

Supplementary Table 1. *PIK3CA* mutation spectrum in CRC

Sample	Locus	Type	Reference	Mutation	Location	Function	Exon	Protein	Coding	Cosmic
s00002	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	17442:760:1253 69:1659152:165 9153:326157
s00002	chr3:178947167	SNV	G	A	exonic	missense	18	p.Gly868Asp	c.2603G>A	
s00006	chr3:178921460	SNV	T	C	exonic	synonymous	5	p.(=)	c.942T>C	
s00006	chr3:178919328	SNV	G	A	exonic	synonymous	4	p.(=)	c.813G>A	
s00007	chr3:178928257	SNV	C	T	exonic	synonymous	9	p.(=)	c.1443C>T	
s00007	chr3:178916709	SNV	G	A	exonic	synonymous	2	p.(=)	c.96G>A	
s00007	chr3:178917547	SNV	G	A	exonic	missense	3	p.Arg141Lys	c.422G>A	
s00007	chr3:178921431	SNV	C	T	exonic	missense	5	p.Pro305Ser	c.913C>T	
s00007	chr3:178928234	SNV	G	A	exonic	missense	9	p.Glu474Lys	c.1420G>A	
s00007	chr3:178938869	SNV	G	A	exonic	missense	14	p.Arg704Lys	c.2111G>A	
s00007	chr3:178947224	SNV	G	A	exonic	missense	18	p.Gly887Glu	c.2660G>A	
s00009	chr3:178938934	SNV	G	A	exonic	missense	14	p.Glu726Lys	c.2176G>A	446019:87306
s00011	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00015	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00016	chr3:178922324	SNV	G	A	exonic	missense	6	p.Glu365Lys	c.1093G>A	673906:86044

s00016	chr3:178938934	SNV	G	A	exonic	missense	14	p.Glu726Lys	c.2176G>A	446019:87306
s00017	chr3:178942488	SNV	G	A	exonic	synonymous	16	p.(=)	c.2295G>A	
s00017	chr3:178919092	SNV	G	A	exonic	missense	4	p.Val193Met	c.577G>A	
s00017	chr3:178921374	SNV	A	T	exonic	missense	5	p.Met286Leu	c.856A>T	
s00017	chr3:178943773	SNV	C	T	exonic	missense	17	p.Leu814Phe	c.2440C>T	
s00019	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:94988:249874
s00021	chr3:178916891	SNV	G	A	exonic	missense	2	p.Arg93Gln	c.278G>A	86041:1420743:1420744:1041456
s00021	chr3:178928079	SNV	G	C	exonic	missense	8	p.Glu453Gln	c.1357G>C	446007:1041484:12584:758
s00021	chr3:178937379	INDEL	T	TTGGCC TCCAAT CAAAC CTGAAC AGGC	exonic	frameshiftInsertion	12	p.Met599fs	c.1767_1768insTGGCCTCCAATCAAACCTGAACAGGC	479741:1041522:12592:27504
s00021	chr3:178952077	SNV	T	A	exonic	missense	21	p.Asn1044Lys	c.3132T>A	
s00022	chr3:178916698	SNV	G	A	exonic	missense	2	p.Gly29Arg	c.85G>A	
s00022	chr3:178951882	SNV	G	A	exonic	synonymous	21	p.(=)	c.2937G>A	

s00022	chr3:178942578	SNV	G	A	exonic	synonymous	16	p.(=)	c.2385G>A	
s00022	chr3:178936096	SNV	G	A	exonic	synonymous	10	p.(=)	c.1638G>A	24712
s00022	chr3:178951924	SNV	G	A	exonic	synonymous	21	p.(=)	c.2979G>A	166342
s00022	chr3:178917516	SNV	G	A	exonic	missense	3	p.Val131Ile	c.391G>A	
s00022	chr3:178927987	SNV	T	C	exonic	missense	8	p.Leu422Ser	c.1265T>C	
s00022	chr3:178936050	SNV	T	C	exonic	missense	10	p.Leu531Pro	c.1592T>C	1420853:41784
s00022	chr3:178936070	SNV	G	A	exonic	missense	10	p.Asp538Asn	c.1612G>A	21467:729821
s00022	chr3:178942606	SNV	G	A	exonic	missense	16	p.Asp805Asn	c.2413G>A	
s00022	chr3:178947874	SNV	C	T	exonic	missense	19	p.His917Tyr	c.2749C>T	
s00022	chr3:178948140	SNV	G	A	exonic	missense	20	p.Cys971Tyr	c.2912G>A	
s00022	chr3:178952069	SNV	C	T	exonic	nonsense	21	p.Gln1042Ter	c.3124C>T	
s00022	chr3:178951928	SNV	G	A	exonic	missense	21	p.Ala995Thr	c.2983G>A	
										1566548:156654
s00023	chr3:178952125	SNV	C	T	exonic	synonymous	21	p.(=)	c.3180C>T	9:1421027:2854
										7
s00023	chr3:178948117	SNV	G	A	exonic	synonymous	20	p.(=)	c.2889G>A	
s00023	chr3:178936042	SNV	A	T	exonic	missense	10	p.Lys528Asn	c.1584A>T	
s00023	chr3:178936114	SNV	G	A	exonic	nonsense	10	p.Trp552Ter	c.1656G>A	37025:86991
s00023	chr3:178941976	SNV	G	A	splice_3		15			
s00023	chr3:178947223	SNV	G	A	exonic	missense	18	p.Gly887Arg	c.2659G>A	
s00023	chr3:178947874	SNV	C	T	exonic	missense	19	p.His917Tyr	c.2749C>T	
s00023	chr3:178948065	SNV	G	A	exonic	missense	20	p.Gly946Asp	c.2837G>A	

										94985:94984:41
s00023	chr3:178952074	SNV	G	A	exonic	missense	21	p.Met1043Ile	c.3129G>A	9700:773:29313:446027
s00024	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:94986:249874
s00028	chr3:178927452	SNV	C	T	exonic	synonymous	7	p.(=)	c.1215C>T	
s00028	chr3:178928093	SNV	C	T	exonic	synonymous	8	p.(=)	c.1371C>T	1420830:41785:1420829
s00028	chr3:178917610	SNV	G	A	exonic	missense	3	p.Arg162Lys	c.485G>A	
s00028	chr3:178919107	SNV	G	A	exonic	missense	4	p.Val198Ile	c.592G>A	
s00028	chr3:178927394	SNV	G	A	exonic	nonsense	7	p.Trp386Ter	c.1157G>A	
s00029	chr3:178947858	SNV	G	A	exonic	synonymous	19	p.(=)	c.2733G>A	
s00029	chr3:178938945	SNV	G	A	exonic	synonymous	14	p.(=)	c.2187G>A	
s00029	chr3:178952020	SNV	C	T	exonic	synonymous	21	p.(=)	c.3075C>T	21451
s00029	chr3:178952027	SNV	T	C	exonic	synonymous	21	p.(=)	c.3082T>C	
s00029	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00029	chr3:178951900	SNV	C	T	exonic	synonymous	21	p.(=)	c.2955C>T	
s00029	chr3:178919256	SNV	G	A	exonic	synonymous	4	p.(=)	c.741G>A	
s00029	chr3:178928021	SNV	A	G	exonic	synonymous	8	p.(=)	c.1299A>G	
s00029	chr3:178937403	SNV	G	A	exonic	synonymous	12	p.(=)	c.1791G>A	
s00029	chr3:178917496	SNV	C	T	exonic	missense	3	p.Pro124Leu	c.371C>T	19333
s00029	chr3:178919318	SNV	G	A	exonic	missense	4	p.Ser268Asn	c.803G>A	

s00029	chr3:178922297	SNV	G	A	exonic	missense	6	p.Val356Ile	c.1066G>A	
s00029	chr3:178927478	SNV	G	A	exonic	missense	7	p.Gly414Asp	c.1241G>A	
s00029	chr3:178927981	SNV	G	A	exonic	missense	8	p.Cys420Tyr	c.1259G>A	
s00029	chr3:178928324	SNV	G	A	exonic	missense	9	p.Ala504Thr	c.1510G>A	
s00029	chr3:178937405	SNV	C	T	exonic	missense	12	p.Ala598Val	c.1793C>T	
s00029	chr3:178937818	SNV	C	T	exonic	missense	13	p.His665Tyr	c.1993C>T	
s00029	chr3:178941890	SNV	G	A	exonic	missense	15	p.Glu737Lys	c.2209G>A	
s00029	chr3:178942516	SNV	G	A	exonic	missense	16	p.Ala775Thr	c.2323G>A	
s00029	chr3:178947145	SNV	C	T	exonic	nonsense	18	p.Gln861Ter	c.2581C>T	
s00029	chr3:178947866	SNV	G	A	exonic	missense	19	p.Gly914Glu	c.2741G>A	
s00029	chr3:178947841	SNV	G	A	exonic	missense	19	p.Val906Ile	c.2716G>A	
s00029	chr3:178948127	SNV	G	A	exonic	missense	20	p.Gly967Arg	c.2899G>A	
s00029	chr3:178952098	SNV	G	A	exonic	nonsense	21	p.Trp1051Ter	c.3153G>A	30626
s00029	chr3:178951977	SNV	C	T	exonic	missense	21	p.Pro1011Leu	c.3032C>T	1420948:328027
s00031	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00032	chr3:178919140	SNV	C	T	exonic	synonymous	4	p.(=)	c.625C>T	
s00032	chr3:178951966	SNV	C	T	exonic	synonymous	21	p.(=)	c.3021C>T	303945:1420935 :1420936
s00032	chr3:178917547	SNV	G	A	exonic	missense	3	p.Arg141Lys	c.422G>A	
s00032	chr3:178937403	SNV	G	A	exonic	synonymous	12	p.(=)	c.1791G>A	
s00032	chr3:178937469	SNV	G	A	exonic	synonymous	12	p.(=)	c.1857G>A	

s00032	chr3:178942566	SNV	G	A	exonic	synonymous	16	p.(=)	c.2373G>A	
s00032	chr3:178919179	SNV	G	A	exonic	missense	4	p.Ala222Thr	c.664G>A	
s00032	chr3:178927418	SNV	C	T	exonic	missense	7	p.Pro394Leu	c.1181C>T	
s00032	chr3:178928103	SNV	G	A	exonic	missense	8	p.Val461Ile	c.1381G>A	
s00032	chr3:178928312	SNV	G	A	exonic	missense	9	p.Val500Ile	c.1498G>A	
s00032	chr3:178936037	SNV	G	A	exonic	missense	10	p.Asp527Asn	c.1579G>A	
s00032	chr3:178937046	SNV	C	T	exonic	missense	11	p.Ser576Phe	c.1727C>T	1041498:1041497
s00032	chr3:178937024	SNV	C	T	exonic	missense	11	p.Leu569Phe	c.1705C>T	
s00032	chr3:178947829	SNV	G	A	exonic	missense	19	p.Ala902Thr	c.2704G>A	
s00032	chr3:178952078	SNV	G	A	exonic	missense	21	p.Asp1045Asn	c.3133G>A	25086:1421002
s00033	chr3:178936093	SNV	G	T	exonic	missense	10	p.Glu545Asp	c.1635G>T	27374:765:327064
										17442:760:1253
s00036	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	69:1659152:1659153:326157
s00041	chr3:178922341	SNV	T	C	exonic	synonymous	6	p.(=)	c.1110T>C	
s00041	chr3:178937497	SNV	T	C	exonic	missense	12	p.Ser629Pro	c.1885T>C	
s00042	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:295672:125370
s00043	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:295672:125370

s00044	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00046	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:9 4986:249874
s00048	chr3:178937380	INDEL	T	TGGCCT CCAATC AA	exonic	frameshiftIns ertion	12	p.Pro595fs	c.1768_176 9insGGCC TCCAATC AA	
s00052	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:9 4986:249874
s00054	chr3:178952041	SNV	G	A	exonic	synonymous	21	p.(=)	c.3096G>A	1663504:166350 5
s00054	chr3:178928090	SNV	G	A	exonic	synonymous	8	p.(=)	c.1368G>A	
s00054	chr3:178947081	SNV	G	A	exonic	synonymous	18	p.(=)	c.2517G>A	
s00054	chr3:178951979	SNV	G	A	exonic	missense	21	p.Glu1012Lys	c.3034G>A	307758
s00057	chr3:178916946	SNV	G	T	exonic	missense	2	p.Lys111Asn	c.333G>T	582516:12580:1 041464:27505
s00057	chr3:178916725	SNV	C	T	exonic	missense	2	p.Arg38Cys	c.112C>T	1041448:104144 7:744:40945:873 10
s00057	chr3:178937007	SNV	A	C	exonic	missense	11	p.Glu563Ala	c.1688A>C	
s00057	chr3:178952074	SNV	G	T	exonic	missense	21	p.Met1043Ile	c.3129G>T	94985:94984:41

										9700:773:29313: 446027
s00061	chr3:178921551	SNV	A	G	exonic	missense	5	p.Asn345Asp	c.1033A>G	1420788:142078 9
s00062	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	17442:760:1253 69:1659152:165 9153:326157
s00064	chr3:178947081	SNV	G	A	exonic	synonymous	18	p.(=)	c.2517G>A	
s00064	chr3:178919127	SNV	G	A	exonic	synonymous	4	p.(=)	c.612G>A	
s00064	chr3:178952008	SNV	C	T	exonic	synonymous	21	p.(=)	c.3063C>T	
s00064	chr3:178919084	SNV	T	C	exonic	missense	4	p.Ile190Thr	c.569T>C	
s00064	chr3:178936122	SNV	G	A	exonic	missense	10	p.Arg555Lys	c.1664G>A	1716158
s00064	chr3:178937495	SNV	T	C	exonic	missense	12	p.Leu628Pro	c.1883T>C	
s00064	chr3:178941975	SNV	G	A	exonic	missense	15	p.Arg765Lys	c.2294G>A	
s00065	chr3:178921553	SNV	T	A	exonic	missense	5	p.Asn345Lys	c.1035T>A	754:132748
s00068	chr3:178917621	SNV	G	A	exonic	missense	3	p.Val166Ile	c.496G>A	
s00068	chr3:178921538	SNV	T	C	exonic	synonymous	5	p.(=)	c.1020T>C	
s00068	chr3:178951882	SNV	G	A	exonic	synonymous	21	p.(=)	c.2937G>A	
s00068	chr3:178919092	SNV	G	A	exonic	missense	4	p.Val193Met	c.577G>A	
s00068	chr3:178927436	SNV	C	T	exonic	missense	7	p.Ala400Val	c.1199C>T	
s00068	chr3:178928218	SNV	G	A	splice_5		9			446008:446009
s00068	chr3:178928281	SNV	G	A	exonic	missense	9	p.Met489Ile	c.1467G>A	

s00068	chr3:178928225	SNV	C	T	exonic	missense	9	p.Pro471Ser	c.1411C>T	87303:1308840
s00068	chr3:178951929	SNV	C	T	exonic	missense	21	p.Ala995Val	c.2984C>T	303944
s00068	chr3:178951922	SNV	C	T	exonic	nonsense	21	p.Gln993Ter	c.2977C>T	
s00068	chr3:178951997	SNV	G	T	exonic	missense	21	p.Asp1018Tyr	c.3052G>T	1420964:33599
s00071	chr3:178928321	SNV	G	A	exonic	missense	9	p.Glu503Lys	c.1507G>A	
s00072	chr3:178928302	SNV	C	T	exonic	synonymous	9	p.(=)	c.1488C>T	
s00072	chr3:178921456	SNV	C	T	exonic	missense	5	p.Thr313Ile	c.938C>T	
s00072	chr3:178928059	SNV	G	A	exonic	nonsense	8	p.Trp446Ter	c.1337G>A	446006:446005
										1420941:142094
s00072	chr3:178951970	SNV	G	A	exonic	missense	21	p.Gly1009Arg	c.3025G>A	2:1420943:1420
										944
										763:27133:2956
s00073	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	72:125370
s00075	chr3:178947081	SNV	G	A	exonic	synonymous	18	p.(=)	c.2517G>A	
s00076	chr3:178947081	SNV	G	A	exonic	synonymous	18	p.(=)	c.2517G>A	
s00076	chr3:178937811	SNV	G	A	exonic	synonymous	13	p.(=)	c.1986G>A	
s00076	chr3:178951900	SNV	C	T	exonic	synonymous	21	p.(=)	c.2955C>T	
s00076	chr3:178928327	SNV	G	A	exonic	missense	9	p.Gly505Arg	c.1513G>A	
s00076	chr3:178943805	SNV	G	A	exonic	nonsense	17	p.Trp824Ter	c.2472G>A	
			GGATTA						c.1352_136	
s00079	chr3:178928073	INDEL	GAAGAT	G	exonic	nonframeshiftDeletion	8	p.Gly451_Leu455delinsVal	3delGATTAGAAGA	1420820:1420819:6150
			T							

										TT
s00094	chr3:178937469	SNV	G	A	exonic	synonymous	12	p.(=)	c.1857G>A	
s00094	chr3:178919204	MNV	GAAG	AAAA	exonic	missense missense	4	p.Arg230_Ser2	c.689_692d	
								31delinsGlnAsn	elGAAGin sAAAA	
s00094	chr3:178919318	SNV	G	A	exonic	missense	4	p.Ser268Asn	c.803G>A	
s00094	chr3:178919262	SNV	G	A	exonic	synonymous	4	p.(=)	c.747G>A	
s00094	chr3:178919133	SNV	G	A	exonic	synonymous	4	p.(=)	c.618G>A	
s00094	chr3:178921544	SNV	C	T	exonic	synonymous	5	p.(=)	c.1026C>T	40464:1041473: 1041472
s00094	chr3:178927405	SNV	G	A	exonic	missense	7	p.Asp390Asn	c.1168G>A	
s00094	chr3:178928035	SNV	C	T	exonic	missense	8	p.Ser438Phe	c.1313C>T	
s00094	chr3:178928250	SNV	G	A	exonic	nonsense	9	p.Trp479Ter	c.1436G>A	
s00094	chr3:178928261	SNV	G	A	exonic	missense	9	p.Val483Met	c.1447G>A	
s00094	chr3:178928316	SNV	C	T	exonic	missense	9	p.Ser501Phe	c.1502C>T	
s00094	chr3:178928324	SNV	G	A	exonic	missense	9	p.Ala504Thr	c.1510G>A	
s00094	chr3:178937806	SNV	C	T	exonic	nonsense	13	p.Gln661Ter	c.1981C>T	1420874:768
s00094	chr3:178943766	SNV	G	A	exonic	missense	17	p.Met811Ile	c.2433G>A	
s00094	chr3:178943812	SNV	C	T	exonic	nonsense	17	p.Gln827Ter	c.2479C>T	
										17442:760:1253
s00095	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	69:1659152:165 9153:326157

s00101	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00104	chr3:178952053	SNV	G	A	exonic	synonymous	21	p.(=)	c.3108G>A	
s00105	chr3:178917490	SNV	G	A	exonic	missense	3	p.Gly122Asp	c.365G>A	752:479738
s00105	chr3:178917600	SNV	C	T	exonic	missense	3	p.Pro159Ser	c.475C>T	
s00105	chr3:178917570	SNV	G	A	exonic	missense	3	p.Glu149Lys	c.445G>A	
s00105	chr3:178919312	SNV	C	T	exonic	missense	4	p.Pro266Leu	c.797C>T	
s00105	chr3:178942548	SNV	C	T	exonic	synonymous	16	p.(=)	c.2355C>T	
s00105	chr3:178928230	SNV	C	T	exonic	synonymous	9	p.(=)	c.1416C>T	
s00105	chr3:178928254	SNV	C	T	exonic	synonymous	9	p.(=)	c.1440C>T	
s00105	chr3:178937769	SNV	G	A	exonic	synonymous	13	p.(=)	c.1944G>A	
s00105	chr3:178937740	SNV	C	T	exonic	synonymous	13	p.(=)	c.1915C>T	
s00105	chr3:178937416	SNV	C	T	exonic	synonymous	12	p.(=)	c.1804C>T	
s00105	chr3:178941937	SNV	G	A	exonic	synonymous	15	p.(=)	c.2256G>A	
s00105	chr3:178952021	SNV	C	T	exonic	synonymous	21	p.(=)	c.3076C>T	1420974:142097 5
s00105	chr3:178921402	SNV	C	T	exonic	missense	5	p.Ser295Phe	c.884C>T	
s00105	chr3:178921540	SNV	C	T	exonic	missense	5	p.Ala341Val	c.1022C>T	1420785:29613
s00105	chr3:178928109	SNV	G	A	exonic	missense	8	p.Gly463Arg	c.1387G>A	1041488:104148 7
s00105	chr3:178928110	SNV	G	A	exonic	missense	8	p.Gly463Glu	c.1388G>A	
s00105	chr3:178936068	SNV	G	A	exonic	missense	10	p.Arg537Gln	c.1610G>A	

s00105	chr3:178936997	SNV	A	G	exonic	missense	11	p.Thr560Ala	c.1678A>G	
s00105	chr3:178937816	SNV	G	T	exonic	missense	13	p.Gly664Val	c.1991G>T	
s00105	chr3:178938931	SNV	G	A	exonic	missense	14	p.Asp725Asn	c.2173G>A	1041506:1041505
s00105	chr3:178941890	SNV	G	A	exonic	missense	15	p.Glu737Lys	c.2209G>A	
s00105	chr3:178941971	SNV	C	T	exonic	missense	15	p.Leu764Phe	c.2290C>T	
s00105	chr3:178943828	SNV	G	A	exonic	missense	17	p.Arg832Gln	c.2495G>A	
s00105	chr3:178943786	SNV	G	A	exonic	missense	17	p.Arg818His	c.2453G>A	
s00105	chr3:178943804	SNV	G	A	exonic	nonsense	17	p.Trp824Ter	c.2471G>A	
s00105	chr3:178947791	SNV	G	A	splice_5		19			
s00105	chr3:178948165	SNV	G	A	splice_3		20			
s00105	chr3:178948154	SNV	G	A	exonic	missense	20	p.Glu976Lys	c.2926G>A	
s00105	chr3:178948065	SNV	G	A	exonic	missense	20	p.Gly946Asp	c.2837G>A	
s00106	chr3:178919182	SNV	G	A	exonic	missense	4	p.Glu223Lys	c.667G>A	
s00106	chr3:178928107	SNV	C	T	exonic	missense	8	p.Thr462Ile	c.1385C>T	
s00106	chr3:178928319	SNV	G	A	exonic	missense	9	p.Arg502Gln	c.1505G>A	
s00107	chr3:178947174	SNV	G	A	exonic	synonymous	18	p.(=)	c.2610G>A	
s00107	chr3:178916952	SNV	C	T	exonic	synonymous	2	p.(=)	c.339C>T	51259
s00107	chr3:178941962	SNV	C	T	exonic	synonymous	15	p.(=)	c.2281C>T	
s00107	chr3:178922357	SNV	G	A	exonic	missense	6	p.Val376Ile	c.1126G>A	
s00107	chr3:178928067	SNV	C	T	exonic	missense	8	p.Pro449Ser	c.1345C>T	1670714:18601
s00107	chr3:178928026	SNV	C	T	exonic	missense	8	p.Thr435Ile	c.1304C>T	

