

# Exome report

## Exome variant calling report

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library(vcfR)
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### Quality Control

Min length Max length Average length Min base quality Number of reads before in 1 Number of reads after  
in 1 Number of reads before in 2 Number of reads after in 2

dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
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rs2234167	135355	chr1	2562891	G	A
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rs2493292	227027	chr1	3412095	C	T
rs6688832	16131	chr1	9263851	G	A
rs12711521	291786	chr1	11030859	C	A
rs1801131	3521	chr1	11794419	T	G
rs1801133	3520	chr1	11796321	G	A
rs34605986	193996	chr1	21577638	T	C
rs897471	291236	chr1	21864961	G	A
rs989994	295881	chr1	21880156	T	C
rs1874792	295887	chr1	21880742	T	C
rs7349185	95963	chr1	25805163	G	A
rs2294228	95959	chr1	25814082	C	A
rs3816539	297075	chr1	26460136	G	A
rs2491132	12756	chr1	30876800	C	T
rs2228567	258364	chr1	40307451	G	C
rs34287852	45101	chr1	40831156	T	G
rs324420	6724	chr1	46405089	C	A
rs1799821	92429	chr1	53210776	G	A
rs1799822	92433	chr1	53213557	A	G
rs5174	6996	chr1	53247055	C	T
rs562556	201124	chr1	55058564	G	A
rs505151	36670	chr1	55063514	G	A
rs652785	17039	chr1	56875054	C	A
rs14008	297768	chr1	58576509	G	T
rs1062964	297770	chr1	58576716	C	G
rs1137101	8521	chr1	65592830	A	G
rs1166698	47911	chr1	77926761	G	A
rs1801581	7913	chr1	94047009	C	T
rs1801159	100092	chr1	97515839	T	C

dbSNP ID	clinvarID	CHROM	POS	REFs	ALTs
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rs6330	291993	chr1	115286692	G	A
rs4839469	292005	chr1	115663802	G	A
rs4074536	44160	chr1	115768346	T	C
rs41317515	261079	chr1	150553568	G	C
rs2228145	14660	chr1	154454494	A	C
rs2229857	195112	chr1	154601491	T	C
rs1007211	193129	chr1	156860987	G	A
rs2482965	258929	chr1	158649938	A	C
rs12075	17728	chr1	159205564	G	A
rs396991	225994	chr1	161544752	A	C
rs10127939	14828	chr1	161548543	A	T
rs6027	255215	chr1	169514323	T	C
rs6030	255210	chr1	169529737	T	C
rs1800595	37345	chr1	169541110	T	C
rs6032	255202	chr1	169542317	T	C
rs4525	255201	chr1	169542496	T	C
rs4524	255200	chr1	169542517	T	C
rs6018	255199	chr1	169542640	T	G
rs6033	255188	chr1	169552615	A	G
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rs2266782	38394	chr1	171107825	G	A
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rs7536561	262225	chr1	180274389	A	G
rs2236410	129620	chr1	181049100	A	G
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rs10911825	294262	chr1	186132407	A	G
rs6003	16520	chr1	197061891	C	T
rs3762271	21611	chr1	197101312	G	T
rs41310927	21605	chr1	197101567	T	C
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rs45549044	48427	chr1	215671031	C	T
rs35309576	48378	chr1	215741484	T	C
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rs1051740	16604	chr1	225831932	T	C
rs2234922	16605	chr1	225838705	A	G
rs699	18068	chr1	230710048	A	G
rs966365	262600	chr1	236394471	G	A
rs2275155	260006	chr1	243330605	A	T
rs2280132	256605	chr2	1477383	G	T
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rs55941323	335700	chr2	29232333	A	T
rs35228363	133462	chr2	29275101	G	A
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rs6720173	336036	chr2	43813262	G	C
rs4148211	288558	chr2	43844604	A	G
rs4148217	198902	chr2	43872294	C	A
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rs1042821	36581	chr2	47783349	G	A
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rs4453725	138516	chr2	69431994	A	T
rs7566476	336909	chr2	70785602	C	G
rs11541017	138182	chr2	71124357	G	A
rs699664	337268	chr2	85553413	C	T
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rs13045	128988	chr2	88595605	T	C
rs1013940	261428	chr2	107992192	A	G
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rs7604639	330754	chr2	111994351	G	A
rs2230515	330759	chr2	111997424	A	G
rs2230517	100581	chr2	112028472	G	A
rs3738880	95271	chr2	120989380	G	T
rs12711538	95272	chr2	120989830	G	A
rs2322659	331168	chr2	135798089	T	C
rs4954449	331204	chr2	135817964	T	C
rs1061305	95126	chr2	151490465	T	C
rs2288210	95109	chr2	151565562	C	G
rs13013209	95137	chr2	151643935	C	G
rs7426114	95131	chr2	151671058	C	T
rs6735208	95128	chr2	151679984	T	A
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rs3747517	261565	chr2	162272314	T	C
rs7592429	130660	chr2	165931826	T	C
rs1432273	130657	chr2	165941136	C	T
rs2298771	36753	chr2	166036278	C	T
rs2287622	194214	chr2	168973818	A	G
rs4667591	129501	chr2	169146922	T	G
rs2075252	129500	chr2	169154475	T	C
rs28763868	259911	chr2	169510589	G	A
rs17304212	43871	chr2	178461008	C	T
rs2291310	46582	chr2	178759031	C	T
rs2291311	47692	chr2	178764734	C	T

