	28146877	28147109	MN1	693_selected_genes
chr22	28192725	28196556	MN1	693_selected_genes
chr1	158811918	158812233	MNDA	693_selected_genes
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chr11	94225782	94225861	MRE11A	693_selected_genes
chr11	94225922	94225992	MRE11A	693_selected_genes
chr2	47630305	47630566	MSH2	693_selected_genes
chr2	47635514	47635719	MSH2	693_selected_genes
chr2	47637207	47637536	MSH2	693_selected_genes
chr2	47639527	47639724	MSH2	693_selected_genes
chr2	47641382	47641582	MSH2	693_selected_genes
chr2	47643409	47643593	MSH2	693_selected_genes
chr2	47656855	47657105	MSH2	693_selected_genes
chr2	47672661	47672821	MSH2	693_selected_genes
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chr2	47693771	47693972	MSH2	693_selected_genes
chr2	47698078	47698226	MSH2	693_selected_genes
chr2	47702138	47702434	MSH2	693_selected_genes
chr2	47703480	47703735	MSH2	693_selected_genes
chr2	47705385	47705683	MSH2	693_selected_genes
chr2	47707809	47708035	MSH2	693_selected_genes
chr2	47709892	47710113	MSH2	693_selected_genes
chr2	47739416	47739598	MSH2	693_selected_genes
chr2	48010347	48010657	MSH6	693_selected_genes
chr2	48018040	48018287	MSH6	693_selected_genes
chr2	48023007	48023227	MSH6	693_selected_genes
chr2	48025724	48028319	MSH6	693_selected_genes
chr2	48030533	48030849	MSH6	693_selected_genes
chr2	48032023	48032191	MSH6	693_selected_genes
chr2	48032731	48032871	MSH6	693_selected_genes
chr2	48033317	48033522	MSH6	693_selected_genes
chr2	48033565	48033815	MSH6	693_selected_genes
chr2	48033892	48034024	MSH6	693_selected_genes
chr1	11850711	11850980	MTHFR	693_selected_genes
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chr1	11854389	11854620	MTHFR	693_selected_genes
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chr1	11860243	11860404	MTHFR	693_selected_genes
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chr1	11169321	11169452	MTOR	693_selected_genes
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chr1	11174349	11174535	MTOR	693_selected_genes
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chr2	157184337	157184551	NR4A2	693_selected_genes
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chr6	117638280	117638460	ROS1	693_selected_genes
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chr16	2224226	2224359	TRAF7	693_selected_genes
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chr16	2225276	2225443	TRAF7	693_selected_genes
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chr18	657717	657972	TYMS	693_selected_genes
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chr1	117699170	117699568	VTCN1	693_selected_genes
chr1	117712703	117712818	VTCN1	693_selected_genes
chr1	117715783	117715874	VTCN1	693_selected_genes
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chr12	936182	936482	WNK1	693_selected_genes
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chr8	30938357	30938837	WRN	693_selected_genes
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chr3	14187415	14187684	XPC	693_selected_genes
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chr7	152345701	152346473	XRCC2	693_selected_genes
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chr7	152373100	152373189	XRCC2	693_selected_genes
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chr14	104165675	104165938	XRCC3	693_selected_genes
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chr18	724398	724657	YES1	693_selected_genes
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chr18	736782	736986	YES1	693_selected_genes
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chr16	72984342	72984889	ZFH3	693_selected_genes
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chr14	69259573	69259812	ZFP36L1	693_selected_genes
chr14	69262485	69263036	ZFP36L1	693_selected_genes
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chr1	11736840	11737030	MAD2L2	693_selected_genes
chr1	11737487	11737696	MAD2L2	693_selected_genes
chr1	11740384	11740683	MAD2L2	693_selected_genes
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chrY	25276401	25276528	DAZ1	CNV_SNPs
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chrY	25310861	25310983	DAZ1	CNV_SNPs
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chrY	25314778	25314968	DAZ1	CNV_SNPs
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chr9	21971027	21971030	CDKN2A	281_hotspots
chr9	21971093	21971096	CDKN2A	281_hotspots
chr9	21971108	21971111	CDKN2A	281_hotspots
chr9	21971117	21971120	CDKN2A	281_hotspots
chr9	21971183	21971186	CDKN2A	281_hotspots
chr9	21971204	21971207	CDKN2A	281_hotspots
chr9	21974676	21974679	CDKN2A	281_hotspots
chr9	78848415	78848418	PCSK5	281_hotspots
chr9	80537109	80537112	GNAQ	281_hotspots
chrX	44922801	44922804	KDM6A	281_hotspots
chrX	70349257	70349260	MED12	281_hotspots