s00107	chr3:178928324	SNV	G	A	exonic	missense	9	p.Ala504Thr	c.1510G>A	
s00107	chr3:178928308	SNV	G	A	exonic	nonsense	9	p.Trp498Ter	c.1494G>A	
s00107	chr3:178937046	SNV	C	T	exonic	missense	11	p.Ser576Phe	c.1727C>T	1041498:1041497
s00107	chr3:178937033	SNV	G	A	exonic	missense	11	p.Val572Ile	c.1714G>A	
s00107	chr3:178937449	SNV	G	A	exonic	missense	12	p.Gly613Ser	c.1837G>A	
s00107	chr3:178943756	SNV	G	A	exonic	missense	17	p.Arg808Gln	c.2423G>A	
s00107	chr3:178947167	SNV	G	A	exonic	missense	18	p.Gly868Asp	c.2603G>A	
s00107	chr3:178947112	SNV	G	A	exonic	missense	18	p.Val850Met	c.2548G>A	
s00107	chr3:178951971	SNV	G	A	exonic	missense	21	p.Gly1009Glu	c.3026G>A	28544
s00107	chr3:178952042	SNV	C	T	exonic	nonsense	21	p.Gln1033Ter	c.3097C>T	
s00107	chr3:178951881	SNV	G	A	splice site_5		21			
s00107	chr3:178951922	SNV	C	T	exonic	nonsense	21	p.Gln993Ter	c.2977C>T	
s00110	chr3:178916607	SNV	C	T	utr_5		2			
s00110	chr3:178916803	SNV	G	A	exonic	missense	2	p.Asp64Asn	c.190G>A	
s00110	chr3:178916807	SNV	A	G	exonic	missense	2	p.Glu65Gly	c.194A>G	
s00110	chr3:178917578	MNV	GG	AA	exonic	synonymous missense	3	p.Asp152Asn	c.453_454delGGinsA	
s00110	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A	
s00110	chr3:178952146	SNV	G	A	exonic	synonymous	21	p.(=)	c.3201G>A	249879:12464
s00110	chr3:178916658	SNV	G	A	exonic	synonymous	2	p.(=)	c.45G>A	

s00110	chr3:178927476	SNV	G	A	exonic	synonymous	7	p.(=)	c.1239G>A	
s00110	chr3:178936093	SNV	G	A	exonic	synonymous	10	p.(=)	c.1635G>A	27374:765:3270 64
s00110	chr3:178928326	SNV	A	G	exonic	synonymous	9	p.(=)	c.1512A>G	
s00110	chr3:178917590	SNV	C	T	exonic	synonymous	3	p.(=)	c.465C>T	
s00110	chr3:178919151	SNV	C	T	exonic	synonymous	4	p.(=)	c.636C>T	
s00110	chr3:178921567	SNV	A	G	exonic	missense	5	p.Asp350Gly	c.1049A>G	271785:271786
s00110	chr3:178928059	SNV	G	A	exonic	nonsense	8	p.Trp446Ter	c.1337G>A	446006:446005
s00110	chr3:178928035	SNV	C	T	exonic	missense	8	p.Ser438Phe	c.1313C>T	
s00110	chr3:178928259	SNV	G	A	exonic	missense	9	p.Ser482Asn	c.1445G>A	
s00110	chr3:178936083	SNV	A	T	exonic	missense	10	p.Glu542Val	c.1625A>T	761:762:446011: 1041495:104149 4:1041493
s00110	chr3:178936114	SNV	G	A	exonic	nonsense	10	p.Trp552Ter	c.1656G>A	37025:86991
s00110	chr3:178937404	SNV	G	A	exonic	missense	12	p.Ala598Thr	c.1792G>A	
s00110	chr3:178937442	SNV	G	A	exonic	missense	12	p.Met610Ile	c.1830G>A	
s00110	chr3:178937821	SNV	T	C	exonic	missense	13	p.Phe666Leu	c.1996T>C	
s00110	chr3:178938880	SNV	G	A	exonic	missense	14	p.Ala708Thr	c.2122G>A	
s00110	chr3:178938773	SNV	G	A	splicesite_5		14			
s00110	chr3:178947131	SNV	C	T	exonic	missense	18	p.Thr856Ile	c.2567C>T	
s00110	chr3:178947860	SNV	G	A	exonic	missense	19	p.Gly912Glu	c.2735G>A	
s00110	chr3:178947904	SNV	G	A	exonic	missense	19	p.Gly927Arg	c.2779G>A	

s00110	chr3:178948103	SNV	G	A	exonic	missense	20	p.Asp959Asn	c.2875G>A	
s00110	chr3:178948160	SNV	G	A	exonic	missense	20	p.Glu978Lys	c.2932G>A	
s00110	chr3:178948086	SNV	C	T	exonic	missense	20	p.Pro953Leu	c.2858C>T	
s00110	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:94988:249874
s00110	chr3:178951928	SNV	G	A	exonic	missense	21	p.Ala995Thr	c.2983G>A	
s00111	chr3:178916663	SNV	C	T	exonic	missense	2	p.Pro17Leu	c.50C>T	1566583:1566584
s00111	chr3:178916684	SNV	G	A	exonic	missense	2	p.Cys24Tyr	c.71G>A	
s00111	chr3:178916630	SNV	C	T	exonic	missense	2	p.Ser6Leu	c.17C>T	
s00111	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	
s00111	chr3:178917617	SNV	G	A	exonic	missense	3	p.Met164Ile	c.492G>A	
s00111	chr3:178917627	SNV	C	T	exonic	missense	3	p.Pro168Ser	c.502C>T	
s00111	chr3:178919282	SNV	G	A	exonic	missense	4	p.Gly256Glu	c.767G>A	
s00111	chr3:178947114	SNV	G	A	exonic	synonymous	18	p.(=)	c.2550G>A	
s00111	chr3:178942587	SNV	G	A	exonic	synonymous	16	p.(=)	c.2394G>A	
s00111	chr3:178928018	SNV	C	T	exonic	synonymous	8	p.(=)	c.1296C>T	
s00111	chr3:178951900	SNV	C	T	exonic	synonymous	21	p.(=)	c.2955C>T	
s00111	chr3:178952151	SNV	G	A	exonic	synonymous	21	p.(=)	c.3206G>A	
s00111	chr3:178947885	SNV	C	T	exonic	synonymous	19	p.(=)	c.2760C>T	
s00111	chr3:178938924	SNV	G	A	exonic	synonymous	14	p.(=)	c.2166G>A	
s00111	chr3:178938789	SNV	T	C	exonic	synonymous	14	p.(=)	c.2031T>C	

s00111	chr3:178921345	SNV	G	A	exonic	missense	5	p.Cys276Tyr	c.827G>A	
s00111	chr3:178922307	SNV	G	A	exonic	missense	6	p.Gly359Asp	c.1076G>A	
s00111	chr3:178927477	SNV	G	A	exonic	missense	7	p.Gly414Ser	c.1240G>A	
s00111	chr3:178928118	SNV	C	T	exonic	missense	8	p.Pro466Ser	c.1396C>T	230020
s00111	chr3:178928074	SNV	G	A	exonic	missense	8	p.Gly451Glu	c.1352G>A	1308839:1308838
s00111	chr3:178928092	SNV	A	G	exonic	missense	8	p.Asn457Ser	c.1370A>G	1420827:1420828
s00111	chr3:178928089	SNV	T	C	exonic	missense	8	p.Leu456Pro	c.1367T>C	
s00111	chr3:178937405	SNV	C	T	exonic	missense	12	p.Ala598Val	c.1793C>T	
s00111	chr3:178942585	SNV	G	A	exonic	missense	16	p.Glu798Lys	c.2392G>A	
s00111	chr3:178947109	SNV	G	A	exonic	missense	18	p.Glu849Lys	c.2545G>A	
s00111	chr3:178947063	SNV	G	A	exonic	missense	18	p.Met833Ile	c.2499G>A	
s00111	chr3:178947866	SNV	G	A	exonic	missense	19	p.Gly914Glu	c.2741G>A	
s00111	chr3:178947821	SNV	G	A	exonic	missense	19	p.Arg899His	c.2696G>A	
s00111	chr3:178947832	SNV	G	A	exonic	missense	19	p.Gly903Arg	c.2707G>A	
s00111	chr3:178948064	SNV	G	A	exonic	missense	20	p.Gly946Ser	c.2836G>A	
s00111	chr3:178952004	SNV	C	T	exonic	missense	21	p.Ala1020Val	c.3059C>T	28938
s00111	chr3:178951896	SNV	G	A	exonic	missense	21	p.Cys984Tyr	c.2951G>A	
s00111	chr3:178952065	SNV	G	A	exonic	missense	21	p.Met1040Ile	c.3120G>A	25085
s00111	chr3:178952115	SNV	G	A	exonic	nonsense	21	p.Trp1057Ter	c.3170G>A	
s00111	chr3:178952048	SNV	G	A	exonic	missense	21	p.Ala1035Thr	c.3103G>A	27375

s00111	chr3:178951994	SNV	G	A	exonic	missense	21	p.Asp1017Asn	c.3049G>A	27377:304026
s00112	chr3:178919091	SNV	G	A	exonic	synonymous	4	p.(=)	c.576G>A	
s00112	chr3:178928110	SNV	G	A	exonic	missense	8	p.Gly463Glu	c.1388G>A	
s00112	chr3:178937512	SNV	C	T	exonic	nonsense	12	p.Gln634Ter	c.1900C>T	
s00112	chr3:178952030	SNV	G	A	exonic	missense	21	p.Asp1029Asn	c.3085G>A	29640:1041521: 36286
s00113	chr3:178942502	SNV	G	A	exonic	missense	16	p.Arg770Gln	c.2309G>A	
s00114	chr3:178916636	SNV	G	A	exonic	missense	2	p.Gly8Asp	c.23G>A	
s00114	chr3:178916756	SNV	A	G	exonic	missense	2	p.Glu48Gly	c.143A>G	
s00114	chr3:178917610	SNV	G	A	exonic	missense	3	p.Arg162Lys	c.485G>A	
s00114	chr3:178917561	SNV	G	A	exonic	missense	3	p.Val146Ile	c.436G>A	
s00114	chr3:178917579	SNV	G	A	exonic	missense	3	p.Asp152Asn	c.454G>A	
s00114	chr3:178917570	SNV	G	A	exonic	missense	3	p.Glu149Lys	c.445G>A	
s00114	chr3:178919186	SNV	C	T	exonic	missense	4	p.Ala224Val	c.671C>T	
s00114	chr3:178936048	SNV	G	A	exonic	synonymous	10	p.(=)	c.1590G>A	
s00114	chr3:178947876	SNV	C	T	exonic	synonymous	19	p.(=)	c.2751C>T	
s00114	chr3:178917491	SNV	C	T	exonic	synonymous	3	p.(=)	c.366C>T	
s00114	chr3:178938930	SNV	G	A	exonic	synonymous	14	p.(=)	c.2172G>A	
s00114	chr3:178922368	SNV	C	T	exonic	synonymous	6	p.(=)	c.1137C>T	
s00114	chr3:178936099	SNV	G	A	exonic	synonymous	10	p.(=)	c.1641G>A	729819:729820
s00114	chr3:178947207	SNV	C	T	exonic	synonymous	18	p.(=)	c.2643C>T	
s00114	chr3:178952020	SNV	C	T	exonic	synonymous	21	p.(=)	c.3075C>T	21451

s00114	chr3:178937740	SNV	C	T	exonic	synonymous	13	p.(=)	c.1915C>T	
s00114	chr3:178922304	SNV	C	T	exonic	missense	6	p.Thr358Ile	c.1073C>T	
s00114	chr3:178928010	SNV	T	G	exonic	missense	8	p.Phe430Val	c.1288T>G	
s00114	chr3:178936068	SNV	G	A	exonic	missense	10	p.Arg537Gln	c.1610G>A	
s00114	chr3:178936093	SNV	G	T	exonic	missense	10	p.Glu545Asp	c.1635G>T	27374:765:3270 64
s00114	chr3:178936114	SNV	G	A	exonic	nonsense	10	p.Trp552Ter	c.1656G>A	37025:86991
s00114	chr3:178938871	SNV	C	T	exonic	nonsense	14	p.Gln705Ter	c.2113C>T	
s00114	chr3:178941872	SNV	C	T	exonic	nonsense	15	p.Gln731Ter	c.2191C>T	
s00114	chr3:178947103	SNV	C	T	exonic	missense	18	p.Leu847Phe	c.2539C>T	
s00114	chr3:178948140	SNV	G	A	exonic	missense	20	p.Cys971Tyr	c.2912G>A	
s00114	chr3:178951977	SNV	C	T	exonic	missense	21	p.Pro1011Leu	c.3032C>T	1420948:328027
s00114	chr3:178951935	SNV	T	C	exonic	missense	21	p.Leu997Pro	c.2990T>C	
s00115	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	
s00115	chr3:178916556	SNV	C	T	utr_5		2			
s00115	chr3:178916803	SNV	G	A	exonic	missense	2	p.Asp64Asn	c.190G>A	
s00115	chr3:178917570	SNV	G	A	exonic	missense	3	p.Glu149Lys	c.445G>A	
s00115	chr3:178917639	SNV	G	A	exonic	missense	3	p.Glu172Lys	c.514G>A	
s00115	chr3:178921444	SNV	G	A	exonic	missense	5	p.Arg309Lys	c.926G>A	
s00115	chr3:178921522	SNV	G	A	exonic	missense	5	p.Arg335Lys	c.1004G>A	
s00115	chr3:178921572	SNV	G	A	exonic	missense	5	p.Asp352Asn	c.1054G>A	
s00115	chr3:178917587	SNV	G	A	exonic	synonymous	3	p.(=)	c.462G>A	

s00115	chr3:178947837	SNV	C	T	exonic	synonymous	19	p.(=)	c.2712C>T	
s00115	chr3:178948117	SNV	G	A	exonic	synonymous	20	p.(=)	c.2889G>A	
s00115	chr3:178921550	SNV	G	A	exonic	synonymous	5	p.(=)	c.1032G>A	1420786:1420787
s00115	chr3:178916751	SNV	G	A	exonic	synonymous	2	p.(=)	c.138G>A	
s00115	chr3:178937004	SNV	C	T	exonic	missense	11	p.Pro562Leu	c.1685C>T	
s00115	chr3:178937046	SNV	C	T	exonic	missense	11	p.Ser576Phe	c.1727C>T	1041498:1041497
s00115	chr3:178947892	SNV	G	A	exonic	missense	19	p.Val923Met	c.2767G>A	
s00115	chr3:178948165	SNV	G	A	splice_3		20			
s00115	chr3:178948082	SNV	G	A	exonic	missense	20	p.Val952Met	c.2854G>A	
s00115	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	21446:1041516:1420933:1420934
s00119	chr3:178936094	SNV	C	A	exonic	missense	10	p.Gln546Lys	c.1636C>A	255876:766:6147:1566572
s00120	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	
s00120	chr3:178917621	SNV	G	A	exonic	missense	3	p.Val166Ile	c.496G>A	
s00120	chr3:178917688	SNV	G	A	splice_3		3			
s00120	chr3:178919173	SNV	G	A	exonic	missense	4	p.Val220Ile	c.658G>A	
s00120	chr3:178921483	SNV	C	T	exonic	missense	5	p.Thr322Ile	c.965C>T	
s00120	chr3:178917491	SNV	C	T	exonic	synonymous	3	p.(=)	c.366C>T	

s00120	chr3:178947189	SNV	C	T	exonic	synonymous	18	p.(=)	c.2625C>T	
s00120	chr3:178919295	SNV	C	T	exonic	synonymous	4	p.(=)	c.780C>T	
s00120	chr3:178919148	SNV	C	T	exonic	synonymous	4	p.(=)	c.633C>T	
s00120	chr3:178919130	SNV	G	A	exonic	synonymous	4	p.(=)	c.615G>A	
s00120	chr3:178951936	SNV	C	T	exonic	synonymous	21	p.(=)	c.2991C>T	166350
										41780:1420922:
s00120	chr3:178951910	SNV	C	T	exonic	synonymous	21	p.(=)	c.2965C>T	1420923:1420924
s00120	chr3:178919262	SNV	G	A	exonic	synonymous	4	p.(=)	c.747G>A	
s00120	chr3:178919214	SNV	G	A	exonic	synonymous	4	p.(=)	c.699G>A	
s00120	chr3:178928100	SNV	G	A	exonic	missense	8	p.Gly460Ser	c.1378G>A	
s00120	chr3:178937049	SNV	G	A	exonic	missense	11	p.Arg577Lys	c.1730G>A	
s00120	chr3:178937816	SNV	G	A	exonic	missense	13	p.Gly664Glu	c.1991G>A	
s00120	chr3:178947800	SNV	C	T	exonic	missense	19	p.Ala892Val	c.2675C>T	
s00120	chr3:178947833	SNV	G	A	exonic	missense	19	p.Gly903Glu	c.2708G>A	
s00120	chr3:178947848	SNV	C	T	exonic	missense	19	p.Thr908Ile	c.2723C>T	
s00120	chr3:178951997	SNV	G	A	exonic	missense	21	p.Asp1018Asn	c.3052G>A	1420964:33599
s00122	chr3:178952085	SNV	A	T	exonic	missense	21	p.His1047Leu	c.3140A>T	775:776:94987:94986:249874
s00123	chr3:178916561	SNV	C	T	utr_5		2			
s00123	chr3:178916920	SNV	G	A	exonic	missense	2	p.Glu103Lys	c.307G>A	
s00123	chr3:178919089	SNV	G	A	exonic	missense	4	p.Val192Met	c.574G>A	

s00123	chr3:178919155	SNV	G	A	exonic	missense	4	p.Asp214Asn	c.640G>A	
s00123	chr3:178919280	SNV	T	A	exonic	nonsense	4	p.Cys255Ter	c.765T>A	
s00123	chr3:178921339	SNV	G	A	exonic	missense	5	p.Arg274Lys	c.821G>A	
s00123	chr3:178921459	SNV	C	T	exonic	missense	5	p.Ala314Val	c.941C>T	
s00123	chr3:178922318	SNV	G	A	exonic	missense	6	p.Gly363Arg	c.1087G>A	
s00123	chr3:178922324	SNV	G	A	exonic	missense	6	p.Glu365Lys	c.1093G>A	673906:86044
s00123	chr3:178922349	SNV	C	T	exonic	missense	6	p.Thr373Ile	c.1118C>T	
s00123	chr3:178947093	SNV	C	T	exonic	synonymous	18	p.(=)	c.2529C>T	1195600:1195601
s00123	chr3:178942587	SNV	G	A	exonic	synonymous	16	p.(=)	c.2394G>A	
s00123	chr3:178951891	SNV	G	A	exonic	synonymous	21	p.(=)	c.2946G>A	21466:1420915:1420914
s00123	chr3:178937799	SNV	G	A	exonic	synonymous	13	p.(=)	c.1974G>A	
s00123	chr3:178937766	SNV	C	T	exonic	synonymous	13	p.(=)	c.1941C>T	
s00123	chr3:178927454	SNV	T	C	exonic	missense	7	p.Ile406Thr	c.1217T>C	
s00123	chr3:178927489	SNV	G	A	splice site_3		7			
s00123	chr3:178942605	SNV	G	A	exonic	synonymous	16	p.(=)	c.2412G>A	
s00123	chr3:178947900	SNV	C	T	exonic	synonymous	19	p.(=)	c.2775C>T	257730:257729
s00123	chr3:178928287	SNV	G	A	exonic	synonymous	9	p.(=)	c.1473G>A	
s00123	chr3:178928051	SNV	G	A	exonic	synonymous	8	p.(=)	c.1329G>A	
s00123	chr3:178919091	SNV	G	A	exonic	synonymous	4	p.(=)	c.576G>A	
s00123	chr3:178927458	SNV	C	T	exonic	synonymous	7	p.(=)	c.1221C>T	51258

s00123	chr3:178937005	SNV	C	T	exonic	synonymous	11	p.(=)	c.1686C>T	
s00123	chr3:178937012	SNV	C	T	exonic	synonymous	11	p.(=)	c.1693C>T	
s00123	chr3:178928060	SNV	G	A	exonic	nonsense	8	p.Trp446Ter	c.1338G>A	327061:327060
s00123	chr3:178928100	SNV	G	A	exonic	missense	8	p.Gly460Ser	c.1378G>A	
									c.1459_146	
s00123	chr3:178928273	MNV	CC	TT	exonic	missense	9	p.Pro487Leu	0delCCins	
									TT	
s00123	chr3:178928285	SNV	G	A	exonic	missense	9	p.Val491Met	c.1471G>A	
s00123	chr3:178936070	SNV	G	A	exonic	missense	10	p.Asp538Asn	c.1612G>A	21467:729821
s00123	chr3:178937003	SNV	C	T	exonic	missense	11	p.Pro562Ser	c.1684C>T	
s00123	chr3:178942495	SNV	G	A	exonic	missense	16	p.Glu768Lys	c.2302G>A	
s00123	chr3:178942542	SNV	G	A	exonic	nonsense	16	p.Trp783Ter	c.2349G>A	
s00123	chr3:178942543	SNV	G	A	exonic	missense	16	p.Glu784Lys	c.2350G>A	
s00123	chr3:178943786	SNV	G	A	exonic	missense	17	p.Arg818His	c.2453G>A	
s00123	chr3:178947109	SNV	G	A	exonic	missense	18	p.Glu849Lys	c.2545G>A	
s00123	chr3:178947166	SNV	G	A	exonic	missense	18	p.Gly868Ser	c.2602G>A	
s00123	chr3:178947892	SNV	G	A	exonic	missense	19	p.Val923Met	c.2767G>A	
s00123	chr3:178947910	SNV	G	A	splicesite_3		19			
s00123	chr3:178948080	SNV	G	A	exonic	missense	20	p.Arg951His	c.2852G>A	
s00123	chr3:178951929	SNV	C	T	exonic	missense	21	p.Ala995Val	c.2984C>T	303944
s00123	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	21446:1041516: 1420933:142093