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rs3219156	261364	chr2	201760892	C	T
rs231775	16921	chr2	203867991	A	G
rs10932258	333897	chr2	208320256	G	A
rs2363468	333905	chr2	208325606	T	C
rs893254	333909	chr2	208325795	A	T
rs893253	333910	chr2	208325804	C	G
rs1529979	333917	chr2	208326358	C	A
rs2286963	1620	chr2	210195326	T	G
rs1047883	128849	chr2	210591913	A	G
rs1047891	128852	chr2	210675783	C	A
rs3738888	136500	chr2	214730440	G	A
rs2070094	140757	chr2	214767531	C	T
rs2229571	142769	chr2	214780740	C	G
rs1048108	183698	chr2	214809500	G	A
rs7560008	262824	chr2	215011442	A	T
rs41272699	44265	chr2	219420154	C	T
rs1800517	255028	chr2	227051116	G	A
rs2229814	255014	chr2	227089883	G	A
rs10178458	254996	chr2	227246719	T	C
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rs28381984	254985	chr2	227270915	C	T
rs56226424	254987	chr2	227282377	A	G
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rs1135791	334902	chr2	230177560	A	G
rs1365776	334909	chr2	230207994	C	T
rs9061	334910	chr2	230212395	C	T
rs11556887	334917	chr2	230212961	G	A
rs1130335	13661	chr2	232378876	C	T
rs1529874	128957	chr2	232484878	G	A
rs2241880	1130	chr2	233274722	A	G
rs7565275	335067	chr2	233320674	A	G
rs1046976	335074	chr2	233346902	T	C
rs1131296	95018	chr2	237334649	G	A
rs2270669	95014	chr2	237334821	C	G
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rs3864017	134315	chr3	10064848	C	T
rs33955793	96175	chr3	12503330	G	A
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rs2228000	135485	chr3	14158387	G	A
rs6795970	259996	chr3	38725184	A	G
rs6805421	226688	chr3	42686652	A	G
rs123509	226689	chr3	42691976	T	C
rs3772165	128387	chr3	43561311	C	T
rs17279437	4845	chr3	45772602	G	A
rs2271615	345428	chr3	45796394	G	C
rs3796375	261722	chr3	45967298	G	A
rs3733100	261738	chr3	45968372	C	G

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rs1131356	258106	chr3	58123435	G	A
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rs1053338	128519	chr3	63982224	A	G
rs3774729	128518	chr3	63996406	G	A
rs33944211	128452	chr3	94049424	C	G
rs571391	95747	chr3	101244310	G	A
rs2255543	255481	chr3	120670469	T	A
rs17849995	257090	chr3	121781852	C	T
rs1049296	12617	chr3	133775510	C	T
rs1127826	128708	chr3	134559428	C	T
rs2229032	136470	chr3	142459302	C	T
rs28910273	158000	chr3	142469495	A	C
rs2227928	93668	chr3	142562770	A	G
rs2303909	343925	chr3	158649111	G	A
rs9283633	344065	chr3	165065377	T	C
rs1803274	13220	chr3	165773492	C	T
rs5400	130349	chr3	171014511	G	A
rs1515442	344221	chr3	173117335	T	C
rs2270968	95941	chr3	183037421	T	G
rs9820367	217776	chr3	184353275	G	C
rs56260729	259876	chr3	195868079	G	A
rs10794537	92651	chr4	987183	T	G
rs4961	18274	chr4	2904980	G	T
rs6811423	128916	chr4	3492873	A	G
rs6414624	198282	chr4	5741785	T	C
rs2302075	167044	chr4	5753815	C	A
rs1383180	262768	chr4	5783715	G	A
rs1801212	45463	chr4	6300792	G	A
rs734312	45442	chr4	6301627	G	A
rs2280205	350207	chr4	9908299	G	A
rs2276961	347006	chr4	10021357	C	T
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rs4833095	8361	chr4	38798089	T	C
rs35597368	41794	chr4	54273604	T	C
rs1902023	225966	chr4	68670366	A	C
rs12647691	349874	chr4	79984836	C	G
rs3816873	14242	chr4	99583507	T	C
rs10516487	1269	chr4	101829919	G	A
rs2454206	135287	chr4	105275794	A	G
rs4698797	195437	chr4	109851911	G	A
rs764205	197397	chr4	109869755	A	T
rs2347131	347195	chr4	109870205	G	A
rs2347132	347196	chr4	109870257	C	T
rs2237051	347245	chr4	109980042	G	A
rs4698803	347252	chr4	109993271	A	T
rs309370	166725	chr4	122743049	G	A
rs13135778	166727	chr4	122743291	G	A