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s00123	chr3:178951965	SNV	G	A	exonic	missense	21	p.Gly1007Asp	c.3020G>A	25082
s00123	chr3:178951997	SNV	G	A	exonic	missense	21	p.Asp1018Asn	c.3052G>A	1420964:33599
s00123	chr3:178952049	SNV	C	T	exonic	missense	21	p.Ala1035Val	c.3104C>T	17445
s00125	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00129	chr3:178916902	SNV	C	T	exonic	missense	2	p.Pro97Ser	c.289C>T	
s00129	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	
s00129	chr3:178919152	SNV	C	T	exonic	missense	4	p.His213Tyr	c.637C>T	
s00129	chr3:178922336	SNV	G	A	exonic	missense	6	p.Asp369Asn	c.1105G>A	
s00129	chr3:178922349	SNV	C	T	exonic	missense	6	p.Thr373Ile	c.1118C>T	
s00129	chr3:178927451	SNV	C	T	exonic	missense	7	p.Ser405Phe	c.1214C>T	1420805:142080 6:6149
s00129	chr3:178927478	SNV	G	A	exonic	missense	7	p.Gly414Asp	c.1241G>A	
s00129	chr3:178943757	SNV	G	A	exonic	synonymous	17	p.(=)	c.2424G>A	
s00129	chr3:178952026	SNV	C	T	exonic	synonymous	21	p.(=)	c.3081C>T	
s00129	chr3:178937031	SNV	C	T	exonic	missense	11	p.Ser571Phe	c.1712C>T	
s00129	chr3:178941966	SNV	G	A	exonic	missense	15	p.Gly762Glu	c.2285G>A	
s00129	chr3:178951989	SNV	C	T	exonic	missense	21	p.Ser1015Phe	c.3044C>T	1420954:21464: 1420955
s00130	chr3:178952041	SNV	G	A	exonic	synonymous	21	p.(=)	c.3096G>A	1663504:166350 5

s00132	chr3:178921544	SNV	C	T	exonic	synonymous	5	p.(=)	c.1026C>T	40464:1041473: 1041472 17442:760:1253
s00135	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	69:1659152:165 9153:326157 17442:760:1253
s00137	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	69:1659152:165 9153:326157
s00138	chr3:178919279	SNV	G	A	exonic	missense	4	p.Cys255Tyr	c.764G>A	
s00138	chr3:178928127	SNV	G	A	splice_3		8			86950
s00138	chr3:178937438	SNV	C	T	exonic	missense	12	p.Pro609Leu	c.1826C>T	
s00139	chr3:178921548	SNV	G	A	exonic	missense	5	p.Val344Met	c.1030G>A	253279:253280
s00154	chr3:178916938	SNV	G	A	exonic	missense	2	p.Glu109Lys	c.325G>A	
s00154	chr3:178917648	SNV	C	T	exonic	missense	3	p.Pro175Ser	c.523C>T	
s00154	chr3:178919207	SNV	G	A	exonic	missense	4	p.Ser231Asn	c.692G>A	
s00154	chr3:178919173	SNV	G	A	exonic	missense	4	p.Val220Ile	c.658G>A	
s00154	chr3:178919155	SNV	G	A	exonic	missense	4	p.Asp214Asn	c.640G>A	
s00154	chr3:178919282	SNV	G	A	exonic	missense	4	p.Gly256Glu	c.767G>A	
s00154	chr3:178919295	SNV	C	A	exonic	nonsense	4	p.Tyr260Ter	c.780C>A	
s00154	chr3:178921472	SNV	G	A	exonic	missense	5	p.Met318Ile	c.954G>A	
s00154	chr3:178921483	SNV	C	T	exonic	missense	5	p.Thr322Ile	c.965C>T	
s00154	chr3:178921537	SNV	G	A	exonic	missense	5	p.Cys340Tyr	c.1019G>A	

s00154	chr3:178927445	SNV	G	A	exonic	missense	7	p.Cys403Tyr	c.1208G>A	
s00154	chr3:178942587	SNV	G	A	exonic	synonymous	16	p.(=)	c.2394G>A	
s00154	chr3:178928009	SNV	G	A	exonic	synonymous	8	p.(=)	c.1287G>A	
s00154	chr3:178928028	SNV	C	T	exonic	synonymous	8	p.(=)	c.1306C>T	
s00154	chr3:178951888	SNV	G	A	exonic	synonymous	21	p.(=)	c.2943G>A	
s00154	chr3:178919262	SNV	G	A	exonic	synonymous	4	p.(=)	c.747G>A	
s00154	chr3:178919214	SNV	G	A	exonic	synonymous	4	p.(=)	c.699G>A	
s00154	chr3:178952056	SNV	G	A	exonic	synonymous	21	p.(=)	c.3111G>A	
s00154	chr3:178942497	SNV	G	A	exonic	synonymous	16	p.(=)	c.2304G>A	
s00154	chr3:178919094	SNV	G	A	exonic	synonymous	4	p.(=)	c.579G>A	
s00154	chr3:178919127	SNV	G	A	exonic	synonymous	4	p.(=)	c.612G>A	
s00154	chr3:178937739	SNV	C	T	exonic	synonymous	13	p.(=)	c.1914C>T	
s00154	chr3:178928051	SNV	G	A	exonic	synonymous	8	p.(=)	c.1329G>A	
s00154	chr3:178928022	SNV	G	A	exonic	missense	8	p.Asp434Asn	c.1300G>A	
s00154	chr3:178928067	SNV	C	T	exonic	missense	8	p.Pro449Ser	c.1345C>T	1670714:18601
s00154	chr3:178928328	SNV	G	A	exonic	missense	9	p.Gly505Glu	c.1514G>A	
s00154	chr3:178928321	SNV	G	A	exonic	missense	9	p.Glu503Lys	c.1507G>A	
s00154	chr3:178936114	SNV	G	A	exonic	nonsense	10	p.Trp552Ter	c.1656G>A	37025:86991
s00154	chr3:178936997	SNV	A	G	exonic	missense	11	p.Thr560Ala	c.1678A>G	
s00154	chr3:178937405	SNV	C	T	exonic	missense	12	p.Ala598Val	c.1793C>T	
s00154	chr3:178937456	SNV	C	T	exonic	missense	12	p.Ala615Val	c.1844C>T	
s00154	chr3:178937386	SNV	C	T	exonic	missense	12	p.Pro592Ser	c.1774C>T	

s00154	chr3:178937483	SNV	C	T	exonic	missense	12	p.Thr624Ile	c.1871C>T	1420870:1420871
s00154	chr3:178937752	SNV	C	T	exonic	nonsense	13	p.Gln643Ter	c.1927C>T	
s00154	chr3:178941890	SNV	G	A	exonic	missense	15	p.Glu737Lys	c.2209G>A	
s00154	chr3:178942604	SNV	G	A	exonic	missense	16	p.Gly804Glu	c.2411G>A	
s00154	chr3:178943766	SNV	G	C	exonic	missense	17	p.Met811Ile	c.2433G>C	
s00154	chr3:178943793	SNV	G	A	exonic	missense	17	p.Met820Ile	c.2460G>A	
s00154	chr3:178943794	SNV	G	A	exonic	missense	17	p.Glu821Lys	c.2461G>A	
s00154	chr3:178947119	SNV	G	A	exonic	missense	18	p.Arg852Gln	c.2555G>A	
s00154	chr3:178947115	SNV	G	A	exonic	missense	18	p.Val851Met	c.2551G>A	
s00154	chr3:178947820	SNV	C	T	exonic	missense	19	p.Arg899Cys	c.2695C>T	
s00154	chr3:178951934	SNV	C	T	exonic	missense	21	p.Leu997Phe	c.2989C>T	
s00154	chr3:178951964	SNV	G	A	exonic	missense	21	p.Gly1007Ser	c.3019G>A	17443:94982
s00154	chr3:178952030	SNV	G	A	exonic	missense	21	p.Asp1029Asn	c.3085G>A	29640:1041521: 36286
s00154	chr3:178952012	SNV	C	T	exonic	nonsense	21	p.Arg1023Ter	c.3067C>T	1420970:1420971
s00157	chr3:178937508	SNV	A	G	exonic	synonymous	12	p.(=)	c.1896A>G	
s00163	chr3:178916707	SNV	G	A	exonic	missense	2	p.Val32Met	c.94G>A	
s00163	chr3:178919122	SNV	G	A	exonic	missense	4	p.Asp203Asn	c.607G>A	
s00163	chr3:178921502	SNV	G	A	exonic	nonsense	5	p.Trp328Ter	c.984G>A	
s00163	chr3:178921476	SNV	G	A	exonic	missense	5	p.Gly320Arg	c.958G>A	

s00163	chr3:178921477	SNV	G	A	exonic	missense	5	p.Gly320Glu	c.959G>A	729825:729824
s00163	chr3:178922357	SNV	G	A	exonic	missense	6	p.Val376Ile	c.1126G>A	
s00163	chr3:178928079	SNV	G	A	exonic	missense	8	p.Glu453Lys	c.1357G>A	446007:1041484 :12584:758
s00163	chr3:178928067	SNV	C	T	exonic	missense	8	p.Pro449Ser	c.1345C>T	1670714:18601
s00163	chr3:178919091	SNV	G	A	exonic	synonymous	4	p.(=)	c.576G>A	
s00163	chr3:178927458	SNV	C	T	exonic	synonymous	7	p.(=)	c.1221C>T	51258
s00163	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00163	chr3:178952047	SNV	G	A	exonic	synonymous	21	p.(=)	c.3102G>A	
s00163	chr3:178947180	SNV	C	T	exonic	synonymous	18	p.(=)	c.2616C>T	
s00163	chr3:178919322	SNV	G	A	exonic	synonymous	4	p.(=)	c.807G>A	
s00163	chr3:178937062	SNV	C	T	exonic	synonymous	11	p.(=)	c.1743C>T	
s00163	chr3:178937032	SNV	T	C	exonic	synonymous	11	p.(=)	c.1713T>C	
s00163	chr3:178928327	SNV	G	A	exonic	missense	9	p.Gly505Arg	c.1513G>A	
s00163	chr3:178937470	SNV	G	A	exonic	missense	12	p.Glu620Lys	c.1858G>A	
s00163	chr3:178937522	SNV	A	G	exonic	missense	12	p.Gln637Arg	c.1910A>G	
s00163	chr3:178937818	SNV	C	T	exonic	missense	13	p.His665Tyr	c.1993C>T	
s00163	chr3:178937801	SNV	C	T	exonic	missense	13	p.Thr659Ile	c.1976C>T	
s00163	chr3:178943755	SNV	C	T	exonic	missense	17	p.Arg808Trp	c.2422C>T	
s00163	chr3:178943749	SNV	G	A	splice_5		17			
s00163	chr3:178943822	SNV	A	G	exonic	missense	17	p.Asp830Gly	c.2489A>G	
s00163	chr3:178947109	SNV	G	A	exonic	missense	18	p.Glu849Lys	c.2545G>A	

s00163	chr3:178947829	SNV	G	A	exonic	missense	19	p.Ala902Thr	c.2704G>A	
s00163	chr3:178948019	SNV	C	T	exonic	missense	20	p.His931Tyr	c.2791C>T	
s00163	chr3:178951997	SNV	G	A	exonic	missense	21	p.Asp1018Asn	c.3052G>A	1420964:33599
s00163	chr3:178951929	SNV	C	T	exonic	missense	21	p.Ala995Val	c.2984C>T	303944
										21446:1041516:
s00163	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	1420933:1420934
s00164	chr3:178919099	SNV	G	A	exonic	nonsense	4	p.Trp195Ter	c.584G>A	
s00164	chr3:178919302	SNV	G	A	exonic	missense	4	p.Glu263Lys	c.787G>A	
s00164	chr3:178928082	SNV	G	A	exonic	missense	8	p.Asp454Asn	c.1360G>A	1041485:1041486
s00164	chr3:178917665	SNV	C	T	exonic	synonymous	3	p.(=)	c.540C>T	
s00164	chr3:178937012	SNV	C	T	exonic	synonymous	11	p.(=)	c.1693C>T	
s00164	chr3:178928328	SNV	G	A	exonic	missense	9	p.Gly505Glu	c.1514G>A	
s00164	chr3:178928307	SNV	G	A	exonic	nonsense	9	p.Trp498Ter	c.1493G>A	
s00164	chr3:178943824	SNV	C	T	exonic	missense	17	p.Leu831Phe	c.2491C>T	
s00164	chr3:178947083	SNV	C	T	exonic	missense	18	p.Ser840Leu	c.2519C>T	
s00165	chr3:178917607	SNV	G	A	exonic	missense	3	p.Ser161Asn	c.482G>A	
s00165	chr3:178917612	SNV	G	A	exonic	missense	3	p.Ala163Thr	c.487G>A	
s00165	chr3:178919282	SNV	G	A	exonic	missense	4	p.Gly256Glu	c.767G>A	
s00165	chr3:178919078	SNV	G	A	exonic	missense	4	p.Gly188Glu	c.563G>A	
s00165	chr3:178921553	SNV	T	A	exonic	missense	5	p.Asn345Lys	c.1035T>A	754:132748

									c.1030_103	
s00165	chr3:178921548	MNV	GT	AC	exonic	missense	5	p.Val344Thr	1delGTins	253279:253280
									AC	
s00165	chr3:178922290	SNV	G	A	spliceite_5		6			
s00165	chr3:178927429	SNV	C	T	exonic	missense	7	p.Arg398Cys	c.1192C>T	
s00165	chr3:178927451	SNV	C	T	exonic	missense	7	p.Ser405Phe	c.1214C>T	1420805:1420806:6149
s00165	chr3:178919298	SNV	C	T	exonic	synonymous	4	p.(=)	c.783C>T	
s00165	chr3:178928351	SNV	C	T	exonic	synonymous	9	p.(=)	c.1537C>T	
s00165	chr3:178928341	SNV	C	T	exonic	synonymous	9	p.(=)	c.1527C>T	
s00165	chr3:178937017	SNV	C	T	exonic	synonymous	11	p.(=)	c.1698C>T	
s00165	chr3:178937820	SNV	C	T	exonic	synonymous	13	p.(=)	c.1995C>T	
s00165	chr3:178943757	SNV	G	A	exonic	synonymous	17	p.(=)	c.2424G>A	
s00165	chr3:178952008	SNV	C	T	exonic	synonymous	21	p.(=)	c.3063C>T	
s00165	chr3:178941962	SNV	C	T	exonic	synonymous	15	p.(=)	c.2281C>T	
s00165	chr3:178941971	SNV	C	T	exonic	missense	15	p.Leu764Phe	c.2290C>T	
s00165	chr3:178943794	SNV	G	A	exonic	missense	17	p.Glu821Lys	c.2461G>A	
s00165	chr3:178943785	SNV	C	T	exonic	missense	17	p.Arg818Cys	c.2452C>T	1041508:1041507
s00165	chr3:178943776	SNV	C	T	exonic	nonsense	17	p.Gln815Ter	c.2443C>T	
s00165	chr3:178952030	SNV	G	A	exonic	missense	21	p.Asp1029Asn	c.3085G>A	29640:1041521:36286

s00167	chr3:178921520	SNV	C	T	exonic	synonymous	5	p.(=)	c.1002C>T	353192:353193
s00167	chr3:178937500	SNV	C	T	exonic	nonsense	12	p.Gln630Ter	c.1888C>T	
s00168	chr3:178937515	SNV	C	T	exonic	synonymous	12	p.(=)	c.1903C>T	
s00170	chr3:178916669	SNV	G	A	exonic	missense	2	p.Arg19Lys	c.56G>A	249774
s00170	chr3:178916716	SNV	G	A	exonic	missense	2	p.Glu35Lys	c.103G>A	
s00170	chr3:178917573	SNV	G	A	exonic	missense	3	p.Ala150Thr	c.448G>A	
s00170	chr3:178921431	SNV	C	T	exonic	missense	5	p.Pro305Ser	c.913C>T	
s00170	chr3:178921553	SNV	T	A	exonic	missense	5	p.Asn345Lys	c.1035T>A	754:132748
s00170	chr3:178922342	SNV	G	A	exonic	missense	6	p.Val371Met	c.1111G>A	
s00170	chr3:178927489	SNV	G	A	splice_3		7			
s00170	chr3:178919127	SNV	G	A	exonic	synonymous	4	p.(=)	c.612G>A	
s00170	chr3:178936096	SNV	G	A	exonic	synonymous	10	p.(=)	c.1638G>A	24712
s00170	chr3:178928093	SNV	C	T	exonic	synonymous	8	p.(=)	c.1371C>T	1420830:41785: 1420829
s00170	chr3:178916745	SNV	C	T	exonic	synonymous	2	p.(=)	c.132C>T	
s00170	chr3:178947810	SNV	C	T	exonic	synonymous	19	p.(=)	c.2685C>T	
s00170	chr3:178952062	SNV	C	T	exonic	synonymous	21	p.(=)	c.3117C>T	1420992:142099 3
s00170	chr3:178919299	SNV	C	T	exonic	synonymous	4	p.(=)	c.784C>T	
s00170	chr3:178927476	SNV	G	A	exonic	synonymous	7	p.(=)	c.1239G>A	
s00170	chr3:178928218	SNV	G	A	splice_5		9			446008:446009
s00170	chr3:178928303	SNV	A	G	exonic	missense	9	p.Asn497Asp	c.1489A>G	

s00170	chr3:178936037	SNV	G	A	exonic	missense	10	p.Asp527Asn	c.1579G>A	
s00170	chr3:178936070	SNV	G	A	exonic	missense	10	p.Asp538Asn	c.1612G>A	21467:729821
s00170	chr3:178936103	SNV	G	A	exonic	missense	10	p.Asp549Asn	c.1645G>A	219119:17470
s00170	chr3:178937446	SNV	C	T	exonic	nonsense	12	p.Arg612Ter	c.1834C>T	
s00170	chr3:178942533	SNV	G	A	exonic	nonsense	16	p.Trp780Ter	c.2340G>A	
s00170	chr3:178942564	SNV	G	A	exonic	missense	16	p.Glu791Lys	c.2371G>A	419701
s00170	chr3:178942606	SNV	G	A	exonic	missense	16	p.Asp805Asn	c.2413G>A	
s00170	chr3:178947101	SNV	G	A	exonic	missense	18	p.Gly846Glu	c.2537G>A	
s00170	chr3:178947166	SNV	G	A	exonic	missense	18	p.Gly868Ser	c.2602G>A	
s00170	chr3:178947809	SNV	A	G	exonic	missense	19	p.Asp895Gly	c.2684A>G	
s00170	chr3:178948091	SNV	G	A	exonic	missense	20	p.Val955Ile	c.2863G>A	
s00170	chr3:178948164	SNV	G	A	exonic	missense	20	p.Arg979Lys	c.2936G>A	
s00170	chr3:178952007	SNV	A	T	exonic	missense	21	p.Tyr1021Phe	c.3062A>T	12461:276755:3 28025
s00170	chr3:178952142	SNV	C	T	exonic	missense	21	p.Ala1066Val	c.3197C>T	13477
s00171	chr3:178916956	SNV	C	T	exonic	nonsense	2	p.Arg115Ter	c.343C>T	
s00171	chr3:178919285	SNV	G	A	exonic	missense	4	p.Cys257Tyr	c.770G>A	
s00171	chr3:178937005	SNV	C	T	exonic	synonymous	11	p.(=)	c.1686C>T	
s00171	chr3:178948162	SNV	G	A	exonic	synonymous	20	p.(=)	c.2934G>A	
s00171	chr3:178928250	SNV	G	A	exonic	nonsense	9	p.Trp479Ter	c.1436G>A	
s00171	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370

s00171	chr3:178936983	SNV	G	A	spliceite_5		11				
s00171	chr3:178937752	SNV	C	T	exonic	nonsense	13	p.Gln643Ter	c.1927C>T	1420870:1420871	
s00171	chr3:178938880	SNV	G	A	exonic	missense	14	p.Ala708Thr	c.2122G>A		
s00171	chr3:178947127	SNV	C	T	exonic	missense	18	p.His855Tyr	c.2563C>T		
s00171	chr3:178947138	SNV	G	A	exonic	missense	18	p.Met858Ile	c.2574G>A		
s00171	chr3:178952004	SNV	C	T	exonic	missense	21	p.Ala1020Val	c.3059C>T	28938	
s00171	chr3:178951953	SNV	C	T	exonic	missense	21	p.Ser1003Leu	c.3008C>T		
										446029:777:125	
s00171	chr3:178952090	SNV	G	A	exonic	missense	21	p.Gly1049Ser	c.3145G>A	97:1421012:1168056	
s00173	chr3:178928087	SNV	G	A	exonic	synonymous	8	p.(=)	c.1365G>A		
s00173	chr3:178928024	SNV	C	T	exonic	synonymous	8	p.(=)	c.1302C>T		
s00174	chr3:178919170	SNV	C	T	exonic	nonsense	4	p.Gln219Ter	c.655C>T		
s00174	chr3:178919281	SNV	G	A	exonic	missense	4	p.Gly256Arg	c.766G>A		
s00174	chr3:178919290	SNV	G	A	exonic	missense	4	p.Glu259Lys	c.775G>A		
s00174	chr3:178919089	SNV	G	A	exonic	missense	4	p.Val192Met	c.574G>A		
s00174	chr3:178922304	SNV	C	T	exonic	missense	6	p.Thr358Ile	c.1073C>T		
s00174	chr3:178927394	SNV	G	T	exonic	missense	7	p.Trp386Leu	c.1157G>T		
s00174	chr3:178928064	SNV	G	A	exonic	missense	8	p.Val448Ile	c.1342G>A	86070	
s00174	chr3:178928070	SNV	C	T	exonic	missense	8	p.His450Tyr	c.1348C>T	166414:1420817:1420818	

s00174	chr3:178927983	SNV	C	T	exonic	missense	8	p.Pro421Ser	c.1261C>T	
s00174	chr3:178927990	SNV	C	T	exonic	missense	8	p.Ala423Val	c.1268C>T	
s00174	chr3:178937740	SNV	C	T	exonic	synonymous	13	p.(=)	c.1915C>T	
s00174	chr3:178928353	SNV	G	A	exonic	synonymous	9	p.(=)	c.1539G>A	
s00174	chr3:178928328	SNV	G	A	exonic	missense	9	p.Gly505Glu	c.1514G>A	
s00174	chr3:178942536	SNV	G	A	exonic	synonymous	16	p.(=)	c.2343G>A	
s00174	chr3:178928349	SNV	G	A	exonic	missense	9	p.Gly512Glu	c.1535G>A	
s00174	chr3:178928354	SNV	G	A	splice_3		9			
s00174	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00174	chr3:178919079	SNV	G	A	exonic	synonymous	4	p.(=)	c.564G>A	
s00174	chr3:178919091	SNV	G	A	exonic	synonymous	4	p.(=)	c.576G>A	
s00174	chr3:178921520	SNV	C	T	exonic	synonymous	5	p.(=)	c.1002C>T	353192:353193
s00174	chr3:178943802	SNV	C	T	exonic	synonymous	17	p.(=)	c.2469C>T	
s00174	chr3:178937483	SNV	C	T	exonic	missense	12	p.Thr624Ile	c.1871C>T	
s00174	chr3:178937773	SNV	G	A	exonic	missense	13	p.Val650Met	c.1948G>A	
s00174	chr3:178937749	SNV	G	A	exonic	missense	13	p.Glu642Lys	c.1924G>A	
s00174	chr3:178943794	SNV	G	A	exonic	missense	17	p.Glu821Lys	c.2461G>A	
s00174	chr3:178947067	SNV	C	T	exonic	missense	18	p.Pro835Ser	c.2503C>T	
s00174	chr3:178951946	SNV	C	T	exonic	missense	21	p.Leu1001Phe	c.3001C>T	29095
s00174	chr3:178951971	SNV	G	A	exonic	missense	21	p.Gly1009Glu	c.3026G>A	28544
s00174	chr3:178952025	SNV	C	T	exonic	missense	21	p.Ala1027Val	c.3080C>T	142978:142977
s00175	chr3:178928127	SNV	G	A	splice_3		8			86950