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rs34324114	266051	chr4	169477323	A	C
rs2228119	92308	chr4	177438806	G	C
rs1055138	39267	chr4	186191887	C	G
rs1801394	7029	chr5	7870860	A	G
rs162036	138291	chr5	7885846	A	G
rs10380	138300	chr5	7897078	C	T
rs3734110	163132	chr5	13701427	T	C
rs30168	178743	chr5	13718980	G	A
rs10078391	163142	chr5	13811666	T	C
rs4701997	178753	chr5	13894785	T	A
rs339445	178760	chr5	13944403	A	C
rs2278008	128360	chr5	33989413	C	T
rs34677	128359	chr5	33998663	C	A
rs2287939	128358	chr5	33998778	A	G
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rs3195676	128356	chr5	34007995	C	T
rs6180	8658	chr5	42719137	A	C
rs1185246	43847	chr5	69419483	C	T
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rs2973558	257364	chr5	73868140	C	A
rs17634865	257373	chr5	73909892	C	T
rs1048167	137480	chr5	74721674	C	T
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rs1065757	92350	chr5	78885654	C	T
rs2438374	46282	chr5	90811291	A	G
rs6235	354639	chr5	96393194	C	G
rs6234	354640	chr5	96393270	G	C
rs459552	21030	chr5	112841059	T	A
rs11539471	226665	chr5	119525243	T	C
rs11205	226667	chr5	119526018	A	G
rs1800449	14363	chr5	122077513	C	T
rs154001	129039	chr5	128349443	C	T
rs1050152	5750	chr5	132340627	C	T
rs55653181	216618	chr5	132589791	G	C
rs10988	138099	chr5	146120433	C	T
rs34482796	139257	chr5	148097988	C	T
rs2303063	260043	chr5	148100464	G	A
rs2303067	5269	chr5	148101392	A	G
rs3777134	260049	chr5	148118456	G	A
rs30832	196209	chr5	149981314	T	C
rs15251	130574	chr5	150396669	C	T
rs45491898	130575	chr5	150396792	G	C
rs153477	167150	chr5	151259848	A	G
rs153478	167151	chr5	151259878	A	G

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rs2645329	93438	chr5	178994769	T	G
rs398829	353134	chr5	179207671	C	T
rs55793208	259188	chr5	179833099	G	C
rs34255532	16264	chr5	180618911	G	A
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rs11243011	137292	chr6	5431107	A	G
rs1042391	15961	chr6	16290530	T	A
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rs437179	356318	chr6	31961237	A	C
rs1800454	13724	chr6	32832635	C	T
rs1135216	13730	chr6	32847198	T	C
rs1057141	13729	chr6	32850997	T	C
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rs2064317	99671	chr6	35509255	A	G
rs7764472	286865	chr6	35511797	G	C
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rs12197079	257570	chr6	36306376	C	T
rs4713956	257571	chr6	36307681	T	C
rs4746	16037	chr6	38682852	T	G
rs1129187	92787	chr6	42964462	G	T
rs9381231	260436	chr6	43046561	T	C
rs1051931	7916	chr6	46705206	A	G
rs1805018	7915	chr6	46711566	A	G
rs8589	92685	chr6	49435569	T	C
rs2435322	96410	chr6	52010452	A	C
rs9296669	96399	chr6	52026025	G	A
rs9370096	96386	chr6	52050158	G	A
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rs66462731	137259	chr6	63788162	T	A
rs4710457	93620	chr6	63984461	C	T
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rs9294631	93605	chr6	64912570	A	G
rs17411795	137268	chr6	65295964	T	A
rs9342464	137267	chr6	65295995	C	T
rs12193967	137261	chr6	65495052	G	A
rs12648	138124	chr6	69697573	A	T
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rs9486659	130361	chr6	107634891	A	G
rs17854547	354902	chr6	107893490	C	T
rs9885672	137377	chr6	109786314	T	C
rs1230345	355060	chr6	112061110	G	T
rs6927567	165060	chr6	116629571	G	A

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rs9490809	227119	chr6	123548462	G	C
rs1044498	13589	chr6	131851228	A	C
rs9493627	44773	chr6	133468590	G	A
rs6923492	129210	chr6	146434188	T	C
rs73015965	13583	chr6	160706469	A	G
rs1801582	41221	chr6	161386823	C	G
rs2228006	135065	chr7	5987144	T	C
rs2285944	93683	chr7	21543346	A	T
rs12670130	163096	chr7	21588579	A	G
rs62441683	163098	chr7	21588624	C	G
rs10224537	163100	chr7	21600787	A	G
rs9639393	163113	chr7	21739660	A	G
rs2214326	178732	chr7	21816533	G	A
rs4722064	163121	chr7	21854375	G	T
rs6461613	178735	chr7	21884396	A	G
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rs12540919	44847	chr7	24717332	C	T
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rs1049402	258532	chr7	30595045	C	G
rs324981	2192	chr7	34778501	A	T
rs197367	261051	chr7	36406247	G	A
rs10250905	164801	chr7	37867702	T	C
rs56128139	178811	chr7	37894544	T	C
rs846266	255446	chr7	42048623	T	C
rs6263	360434	chr7	50528202	T	C
rs9530	92588	chr7	65960907	A	G
rs2032582	166622	chr7	87531302	A	C
rs42524	254953	chr7	94413927	C	G
rs854560	13736	chr7	95316772	A	T
rs6092	13573	chr7	101128436	G	A
rs2291569	129091	chr7	128848680	G	A
rs10258719	261345	chr7	138771243	A	G
rs10246939	2906	chr7	141972804	T	C
rs713598	2904	chr7	141973545	C	G
rs202003805	38363	chr7	142750561	C	T
rs144422014	11881	chr7	142750675	A	G
rs13438232	359119	chr7	143346147	C	T
rs2699503	286525	chr7	144398507	A	G
rs6957768	359427	chr7	156762136	T	C
rs3729856	44334	chr8	11757066	A	G
rs12675375	362525	chr8	22127432	C	T
rs891398	128739	chr8	27467305	T	C
rs2230009	130760	chr8	31064419	G	A
rs4994	17741	chr8	37966280	A	G
rs2306899	128893	chr8	38238144	C	T
rs10093583	261307	chr8	41690485	T	C
rs762679	363238	chr8	47972876	T	A
rs2293869	5969	chr8	54626835	A	T
rs61739567	95357	chr8	54629980	G	A



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rs3735972	166899	chr8	86575970	T	C
rs6471482	261090	chr8	86667075	A	C
rs1805794	134876	chr8	89978251	C	G
rs3134031	126301	chr8	93795937	A	G
rs6511	262802	chr8	100240452	T	C
rs2920048	260174	chr8	105802428	G	C
rs2073618	258775	chr8	118951813	G	C
rs9297853	260274	chr8	132572310	A	G
rs2293979	260278	chr8	132625413	G	A
rs2069556	258993	chr8	132908273	A	G
rs2069561	258996	chr8	132963038	G	A
rs56230101	258997	chr8	132969515	T	C
rs2069569	259001	chr8	133096302	T	C
rs1133076	259002	chr8	133113438	G	A
rs61757294	242772	chr8	142912850	A	G
rs10970979	163174	chr9	334337	A	G
rs6415788	129160	chr9	4118111	G	T
rs806052	129159	chr9	4118208	A	G
rs10961700	366121	chr9	14776142	C	T
rs7041710	194680	chr9	14816831	G	C
rs2779500	262534	chr9	14846038	C	G
rs7023954	366238	chr9	21816759	G	A
rs2309428	44091	chr9	69228107	C	A
rs10761129	159818	chr9	91724039	C	T
rs10820900	159821	chr9	91733326	T	C
rs1769259	256323	chr9	94606867	C	T
rs357564	41663	chr9	95447312	G	A
rs2045732	260383	chr9	97432124	T	C
rs6415847	262847	chr9	98770938	C	T
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rs2230808	364398	chr9	104800523	T	C
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rs4837768	21651	chr9	120408455	C	G
rs4836822	21657	chr9	120528758	C	G
rs1539567	365021	chr9	127479887	A	G
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rs869457	129451	chr9	131049064	C	T
rs10901333	129452	chr9	131052491	A	G
rs3739510	129456	chr9	131061184	C	G
rs2275140	129460	chr9	131072662	A	G
rs11243406	95455	chr9	131515483	C	A
rs1056899	95669	chr9	132264514	T	C
rs543573	95663	chr9	132327442	T	C
rs1183768	95662	chr9	132327844	C	T
rs1185193	95661	chr9	132328022	A	C
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rs12768894	257180	chr10	14932906	T	C
rs2796835	299409	chr10	16901372	G	C
rs1276712	299437	chr10	16925402	C	T
rs1801231	299479	chr10	16982504	G	A
rs1801224	299527	chr10	17105522	G	T
rs1801222	299538	chr10	17114152	A	G

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rs3824699	45792	chr10	26067063	A	G
rs3817420	45797	chr10	26068819	G	A
rs3758449	45804	chr10	26157383	G	A
rs3740231	45809	chr10	26174114	A	T
rs1999240	45811	chr10	26174201	C	A
rs1047991	129624	chr10	30340297	G	A
rs3810950	128724	chr10	49616573	G	A
rs11004439	46504	chr10	54664208	A	C
rs10821668	128385	chr10	60071513	T	C
rs41274672	128381	chr10	60071893	C	G
rs41274090	240864	chr10	66379281	G	A
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rs10997975	31797	chr10	68174164	G	A
rs7916821	31798	chr10	68174212	G	A
rs3814182	31808	chr10	68174501	C	G
rs7079481	31800	chr10	68199485	C	A
rs1341667	1719	chr10	68882104	T	C
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rs4536103	129765	chr10	69572448	A	G
rs1904589	95882	chr10	70435683	T	C
rs2277257	130342	chr10	71322806	A	G
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rs2487068	130347	chr10	71362156	A	G
rs3740129	286657	chr10	72008101	G	A
rs1136450	227062	chr10	79611973	C	G
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rs721917	165219	chr10	79946568	A	G
rs11528010	41782	chr10	86876022	C	A
rs1051338	195049	chr10	89247603	T	G
rs701865	259947	chr10	93622016	T	A
rs1799853	8409	chr10	94942290	C	T
rs10882993	130787	chr10	97744873	G	T
rs17222723	298467	chr10	99836239	T	A
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rs76057237	298635	chr10	102918593	G	A
rs805722	256267	chr10	104050642	T	C
rs805698	256266	chr10	104057158	C	T
rs805708	256276	chr10	104064575	G	A
rs2234962	44783	chr10	119670121	T	C
rs10490923	299028	chr10	122454735	G	A
rs57285449	193131	chr11	299411	C	G
rs1138693	261236	chr11	824789	T	C
rs2672785	163990	chr11	1225711	A	G
rs6356	21866	chr11	2169721	C	T
rs4758443	259140	chr11	6627193	G	A
rs757110	157699	chr11	17396930	C	A
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rs11024357	226923	chr11	17645892	G	C
rs1443547	304002	chr11	20601429	G	A