s00176	chr3:178916893	SNV	C	T	exonic	missense	2	p.Leu94Phe	c.280C>T	
s00176	chr3:178917688	SNV	G	A	splice_3		3			
s00176	chr3:178919077	SNV	G	A	splice_5		4			
s00176	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A	
s00176	chr3:178921543	SNV	C	T	exonic	missense	5	p.Thr342Ile	c.1025C>T	
s00176	chr3:178921522	SNV	G	A	exonic	missense	5	p.Arg335Lys	c.1004G>A	
s00176	chr3:178922324	SNV	G	A	exonic	missense	6	p.Glu365Lys	c.1093G>A	673906:86044
s00176	chr3:178928109	SNV	G	A	exonic	missense	8	p.Gly463Arg	c.1387G>A	1041488:1041487
s00176	chr3:178928100	SNV	G	A	exonic	missense	8	p.Gly460Ser	c.1378G>A	
s00176	chr3:178928119	SNV	C	T	exonic	missense	8	p.Pro466Leu	c.1397C>T	
s00176	chr3:178928051	SNV	G	A	exonic	synonymous	8	p.(=)	c.1329G>A	
s00176	chr3:178917662	SNV	G	A	exonic	synonymous	3	p.(=)	c.537G>A	
s00176	chr3:178927455	SNV	T	C	exonic	synonymous	7	p.(=)	c.1218T>C	
s00176	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00176	chr3:178937739	SNV	C	T	exonic	synonymous	13	p.(=)	c.1914C>T	
s00176	chr3:178942530	SNV	G	A	exonic	synonymous	16	p.(=)	c.2337G>A	
s00176	chr3:178928272	SNV	C	T	exonic	synonymous	9	p.(=)	c.1458C>T	
s00176	chr3:178928093	SNV	C	T	exonic	synonymous	8	p.(=)	c.1371C>T	1420830:41785:1420829
s00176	chr3:178947059	SNV	G	A	splice_5		18			
s00180	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	

s00180	chr3:178919078	SNV	G	A	exonic	missense	4	p.Gly188Glu	c.563G>A	
s00180	chr3:178919165	SNV	C	T	exonic	missense	4	p.Pro217Leu	c.650C>T	
s00180	chr3:178919240	SNV	G	A	exonic	missense	4	p.Cys242Tyr	c.725G>A	
s00180	chr3:178919311	SNV	C	T	exonic	missense	4	p.Pro266Ser	c.796C>T	
s00180	chr3:178921465	SNV	C	T	exonic	missense	5	p.Pro316Leu	c.947C>T	
s00180	chr3:178927429	SNV	C	T	exonic	missense	7	p.Arg398Cys	c.1192C>T	
s00180	chr3:178927451	SNV	C	T	exonic	missense	7	p.Ser405Phe	c.1214C>T	1420805:1420806:6149
s00180	chr3:178927457	SNV	G	C	exonic	missense	7	p.Cys407Ser	c.1220G>C	
s00180	chr3:178927478	SNV	G	A	exonic	missense	7	p.Gly414Asp	c.1241G>A	
s00180	chr3:178928031	SNV	G	A	exonic	missense	8	p.Val437Ile	c.1309G>A	
s00180	chr3:178928068	SNV	C	T	exonic	missense	8	p.Pro449Leu	c.1346C>T	1041483:1041482
s00180	chr3:178928274	SNV	C	T	exonic	missense	9	p.Pro487Leu	c.1460C>T	
s00180	chr3:178928349	SNV	G	A	exonic	missense	9	p.Gly512Glu	c.1535G>A	
s00180	chr3:178919148	SNV	C	T	exonic	synonymous	4	p.(=)	c.633C>T	
s00180	chr3:178919133	SNV	G	A	exonic	synonymous	4	p.(=)	c.618G>A	
s00180	chr3:178951982	SNV	C	T	exonic	synonymous	21	p.(=)	c.3037C>T	
s00180	chr3:178937430	SNV	C	T	exonic	synonymous	12	p.(=)	c.1818C>T	
s00180	chr3:178937775	SNV	G	A	exonic	synonymous	13	p.(=)	c.1950G>A	
s00180	chr3:178951900	SNV	C	T	exonic	synonymous	21	p.(=)	c.2955C>T	
s00180	chr3:178919314	SNV	C	T	exonic	synonymous	4	p.(=)	c.799C>T	

s00180	chr3:178938786	SNV	C	T	exonic	synonymous	14	p.(=)	c.2028C>T	
s00180	chr3:178943767	SNV	C	T	exonic	synonymous	17	p.(=)	c.2434C>T	
s00180	chr3:178937031	SNV	C	T	exonic	missense	11	p.Ser571Phe	c.1712C>T	
s00180	chr3:178937431	SNV	C	T	exonic	missense	12	p.Pro607Ser	c.1819C>T	
s00180	chr3:178937458	SNV	G	A	exonic	missense	12	p.Val616Ile	c.1846G>A	
s00180	chr3:178937488	SNV	G	A	exonic	missense	12	p.Asp626Asn	c.1876G>A	
s00180	chr3:178941872	SNV	C	T	exonic	nonsense	15	p.Gln731Ter	c.2191C>T	
s00180	chr3:178942526	SNV	C	T	exonic	missense	16	p.Pro778Leu	c.2333C>T	
s00180	chr3:178942564	SNV	G	A	exonic	missense	16	p.Glu791Lys	c.2371G>A	419701
s00180	chr3:178942585	SNV	G	A	exonic	missense	16	p.Glu798Lys	c.2392G>A	
s00180	chr3:178942606	SNV	G	A	exonic	missense	16	p.Asp805Asn	c.2413G>A	
s00180	chr3:178943824	SNV	C	T	exonic	missense	17	p.Leu831Phe	c.2491C>T	
s00180	chr3:178943827	SNV	C	T	exonic	nonsense	17	p.Arg832Ter	c.2494C>T	
s00180	chr3:178947083	SNV	C	T	exonic	missense	18	p.Ser840Leu	c.2519C>T	
s00180	chr3:178947115	SNV	G	A	exonic	missense	18	p.Val851Met	c.2551G>A	
s00180	chr3:178947803	SNV	C	T	exonic	missense	19	p.Ala893Val	c.2678C>T	
s00180	chr3:178951920	SNV	G	A	exonic	missense	21	p.Arg992Gln	c.2975G>A	1041515:1041514:249138
s00180	chr3:178951953	SNV	C	T	exonic	missense	21	p.Ser1003Leu	c.3008C>T	1420941:142094
s00180	chr3:178951970	SNV	G	A	exonic	missense	21	p.Gly1009Arg	c.3025G>A	2:1420943:1420944

s00182	chr3:178917648	SNV	C	T	exonic	missense	3	p.Pro175Ser	c.523C>T	
s00182	chr3:178919077	SNV	G	A	splice_5		4			
s00182	chr3:178919170	SNV	C	T	exonic	nonsense	4	p.Gln219Ter	c.655C>T	
s00182	chr3:178919302	SNV	G	A	exonic	missense	4	p.Glu263Lys	c.787G>A	
s00182	chr3:178927423	SNV	C	T	exonic	missense	7	p.Leu396Phe	c.1186C>T	
s00182	chr3:178927441	SNV	C	T	exonic	missense	7	p.Leu402Phe	c.1204C>T	
s00182	chr3:178927478	SNV	G	A	exonic	missense	7	p.Gly414Asp	c.1241G>A	
s00182	chr3:178928037	SNV	G	A	exonic	missense	8	p.Gly439Arg	c.1315G>A	
s00182	chr3:178928068	SNV	C	T	exonic	missense	8	p.Pro449Leu	c.1346C>T	1041483:1041482
s00182	chr3:178928079	SNV	G	A	exonic	missense	8	p.Glu453Lys	c.1357G>A	446007:1041484:12584:758
s00182	chr3:178928107	SNV	C	T	exonic	missense	8	p.Thr462Ile	c.1385C>T	
s00182	chr3:178928301	SNV	C	T	exonic	missense	9	p.Ala496Val	c.1487C>T	
s00182	chr3:178928334	SNV	G	A	exonic	missense	9	p.Ser507Asn	c.1520G>A	
s00182	chr3:178947837	SNV	C	T	exonic	synonymous	19	p.(=)	c.2712C>T	
s00182	chr3:178952146	SNV	G	A	exonic	synonymous	21	p.(=)	c.3201G>A	249879:12464
s00182	chr3:178941964	SNV	A	G	exonic	synonymous	15	p.(=)	c.2283A>G	
s00182	chr3:178928099	SNV	T	C	exonic	synonymous	8	p.(=)	c.1377T>C	
s00182	chr3:178952017	SNV	G	A	exonic	synonymous	21	p.(=)	c.3072G>A	
s00182	chr3:178927396	SNV	C	T	exonic	synonymous	7	p.(=)	c.1159C>T	
s00182	chr3:178917656	SNV	G	A	exonic	synonymous	3	p.(=)	c.531G>A	

s00182	chr3:178928353	SNV	G	A	exonic	synonymous	9	p.(=)	c.1539G>A	166154:1420754
s00182	chr3:178916949	SNV	C	T	exonic	synonymous	2	p.(=)	c.336C>T	:1420755:1420756:1420757
s00182	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00182	chr3:178937775	SNV	G	A	exonic	synonymous	13	p.(=)	c.1950G>A	
s00182	chr3:178942536	SNV	G	A	exonic	synonymous	16	p.(=)	c.2343G>A	
s00182	chr3:178937458	SNV	G	A	exonic	missense	12	p.Val616Ile	c.1846G>A	
s00182	chr3:178937468	SNV	T	G	exonic	missense	12	p.Leu619Trp	c.1856T>G	
s00182	chr3:178942532	SNV	G	A	exonic	nonsense	16	p.Trp780Ter	c.2339G>A	
s00182	chr3:178942603	SNV	G	A	exonic	missense	16	p.Gly804Arg	c.2410G>A	
s00182	chr3:178943812	SNV	C	T	exonic	nonsense	17	p.Gln827Ter	c.2479C>T	
s00182	chr3:178947068	SNV	C	T	exonic	missense	18	p.Pro835Leu	c.2504C>T	21446:1041516:
s00182	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	1420933:1420934
s00182	chr3:178951971	SNV	G	A	exonic	missense	21	p.Gly1009Glu	c.3026G>A	28544
s00182	chr3:178952024	SNV	G	A	exonic	missense	21	p.Ala1027Thr	c.3079G>A	
s00183	chr3:178917681	SNV	G	A	exonic	missense	3	p.Asp186Asn	c.556G>A	
s00183	chr3:178917612	SNV	G	A	exonic	missense	3	p.Ala163Thr	c.487G>A	
s00183	chr3:178921479	SNV	G	A	exonic	missense	5	p.Glu321Lys	c.961G>A	
s00183	chr3:178922334	SNV	G	A	exonic	missense	6	p.Cys368Tyr	c.1103G>A	

s00183	chr3:178927477	SNV	G	A	exonic	missense	7	p.Gly414Ser	c.1240G>A	
s00183	chr3:178927471	SNV	C	T	exonic	nonsense	7	p.Arg412Ter	c.1234C>T	
s00183	chr3:178927447	SNV	C	T	exonic	missense	7	p.Leu404Phe	c.1210C>T	
s00183	chr3:178928079	SNV	G	A	exonic	missense	8	p.Glu453Lys	c.1357G>A	446007:1041484 :12584:758
s00183	chr3:178928109	SNV	G	A	exonic	missense	8	p.Gly463Arg	c.1387G>A	1041488:104148 7
s00183	chr3:178928074	SNV	G	A	exonic	missense	8	p.Gly451Glu	c.1352G>A	1308839:130883 8
s00183	chr3:178928035	SNV	C	T	exonic	missense	8	p.Ser438Phe	c.1313C>T	
s00183	chr3:178928037	SNV	G	A	exonic	missense	8	p.Gly439Arg	c.1315G>A	
s00183	chr3:178928346	SNV	C	T	exonic	missense	9	p.Ala511Val	c.1532C>T	
s00183	chr3:178936022	SNV	G	A	exonic	missense	10	p.Glu522Lys	c.1564G>A	28540
s00183	chr3:178919316	SNV	G	A	exonic	synonymous	4	p.(=)	c.801G>A	1308835:130883 4
s00183	chr3:178937787	SNV	G	A	exonic	synonymous	13	p.(=)	c.1962G>A	
s00183	chr3:178936987	SNV	C	T	exonic	synonymous	11	p.(=)	c.1668C>T	
s00183	chr3:178937027	SNV	C	T	exonic	synonymous	11	p.(=)	c.1708C>T	
s00183	chr3:178928335	SNV	C	T	exonic	synonymous	9	p.(=)	c.1521C>T	
s00183	chr3:178937773	SNV	G	A	exonic	missense	13	p.Val650Met	c.1948G>A	
s00183	chr3:178937806	SNV	C	T	exonic	nonsense	13	p.Gln661Ter	c.1981C>T	1420874:768
s00183	chr3:178941965	SNV	G	A	exonic	missense	15	p.Gly762Arg	c.2284G>A	

s00183	chr3:178942609	SNV	G	A	exonic	missense	16	p.Asp806Asn	c.2416G>A	
s00183	chr3:178943829	SNV	G	A	splice_3		17			
s00183	chr3:178943804	SNV	G	A	exonic	nonsense	17	p.Trp824Ter	c.2471G>A	
s00183	chr3:178947068	SNV	C	T	exonic	missense	18	p.Pro835Leu	c.2504C>T	
										1420941:142094
s00183	chr3:178951970	SNV	G	A	exonic	missense	21	p.Gly1009Arg	c.3025G>A	2:1420943:1420944
s00183	chr3:178952012	SNV	C	T	exonic	nonsense	21	p.Arg1023Ter	c.3067C>T	1420970:1420971
s00183	chr3:178952030	SNV	G	A	exonic	missense	21	p.Asp1029Asn	c.3085G>A	29640:1041521:36286
s00184	chr3:178917484	SNV	C	T	exonic	missense	3	p.Ala120Val	c.359C>T	
s00184	chr3:178917648	SNV	C	T	exonic	missense	3	p.Pro175Ser	c.523C>T	
s00184	chr3:178917657	MNV	CC	TT	exonic	missense	3	p.Pro178Leu	c.532_533delCCinsTT	
s00184	chr3:178919100	SNV	G	A	exonic	nonsense	4	p.Trp195Ter	c.585G>A	
s00184	chr3:178919122	SNV	G	A	exonic	missense	4	p.Asp203Asn	c.607G>A	
s00184	chr3:178919170	SNV	C	T	exonic	nonsense	4	p.Gln219Ter	c.655C>T	
s00184	chr3:178919240	SNV	G	A	exonic	missense	4	p.Cys242Tyr	c.725G>A	
s00184	chr3:178921479	SNV	G	A	exonic	missense	5	p.Glu321Lys	c.961G>A	
s00184	chr3:178921533	SNV	C	T	exonic	missense	5	p.Leu339Phe	c.1015C>T	21424
s00184	chr3:178927405	SNV	G	A	exonic	missense	7	p.Asp390Asn	c.1168G>A	

s00184	chr3:178927441	SNV	C	T	exonic	missense	7	p.Leu402Phe	c.1204C>T	
s00184	chr3:178927457	SNV	G	A	exonic	missense	7	p.Cys407Tyr	c.1220G>A	
s00184	chr3:178928026	SNV	C	T	exonic	missense	8	p.Thr435Ile	c.1304C>T	
s00184	chr3:178928101	SNV	G	A	exonic	missense	8	p.Gly460Asp	c.1379G>A	
s00184	chr3:178921550	SNV	G	A	exonic	synonymous	5	p.(=)	c.1032G>A	1420786:1420787
s00184	chr3:178919193	SNV	G	A	exonic	synonymous	4	p.(=)	c.678G>A	
s00184	chr3:178919214	SNV	G	A	exonic	synonymous	4	p.(=)	c.699G>A	
s00184	chr3:178942605	SNV	G	A	exonic	synonymous	16	p.(=)	c.2412G>A	
s00184	chr3:178919316	SNV	G	A	exonic	synonymous	4	p.(=)	c.801G>A	1308835:1308834
s00184	chr3:178937029	SNV	G	A	exonic	synonymous	11	p.(=)	c.1710G>A	
s00184	chr3:178937775	SNV	G	A	exonic	synonymous	13	p.(=)	c.1950G>A	
s00184	chr3:178927413	SNV	C	T	exonic	synonymous	7	p.(=)	c.1176C>T	
s00184	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00184	chr3:178951930	SNV	C	T	exonic	synonymous	21	p.(=)	c.2985C>T	
s00184	chr3:178943812	SNV	C	T	exonic	nonsense	17	p.Gln827Ter	c.2479C>T	
s00184	chr3:178943818	SNV	C	T	exonic	missense	17	p.Leu829Phe	c.2485C>T	
s00185	chr3:178916648	SNV	G	A	exonic	missense	2	p.Gly12Asp	c.35G>A	27495:1041446
s00185	chr3:178952085	SNV	A	G	exonic	missense	21	p.His1047Arg	c.3140A>G	775:776:94987:94986:249874
s00186	chr3:178952007	SNV	A	G	exonic	missense	21	p.Tyr1021Cys	c.3062A>G	12461:276755:3

										28025
s00187	chr3:178928068	SNV	C	T	exonic	missense	8	p.Pro449Leu	c.1346C>T	1041483:1041482
s00188	chr3:178916716	SNV	G	A	exonic	missense	2	p.Glu35Lys	c.103G>A	
s00188	chr3:178916903	SNV	C	T	exonic	missense	2	p.Pro97Leu	c.290C>T	
s00188	chr3:178916914	SNV	G	A	exonic	missense	2	p.Val101Ile	c.301G>A	
s00188	chr3:178916938	SNV	G	A	exonic	missense	2	p.Glu109Lys	c.325G>A	
s00188	chr3:178917649	SNV	C	T	exonic	missense	3	p.Pro175Leu	c.524C>T	
s00188	chr3:178917495	SNV	C	T	exonic	missense	3	p.Pro124Ser	c.370C>T	753
s00188	chr3:178919248	SNV	G	A	exonic	missense	4	p.Glu245Lys	c.733G>A	
s00188	chr3:178919182	SNV	G	A	exonic	missense	4	p.Glu223Lys	c.667G>A	
s00188	chr3:178919279	SNV	G	A	exonic	missense	4	p.Cys255Tyr	c.764G>A	
s00188	chr3:178919275	SNV	G	A	exonic	missense	4	p.Val254Met	c.760G>A	
s00188	chr3:178921548	SNV	G	A	exonic	missense	5	p.Val344Met	c.1030G>A	253279:253280
s00188	chr3:178921472	SNV	G	A	exonic	missense	5	p.Met318Ile	c.954G>A	
s00188	chr3:178922342	SNV	G	A	exonic	missense	6	p.Val371Met	c.1111G>A	
s00188	chr3:178922367	SNV	C	T	exonic	missense	6	p.Ser379Phe	c.1136C>T	
s00188	chr3:178927436	SNV	C	T	exonic	missense	7	p.Ala400Val	c.1199C>T	
s00188	chr3:178927390	SNV	G	A	exonic	missense	7	p.Glu385Lys	c.1153G>A	
s00188	chr3:178927386	SNV	G	A	exonic	nonsense	7	p.Trp383Ter	c.1149G>A	
s00188	chr3:178928074	SNV	G	A	exonic	missense	8	p.Gly451Glu	c.1352G>A	1308839:1308838

s00188	chr3:178928068	SNV	C	T	exonic	missense	8	p.Pro449Leu	c.1346C>T	1041483:1041482
s00188	chr3:178928342	SNV	C	T	exonic	missense	9	p.His510Tyr	c.1528C>T	1420833:1420834:1420835:1420836
s00188	chr3:178928325	SNV	C	T	exonic	missense	9	p.Ala504Val	c.1511C>T	
s00188	chr3:178928264	SNV	G	A	exonic	missense	9	p.Val484Ile	c.1450G>A	
s00188	chr3:178937046	SNV	C	T	exonic	missense	11	p.Ser576Phe	c.1727C>T	1041498:1041497
s00188	chr3:178937054	SNV	G	A	exonic	missense	11	p.Glu579Lys	c.1735G>A	
s00188	chr3:178937016	SNV	C	T	exonic	missense	11	p.Pro566Leu	c.1697C>T	
s00188	chr3:178937396	SNV	C	T	exonic	missense	12	p.Pro595Leu	c.1784C>T	
s00188	chr3:178937387	SNV	C	T	exonic	missense	12	p.Pro592Leu	c.1775C>T	
s00188	chr3:178922344	SNV	G	A	exonic	synonymous	6	p.(=)	c.1113G>A	
s00188	chr3:178937427	SNV	T	A	exonic	missense	12	p.Asn605Lys	c.1815T>A	
s00188	chr3:178941880	SNV	G	A	exonic	synonymous	15	p.(=)	c.2199G>A	
s00188	chr3:178937769	SNV	G	A	exonic	synonymous	13	p.(=)	c.1944G>A	
s00188	chr3:178928351	SNV	C	T	exonic	synonymous	9	p.(=)	c.1537C>T	
s00188	chr3:178936099	SNV	G	A	exonic	synonymous	10	p.(=)	c.1641G>A	729819:729820
s00188	chr3:178947219	SNV	C	T	exonic	synonymous	18	p.(=)	c.2655C>T	
s00188	chr3:178928248	SNV	C	T	exonic	synonymous	9	p.(=)	c.1434C>T	
s00188	chr3:178947159	SNV	C	T	exonic	synonymous	18	p.(=)	c.2595C>T	

s00188	chr3:178947114	SNV	G	A	exonic	synonymous	18	p.(=)	c.2550G>A	
s00188	chr3:178919277	SNV	G	A	exonic	synonymous	4	p.(=)	c.762G>A	
s00188	chr3:178941962	SNV	C	T	exonic	synonymous	15	p.(=)	c.2281C>T	
s00188	chr3:178916892	SNV	G	A	exonic	synonymous	2	p.(=)	c.279G>A	
s00188	chr3:178942564	SNV	G	A	exonic	missense	16	p.Glu791Lys	c.2371G>A	419701
s00188	chr3:178942552	SNV	G	A	exonic	missense	16	p.Asp787Asn	c.2359G>A	
s00188	chr3:178942550	SNV	C	T	exonic	missense	16	p.Pro786Leu	c.2357C>T	
s00188	chr3:178942542	SNV	G	A	exonic	nonsense	16	p.Trp783Ter	c.2349G>A	
s00188	chr3:178942516	SNV	G	A	exonic	missense	16	p.Ala775Thr	c.2323G>A	
s00188	chr3:178943805	SNV	G	A	exonic	nonsense	17	p.Trp824Ter	c.2472G>A	
s00188	chr3:178947125	SNV	C	T	exonic	missense	18	p.Ser854Phe	c.2561C>T	
s00188	chr3:178947800	SNV	C	T	exonic	missense	19	p.Ala892Val	c.2675C>T	
s00188	chr3:178951989	SNV	C	T	exonic	missense	21	p.Ser1015Phe	c.3044C>T	1420954:21464: 1420955
s00188	chr3:178952037	SNV	C	T	exonic	missense	21	p.Thr1031Ile	c.3092C>T	28543
s00188	chr3:178951994	SNV	G	A	exonic	missense	21	p.Asp1017Asn	c.3049G>A	27377:304026
s00188	chr3:178951928	SNV	G	A	exonic	missense	21	p.Ala995Thr	c.2983G>A	
s00191	chr3:178921549	INDEL	T	TGAA	exonic	nonframeshiftInsertion	5	p.Val344_Asn345insLys	c.1031_1032insGAA	258749:276750: 86951:22540
s00193	chr3:178927994	SNV	G	A	exonic	nonsense	8	p.Trp424Ter	c.1272G>A	
s00194	chr3:178941971	SNV	C	T	exonic	missense	15	p.Leu764Phe	c.2290C>T	
s00195	chr3:178937500	SNV	C	T	exonic	nonsense	12	p.Gln630Ter	c.1888C>T	