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rs3824915	304715	chr11	44309959	C	G
rs3816614	304850	chr11	46868614	C	T
rs2306029	304855	chr11	46871557	T	C
rs6485702	304872	chr11	46877220	T	C
rs601314	39015	chr11	65868582	T	C
rs3814747	305421	chr11	66020601	C	T
rs1203998	305447	chr11	66025983	C	T
rs1695	37340	chr11	67585218	A	G
rs3736228	258640	chr11	68433827	C	T
rs560096	258576	chr11	68911494	T	C
rs10896380	258577	chr11	68914934	A	G
rs2236654	258567	chr11	68936560	C	T
rs17612126	194368	chr11	68938206	C	A
rs35264875	727	chr11	69078931	A	T
rs3829241	728	chr11	69087895	G	A
rs660339	130697	chr11	73978059	G	A
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rs665278	96092	chr11	78114274	T	C
rs1126809	3779	chr11	89284793	G	A
rs3824874	260686	chr11	95923947	T	G
rs36111323	259454	chr11	101489019	G	A
rs1784424	259542	chr11	102606646	G	T
rs1784423	259541	chr11	102606664	A	G
rs2245803	259539	chr11	102625267	T	G
rs589623	302073	chr11	103211861	G	A
rs1801516	128458	chr11	108304735	G	A
rs2303436	128897	chr11	112025600	C	T
rs627441	128899	chr11	112037438	T	C
rs1800497	2105	chr11	113400106	G	A
rs2305830	260482	chr11	117395596	C	G
rs573455	260485	chr11	117397168	A	G
rs3135932	197197	chr11	117993348	A	G
rs2228055	302548	chr11	117994131	A	G
rs2229113	302554	chr11	117998955	A	G
rs643788	93728	chr11	119097048	T	C
rs3814762	167299	chr11	119345794	C	T
rs526433	45336	chr11	121162269	G	A
rs3862618	303235	chr11	124872469	G	A
rs10790715	262681	chr11	124923786	T	C
rs667782	303363	chr11	125899459	T	C
rs7102584	137993	chr11	128912117	C	G
rs956868	261070	chr12	881746	A	C
rs7955371	261072	chr12	885321	G	C
rs12828016	261073	chr12	889199	G	T
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rs216311	256678	chr12	6019277	T	C
rs1063856	256659	chr12	6044368	T	C

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rs2228576	165164	chr12	6347896	T	C
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rs4236	284369	chr12	14882147	T	C
rs4149117	261184	chr12	20858546	T	G
rs7311358	261186	chr12	20862826	G	A
rs60140950	307896	chr12	20875274	G	C
rs2306283	259983	chr12	21176804	A	G
rs4149056	37346	chr12	21178615	T	C
rs7308720	39139	chr12	40263898	C	G
rs7133914	39178	chr12	40309109	G	A
rs3761863	308647	chr12	40364850	T	C
rs3803183	93788	chr12	48004297	T	A
rs2857671	309494	chr12	52314636	G	A
rs2852464	309517	chr12	52316937	G	C
rs2857663	309537	chr12	52319304	G	A
rs2232387	1891	chr12	52433824	C	T
rs14024	309637	chr12	52675230	T	C
rs7297245	310710	chr12	95980836	C	T
rs17459334	44667	chr12	98534052	C	G
rs5030860	593	chr12	102840474	T	C
rs9593	96245	chr12	109557065	A	T
rs10774775	262246	chr12	109573425	C	T
rs7957619	129638	chr12	109576074	G	A
rs695871	128507	chr12	111599196	G	C
rs34047482	221182	chr12	132681251	C	A
rs968566	261459	chr13	20142394	G	T
rs17325713	240895	chr13	23354532	C	T
rs56090538	134433	chr13	28037245	T	G
rs9536314	311690	chr13	33054001	T	G
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rs3812882	193436	chr13	39655754	G	A
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rs1061472	35707	chr13	51950352	T	C
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rs1040904	99819	chr14	21301034	C	A
rs6571751	99827	chr14	21302571	A	G
rs1045644	226525	chr14	30885890	C	G
rs4904210	259937	chr14	36666548	G	C
rs45547534	241326	chr14	45137184	A	G
rs12717411	129795	chr14	50739427	A	T
rs33912345	260163	chr14	60509819	C	A

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rs4027405	130511	chr14	64031319	G	A
rs1890908	130513	chr14	64052317	A	G
rs3829767	130516	chr14	64052737	A	G
rs8010911	130520	chr14	64055956	G	C
rs8010699	130521	chr14	64056125	A	G
rs36215895	2324	chr14	64210033	C	T
rs77806	257108	chr14	64786514	T	C
rs229587	257098	chr14	64796582	C	T
rs175081	257251	chr14	75047180	T	C
rs421262	92500	chr14	87934869	T	C
rs941920	158118	chr14	91272737	A	G
rs1303	17958	chr14	94378506	T	G
rs4934	18051	chr14	94614466	G	A
rs861539	8944	chr14	103699416	G	A
rs4779794	260492	chr15	30905361	G	A
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rs7177192	128586	chr15	40606445	G	C
rs2412541	128588	chr15	40621642	G	T
rs17747633	128598	chr15	40624039	A	G
rs3204853	129689	chr15	41396968	C	A
rs1899	129688	chr15	41397034	C	T
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rs28756768	316050	chr15	43239213	G	C
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rs2001616	260326	chr15	45111868	G	A
rs2576090	263302	chr15	45116216	C	G
rs690346	263001	chr15	53716648	T	C
rs600753	262315	chr15	55466995	T	C
rs3829462	316673	chr15	58560880	C	A
rs2073711	6312	chr15	65201874	A	G
rs3743171	259525	chr15	65624189	A	T
rs1800431	93189	chr15	72346551	T	C
rs2277598	21734	chr15	72735137	T	C
rs1048661	14360	chr15	73927205	G	T
rs16969968	17497	chr15	78590583	G	A
rs17803620	257484	chr15	89260812	C	T
rs2283432	257482	chr15	89292997	G	C
rs8179065	129406	chr15	89652777	C	T
rs6496589	129973	chr15	89669998	G	C
rs2573652	315248	chr15	99974409	T	C
rs28567966	315290	chr15	100152640	A	G
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rs61734410	96005	chr16	1202369	C	T
rs1054644	96015	chr16	1220111	G	A
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rs45592239	178696	chr16	2295708	G	A
rs72768728	139396	chr16	2497033	C	G

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rs13926	260710	chr16	3674464	G	C
rs7188856	260704	chr16	5025632	G	A
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rs1731017	320841	chr16	8746097	A	G
rs11549428	135275	chr16	11254849	C	G
rs4280262	317782	chr16	11553636	T	C
rs1800067	134155	chr16	13935176	G	A
rs2238472	6570	chr16	16157742	C	T
rs55772253	290985	chr16	20341296	C	A
rs6497671	137186	chr16	23525363	T	C
rs1801275	14665	chr16	27363079	A	G
rs2904880	318803	chr16	28933075	C	G
rs9938550	261873	chr16	30987821	A	G
rs2066842	319435	chr16	50710713	C	T
rs2302677	95690	chr16	53649037	C	T
rs5882	17525	chr16	56982180	G	A
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rs1801255	158640	chr16	57655893	A	C
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rs3213422	128895	chr16	72008783	A	C
rs11545029	260740	chr16	78386878	G	A
rs2288020	163087	chr16	84176132	T	C
rs2288022	163089	chr16	84176210	T	C
rs2288023	163090	chr16	84176258	G	C
rs1049254	198042	chr16	88643420	A	G
rs4673	2263	chr16	88646828	A	G
rs507329	128680	chr16	88805737	T	C
rs7188200	136269	chr16	89100686	T	C
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rs161400	257157	chr17	3658102	C	T
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rs238238	324136	chr17	4953081	A	G
rs238239	324138	chr17	4953285	T	C
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rs1042522	12351	chr17	7676154	G	C
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rs854777	45753	chr17	18143584	T	C
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rs4796033	142159	chr17	35106468	C	T

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rs3826550	66336	chr17	41586555	C	T
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rs1799966	41827	chr17	43071077	T	C
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rs5911	2891	chr17	44375697	A	C
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rs8079373	96671	chr17	75516803	T	G
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rs871443	255543	chr17	75757422	T	C
rs1135640	259223	chr17	75953459	G	C
rs3744045	325455	chr17	76478942	G	A
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rs7503034	92610	chr17	80210594	C	T
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rs1815930	259791	chr18	50036929	T	C
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rs401502	328588	chr19	18069603	C	G
rs375947	328597	chr19	18069641	A	G
rs11575934	328598	chr19	18075808	T	C
rs11575926	96676	chr19	18077598	C	T
rs259290	259482	chr19	32676549	G	T
rs33950747	227091	chr19	35848345	C	T
rs2285422	41378	chr19	36006456	C	G
rs8107127	41379	chr19	39502920	T	G
rs1110627	130053	chr19	39504071	T	C
rs268674	130052	chr19	40394958	C	T
rs3745202	130050	chr19	40395104	G	C
rs268673	130048	chr19	40395589	T	C
rs268671	163945	chr19	40395707	A	G
rs2303729	163946	chr19	40605163	G	A
rs1131620	178781	chr19	40611963	A	G
rs1051303	178782	chr19	40612150	A	G
rs10880	261881	chr19	40622404	C	T
rs2241714	93361	chr19	41363487	T	C
rs34442879	439	chr19	41414125	C	T
rs1135062	134105	chr19	44819487	A	G
rs13181	262913	chr19	45351661	T	G
rs2341097	262912	chr19	45765644	C	T
rs2014576	262489	chr19	45765818	G	A
rs35461177	129849	chr19	48297657	G	A
rs1062798	193297	chr19	49908960	C	G
rs375912738	94018	chr19	50328895	T	C
rs1130426	330176	chr19	51347036	G	A
rs775882	257424	chr19	54939864	C	T
rs2304167	257423	chr19	55015713	C	T
rs1654416	257422	chr19	55018667	C	T
rs1613662	286343	chr19	55025227	G	A
rs34415062	286342	chr19	58511799	G	A
rs35350976	130585	chr19	58511807	A	G
rs2076405	129808	chr20	2394616	A	G
rs6753	129809	chr20	2657933	T	C
rs5856	96526	chr20	2658236	T	C
rs3737084	13397	chr20	3889477	G	C
rs1799990	196322	chr20	4699605	A	G
rs235768	339552	chr20	6778468	A	T
rs6077510	155768	chr20	9307875	G	A
rs2232613	130810	chr20	38369011	C	T
rs6032606	282093	chr20	45967568	C	G
rs2250889	261259	chr20	46013767	G	C
rs6126344	338879	chr20	51790963	A	C
rs707555	338883	chr20	57562839	G	C
rs11552145	21779	chr20	57563592	G	A
rs1801475	7288	chr20	63406924	T	G
rs2229207	46129	chr21	33241945	T	C
rs2839500	46105	chr21	42383058	T	C
rs928302	157588	chr21	42389975	C	T



dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
rs1051266	93861	chr21	45537880	T	C
rs1053312	93903	chr21	46003475	G	A
rs2839110	159569	chr21	46119046	G	A
rs2839223	159581	chr21	46357148	G	A
rs6518289	159642	chr21	46367087	T	C
rs2070425	159670	chr21	46416739	C	T
rs2070426	159671	chr21	46430570	G	C
rs2073376	159697	chr21	46431839	A	G
rs2073380	95877	chr21	46443844	A	C
rs12484657	263369	chr22	18083522	C	G
rs1139793	263343	chr22	19880695	A	G
rs5748469	17591	chr22	19919576	C	A
rs4680	259229	chr22	19963748	G	A
rs9608378	163670	chr22	25205229	C	G
rs1894704	163671	chr22	26457939	C	A
rs1894706	163672	chr22	26458475	G	A
rs5752330	163673	chr22	26463976	C	T
rs2014410	163674	chr22	26464303	G	C
rs713998	97	chr22	26466246	T	C
rs1801198	341211	chr22	30615623	G	C
rs9621049	341214	chr22	30617432	C	T
rs1131603	95171	chr22	30622988	T	C
rs1046166	44562	chr22	33277139	C	T
rs76368635	262725	chr22	36292132	G	A
rs855791	262728	chr22	37066896	A	G
rs2235324	286831	chr22	37089684	T	C
rs739138	43854	chr22	37726455	A	G
rs8140207	43855	chr22	37734452	G	T
rs8140958	93736	chr22	37734465	T	C
rs20551	16893	chr22	41152004	A	G
242701	341928	chr22	42126611	C	G
rs1065852	341930	chr22	42130692	G	A
rs2076213	341943	chr22	43927042	T	G
rs2076212	341977	chr22	43927090	G	T
rs2294918	96095	chr22	43946236	A	G
rs1057353	139082	chr22	45287423	G	C
rs3922872	130693	chr22	49904240	T	C
rs140523	157728	chr22	50524353	C	G
rs11479	255563	chr22	50525807	G	A
rs35143646	10994	chrX	2938114	C	T
rs808119	129252	chrX	8536792	C	T
rs1800321	138573	chrX	38367350	A	G
rs41307640	368787	chrX	53627451	T	C
rs41303733	258267	chrX	68432906	C	T
rs363774	263087	chrX	85308129	T	A
rs1042065	296280	chrX	108190458	A	G
rs6637934	135349	chrX	132078614	C	T
rs76530653	133404	chr1	2408634	C	G
rs4870	133406	chr1	2556714	A	G
rs2257763	133414	chr1	2559459	C	A
rs2281852	135355	chr1	2559503	C	A
rs2234161	16131	chr1	2559766	C	T

dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
rs2234167	3520	chr1	2562891	G	A
rs6688832	rs202107783	chr1	9263851	G	A
rs1801133	rs200530087	chr1	11796321	G	A
rs202170459	12756	chr1	13308331	A	G
rs200615233	6996	chr1	13308405	C	T
rs2491132	18271	chr1	30876800	C	T
rs5174	292129	chr1	53247055	C	T
rs17602729	874298	chr1	114693436	G	A
rs72703607	14660	chr1	115705205	T	C
rs75429891	14823	chr1	119422310	T	C
rs2228145	225994	chr1	154454494	A	C
rs1801274	14828	chr1	161509955	A	G
rs396991	13006	chr1	161544752	A	C
rs10127939	16604	chr1	161548543	A	T
rs486907	16605	chr1	182585422	C	T
rs1051740	98346	chr1	225831932	T	C
rs2234922	98355	chr1	225838705	A	G
rs3738401	8751	chr1	231694549	G	A
rs6675281	335700	chr1	231818355	C	T
rs1260326	336381	chr2	27508073	T	C
rs55941323	869137	chr2	29232333	A	T
rs80294301	5220	chr2	46905488	G	A
rs1143634	29761	chr2	112832813	G	A
rs7775	190215	chr2	182834857	G	C
rs1801278	242801	chr2	226795828	C	T
rs2228001	156207	chr3	14145949	G	T
rs3732379	504751	chr3	39265765	C	T
rs62262686	217776	chr3	49688637	G	A
rs41276455	18274	chr3	53811209	G	A
rs9820367	8360	chr3	184353275	G	C
rs4961	8361	chr4	2904980	G	T
rs5743618	225966	chr4	38797027	C	A
rs4833095	828228	chr4	38798089	T	C
rs1902023	828226	chr4	68670366	A	C
rs28365062	828215	chr4	69098553	A	G
rs7439366	430719	chr4	69098620	T	C
rs4292394	901698	chr4	69107231	C	G
rs2306058	1269	chr4	73076961	C	T
rs72681995	135287	chr4	99582002	C	A
rs10516487	903346	chr4	101829919	G	A
rs2454206	7029	chr4	105275794	A	G
rs72677056	617842	chr4	118338293	C	T
rs1801394	427577	chr5	7870860	A	G
rs17285716	454528	chr5	19591065	A	G
rs37369	906693	chr5	35037010	C	T
rs115971569	216618	chr5	55226608	C	G
rs56382582	14673	chr5	90855813	C	G
rs55653181	225937	chr5	132589791	G	C
rs20541	684525	chr5	132660272	A	G
rs1042713	16326	chr5	148826877	G	A
rs35610191	353025	chr5	176889454	C	T
rs351855	rs151341294	chr5	177093242	G	A

dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
rs79031130	14379	chr5	178153531	C	T
rs151341293	16037	chr6	31356259	T	A
rs1041981	7916	chr6	31573007	C	A
rs4746	7915	chr6	38682852	T	G
rs1051931	2062	chr6	46705206	A	G
rs1805018	993917	chr6	46711566	A	G
rs237025	828472	chr6	149400554	G	A
rs55868409	829165	chr6	151573432	G	A
rs6912029	829157	chr6	154039373	G	T
rs540825	829156	chr6	154093311	A	T
rs675026	14751	chr6	154093428	A	G
rs562859	13583	chr6	154093438	C	T
rs4880	2192	chr6	159692840	A	G
rs73015965	225939	chr6	160706469	A	G
rs324981	166622	chr7	34778501	A	T
rs1045642	17636	chr7	87509329	A	G
rs2032582	13736	chr7	87531302	A	C
rs1801197	2906	chr7	93426441	A	G
rs854560	2904	chr7	95316772	A	T
rs10246939	940016	chr7	141972804	T	C
rs713598	723	chr7	141973545	C	G
rs147366981	17741	chr7	142750680	C	T
rs1801280	594460	chr8	18400344	T	C
rs4994	472761	chr8	37966280	A	G
rs72647413	691405	chr8	58496934	G	A
rs72654981	691482	chr8	67422547	G	A
rs2289001	366215	chr8	141160785	C	T
rs1045303	134998	chr8	141190368	G	A
rs78915420	913551	chr9	2096706	A	T
rs3780135	375669	chr9	36840626	G	A
rs72744294	132156	chr9	77315426	C	G
rs7853758	914004	chr9	84286011	G	A
rs3750344	365611	chr9	98578034	T	C
rs72756895	837758	chr9	128533596	G	A
rs182725390	rs201810168	chr9	133573863	G	A
rs78211353	1719	chr9	136438951	C	A
rs370136276	691402	chr10	17827578	C	T
rs1341667	691408	chr10	68882104	T	C
rs2254433	16897	chr10	70777180	A	G
rs2295933	8409	chr10	82985500	C	T
rs4244285	943906	chr10	94781859	G	A
rs1799853	17746	chr10	94942290	C	T
rs72846108	156712	chr10	103139440	C	G
rs1801253	8678	chr10	114045297	G	C
rs113508205	37340	chr11	1016890	G	A
rs5219	727	chr11	17388025	T	C
rs1695	728	chr11	67585218	A	G
rs35264875	13755	chr11	69078931	A	T
rs3829241	2105	chr11	69087895	G	A
rs9344	17905	chr11	69648142	G	A
rs1800497	303025	chr11	113400106	G	A
rs5110	281929	chr11	116820918	C	A

dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
rs72998913	590287	chr11	121157872	C	G
rs200368994	17730	chr12	6018369	T	G
rs2306894	37346	chr12	10098846	C	G
rs11276	1040722	chr12	14840505	C	T
rs4149056	308887	chr12	21178615	T	C
rs73082680	66549	chr12	21486487	T	A
rs2228570	1891	chr12	47879112	A	G
rs58580222	1189	chr12	52302264	G	A
rs2232387	593	chr12	52433824	C	T
rs11544238	135505	chr12	57476372	A	C
rs5030860	162072	chr12	102840474	T	C
rs1169304	225959	chr12	120999418	T	C
rs2296189	134173	chr13	28319505	A	G
rs1751034	8820	chr13	95062722	C	T
rs9514067	313257	chr13	102875580	G	C
rs1805097	135403	chr13	109782884	C	T
rs78391102	8944	chr14	49622239	C	G
rs3783941	6312	chr14	81108661	C	A
rs861539	14360	chr14	103699416	G	A
rs2073711	17497	chr15	65201874	A	G
rs1048661	17503	chr15	73927205	G	T
rs16969968	rs142171362	chr15	78590583	G	A
rs1051730	419839	chr15	78601997	G	A
rs142262304	885261	chr15	82538982	A	G
rs72778139	559146	chr16	3589229	G	A
rs55766649	14665	chr16	3662962	C	T
rs1801275	225971	chr16	27363079	A	G
rs2232228	226006	chr16	69109674	A	G
rs6065	813014	chr17	4933086	C	T
rs2641256	12351	chr17	5223379	A	G
rs1042522	157592	chr17	7676154	G	C
rs1979277	135519	chr17	18328782	G	A
rs4252596	134082	chr17	39699581	C	A
rs1058808	66540	chr17	39727784	C	G
rs4601	66539	chr17	41525223	A	G
rs4602	324039	chr17	41528069	G	C
rs115380008	324389	chr17	50166023	G	A
rs72845024	225996	chr17	63484535	G	A
rs4149601	rs2023286	chr18	58149559	G	A
rs146362587	rs368528156	chr19	39879831	G	A
rs151293840	rs201056589	chr19	39893983	A	G
rs200682066	rs201399527	chr19	39893995	A	C
rs201065190	225976	chr19	39894238	G	A
rs25487	225945	chr19	43551574	T	C
rs11615	996596	chr19	45420395	A	G
rs681343	996599	chr19	48703205	C	T
rs602662	996600	chr19	48703728	G	A
rs485186	155768	chr19	48703949	A	G
rs2232613	338812	chr20	38369011	C	T
rs73135773	375482	chr20	54157275	G	A
rs755017	7288	chr20	63790269	A	G
rs2229207	157588	chr21	33241945	T	C

dbsnpid	clinvarID	CHROM	POS	REFs	ALTs
rs1051266	17591	chr21	45537880	T	C
rs4680	828955	chr22	19963748	G	A
rs4646315	828892	chr22	19964374	G	C
rs1058172	829654	chr22	42127526	C	T
rs28371704	829652	chr22	42129809	T	C
rs28371703	972631	chr22	42129819	G	T
rs73187278	NA	chr22	50244017	T	C

## Targeted info

Num of regions Num of bases Average coverage

## Alignment

Number base aligned Number reads aligned % reads aligned

## Calling

SNPs: Number, Ts/tv ratio, indels: Number, Max lenght, min length, average length,

## Variants