s00197	chr3:178916941	SNV	G	A	exonic	missense	2	p.Glu110Lys	c.328G>A	6145
s00197	chr3:178917621	SNV	G	A	exonic	missense	3	p.Val166Ile	c.496G>A	
s00197	chr3:178919329	SNV	G	A	spliceite_3		4			
s00197	chr3:178919287	SNV	G	A	exonic	missense	4	p.Asp258Asn	c.772G>A	167011
s00197	chr3:178928020	SNV	C	T	exonic	missense	8	p.Thr433Ile	c.1298C>T	
s00197	chr3:178928113	SNV	C	T	exonic	missense	8	p.Ser464Leu	c.1391C>T	
s00197	chr3:178937398	SNV	G	A	exonic	missense	12	p.Glu596Lys	c.1786G>A	
s00197	chr3:178951909	SNV	T	C	exonic	synonymous	21	p.(=)	c.2964T>C	
s00197	chr3:178937811	SNV	G	A	exonic	synonymous	13	p.(=)	c.1986G>A	
s00197	chr3:178919151	SNV	C	T	exonic	synonymous	4	p.(=)	c.636C>T	
s00197	chr3:178942605	SNV	G	A	exonic	synonymous	16	p.(=)	c.2412G>A	
s00197	chr3:178916919	SNV	T	C	exonic	synonymous	2	p.(=)	c.306T>C	1484854:1484855
s00197	chr3:178928302	SNV	C	T	exonic	synonymous	9	p.(=)	c.1488C>T	
s00197	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00197	chr3:178952003	SNV	G	A	exonic	missense	21	p.Ala1020Thr	c.3058G>A	1420966:1420967
s00199	chr3:178917478	SNV	G	A	exonic	missense	3	p.Gly118Asp	c.353G>A	751:246588
s00201	chr3:178927980	SNV	T	C	exonic	missense	8	p.Cys420Arg	c.1258T>C	1659149:267862 :757:1659150
s00202	chr3:178937500	SNV	C	T	exonic	nonsense	12	p.Gln630Ter	c.1888C>T	
s00202	chr3:178948102	SNV	G	A	exonic	synonymous	20	p.(=)	c.2874G>A	

s00203	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370 86041:1420743:
s00206	chr3:178916891	SNV	G	A	exonic	missense	2	p.Arg93Gln	c.278G>A	1420744:104145 6 12590:771:3039
s00206	chr3:178952018	SNV	A	G	exonic	missense	21	p.Thr1025Ala	c.3073A>G	01:1041520:104 1519
s00207	chr3:178937502	SNV	G	A	exonic	synonymous	12	p.(=)	c.1890G>A	
s00209	chr3:178916926	SNV	G	A	exonic	missense	2	p.Val105Ile	c.313G>A	
s00209	chr3:178917636	SNV	G	T	exonic	missense	3	p.Val171Leu	c.511G>T	
s00209	chr3:178919107	SNV	G	A	exonic	missense	4	p.Val198Ile	c.592G>A	
s00209	chr3:178919240	SNV	G	A	exonic	missense	4	p.Cys242Tyr	c.725G>A	
s00209	chr3:178919207	SNV	G	A	exonic	missense	4	p.Ser231Asn	c.692G>A	
s00209	chr3:178921579	SNV	T	C	splice site_3		5			
s00209	chr3:178928062	SNV	C	T	exonic	missense	8	p.Pro447Leu	c.1340C>T	
s00209	chr3:178928020	SNV	C	T	exonic	missense	8	p.Thr433Ile	c.1298C>T	
s00209	chr3:178928219	SNV	G	A	exonic	missense	9	p.Glu469Lys	c.1405G>A	
s00209	chr3:178936103	SNV	G	A	exonic	missense	10	p.Asp549Asn	c.1645G>A	219119:17470
s00209	chr3:178936113	SNV	G	A	exonic	nonsense	10	p.Trp552Ter	c.1655G>A	
s00209	chr3:178937447	SNV	G	A	exonic	missense	12	p.Arg612Gln	c.1835G>A	
s00209	chr3:178937752	SNV	C	T	exonic	nonsense	13	p.Gln643Ter	c.1927C>T	1420870:142087

s00209	chr3:178947087	SNV	C	T	exonic	synonymous	18	p.(=)	c.2523C>T
s00209	chr3:178937463	SNV	G	A	exonic	synonymous	12	p.(=)	c.1851G>A
s00209	chr3:178947804	SNV	C	T	exonic	synonymous	19	p.(=)	c.2679C>T
s00209	chr3:178947858	SNV	G	A	exonic	synonymous	19	p.(=)	c.2733G>A
s00209	chr3:178922368	SNV	C	T	exonic	synonymous	6	p.(=)	c.1137C>T
s00209	chr3:178919127	SNV	G	A	exonic	synonymous	4	p.(=)	c.612G>A
s00209	chr3:178938786	SNV	C	T	exonic	synonymous	14	p.(=)	c.2028C>T
s00209	chr3:178937784	SNV	A	G	exonic	synonymous	13	p.(=)	c.1959A>G
s00209	chr3:178937017	SNV	C	T	exonic	synonymous	11	p.(=)	c.1698C>T
s00209	chr3:178919299	SNV	C	T	exonic	synonymous	4	p.(=)	c.784C>T
s00209	chr3:178927440	SNV	A	G	exonic	synonymous	7	p.(=)	c.1203A>G
s00209	chr3:178942530	SNV	G	A	exonic	synonymous	16	p.(=)	c.2337G>A
s00209	chr3:178941868	SNV	G	A	splice	site_5	15		
s00209	chr3:178947088	SNV	G	A	exonic	missense	18	p.Gly842Ser	c.2524G>A
s00209	chr3:178947067	SNV	C	T	exonic	missense	18	p.Pro835Ser	c.2503C>T
s00209	chr3:178948115	SNV	G	A	exonic	missense	20	p.Val963Met	c.2887G>A

764:27155:1245

s00214	chr3:178936092	SNV	A	C	exonic	missense	10	p.Glu545Ala	c.1634A>C	8:297145:12537
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s00214	chr3:178952146	INDEL	G	GA	exonic	frameshiftIns ertion	21	p.Asn1068fs	c.3201_320 2insA	249879:12464
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s00217	chr3:178921533	SNV	C	T	exonic	missense	5	p.Leu339Phe	c.1015C>T	21424
s00217	chr3:178922304	SNV	C	T	exonic	missense	6	p.Thr358Ile	c.1073C>T	
s00217	chr3:178922336	SNV	G	A	exonic	missense	6	p.Asp369Asn	c.1105G>A	
s00217	chr3:178922377	SNV	G	A	splice_3		6			
s00217	chr3:178928055	SNV	C	T	exonic	missense	8	p.Leu445Phe	c.1333C>T	
s00217	chr3:178928092	SNV	A	G	exonic	missense	8	p.Asn457Ser	c.1370A>G	1420827:1420828
s00217	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:295672:125370
s00217	chr3:178936094	SNV	C	G	exonic	missense	10	p.Gln546Glu	c.1636C>G	255876:766:6147:1566572
s00217	chr3:178936992	SNV	G	A	exonic	missense	11	p.Cys558Tyr	c.1673G>A	
s00217	chr3:178937396	SNV	C	T	exonic	missense	12	p.Pro595Leu	c.1784C>T	
s00217	chr3:178937431	SNV	C	T	exonic	missense	12	p.Pro607Ser	c.1819C>T	
s00217	chr3:178938773	SNV	G	A	splice_5		14			
s00217	chr3:178937027	SNV	C	T	exonic	synonymous	11	p.(=)	c.1708C>T	
s00217	chr3:178952017	SNV	G	A	exonic	synonymous	21	p.(=)	c.3072G>A	
s00217	chr3:178951966	SNV	C	T	exonic	synonymous	21	p.(=)	c.3021C>T	303945:1420935:1420936
s00217	chr3:178928081	SNV	A	G	exonic	synonymous	8	p.(=)	c.1359A>G	1420823:1420824
s00217	chr3:178951936	SNV	C	T	exonic	synonymous	21	p.(=)	c.2991C>T	166350

s00217	chr3:178943761	SNV	G	A	exonic	missense	17	p.Asp810Asn	c.2428G>A	
s00217	chr3:178943776	SNV	C	T	exonic	nonsense	17	p.Gln815Ter	c.2443C>T	
s00217	chr3:178943785	SNV	C	T	exonic	missense	17	p.Arg818Cys	c.2452C>T	1041508:1041507
s00217	chr3:178947898	SNV	G	A	exonic	missense	19	p.Asp925Asn	c.2773G>A	
s00217	chr3:178948154	SNV	G	T	exonic	nonsense	20	p.Glu976Ter	c.2926G>T	
s00217	chr3:178952115	SNV	G	A	exonic	nonsense	21	p.Trp1057Ter	c.3170G>A	
s00217	chr3:178951979	SNV	G	A	exonic	missense	21	p.Glu1012Lys	c.3034G>A	307758
s00221	chr3:178919211	SNV	G	A	exonic	missense	4	p.Met232Ile	c.696G>A	
s00221	chr3:178927405	SNV	G	A	exonic	missense	7	p.Asp390Asn	c.1168G>A	
s00221	chr3:178927457	SNV	G	A	exonic	missense	7	p.Cys407Tyr	c.1220G>A	
s00221	chr3:178937801	SNV	C	T	exonic	missense	13	p.Thr659Ile	c.1976C>T	
s00221	chr3:178941962	SNV	C	T	exonic	synonymous	15	p.(=)	c.2281C>T	
s00221	chr3:178941973	SNV	C	T	exonic	synonymous	15	p.(=)	c.2292C>T	446022:446023
s00221	chr3:178928087	SNV	G	A	exonic	synonymous	8	p.(=)	c.1365G>A	
s00222	chr3:178917502	SNV	G	A	exonic	missense	3	p.Cys126Tyr	c.377G>A	
s00222	chr3:178919138	SNV	C	T	exonic	missense	4	p.Thr208Ile	c.623C>T	
s00222	chr3:178919290	SNV	G	A	exonic	missense	4	p.Glu259Lys	c.775G>A	
s00222	chr3:178919317	SNV	A	G	exonic	missense	4	p.Ser268Gly	c.802A>G	
s00222	chr3:178927436	SNV	C	T	exonic	missense	7	p.Ala400Val	c.1199C>T	
s00222	chr3:178927477	SNV	G	A	exonic	missense	7	p.Gly414Ser	c.1240G>A	
s00222	chr3:178927981	SNV	G	A	exonic	missense	8	p.Cys420Tyr	c.1259G>A	

s00222	chr3:178928026	SNV	C	T	exonic	missense	8	p.Thr435Ile	c.1304C>T	
s00222	chr3:178928064	SNV	G	A	exonic	missense	8	p.Val448Ile	c.1342G>A	86070 17442:760:1253
s00222	chr3:178936082	SNV	G	A	exonic	missense	10	p.Glu542Lys	c.1624G>A	69:1659152:165 9153:326157
s00222	chr3:178937387	SNV	C	T	exonic	missense	12	p.Pro592Leu	c.1775C>T	
s00222	chr3:178937777	SNV	G	A	exonic	missense	13	p.Arg651Lys	c.1952G>A	
s00222	chr3:178942548	SNV	C	T	exonic	synonymous	16	p.(=)	c.2355C>T	
s00222	chr3:178942530	SNV	G	A	exonic	synonymous	16	p.(=)	c.2337G>A	
s00222	chr3:178942587	SNV	G	A	exonic	synonymous	16	p.(=)	c.2394G>A	
s00222	chr3:178937017	SNV	C	T	exonic	synonymous	11	p.(=)	c.1698C>T	
s00222	chr3:178951920	SNV	G	A	exonic	missense	21	p.Arg992Gln	c.2975G>A	1041515:104151 4:249138
s00222	chr3:178951997	SNV	G	A	exonic	missense	21	p.Asp1018Asn	c.3052G>A	1420964:33599
s00222	chr3:178952003	SNV	G	A	exonic	missense	21	p.Ala1020Thr	c.3058G>A	1420966:142096 7 94985:94984:41
s00222	chr3:178952074	SNV	G	A	exonic	missense	21	p.Met1043Ile	c.3129G>A	9700:773:29313: 446027 25041:767:1041
s00223	chr3:178936095	SNV	A	G	exonic	missense	10	p.Gln546Arg	c.1637A>G	496:446012:124 59

s00225	chr3:178919138	SNV	C	T	exonic	missense	4	p.Thr208Ile	c.623C>T	
s00225	chr3:178942508	SNV	T	C	exonic	missense	16	p.Met772Thr	c.2315T>C	
s00225	chr3:178952030	SNV	G	A	exonic	missense	21	p.Asp1029Asn	c.3085G>A	29640:1041521: 36286
s00227	chr3:178916941	SNV	G	A	exonic	missense	2	p.Glu110Lys	c.328G>A	6145
s00227	chr3:178916959	SNV	G	A	exonic	missense	2	p.Glu116Lys	c.346G>A	
s00227	chr3:178916953	INDEL	A	AATCG AG	exonic	nonframeshift Insertion	2	p.Asn114_Arg 115insArgAsp	c.340_341i nsATCGA G	
s00227	chr3:178916716	SNV	G	A	exonic	missense	2	p.Glu35Lys	c.103G>A	
s00227	chr3:178917504	SNV	G	A	exonic	missense	3	p.Glu127Lys	c.379G>A	
s00227	chr3:178917590	MNV	CC	TT	exonic	synonymous missense	3	p.Leu156Phe	c.465_466d elCCinsTT	
s00227	chr3:178917531	SNV	G	A	exonic	missense	3	p.Val136Ile	c.406G>A	
s00227	chr3:178919173	SNV	G	A	exonic	missense	4	p.Val220Ile	c.658G>A	
s00227	chr3:178919219	SNV	C	T	exonic	missense	4	p.Ser235Phe	c.704C>T	
s00227	chr3:178922364	SNV	G	A	exonic	missense	6	p.Cys378Tyr	c.1133G>A	1041478:104147 9:21450
s00227	chr3:178922349	SNV	C	T	exonic	missense	6	p.Thr373Ile	c.1118C>T	
s00227	chr3:178928122	SNV	A	G	exonic	missense	8	p.Asn467Ser	c.1400A>G	
s00227	chr3:178927995	SNV	G	A	exonic	missense	8	p.Gly425Arg	c.1273G>A	
s00227	chr3:178928013	SNV	G	A	exonic	missense	8	p.Asp431Asn	c.1291G>A	

s00227	chr3:178928219	SNV	G	A	exonic	missense	9	p.Glu469Lys	c.1405G>A	
s00227	chr3:178936056	SNV	C	T	exonic	missense	10	p.Ala533Val	c.1598C>T	29314
s00227	chr3:178936062	SNV	C	T	exonic	missense	10	p.Ser535Phe	c.1604C>T	
s00227	chr3:178937387	SNV	C	T	exonic	missense	12	p.Pro592Leu	c.1775C>T	
s00227	chr3:178942536	SNV	G	T	exonic	missense	16	p.Leu781Phe	c.2343G>T	
s00227	chr3:178942583	SNV	A	G	exonic	missense	16	p.Asn797Ser	c.2390A>G	
s00227	chr3:178942581	SNV	C	T	exonic	synonymous	16	p.(=)	c.2388C>T	
s00227	chr3:178919259	SNV	C	T	exonic	synonymous	4	p.(=)	c.744C>T	
s00227	chr3:178928006	SNV	C	T	exonic	synonymous	8	p.(=)	c.1284C>T	
s00227	chr3:178947189	SNV	C	T	exonic	synonymous	18	p.(=)	c.2625C>T	
s00227	chr3:178937421	SNV	C	T	exonic	synonymous	12	p.(=)	c.1809C>T	
s00227	chr3:178916730	SNV	G	A	exonic	synonymous	2	p.(=)	c.117G>A	1420733:1420734
s00227	chr3:178947180	SNV	C	T	exonic	synonymous	18	p.(=)	c.2616C>T	
s00227	chr3:178936087	SNV	C	T	exonic	synonymous	10	p.(=)	c.1629C>T	
s00227	chr3:178952119	SNV	C	T	exonic	synonymous	21	p.(=)	c.3174C>T	
s00227	chr3:178943756	SNV	G	A	exonic	missense	17	p.Arg808Gln	c.2423G>A	
s00227	chr3:178951960	SNV	G	A	exonic	missense	21	p.Met1005Ile	c.3015G>A	
s00227	chr3:178952022	SNV	T	A	exonic	missense	21	p.Leu1026Gln	c.3077T>A	25084
s00229	chr3:178937051	SNV	G	T	exonic	missense	11	p.Asp578Tyr	c.1732G>T	
s00229	chr3:178952077	SNV	T	G	exonic	missense	21	p.Asn1044Lys	c.3132T>G	479741:1041522 :12592:27504

s00231	chr3:178919089	SNV	G	A	exonic	missense	4	p.Val192Met	c.574G>A	
s00231	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A	
s00231	chr3:178921458	SNV	G	A	exonic	missense	5	p.Ala314Thr	c.940G>A	
s00231	chr3:178927417	SNV	C	T	exonic	missense	7	p.Pro394Ser	c.1180C>T	
s00231	chr3:178928055	SNV	C	T	exonic	missense	8	p.Leu445Phe	c.1333C>T	
s00231	chr3:178937442	SNV	G	A	exonic	missense	12	p.Met610Ile	c.1830G>A	
s00231	chr3:178937488	SNV	G	A	exonic	missense	12	p.Asp626Asn	c.1876G>A	
s00231	chr3:178943802	SNV	C	T	exonic	synonymous	17	p.(=)	c.2469C>T	
s00231	chr3:178951964	SNV	G	A	exonic	missense	21	p.Gly1007Ser	c.3019G>A	17443:94982
s00231	chr3:178952019	SNV	C	T	exonic	missense	21	p.Thr1025Ile	c.3074C>T	772:1666840:36285
s00231	chr3:178952037	SNV	C	T	exonic	missense	21	p.Thr1031Ile	c.3092C>T	28543
s00231	chr3:178952039	SNV	G	A	exonic	missense	21	p.Glu1032Lys	c.3094G>A	
s00231	chr3:178952045	SNV	G	A	exonic	missense	21	p.Glu1034Lys	c.3100G>A	1420980:1420981
s00232	chr3:178947068	SNV	C	T	exonic	missense	18	p.Pro835Leu	c.2504C>T	
s00233	chr3:178937515	SNV	C	T	exonic	synonymous	12	p.(=)	c.1903C>T	
s00240	chr3:178928079	SNV	G	A	exonic	missense	8	p.Glu453Lys	c.1357G>A	446007:1041484:12584:758
s00240	chr3:178928035	SNV	C	T	exonic	missense	8	p.Ser438Phe	c.1313C>T	
s00240	chr3:178928028	SNV	C	T	exonic	synonymous	8	p.(=)	c.1306C>T	
s00240	chr3:178927452	SNV	C	T	exonic	synonymous	7	p.(=)	c.1215C>T	

s00240	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00242	chr3:178951985	SNV	C	T	exonic	nonsense	21	p.Gln1014Ter	c.3040C>T	
s00243	chr3:178916755	SNV	G	A	exonic	missense	2	p.Glu48Lys	c.142G>A	
s00243	chr3:178916711	SNV	C	T	exonic	missense	2	p.Thr33Ile	c.98C>T	
s00243	chr3:178916716	SNV	G	A	exonic	missense	2	p.Glu35Lys	c.103G>A	
s00243	chr3:178916959	SNV	G	A	exonic	missense	2	p.Glu116Lys	c.346G>A	
s00243	chr3:178916924	SNV	C	T	exonic	missense	2	p.Pro104Leu	c.311C>T	1484857:747:163485
s00243	chr3:178927417	SNV	C	T	exonic	missense	7	p.Pro394Ser	c.1180C>T	
s00243	chr3:178927429	SNV	C	T	exonic	missense	7	p.Arg398Cys	c.1192C>T	
s00243	chr3:178928103	SNV	G	A	exonic	missense	8	p.Val461Ile	c.1381G>A	
s00243	chr3:178928283	SNV	C	T	exonic	missense	9	p.Ser490Leu	c.1469C>T	
s00243	chr3:178936029	SNV	G	A	exonic	missense	10	p.Arg524Lys	c.1571G>A	21465:53245
s00243	chr3:178936070	SNV	G	A	exonic	missense	10	p.Asp538Asn	c.1612G>A	21467:729821
s00243	chr3:178936097	SNV	G	A	exonic	missense	10	p.Glu547Lys	c.1639G>A	1420863:1420862:29315
s00243	chr3:178937015	SNV	C	T	exonic	missense	11	p.Pro566Ser	c.1696C>T	
s00243	chr3:178937024	SNV	C	T	exonic	missense	11	p.Leu569Phe	c.1705C>T	
s00243	chr3:178937383	SNV	C	T	exonic	missense	12	p.Pro591Ser	c.1771C>T	
s00243	chr3:178937749	SNV	G	A	exonic	missense	13	p.Glu642Lys	c.1924G>A	
s00243	chr3:178942562	SNV	C	T	exonic	missense	16	p.Ser790Leu	c.2369C>T	
s00243	chr3:178942542	SNV	G	A	exonic	nonsense	16	p.Trp783Ter	c.2349G>A	

s00243	chr3:178943821	SNV	G	A	exonic	missense	17	p.Asp830Asn	c.2488G>A	
s00243	chr3:178943776	SNV	C	T	exonic	nonsense	17	p.Gln815Ter	c.2443C>T	
s00243	chr3:178928254	SNV	C	T	exonic	synonymous	9	p.(=)	c.1440C>T	
s00243	chr3:178928230	SNV	C	T	exonic	synonymous	9	p.(=)	c.1416C>T	
s00243	chr3:178928272	SNV	C	T	exonic	synonymous	9	p.(=)	c.1458C>T	
s00243	chr3:178921457	SNV	A	C	exonic	synonymous	5	p.(=)	c.939A>C	
s00243	chr3:178916709	SNV	G	A	exonic	synonymous	2	p.(=)	c.96G>A	
s00243	chr3:178937002	SNV	C	T	exonic	synonymous	11	p.(=)	c.1683C>T	
s00243	chr3:178947162	SNV	G	A	exonic	synonymous	18	p.(=)	c.2598G>A	39499
s00243	chr3:178919091	SNV	G	A	exonic	synonymous	4	p.(=)	c.576G>A	
s00243	chr3:178919145	SNV	A	G	exonic	synonymous	4	p.(=)	c.630A>G	
s00243	chr3:178919314	SNV	C	T	exonic	synonymous	4	p.(=)	c.799C>T	
s00243	chr3:178928090	SNV	G	A	exonic	synonymous	8	p.(=)	c.1368G>A	
s00243	chr3:178937469	SNV	G	A	exonic	synonymous	12	p.(=)	c.1857G>A	
s00243	chr3:178947138	SNV	G	A	exonic	missense	18	p.Met858Ile	c.2574G>A	
s00243	chr3:178947839	SNV	G	A	exonic	missense	19	p.Cys905Tyr	c.2714G>A	
s00243	chr3:178947871	SNV	C	T	exonic	missense	19	p.Arg916Cys	c.2746C>T	
s00243	chr3:178947874	SNV	C	T	exonic	missense	19	p.His917Tyr	c.2749C>T	
s00243	chr3:178947833	SNV	G	A	exonic	missense	19	p.Gly903Glu	c.2708G>A	
s00243	chr3:178948074	SNV	G	A	exonic	missense	20	p.Arg949Gln	c.2846G>A	
s00243	chr3:178952098	SNV	G	A	exonic	nonsense	21	p.Trp1051Ter	c.3153G>A	30626
s00246	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956

											72:125370
s00257	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A		763:27133:2956
											72:125370
s00259	chr3:178922359	SNV	A	T	exonic	synonymous	6	p.(=)	c.1128A>T		
s00265	chr3:178936093	SNV	G	T	exonic	missense	10	p.Glu545Asp	c.1635G>T		27374:765:3270
											64
s00270	chr3:178936094	SNV	C	A	exonic	missense	10	p.Gln546Lys	c.1636C>A		255876:766:614
											7:1566572
s00271	chr3:178916930	SNV	G	T	exonic	missense	2	p.Gly106Val	c.317G>T		729830:166339:
											748
s00272	chr3:178937505	SNV	T	C	exonic	synonymous	12	p.(=)	c.1893T>C		
s00276	chr3:178919317	SNV	A	G	exonic	missense	4	p.Ser268Gly	c.802A>G		
s00278	chr3:178917617	SNV	G	A	exonic	missense	3	p.Met164Ile	c.492G>A		
s00278	chr3:178917688	SNV	G	A	splicesite_3		3				
s00278	chr3:178917643	SNV	C	T	exonic	missense	3	p.Ser173Phe	c.518C>T	27501	
s00278	chr3:178919100	SNV	G	A	exonic	nonsense	4	p.Trp195Ter	c.585G>A		
s00278	chr3:178928082	SNV	G	A	exonic	missense	8	p.Asp454Asn	c.1360G>A		1041485:104148
											6
s00278	chr3:178937461	SNV	C	T	exonic	missense	12	p.Arg617Trp	c.1849C>T		1041502:104150
											1
s00278	chr3:178943794	SNV	G	A	exonic	missense	17	p.Glu821Lys	c.2461G>A		
s00278	chr3:178947083	SNV	C	T	exonic	missense	18	p.Ser840Leu	c.2519C>T		

s00278	chr3:178928317	SNV	C	T	exonic	synonymous	9	p.(=)	c.1503C>T	
s00278	chr3:178937493	SNV	A	G	exonic	synonymous	12	p.(=)	c.1881A>G	
s00278	chr3:178937502	SNV	G	A	exonic	synonymous	12	p.(=)	c.1890G>A	
s00278	chr3:178937523	SNV	G	A	exonic	synonymous	12	p.(=)	c.1911G>A	
s00278	chr3:178942488	SNV	G	A	exonic	synonymous	16	p.(=)	c.2295G>A	
s00278	chr3:178951994	SNV	G	A	exonic	missense	21	p.Asp1017Asn	c.3049G>A	27377:304026
s00279	chr3:178919092	SNV	G	A	exonic	missense	4	p.Val193Met	c.577G>A	
s00279	chr3:178919309	SNV	A	G	exonic	missense	4	p.Tyr265Cys	c.794A>G	
s00279	chr3:178922342	SNV	G	A	exonic	missense	6	p.Val371Met	c.1111G>A	
s00279	chr3:178928035	SNV	C	T	exonic	missense	8	p.Ser438Phe	c.1313C>T	
s00279	chr3:178937438	SNV	C	T	exonic	missense	12	p.Pro609Leu	c.1826C>T	
s00279	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00279	chr3:178928088	SNV	C	T	exonic	synonymous	8	p.(=)	c.1366C>T	
s00279	chr3:178937790	SNV	G	A	exonic	synonymous	13	p.(=)	c.1965G>A	
s00279	chr3:178951971	SNV	G	A	exonic	missense	21	p.Gly1009Glu	c.3026G>A	28544
s00281	chr3:178916929	SNV	G	A	exonic	missense	2	p.Gly106Ser	c.316G>A	1645487:164548 8:271872:86046 342716:729829:
s00281	chr3:178916936	SNV	G	A	exonic	missense	2	p.Arg108His	c.323G>A	729828:27497:7 49
s00281	chr3:178919080	SNV	C	T	exonic	nonsense	4	p.Gln189Ter	c.565C>T	
s00281	chr3:178919164	SNV	C	T	exonic	missense	4	p.Pro217Ser	c.649C>T	

s00281	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A	
s00281	chr3:178919173	SNV	G	A	exonic	missense	4	p.Val220Ile	c.658G>A	
s00281	chr3:178919182	SNV	G	A	exonic	missense	4	p.Glu223Lys	c.667G>A	
s00281	chr3:178921458	SNV	G	A	exonic	missense	5	p.Ala314Thr	c.940G>A	
s00281	chr3:178927983	SNV	C	T	exonic	missense	8	p.Pro421Ser	c.1261C>T	
s00281	chr3:178928281	SNV	G	A	exonic	missense	9	p.Met489Ile	c.1467G>A	
s00281	chr3:178936097	SNV	G	A	exonic	missense	10	p.Glu547Lys	c.1639G>A	1420863:142086 2:29315
s00281	chr3:178942492	SNV	G	A	exonic	missense	16	p.Glu767Lys	c.2299G>A	
s00281	chr3:178947067	SNV	C	T	exonic	missense	18	p.Pro835Ser	c.2503C>T	
s00281	chr3:178947170	SNV	C	T	exonic	missense	18	p.Ala869Val	c.2606C>T	
s00281	chr3:178937775	SNV	G	A	exonic	synonymous	13	p.(=)	c.1950G>A	
s00281	chr3:178928263	SNV	G	A	exonic	synonymous	9	p.(=)	c.1449G>A	
s00281	chr3:178947871	SNV	C	T	exonic	missense	19	p.Arg916Cys	c.2746C>T	
s00281	chr3:178947881	SNV	G	A	exonic	missense	19	p.Ser919Asn	c.2756G>A	1420910:142090
s00281	chr3:178947852	SNV	C	T	exonic	synonymous	19	p.(=)	c.2727C>T	9:1308842:1308 841:12589
s00281	chr3:178952047	SNV	G	A	exonic	synonymous	21	p.(=)	c.3102G>A	
s00281	chr3:178947147	SNV	G	A	exonic	synonymous	18	p.(=)	c.2583G>A	
s00281	chr3:178951939	SNV	C	T	exonic	synonymous	21	p.(=)	c.2994C>T	
s00281	chr3:178937012	SNV	C	T	exonic	synonymous	11	p.(=)	c.1693C>T	

s00281	chr3:178921547	SNV	C	T	exonic	synonymous	5	p.(=)	c.1029C>T	
s00281	chr3:178948130	SNV	G	A	exonic	missense	20	p.Ala968Thr	c.2902G>A	
s00281	chr3:178951928	SNV	G	A	exonic	missense	21	p.Ala995Thr	c.2983G>A	
										21446:1041516:
s00281	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	1420933:1420934
s00281	chr3:178952097	SNV	G	A	exonic	nonsense	21	p.Trp1051Ter	c.3152G>A	1421018:308549
s00281	chr3:178952110	SNV	G	A	exonic	missense	21	p.Met1055Ile	c.3165G>A	
s00282	chr3:178916722	SNV	C	T	exonic	missense	2	p.Leu37Phe	c.109C>T	
s00282	chr3:178916735	SNV	C	T	exonic	missense	2	p.Thr41Ile	c.122C>T	
s00282	chr3:178919204	SNV	G	A	exonic	missense	4	p.Arg230Gln	c.689G>A	
s00282	chr3:178919248	SNV	G	A	exonic	missense	4	p.Glu245Lys	c.733G>A	
s00282	chr3:178919281	SNV	G	A	exonic	missense	4	p.Gly256Arg	c.766G>A	
s00282	chr3:178922357	SNV	G	A	exonic	missense	6	p.Val376Ile	c.1126G>A	
s00282	chr3:178922377	SNV	G	A	splicesite_3		6			
s00282	chr3:178928348	SNV	G	A	exonic	missense	9	p.Gly512Arg	c.1534G>A	
s00282	chr3:178928354	SNV	G	A	splicesite_3		9			
s00282	chr3:178937398	SNV	G	A	exonic	missense	12	p.Glu596Lys	c.1786G>A	
s00282	chr3:178937447	SNV	G	A	exonic	missense	12	p.Arg612Gln	c.1835G>A	
s00282	chr3:178937801	SNV	C	T	exonic	missense	13	p.Thr659Ile	c.1976C>T	
s00282	chr3:178937811	SNV	G	C	exonic	missense	13	p.Arg662Ser	c.1986G>C	
s00282	chr3:178941975	SNV	G	A	exonic	missense	15	p.Arg765Lys	c.2294G>A	

s00282	chr3:178942585	SNV	G	A	exonic	missense	16	p.Glu798Lys	c.2392G>A	
s00282	chr3:178943761	SNV	G	A	exonic	missense	17	p.Asp810Asn	c.2428G>A	
s00282	chr3:178943828	SNV	G	A	exonic	missense	17	p.Arg832Gln	c.2495G>A	
s00282	chr3:178947068	SNV	C	T	exonic	missense	18	p.Pro835Leu	c.2504C>T	
s00282	chr3:178947848	SNV	C	T	exonic	missense	19	p.Thr908Ile	c.2723C>T	
s00282	chr3:178919262	SNV	G	A	exonic	synonymous	4	p.(=)	c.747G>A	
s00282	chr3:178919256	SNV	G	A	exonic	synonymous	4	p.(=)	c.741G>A	
s00282	chr3:178937760	SNV	G	A	exonic	synonymous	13	p.(=)	c.1935G>A	
s00282	chr3:178922311	SNV	C	T	exonic	synonymous	6	p.(=)	c.1080C>T	
s00282	chr3:178942566	SNV	G	A	exonic	synonymous	16	p.(=)	c.2373G>A	
s00282	chr3:178951982	SNV	C	T	exonic	synonymous	21	p.(=)	c.3037C>T	
s00289	chr3:178919100	SNV	G	A	exonic	nonsense	4	p.Trp195Ter	c.585G>A	
s00289	chr3:178919224	SNV	G	A	exonic	missense	4	p.Glu237Lys	c.709G>A	
s00289	chr3:178919291	SNV	A	G	exonic	missense	4	p.Glu259Gly	c.776A>G	
s00289	chr3:178927427	SNV	C	T	exonic	missense	7	p.Pro397Leu	c.1190C>T	
s00289	chr3:178927432	SNV	G	A	exonic	missense	7	p.Ala399Thr	c.1195G>A	
s00289	chr3:178927451	SNV	C	T	exonic	missense	7	p.Ser405Phe	c.1214C>T	1420805:1420806:6149
s00289	chr3:178927993	SNV	G	A	exonic	nonsense	8	p.Trp424Ter	c.1271G>A	
s00289	chr3:178937434	SNV	G	A	exonic	missense	12	p.Asp608Asn	c.1822G>A	
s00289	chr3:178937736	SNV	G	A	splice_5		13			
s00289	chr3:178921496	SNV	C	T	exonic	synonymous	5	p.(=)	c.978C>T	

s00289	chr3:178941880	SNV	G	A	exonic	synonymous	15	p.(=)	c.2199G>A	
s00289	chr3:178919328	SNV	G	A	exonic	synonymous	4	p.(=)	c.813G>A	
s00289	chr3:178948015	SNV	G	A	exonic	synonymous	20	p.(=)	c.2787G>A	
s00289	chr3:178952037	SNV	C	T	exonic	missense	21	p.Thr1031Ile	c.3092C>T	28543
s00290	chr3:178916950	SNV	C	T	exonic	missense	2	p.Leu113Phe	c.337C>T	
										342716:729829:
s00290	chr3:178916936	SNV	G	A	exonic	missense	2	p.Arg108His	c.323G>A	729828:27497:749
s00290	chr3:178917579	SNV	G	A	exonic	missense	3	p.Asp152Asn	c.454G>A	
s00290	chr3:178917617	SNV	G	A	exonic	missense	3	p.Met164Ile	c.492G>A	
s00290	chr3:178919318	SNV	G	A	exonic	missense	4	p.Ser268Asn	c.803G>A	
s00290	chr3:178919101	SNV	G	A	exonic	missense	4	p.Val196Ile	c.586G>A	
s00290	chr3:178919114	SNV	C	T	exonic	missense	4	p.Pro200Leu	c.599C>T	
s00290	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A	
s00290	chr3:178921521	SNV	A	G	exonic	missense	5	p.Arg335Gly	c.1003A>G	
s00290	chr3:178928109	SNV	G	A	exonic	missense	8	p.Gly463Arg	c.1387G>A	1041488:1041487
s00290	chr3:178928026	SNV	C	T	exonic	missense	8	p.Thr435Ile	c.1304C>T	
s00290	chr3:178928014	SNV	A	G	exonic	missense	8	p.Asp431Gly	c.1292A>G	
s00290	chr3:178928348	SNV	G	A	exonic	missense	9	p.Gly512Arg	c.1534G>A	
s00290	chr3:178928264	SNV	G	A	exonic	missense	9	p.Val484Ile	c.1450G>A	
s00290	chr3:178928251	SNV	G	A	exonic	nonsense	9	p.Trp479Ter	c.1437G>A	

s00290	chr3:178928241	SNV	A	G	exonic	missense	9	p.Glu476Gly	c.1427A>G	1041502:1041501
s00290	chr3:178937016	SNV	C	T	exonic	missense	11	p.Pro566Leu	c.1697C>T	
s00290	chr3:178937461	SNV	C	T	exonic	missense	12	p.Arg617Trp	c.1849C>T	
s00290	chr3:178937749	SNV	G	A	exonic	missense	13	p.Glu642Lys	c.1924G>A	
s00290	chr3:178937737	SNV	G	A	exonic	missense	13	p.Val638Ile	c.1912G>A	
s00290	chr3:178938907	SNV	G	A	exonic	missense	14	p.Asp717Asn	c.2149G>A	
s00290	chr3:178941965	SNV	G	A	exonic	missense	15	p.Gly762Arg	c.2284G>A	
s00290	chr3:178942516	SNV	G	A	exonic	missense	16	p.Ala775Thr	c.2323G>A	
s00290	chr3:178943828	SNV	G	A	exonic	missense	17	p.Arg832Gln	c.2495G>A	
s00290	chr3:178947097	SNV	G	A	exonic	missense	18	p.Val845Met	c.2533G>A	
s00290	chr3:178947155	SNV	G	A	exonic	missense	18	p.Gly864Asp	c.2591G>A	1041502:1041501
s00290	chr3:178947067	SNV	C	T	exonic	missense	18	p.Pro835Ser	c.2503C>T	
									c.2678_267	
s00290	chr3:178947803	MNV	CC	TT	exonic	missense	19	p.Ala893Val	9delCCins TT	
s00290	chr3:178948130	SNV	G	A	exonic	missense	20	p.Ala968Thr	c.2902G>A	
s00290	chr3:178928296	SNV	G	A	exonic	synonymous	9	p.(=)	c.1482G>A	
s00290	chr3:178921547	SNV	C	T	exonic	synonymous	5	p.(=)	c.1029C>T	
s00290	chr3:178919151	SNV	C	T	exonic	synonymous	4	p.(=)	c.636C>T	
s00290	chr3:178938930	SNV	G	A	exonic	synonymous	14	p.(=)	c.2172G>A	
s00290	chr3:178938915	SNV	C	T	exonic	synonymous	14	p.(=)	c.2157C>T	

s00290	chr3:178951936	SNV	C	T	exonic	synonymous	21	p.(=)	c.2991C>T	166350
s00290	chr3:178943823	SNV	T	C	exonic	synonymous	17	p.(=)	c.2490T>C	
s00290	chr3:178936990	SNV	T	C	exonic	synonymous	11	p.(=)	c.1671T>C	
s00290	chr3:178947837	SNV	C	T	exonic	synonymous	19	p.(=)	c.2712C>T	
s00290	chr3:178937775	SNV	G	A	exonic	synonymous	13	p.(=)	c.1950G>A	
s00290	chr3:178952056	SNV	G	A	exonic	synonymous	21	p.(=)	c.3111G>A	
s00290	chr3:178951977	SNV	C	T	exonic	missense	21	p.Pro1011Leu	c.3032C>T	1420948:328027
s00290	chr3:178952127	SNV	C	T	exonic	missense	21	p.Thr1061Ile	c.3182C>T	
s00294	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00296	chr3:178919328	SNV	G	A	exonic	synonymous	4	p.(=)	c.813G>A	
s00296	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00304	chr3:178927974	SNV	G	A	exonic	missense	8	p.Glu418Lys	c.1252G>A	12582:673907
s00304	chr3:178936091	SNV	G	A	exonic	missense	10	p.Glu545Lys	c.1633G>A	763:27133:2956 72:125370
s00304	chr3:178943824	SNV	C	T	exonic	missense	17	p.Leu831Phe	c.2491C>T	
s00304	chr3:178937508	SNV	A	G	exonic	synonymous	12	p.(=)	c.1896A>G	
s00304	chr3:178928090	SNV	G	A	exonic	synonymous	8	p.(=)	c.1368G>A	
s00304	chr3:178942536	SNV	G	A	exonic	synonymous	16	p.(=)	c.2343G>A	
s00304	chr3:178951929	SNV	C	T	exonic	missense	21	p.Ala995Val	c.2984C>T	303944
s00309	chr3:178916899	SNV	C	T	exonic	nonsense	2	p.Gln96Ter	c.286C>T	
s00309	chr3:178916920	SNV	G	A	exonic	missense	2	p.Glu103Lys	c.307G>A	

s00309	chr3:178919167	SNV	G	A	exonic	missense	4	p.Glu218Lys	c.652G>A
s00309	chr3:178919182	SNV	G	A	exonic	missense	4	p.Glu223Lys	c.667G>A
s00309	chr3:178919204	SNV	G	A	exonic	missense	4	p.Arg230Gln	c.689G>A
s00309	chr3:178919207	SNV	G	A	exonic	missense	4	p.Ser231Asn	c.692G>A
s00309	chr3:178919113	SNV	C	T	exonic	missense	4	p.Pro200Ser	c.598C>T
s00309	chr3:178919152	SNV	C	T	exonic	missense	4	p.His213Tyr	c.637C>T
s00309	chr3:178919320	SNV	C	T	exonic	nonsense	4	p.Gln269Ter	c.805C>T
s00309	chr3:178921472	SNV	G	A	exonic	missense	5	p.Met318Ile	c.954G>A
s00309	chr3:178922373	SNV	C	T	exonic	missense	6	p.Pro381Leu	c.1142C>T
s00309	chr3:178928013	SNV	G	A	exonic	missense	8	p.Asp431Asn	c.1291G>A
s00309	chr3:178928234	SNV	G	A	exonic	missense	9	p.Glu474Lys	c.1420G>A
s00309	chr3:178937030	SNV	T	C	exonic	missense	11	p.Ser571Pro	c.1711T>C
s00309	chr3:178937041	SNV	G	A	exonic	nonsense	11	p.Trp574Ter	c.1722G>A
s00309	chr3:178937384	SNV	C	T	exonic	missense	12	p.Pro591Leu	c.1772C>T
s00309	chr3:178937382	SNV	G	A	exonic	nonsense	12	p.Trp590Ter	c.1770G>A
s00309	chr3:178937401	SNV	C	T	exonic	nonsense	12	p.Gln597Ter	c.1789C>T
s00309	chr3:178937737	SNV	G	A	exonic	missense	13	p.Val638Ile	c.1912G>A
s00309	chr3:178947859	SNV	G	A	exonic	missense	19	p.Gly912Arg	c.2734G>A
s00309	chr3:178947860	SNV	G	A	exonic	missense	19	p.Gly912Glu	c.2735G>A
s00309	chr3:178948091	SNV	G	A	exonic	missense	20	p.Val955Ile	c.2863G>A
s00309	chr3:178952017	SNV	G	A	exonic	synonymous	21	p.(=)	c.3072G>A
s00309	chr3:178942578	SNV	G	A	exonic	synonymous	16	p.(=)	c.2385G>A

s00309	chr3:178937487	SNV	T	C	exonic	synonymous	12	p.(=)	c.1875T>C	
s00309	chr3:178948096	SNV	G	A	exonic	synonymous	20	p.(=)	c.2868G>A	
s00309	chr3:178942548	SNV	C	T	exonic	synonymous	16	p.(=)	c.2355C>T	
s00309	chr3:178919130	SNV	G	A	exonic	synonymous	4	p.(=)	c.615G>A	
s00309	chr3:178952013	SNV	G	A	exonic	missense	21	p.Arg1023Gln	c.3068G>A	13594:1420972: 41786
s00309	chr3:178952004	SNV	C	T	exonic	missense	21	p.Ala1020Val	c.3059C>T	28938
s00310	chr3:178927472	SNV	G	A	exonic	missense	7	p.Arg412Gln	c.1235G>A	
s00310	chr3:178927471	SNV	C	T	exonic	nonsense	7	p.Arg412Ter	c.1234C>T	
s00310	chr3:178928127	SNV	G	A	splice_3		8			86950
s00310	chr3:178928328	SNV	G	A	exonic	missense	9	p.Gly505Glu	c.1514G>A	
s00310	chr3:178937470	SNV	G	A	exonic	missense	12	p.Glu620Lys	c.1858G>A	
s00310	chr3:178937387	SNV	C	T	exonic	missense	12	p.Pro592Leu	c.1775C>T	
s00310	chr3:178937749	SNV	G	A	exonic	missense	13	p.Glu642Lys	c.1924G>A	
s00310	chr3:178947079	SNV	C	T	exonic	synonymous	18	p.(=)	c.2515C>T	
s00310	chr3:178937820	SNV	C	T	exonic	synonymous	13	p.(=)	c.1995C>T	
s00310	chr3:178937769	SNV	G	A	exonic	synonymous	13	p.(=)	c.1944G>A	
s00310	chr3:178937463	SNV	G	A	exonic	synonymous	12	p.(=)	c.1851G>A	
s00310	chr3:178941973	SNV	C	T	exonic	synonymous	15	p.(=)	c.2292C>T	446022:446023
s00310	chr3:178952013	SNV	G	A	exonic	missense	21	p.Arg1023Gln	c.3068G>A	13594:1420972: 41786
s00311	chr3:178916930	SNV	G	T	exonic	missense	2	p.Gly106Val	c.317G>T	729830:166339:

s00311	chr3:178916938	SNV	G	C	exonic	missense	2	p.Glu109Gln	c.325G>C	
s00311	chr3:178919107	SNV	G	A	exonic	missense	4	p.Val198Ile	c.592G>A	
s00311	chr3:178919204	SNV	G	A	exonic	missense	4	p.Arg230Gln	c.689G>A	
s00311	chr3:178919248	SNV	G	A	exonic	missense	4	p.Glu245Lys	c.733G>A	
s00311	chr3:178921540	SNV	C	T	exonic	missense	5	p.Ala341Val	c.1022C>T	1420785:29613
s00311	chr3:178922372	SNV	C	A	exonic	missense	6	p.Pro381Thr	c.1141C>A	
s00311	chr3:178927977	SNV	C	T	exonic	missense	8	p.His419Tyr	c.1255C>T	1220592:1220593
s00311	chr3:178928241	SNV	A	G	exonic	missense	9	p.Glu476Gly	c.1427A>G	
s00311	chr3:178937770	SNV	C	T	exonic	missense	13	p.Leu649Phe	c.1945C>T	
s00311	chr3:178937806	SNV	C	T	exonic	nonsense	13	p.Gln661Ter	c.1981C>T	1420874:768
s00311	chr3:178941965	SNV	G	A	exonic	missense	15	p.Gly762Arg	c.2284G>A	
s00311	chr3:178942489	SNV	C	T	exonic	missense	16	p.Leu766Phe	c.2296C>T	446024:446025
s00311	chr3:178947112	SNV	G	T	exonic	missense	18	p.Val850Leu	c.2548G>T	
s00311	chr3:178947881	SNV	G	A	exonic	missense	19	p.Ser919Asn	c.2756G>A	
s00311	chr3:178948130	SNV	G	A	exonic	missense	20	p.Ala968Thr	c.2902G>A	
s00311	chr3:178951888	SNV	G	A	exonic	synonymous	21	p.(=)	c.2943G>A	
s00311	chr3:178937785	SNV	C	T	exonic	synonymous	13	p.(=)	c.1960C>T	
s00311	chr3:178947147	SNV	G	A	exonic	synonymous	18	p.(=)	c.2583G>A	
s00311	chr3:178941970	SNV	C	T	exonic	synonymous	15	p.(=)	c.2289C>T	
s00311	chr3:178937065	SNV	G	A	exonic	synonymous	11	p.(=)	c.1746G>A	

s00311	chr3:178936048	SNV	G	A	exonic	synonymous	10	p.(=)	c.1590G>A	
s00311	chr3:178919127	SNV	G	A	exonic	synonymous	4	p.(=)	c.612G>A	
s00311	chr3:178916934	SNV	C	T	exonic	synonymous	2	p.(=)	c.321C>T	
s00311	chr3:178919299	SNV	C	T	exonic	synonymous	4	p.(=)	c.784C>T	
s00311	chr3:178952108	SNV	A	C	exonic	missense	21	p.Met1055Leu	c.3163A>C	
s00313	chr3:178916783	SNV	C	T	exonic	missense	2	p.Pro57Leu	c.170C>T	
s00313	chr3:178916699	SNV	G	A	exonic	missense	2	p.Gly29Glu	c.86G>A	
s00313	chr3:178919240	SNV	G	A	exonic	missense	4	p.Cys242Tyr	c.725G>A	
s00313	chr3:178922334	SNV	G	A	exonic	missense	6	p.Cys368Tyr	c.1103G>A	
s00313	chr3:178928082	SNV	G	A	exonic	missense	8	p.Asp454Asn	c.1360G>A	1041485:1041486
s00313	chr3:178936029	SNV	G	A	exonic	missense	10	p.Arg524Lys	c.1571G>A	21465:53245
s00313	chr3:178937455	SNV	G	A	exonic	missense	12	p.Ala615Thr	c.1843G>A	
s00313	chr3:178942592	SNV	T	C	exonic	missense	16	p.Ile800Thr	c.2399T>C	1420896:1420895
s00313	chr3:178947175	SNV	C	T	exonic	nonsense	18	p.Gln871Ter	c.2611C>T	
s00313	chr3:178947208	SNV	A	G	exonic	missense	18	p.Lys882Glu	c.2644A>G	
s00313	chr3:178947859	SNV	G	A	exonic	missense	19	p.Gly912Arg	c.2734G>A	
s00313	chr3:178948122	SNV	G	A	exonic	missense	20	p.Ser965Asn	c.2894G>A	
s00313	chr3:178928335	SNV	C	T	exonic	synonymous	9	p.(=)	c.1521C>T	
s00313	chr3:178948096	SNV	G	A	exonic	synonymous	20	p.(=)	c.2868G>A	
s00313	chr3:178922368	SNV	C	T	exonic	synonymous	6	p.(=)	c.1137C>T	

s00313	chr3:178938804	SNV	G	A	exonic	synonymous	14	p.(=)	c.2046G>A	
s00313	chr3:178938814	SNV	C	T	exonic	synonymous	14	p.(=)	c.2056C>T	
s00313	chr3:178948162	SNV	G	A	exonic	synonymous	20	p.(=)	c.2934G>A	
s00313	chr3:178919277	SNV	G	A	exonic	synonymous	4	p.(=)	c.762G>A	
s00313	chr3:178936096	SNV	G	A	exonic	synonymous	10	p.(=)	c.1638G>A	24712
s00313	chr3:178919199	SNV	A	G	exonic	synonymous	4	p.(=)	c.684A>G	
s00313	chr3:178947180	SNV	C	T	exonic	synonymous	18	p.(=)	c.2616C>T	
s00313	chr3:178948013	SNV	C	T	exonic	synonymous	20	p.(=)	c.2785C>T	
s00313	chr3:178952110	SNV	G	A	exonic	missense	21	p.Met1055Ile	c.3165G>A	
s00313	chr3:178951899	SNV	A	G	exonic	missense	21	p.Tyr985Cys	c.2954A>G	
s00314	chr3:178921501	SNV	G	A	exonic	nonsense	5	p.Trp328Ter	c.983G>A	
s00314	chr3:178928094	SNV	C	T	exonic	missense	8	p.Pro458Ser	c.1372C>T	
s00314	chr3:178947068	SNV	C	T	exonic	missense	18	p.Pro835Leu	c.2504C>T	
s00314	chr3:178951913	SNV	G	A	exonic	missense	21	p.Ala990Thr	c.2968G>A	
										21446:1041516:
s00314	chr3:178951957	SNV	G	A	exonic	missense	21	p.Met1004Ile	c.3012G>A	1420933:1420934
										13570:1041463
s00315	chr3:178916944	SNV	A	G	exonic	missense	2	p.Lys111Glu	c.331A>G	
s00315	chr3:178916893	SNV	C	T	exonic	missense	2	p.Leu94Phe	c.280C>T	
s00315	chr3:178919113	SNV	C	T	exonic	missense	4	p.Pro200Ser	c.598C>T	
s00315	chr3:178919285	SNV	G	A	exonic	missense	4	p.Cys257Tyr	c.770G>A	
s00315	chr3:178928013	SNV	G	A	exonic	missense	8	p.Asp431Asn	c.1291G>A	

s00315	chr3:178937462	SNV	G	T	exonic	missense	12	p.Arg617Leu	c.1850G>T	12461:276755:3 28025
s00315	chr3:178928353	SNV	G	A	exonic	synonymous	9	p.(=)	c.1539G>A	
s00315	chr3:178919277	SNV	G	A	exonic	synonymous	4	p.(=)	c.762G>A	
s00315	chr3:178952007	SNV	A	G	exonic	missense	21	p.Tyr1021Cys	c.3062A>G	

Sample	Locus	Type	Reference	Mutation	Location	Function	Exon	Protein	Coding	Cosmic
										10777:44532:44155:4587
s00001	chr17:7577566	INDEL	T	TA	exonic	nonsense	7	p.Asn239Ter	c.714_715insT	0:984914:46322:984916:46375:984917
s00002	chr17:7574021	SNV	C	A	exonic	nonsense	10	p.Glu336Ter	c.1006G>T	11291:1522200:45381
										44337:1645467:45799:10
s00002	chr17:7577082	SNV	C	T	exonic	missense	8	p.Glu286Lys	c.856G>A	726:1649346:99924:4391
										9:318163:44250:341110:341111:1480057
										1386601:44401:44819:44
s00002	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	486:44480:43707:44614:1386602
										10777:44532:44155:4587
s00002	chr17:7577566	INDEL	T	TA	exonic	nonsense	7	p.Asn239Ter	c.714_715insT	0:984914:46322:984916:46375:984917

										05:1640830:1646857
s00006	chr17:7579472	SNV	G	C	exonic	missense	4	p.Pro72Arg	c.215C>G	45985:250061
s00007	chr17:7578471	SNV	G	A	exonic	synonym	5	p.(=)	c.459C>T	1386820:48943:1386819:
						ous				1386818:1386817:43964:44416
s00007	chr17:7578547	SNV	G	A	exonic	missense	5	p.Pro128Leu	c.383C>T	45131:44538
s00008	chr17:7577539	SNV	G	A	exonic	missense	7	p.Arg248Trp	c.742C>T	10656:1189382:120005:4
										4920:1189383:120006:11
										89381:6546:6545:11564:120007:1640831
s00009	chr17:7577539	SNV	G	A	exonic	missense	7	p.Arg248Trp	c.742C>T	10656:1189382:120005:4
										4920:1189383:120006:11
										89381:6546:6545:11564:120007:1640831
s00010	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	562651:11081:562653:562652:45398:131039:1210

										37:10957:121036:161083
										5:121035:1610836:16108
										37:6932:1646855:131042
										:1640833:131041:131040
										241995:45116:241996:24
s00013	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	1994:99602:11491:99021
										:340106:99020:340107:1
										646858:10662:6549:3401
										05:1640830:1646857
										99618:99617:43798:4435
s00015	chr17:7578212	SNV	G	A	exonic	nonsense	6	p.Arg213Ter	c.637C>T	8:45777:292498:44102:9
										9616:99615:44695:29249
										5:292497:707891:292496
										:44162:1666588:1638393
										:10654
s00016	chr17:7578237	SNV	C	T	exonic	synonym	6	p.(=)	c.612G>A	984941:44961:984942:45

						ous				860:43761:44981:984938
										:46471
s00017	chr17:7578186	SNV	C	T	exonic	synonym ous	6	p.(=)	c.663G>A	46369:43916:43975:85959
										99639:45535:98965:11084:98964:99638:98966:44057:121041:1318434:121043:121042:1318431:43546:1318430:43559:1318433:99641:1318432:99640:121045:12104499639:45535:98965:11084:98964:99638:98966:44057:121041:1318434:121043:121042:1318431:43546:1318430:43559:13184
s00017	chr17:7578413	SNV	C	A	exonic	missense	5	p.Val173Leu	c.517G>T	043:121042:1318431:43546:1318430:43559:1318433:99641:1318432:99640:121045:12104499639:45535:98965:11084:98964:99638:98966:44057:121041:1318434:121043:121042:1318431:43546:1318430:43559:13184
s00019	chr17:7578413	SNV	C	A	exonic	missense	5	p.Val173Leu	c.517G>T	057:121041:1318434:121043:121042:1318431:43546:1318430:43559:13184

										33:99641:1318432:99640
										:121045:121044
										45226:69214:44275:4616
						nonframe				
s00019	chr17:7578429	INDEL	C	CTGT	exonic	shiftInsertion	5	p.Gln167dup	c.500_501insACA	7:44299:45626:405174:405173:53261:405176:45859:405175:45187:4628243687:1640845:1640846:307281:307280:307282:1
s00020	chr17:7578208	SNV	T	C	exonic	missense	6	p.His214Arg	c.641A>G	640840:44372:1640843:1640844:1640841:1640842:307279
s00022	chr17:7572989	SNV	C	T	exonic	missense	11	p.Gly374Ser	c.1120G>A	
s00022	chr17:7573009	SNV	C	T	splicesite_5		11			
										44653:1649400:99625:99
s00022	chr17:7577568	SNV	C	T	exonic	missense	7	p.Cys238Tyr	c.713G>A	624:44432:99626:44728:1651665:43778:249079:1

s00022	chr17:7578470	SNV	C	T	exonic	missense	5	p.Gly154Ser	c.460G>A	79813:249080:179812:17
										9811:249081:11059
										404850:404851:43692:40
										4852:404853:45421:4048
										54:43627:45827:167462:
44715:167463:167464:13										
s00022	chr17:7578513	SNV	C	T	exonic	synonymous	5	p.(=)	c.417G>A	86821:167465:13158:507
										584:1386824:44080:1386
										823:1386822
										45039:44220:44110:4410
										1:1303397:44491:130339
8:1303399:44086:130340										
s00022	chr17:7578537	SNV	G	A	exonic	synonymous	5	p.(=)	c.393C>T	0:46362:45271
										44138:45882:437613:437
										614:437615:437612:4597
										8:44291

s00022	chr17:7578552	SNV	G	A	exonic	synonymous	5	p.(=)	c.378C>T	10888:99945:99946:99944:249845:44196:10862
s00022	chr17:7579521	SNV	C	T	exonic	missense	4	p.Glu56Lys	c.166G>A	126989:12168:44636:126990
s00022	chr17:7579854	SNV	G	A	exonic	missense	2	p.Ser20Leu	c.59C>T	
s00023	chr17:7577528	SNV	G	A	exonic	synonymous	7	p.(=)	c.753C>T	44511:44664:44497:45630:46121
s00023	chr17:7577603	SNV	G	A	exonic	synonymous	7	p.(=)	c.678C>T	674004:392089:674003:674006:674005:392090:392092:45868:45999:392091
s00023	chr17:7577609	SNV	C	T	splicesite_5		7			43751:45675:1649398:562646:45135:562645:131549:131548:562647:131547:344605:1646848:344603:344604

s00023	chr17:7578217	SNV	G	A	exonic	missense	6	p.Thr211Ile	c.632C>T	45325:437508:437509:44
										963:44661:46301:163691
										3:1386678:1386677:1386
										676:43939:437510:44371
s00023	chr17:7578245	SNV	G	A	exonic	missense	6	p.Arg202Cys	c.604C>T	:437511:1386679
										437518:44489:437519:43
										7516:437517:44772:4417
										4:45757:46074:45073:43
s00023	chr17:7578465	SNV	G	A	exonic	synonymous	5	p.(=)	c.465C>T	7520:45968
										44543:437580:437581:43
										7582:43670:44619:43757
										9:46085
s00023	chr17:7578470	SNV	C	T	exonic	missense	5	p.Gly154Ser	c.460G>A	404850:404851:43692:40
										4852:404853:45421:4048
										54:43627:45827:167462:
										44715:167463:167464:13

										86821:167465:13158:507
										584:1386824:44080:1386
										823:1386822
s00023	chr17:7578476	SNV	G	A	exonic	missense	5	p.Pro152Ser	c.454C>T	43894:44788:43582:4456
										1:46364
s00023	chr17:7579412	SNV	G	A	exonic	missense	4	p.Pro92Leu	c.275C>T	45972:46010
s00023	chr17:7579431	SNV	C	T	exonic	missense	4	p.Ala86Thr	c.256G>A	1480097:1480096:14800
										98:45281
s00023	chr17:7579452	SNV	C	T	exonic	missense	4	p.Ala79Thr	c.235G>A	
s00023	chr17:7579587	SNV	G	A	exonic	missense	4	p.Pro34Ser	c.100C>T	
s00023	chr17:7579928	SNV	G	A	utr_5		2			
s00028	chr17:7572877	SNV	G	A	utr_3		11			
s00028	chr17:7572906	SNV	G	A	utr_3		11			
s00028	chr17:7573937	SNV	C	T	exonic	missense	10	p.Ala364Thr	c.1090G>A	46361
s00028	chr17:7573941	SNV	G	A	exonic	synonym	10	p.(=)	c.1086C>T	
						ous				

s00028	chr17:7573987	SNV	G	A	exonic	missense	10	p.Ala347Val	c.1040C>T	46323
s00028	chr17:7576882	SNV	G	A	exonic	missense	9	p.Pro322Ser	c.964C>T	44863:44876:131017:131018
s00028	chr17:7576924	SNV	G	A	exonic	synonymous	9	p.(=)	c.922C>T	44472:46470
s00028	chr17:7577498	SNV	C	T	splicesite_3		7			43571:44640:395658:473431:43580:395657:473430:329756:44869:98255:98254
s00028	chr17:7578208	SNV	T	C	exonic	missense	6	p.His214Arg	c.641A>G	43687:1640845:1640846:307281:307280:307282:1640840:44372:1640843:1640844:1640841:1640842:307279
s00028	chr17:7579321	SNV	C	T	exonic	synonymous	4	p.(=)	c.366G>A	

										1386874:1386873:78687:
s00028	chr17:7579374	SNV	C	T	exonic	missense	4	p.Gly105Ser	c.313G>A	338570:338571:45179:44481
s00028	chr17:7579396	SNV	G	A	exonic	synonymous	4	p.(=)	c.291C>T	473437:473436:473435
s00028	chr17:7579398	SNV	C	T	exonic	missense	4	p.Val97Ile	c.289G>A	46246:46176
s00028	chr17:7579413	SNV	G	A	exonic	missense	4	p.Pro92Ser	c.274C>T	45844:45300
s00028	chr17:7579876	SNV	G	A	exonic	missense	2	p.Pro13Ser	c.37C>T	
s00028	chr17:7579913	SNV	GG	GA	utr_5		2			
s00029	chr17:7579382	SNV	G	A	exonic	missense	4	p.Thr102Ile	c.305C>T	44257:45766:43678
s00029	chr17:7579336	SNV	C	T	exonic	synonymous	4	p.(=)	c.351G>A	46264
s00029	chr17:7579319	SNV	G	A	exonic	missense	4	p.Thr123Ile	c.368C>T	44188
s00029	chr17:7579325	SNV	G	A	exonic	missense	4	p.Ser121Phe	c.362C>T	44027:45569
s00029	chr17:7572972	SNV	G	A	exonic	synonymous	11	p.(=)	c.1137C>T	1386543:1386542

s00029	chr17:7578200	SNV	C	T	exonic	missense	6	p.Val217Met	c.649G>A	45303:44334:46216:4475
										1
										45325:437508:437509:44
s00029	chr17:7578217	SNV	G	A	exonic	missense	6	p.Thr211Ile	c.632C>T	963:44661:46301:163691
										3:1386678:1386677:1386
										676:43939:437510:44371
s00029	chr17:7578217	SNV	G	A	exonic	missense	6	p.Thr211Ile	c.632C>T	:437511:1386679
										46108:46210:44967
s00029	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	
										44500:45347:1163647:11
s00029	chr17:7578484	SNV	G	A	exonic	missense	5	p.Ser149Phe	c.446C>T	63646:1163645:44099:11
										63644
										96439:44105:1324768:13
s00029	chr17:7578483	SNV	G	A	exonic	synonymous	5	p.(=)	c.447C>T	24767:1324769:44408:13
										24771:1324770:45070
s00029	chr17:7578524	SNV	G	A	exonic	nonsense	5	p.Gln136Ter	c.406C>T	46008:44279:44881:4376

										7:44866:45966:126988:1
										26987:126986:126985:11
										166:437598:437599:4376
										00:437597
s00029	chr17:7573004	SNV	G	A	exonic	synonymous	11	p.(=)	c.1105C>T	
s00029	chr17:7572999	SNV	C	T	exonic	synonymous	11	p.(=)	c.1110G>A	
s00029	chr17:7579430	SNV	G	A	exonic	missense	4	p.Ala86Val	c.257C>T	44493
s00029	chr17:7579481	SNV	G	A	exonic	missense	4	p.Ala69Val	c.206C>T	43803:44680:39408
s00029	chr17:7579487	SNV	G	A	exonic	missense	4	p.Pro67Leu	c.200C>T	44939:46097
										46066:121084:44150:113
s00029	chr17:7578431	SNV	G	A	exonic	nonsense	5	p.Gln167Ter	c.499C>T	33:121081:45955:44800:
										121083:121082
s00029	chr17:7579922	SNV	C	T	utr_5		2			
s00029	chr17:7572903	SNV	G	A	utr_3		11			

s00029	chr17:7572896	SNV	G	A	utr_3		11			
s00029	chr17:7572914	SNV	G	A	utr_3		11			
s00029	chr17:7572941	SNV	G	A	exonic	missense	11	p.Pro390Ser	c.1168C>T	
s00032	chr17:7572888	SNV	G	A	utr_3		11			
s00032	chr17:7572903	SNV	G	A	utr_3		11			
s00032	chr17:7572954	SNV	G	A	exonic	synonymous	11	p.(=)	c.1155C>T	
s00032	chr17:7573936	SNV	G	A	exonic	missense	10	p.Ala364Val	c.1091C>T	
s00032	chr17:7576858	SNV	G	A	exonic	missense	9	p.Leu330Phe	c.988C>T	
s00032	chr17:7576872	SNV	C	T	exonic	missense	9	p.Gly325Glu	c.974G>A	46225:46030:44060
s00032	chr17:7576916	SNV	G	A	exonic	synonymous	9	p.(=)	c.930C>T	45100
										44348:99925:45843:9993
s00032	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45 816:44437:1636702:1070 4:44918:10992

s00032	chr17:7578471	SNV	G	A	exonic	synonym	5	p.(=)	c.459C>T	1386820:48943:1386819:
						ous				1386818:1386817:43964:
										44416
s00032	chr17:7578518	SNV	C	T	exonic	missense	5	p.Ala138Thr	c.412G>A	44821:43885:129860:129
										861:129862:129863:1118
										8:44508
s00032	chr17:7578534	SNV	C	T	exonic	synonym	5	p.(=)	c.396G>A	213187:44632:213188:43
						ous				963:44589:44212:43661:
										213186:10991:301222:12
s00032	chr17:7579321	SNV	C	T	exonic	synonym	4	p.(=)	c.366G>A	90768:1290767:301220:3
						ous				01221:1290769
s00032	chr17:7579421	SNV	G	A	exonic	missense	4	p.Pro89Leu	c.266C>T	44677:46122
s00032	chr17:7579875	SNV	G	A	exonic	missense	2	p.Pro13Leu	c.38C>T	
s00034	chr17:7577579	INDEL	GT	G	exonic	frameshift	7	p.Tyr234fs	c.701_701del	44785:45579:1600319:13

						Deletion			A	24801:1324800:45114:13
										24802:1600318:45119:13
										86634:45470:1386636:16
										00320:1386635
										241995:45116:241996:24
										1994:99602:11491:99021
s00035	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	:340106:99020:340107:1
s00036	chr17:7578274	INDEL	TGAG	T	exonic	nonframe shiftDeletion	6	p.Pro191del	c.572_574del CTC	646858:10662:6549:3401
										05:1640830:1646857
										44665:111723:45754:111
										722:111721:44234:44849
										:45140:45231:111724
s00037	chr17:7578179	INDEL	CAGGCG GCTCAT	C	exonic	nonsense	6	p.Tyr220Ter	c.659_669del ATGAGCCG CCT	44922:46084:10894
s00038	chr17:7577544	SNV	A	C	exonic	missense	7	p.Met246Arg	c.737T>G	213121:44103:44862:213

											120:44903:45937:111718
											:111717:111716:1579896
											:111715:1579895:157989
											7:1638039:1638038:2131
											19:11355:11376:1638041
s00039	chr17:7577115	INDEL	A	AAAC	exonic	nonframe	8	p.Val274dup	c.822_823ins GTT		43902:44767:11501
						shiftInsert					
						ion					
s00040	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A		44324:45787:43896:9972
											9:10779:1645335:164680
											8:1640828:10660:318169
s00041	chr17:7577022	SNV	G	A	exonic	nonsense	8	p.Arg306Ter	c.916C>T		:44701:165077
											99947:10663:1640820
											213121:44103:44862:213
s00043	chr17:7577544	SNV	A	C	exonic	missense	7	p.Met246Arg	c.737T>G		120:44903:45937:111718

[illegible]

s00047	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	562651:11081:562653:56
										2652:45398:131039:1210
										37:10957:121036:161083
										5:121035:1610836:16108
										37:6932:1646855:131042
s00048	chr17:7574003	SNV	G	A	exonic	nonsense	10	p.Arg342Ter	c.1024C>T	:1640833:131041:131040
										11073:44906:99721:3061
										01:306102
										44348:99925:45843:9993
										4:45521:43585:45872:45
s00049	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	816:44437:1636702:1070
										4:44918:10992
										220779:220778:1649378:
										1649379:1649376:10690:
										1649377:99676:1649374:
s00052	chr17:7578457	SNV	C	T	exonic	missense	5	p.Arg158His	c.473G>A	99675:1649375:99678:99

										677:43615:10714:437570
										:437571:220780:437576:
										437577:437578:437572:4
										37573:437574:437575:44
										479:43781:220781:48914
										:1640853
s00053	chr17:7579528	SNV	C	T	exonic	nonsense	4	p.Trp53Ter	c.159G>A	44488:45445:1324763:45 808:1324762
s00054	chr17:7572926	SNV	G	A	utr_3		11			18654
s00054	chr17:7576913	SNV	G	A	exonic	synonymous	9	p.(=)	c.933C>T	46472
s00054	chr17:7578537	SNV	G	A	exonic	synonymous	5	p.(=)	c.393C>T	44138:45882:437613:437 614:437615:437612:4597 8:44291
s00054	chr17:7578550	SNV	G	A	exonic	missense	5	p.Ser127Phe	c.380C>T	216412:216413:562620:4 4226:1637542:1649368:4

s00059	chr17:7577550	SNV	C	A	exonic	missense	7	p.Gly244Val	c.731G>T	874:1640875
										43652:179809:179808:12
										013:1268364:1268365:12
										68363:179810:10883:164
										6854
s00059	chr17:7578271	SNV	T	A	exonic	missense	6	p.His193Leu	c.578A>T	99916:99917:44213:1314
										61:308309:308308:13145
										9:131458:43833:45856:1
										1066:308307:308306:131
										460:99918:10742:99919
s00060	chr17:7577539	SNV	G	A	exonic	missense	7	p.Arg248Trp	c.742C>T	10656:1189382:120005:4
										4920:1189383:120006:11
										89381:6546:6545:11564:
										120007:1640831
										1610830:45973:1610831:
s00062	chr17:7577514	INDEL	GTGA	G	exonic	nonframe shiftDelet	7	p.Ile255del	c.764_766delT CA	45601:1191148:1191147:

[illegible]

										259151:46019:259150:70
s00064	chr17:7578478	SNV	G	A	exonic	missense	5	p.Pro151Leu	c.452C>T	7868:707869:44003:4428 8:44519:707870:707871: 259152:259149:11476 112005:112004:1649401:
s00067	chr17:7577565	INDEL	T	TA	exonic	frameshift Insertion	7	p.Asn239fs	c.715_716insT	112003:473432:69195:30 7333:43801:44094:47343 4:473433
s00068	chr17:7574012	SNV	C	A	exonic	nonsense	10	p.Glu339Ter	c.1015G>T	235693:45389:11286:214 290:46153:43888:46250
s00068	chr17:7573949	SNV	C	T	exonic	missense	10	p.Gly360Arg	c.1078G>A	
s00068	chr17:7579499	SNV	G	A	exonic	missense	4	p.Ala63Val	c.188C>T	
										1640858:45886:43675:45 899:1640856:45821:1640 857:44958:45660:164085 4:1640855:45911
s00068	chr17:7578473	SNV	G	A	exonic	missense	5	p.Pro153Ser	c.457C>T	

s00068	chr17:7578547	SNV	G	A	exonic	missense	5	p.Pro128Leu	c.383C>T	45131:44538 44137:128671:128672:128673:128674:44880:128675:1679514:1679515:1679516:1679517:43899:1679518:87861:45351:45161
s00068	chr17:7578496	SNV	A	G	exonic	missense	5	p.Leu145Pro	c.434T>C	75:1679514:1679515:1679516:1679517:43899:1679518:87861:45351:45161
s00068	chr17:7579849	SNV	G	A	exonic	synonymous	2	p.(=)	c.64C>T	
s00068	chr17:7577501	SNV	G	A	exonic	synonymous	7	p.(=)	c.780C>T	44620:44560:45768
s00068	chr17:7579400	SNV	G	A	exonic	missense	4	p.Ser96Phe	c.287C>T	44447:46273 44455:99914:99023:99024:45416:45936:1679508:1679509:10648:1679510:1679511:10718:1679512:1640851
s00069	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:1679510:1679511:10718:1679512:1640851

s00070	chr17:7578496	SNV	A	C	exonic	missense	5	p.Leu145Arg	c.434T>G	44137:128671:128672:12
										8673:128674:44880:1286
										75:1679514:1679515:167
										9516:1679517:43899:167
s00072	chr17:7573967	SNV	G	A	exonic	nonsense	10	p.Gln354Ter	c.1060C>T	9518:87861:45351:45161
										46129:87806:562345:562
										344
										87515:46146
s00072	chr17:7576860	SNV	G	A	exonic	missense	9	p.Thr329Ile	c.986C>T	562651:11081:562653:56
										2652:45398:131039:1210
										37:10957:121036:161083
										5:121035:1610836:16108
s00072	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	37:6932:1646855:131042
										:1640833:131041:131040
										44456:12193:1679497:11
										1642:1679498:45255:111

[illegible]

s00072	chr17:7579849	SNV	G	A	exonic	synonymous	2	p.(=)	c.64C>T	
s00072	chr17:7579875	SNV	G	A	exonic	missense	2	p.Pro13Leu	c.38C>T	
s00072	chr17:7579909	SNV	C	T	exonic	missense	2	p.Glu2Lys	c.4G>A	
										44348:99925:45843:9993
s00075	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45816:44437:1636702:10704:44918:10992
s00075	chr17:7578219	INDEL	G	GT	exonic	frameshift Insertion	6	p.Asn210fs	c.629_630insA	43641:45863:44722:53263:690861159833:43642:45302:1564189:1159830:1159831:1159832:45685:44376:220762:220761:220764:220763:43844:1564191:1564190:1564188
s00076	chr17:7578236	SNV	A	T	exonic	missense	6	p.Tyr205Asn	c.613T>A	

s00076	chr17:7579495	SNV	G	A	exonic	synonymous	4	p.(=)	c.192C>T	
s00076	chr17:7576858	SNV	G	A	exonic	missense	9	p.Leu330Phe	c.988C>T	
s00076	chr17:7576882	SNV	G	A	exonic	missense	9	p.Pro322Ser	c.964C>T	44863:44876:131017:131018
s00076	chr17:7572887	MNV	GG	AA	utr_3		11			
s00076	chr17:7572886	SNV	G	A	utr_3		11			
s00076	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00076	chr17:7578549	SNV	G	A	exonic	synonymous	5	p.(=)	c.381C>T	45337:45015
										707887:129850:44776:129851:326727:326729:435
s00076	chr17:7578395	SNV	G	A	exonic	missense	5	p.His179Tyr	c.535C>T	84:326728:45113:1709730:10768:44151:129848:326730:129849

s00076	chr17:7579427	SNV	G	A	exonic	missense	4	p.Pro87Leu	c.260C>T	43544 11305:43621:437483:439
s00077	chr17:7577129	SNV	A	C	exonic	missense	8	p.Phe270Cys	c.809T>G	18:1522199:146240:4620 9 44455:99914:99023:9902 2:45416:45936:1679508:
s00078	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:16 79510:1679511:10718:16 79512:1640851 216412:216413:562620:4 4226:1637542:1649368:4
s00079	chr17:7578550	SNV	G	A	exonic	missense	5	p.Ser127Phe	c.380C>T	3970:45619:45483:56261 9:562618:216414 417970:417971:10659:99
s00080	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	933:43909:1645518:4384 3:45427

s00081	chr17:7578370	SNV	C	T	splicesite_3	5				44268:131534:437536:16
										49387:131537:131536:13
										1535:254992:254991:254
										994:254993:437533:4375
										34:437535:33648:6901
s00082	chr17:7578190	SNV	T	C	exonic	missense	6	p.Tyr220Cys	c.659A>G	43850:1644277:99719:99
										718:1564200:99720:4497
										8:10758:251428:1564199
										:1564198:251426:156419
										7:251427
s00084	chr17:7577544	SNV	A	T	exonic	missense	7	p.Met246Lys	c.737T>A	213121:44103:44862:213
										120:44903:45937:111718
										:111717:111716:1579896
										:111715:1579895:157989
										7:1638039:1638038:2131
										19:11355:11376:1638041

s00086	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	:1638040
										44455:99914:99023:9902
										2:45416:45936:1679508:
										99024:1679509:10648:16
										79510:1679511:10718:16
s00087	chr17:7577570	SNV	C	A	exonic	missense	7	p.Met237Ile	c.711G>T	79512:1640851
										301402:301403:11063:99
										647:45673:99646:45862:
										301404:99648:44415:118
										9386:1189384:1189385:1
s00089	chr17:7578191	SNV	A	T	exonic	missense	6	p.Tyr220Asn	c.658T>A	640834:10834:1640835
										11847:1172477:1630417:
										44672:1172476:1630418:
										1172479:1630419:11724
										78:44585:1630416:44637
s00089	chr17:7578403	SNV	C	T	exonic	missense	5	p.Cys176Tyr	c.527G>A	44645:99669:1649384:99

										672:99671:44759:117396
										:10645:117395:117398:9
										9670:117397:1640850:10
										687
										44455:99914:99023:9902
s00090	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	2:45416:45936:1679508:
										99024:1679509:10648:16
										79510:1679511:10718:16
s00091	chr17:7579533	SNV	G	A	exonic	nonsense	4	p.Gln52Ter	c.154C>T	79512:1640851
										99949:99948:44041:4606
										4
s00094	chr17:7572919	SNV	G	A	utr_3		11			
s00094	chr17:7573934	SNV	G	A	exonic	missense	10	p.His365Tyr	c.1093C>T	
s00094	chr17:7573946	SNV	C	T	exonic	missense	10	p.Gly361Arg	c.1081G>A	
s00094	chr17:7573959	SNV	C	T	exonic	synonymous	10	p.(=)	c.1068G>A	

s00094	chr17:7573960	SNV	C	T	exonic	missense	10	p.Gly356Glu	c.1067G>A	
s00094	chr17:7578375	SNV	G	A	exonic	synonymous	5	p.(=)	c.555C>T	45676:45698:45701:45287:44179:45198:441851645410:45148:1645411:1645412:308319:44829:166225:166224:45725:449
s00094	chr17:7578527	SNV	A	G	exonic	missense	5	p.Cys135Arg	c.403T>C	10:166223:166222:166221:308321:308320:10684:308318:1645413:1645414
s00094	chr17:7578543	SNV	G	A	exonic	synonymous	5	p.(=)	c.387C>T	44337:1645467:45799:10726:1649346:99924:43919:318163:44250:341110:341111:1480057
s00095	chr17:7577082	SNV	C	T	exonic	missense	8	p.Glu286Lys	c.856G>A	

										44324:45787:43896:9972
s00096	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A	9:10779:1645335:164680 8:1640828:10660:318169 :44701:165077 11717:562633:44300:562
s00098	chr17:7578382	SNV	G	A	exonic	missense	5	p.Ser183Leu	c.548C>T	635:10706:562634:16493 86:562636 354839:354840:354841:4
s00098	chr17:7578416	SNV	C	T	exonic	missense	5	p.Val172Ile	c.514G>A	4240:45207:43955:35484 2 220779:220778:1649378: 1649379:1649376:10690: 1649377:99676:1649374:
s00099	chr17:7578457	SNV	C	A	exonic	missense	5	p.Arg158Leu	c.473G>T	99675:1649375:99678:99 677:43615:10714:437570 :437571:220780:437576:

[illegible]

										479:43781:220781:48914
										:1640853
										43554:99679:44421:4494
										4:99682:43911:984961:1
										21049:984963:1640859:1
s00102	chr17:7578479	SNV	G	T	exonic	missense	5	p.Pro151Thr	c.451C>A	21048:984962:99681:996
										80:1172499:1172498:109
										05:121047:1172500:1210
										46:984959:1172497:1172
										496
s00105	chr17:7572942	SNV	C	T	exonic	synonymous	11	p.(=)	c.1167G>A	
s00105	chr17:7572959	SNV	T	C	exonic	missense	11	p.Met384Val	c.1150A>G	
s00105	chr17:7573935	SNV	A	G	exonic	synonymous	10	p.(=)	c.1092T>C	
s00105	chr17:7577564	SNV	G	A	exonic	synonym	7	p.(=)	c.717C>T	45842:44510:45078:4580

						ous				6:44183:44647
										44653:1649400:99625:99
										624:44432:99626:44728:
s00105	chr17:7577568	SNV	C	T	exonic	missense	7	p.Cys238Tyr	c.713G>A	1651665:43778:249079:1
										79813:249080:179812:17
										9811:249081:11059
										301402:301403:11063:99
										647:45673:99646:45862:
s00105	chr17:7577570	SNV	C	T	exonic	missense	7	p.Met237Ile	c.711G>A	301404:99648:44415:118
										9386:1189384:1189385:1
										640834:10834:1640835
s00105	chr17:7577592	SNV	G	A	exonic	missense	7	p.Thr230Ile	c.689C>T	44223:45157:43806:4386
										8
s00105	chr17:7578225	SNV	G	A	exonic	synonym ous	6	p.(=)	c.624C>T	44655:45851:45707
s00105	chr17:7579472	SNV	G	C	exonic	missense	4	p.Pro72Arg	c.215C>G	45985:250061

s00105	chr17:7579500	SNV	C	T	exonic	missense	4	p.Ala63Thr	c.187G>A	46070:46281
s00106	chr17:7572903	SNV	G	A	utr_3		11			
s00106	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00106	chr17:7573936	SNV	G	A	exonic	missense	10	p.Ala364Val	c.1091C>T	
s00106	chr17:7578186	SNV	C	T	exonic	synonymous	6	p.(=)	c.663G>A	46369:43916:43975:85959
										707897:707898:326733:707899:44754:707900:707901:1649395:44945:46308:707896:11451:1646847:1646846:326732:326731:326722:46389:46269:11450:326719:46406:308330:308327:308329:44175:308328:326721:326720:44
s00106	chr17:7578177	SNV	C	T	exonic	synonymous	6	p.(=)	c.672G>A	
s00106	chr17:7578205	SNV	C	T	exonic	missense	6	p.Ser215Asn	c.644G>A	

										093
s00106	chr17:7572850	SNV	G	A	utr_3		11			
s00107	chr17:7579539	SNV	T	C	exonic	missense	4	p.Ile50Val	c.148A>G	44792
s00107	chr17:7579533	SNV	G	A	exonic	nonsense	4	p.Gln52Ter	c.154C>T	99949:99948:44041:46064
s00107	chr17:7573988	MNV	CC	TT	exonic	synonymous missense	10	p.Ala347Thr	c.1038_1039delGGinsAA	1191612:45717
s00107	chr17:7573969	SNV	G	A	exonic	missense	10	p.Ala353Val	c.1058C>T	1133051
s00107	chr17:7577154	SNV	C	T	exonic	missense	8	p.Gly262Ser	c.784G>A	45497:44548
s00107	chr17:7579545	SNV	C	T	exonic	missense	4	p.Asp48Asn	c.142G>A	
s00107	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	1386601:44401:44819:44486:44480:43707:44614:1386602
s00107	chr17:7578287	SNV	G	A	exonic	synonymous	6	p.(=)	c.562C>T	391617:391616:44667:391613:44602:391615:3916

										14
										437518:44489:437519:43
s00107	chr17:7578245	SNV	G	A	exonic	missense	6	p.Arg202Cys	c.604C>T	7516:437517:44772:4417 4:45757:46074:45073:43 7520:45968
s00107	chr17:7579360	SNV	G	A	exonic	synonymous	4	p.(=)	c.327C>T	1172520:44020:1172518: 1172519
s00107	chr17:7578540	SNV	G	A	exonic	synonymous	5	p.(=)	c.390C>T	45206:49016:45077
s00107	chr17:7576898	SNV	G	A	exonic	synonymous	9	p.(=)	c.948C>T	46100
s00108	chr17:7573008	SNV	G	A	exonic	synonymous	11	p.(=)	c.1101C>T	
										44455:99914:99023:9902
s00108	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	2:45416:45936:1679508: 99024:1679509:10648:16

										79510:1679511:10718:16
										79512:1640851
s00108	chr17:7578547	SNV	G	A	exonic	missense	5	p.Pro128Leu	c.383C>T	45131:44538
										44268:131534:437536:16
										49387:131537:131536:13
s00109	chr17:7578370	SNV	C	T	splicesite_3		5			1535:254992:254991:254
										994:254993:437533:4375
										34:437535:33648:6901
s00110	chr17:7576855	SNV	G	A	exonic	nonsense	9	p.Gln331Ter	c.991C>T	1649348:44875:289612:1
										1354
s00110	chr17:7579852	SNV	C	T	exonic	missense	2	p.Asp21Asn	c.61G>A	
s00110	chr17:7579850	SNV	G	A	exonic	synonymous	2	p.(=)	c.63C>T	
s00110	chr17:7579869	SNV	C	T	exonic	missense	2	p.Ser15Asn	c.44G>A	
s00110	chr17:7577519	SNV	G	A	exonic	synonymous	7	p.(=)	c.762C>T	1386609:1386608:46276:1386607

s00110	chr17:7577573	SNV	G	A	exonic	synonym	7	p.(=)	c.708C>T	43564:1522507:44132:17
						ous				9816:44960:179815:1798
										14:1522505:1522506
										1386642:1386641:69170:
s00110	chr17:7577584	SNV	G	A	exonic	missense	7	p.His233Tyr	c.697C>T	1386640:46222:43539:44
										705:46031:166248:16624
										7:166246:166245
										247948:247949:43682:44
s00110	chr17:7579359	SNV	G	A	exonic	missense	4	p.Arg110Cys	c.328C>T	069:45158:1480095:1480
										094:45604:1480091:1480
										090:1480093:1480092:46
										053
s00110	chr17:7579325	SNV	G	A	exonic	missense	4	p.Ser121Phe	c.362C>T	44027:45569
s00110	chr17:7579369	SNV	G	A	exonic	synonym	4	p.(=)	c.318C>T	1610878:1610879:46201:
						ous				45944
s00110	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	417970:417971:10659:99

s00110	chr17:7577085	SNV	C	T	exonic	missense	8	p.Glu285Lys	c.853G>A	933:43909:1645518:4384
										3:45427
										45138:10722:1649345:44
										388:1649344:44738:2549
s00110	chr17:7577068	SNV	G	A	exonic	synonymous	8	p.(=)	c.870C>T	90:137087
										96578:45443:1386593:44
										381
s00110	chr17:7577083	SNV	C	T	exonic	synonymous	8	p.(=)	c.855G>A	44709
s00110	chr17:7578192	SNV	G	A	exonic	synonymous	6	p.(=)	c.657C>T	1386667:1386666:13866
										65:44689:44799:1386664
										:1386663:45023:44471
s00110	chr17:7577138	SNV	C	A	exonic	missense	8	p.Arg267Leu	c.800G>T	1290766:1649336:13165:
										11392:327262:1646804:7
										07909:43923
s00110	chr17:7578435	SNV	C	T	exonic	synonym	5	p.(=)	c.495G>A	1564178:46202:45697:15

										64177:44339:1564176:44
										558:1564175
s00110	chr17:7579894	SNV	C	T	exonic	missense	2	p.Asp7Asn	c.19G>A	45800
s00111	chr17:7572899	SNV	G	A	utr_3		11			
s00111	chr17:7572911	SNV	C	T	utr_3		11			
s00111	chr17:7572962	SNV	G	A	exonic	missense	11	p.Leu383Phe	c.1147C>T	45874:13747:1610825:53
										256:307349
s00111	chr17:7572996	SNV	G	A	exonic	synonym ous	11	p.(=)	c.1113C>T	
s00111	chr17:7577030	SNV	C	T	exonic	missense	8	p.Ser303Asn	c.908G>A	44167:43986:437474:437
										475
s00111	chr17:7577077	SNV	C	T	exonic	synonym ous	8	p.(=)	c.861G>A	43776:44077:46366
s00111	chr17:7577156	SNV	C	T	splicesite_5		8			6913:127199:254989:453
										90:1646865:44604
s00111	chr17:7577522	SNV	G	A	exonic	synonym	7	p.(=)	c.759C>T	44843:43908

s00111	chr17:7577549	SNV	G	A	exonic	ous	7	p.(=)	c.732C>T	44940:44513:45090:4478	
						synonym				7:46302:1386618:138661	
						ous				7:43656:1386616:45603	
s00111	chr17:7577587	SNV	T	C	exonic	missense	7	p.Ile232Val	c.694A>G	44786:562650:44622:435	
											50:1649399:562648:5626
											49
s00111	chr17:7578389	SNV	G	A	exonic	missense	5	p.Arg181Cys	c.541C>T	131464:131463:131462:4	
											5475:1638400:131465:44
											530:44529:11090
s00111	chr17:7578402	SNV	G	A	exonic	synonym	5	p.(=)	c.528C>T	1268359:46249:1268357:	
						ous				1268358:179825:179824:	
										179823:179822:1268360:	
s00111	chr17:7578552	SNV	G	A	exonic	synonym	5	p.(=)	c.378C>T	11114:43734	
						ous				10888:99945:99946:9994	
										4:249845:44196:10862	

s00111	chr17:7579327	SNV	C	T	exonic	synonymous	4	p.(=)	c.360G>A	45798
s00111	chr17:7579344	SNV	G	A	exonic	missense	4	p.His115Tyr	c.343C>T	
s00111	chr17:7579387	SNV	C	T	exonic	synonymous	4	p.(=)	c.300G>A	
s00111	chr17:7579414	SNV	C	T	exonic	nonsense	4	p.Trp91Ter	c.273G>A	562611:1646881:562612:44492:45282
s00111	chr17:7579427	SNV	G	A	exonic	missense	4	p.Pro87Leu	c.260C>T	43544
s00111	chr17:7579873	SNV	G	A	exonic	synonymous	2	p.(=)	c.40C>T	
s00111	chr17:7579877	SNV	G	A	exonic	synonymous	2	p.(=)	c.36C>T	
s00111	chr17:7579925	SNV	G	A	utr_5		2			
s00111	chr17:7579928	SNV	G	A	utr_5		2			
s00112	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	44455:99914:99023:99022:45416:45936:1679508:

[illegible]

s00114	chr17:7577109	SNV	A	G	exonic	missense	8	p.Cys277Arg	c.829T>C	37482:10814:1646809:36
										8635:1646810:139044
										45871:44211:45074:1324
										809:1324808
s00114	chr17:7578475	SNV	G	A	exonic	missense	5	p.Pro152Leu	c.455C>T	45018:10790:1645282:17
										1825:45505:44613:17182
										4:171823:171822:129856
										:129857:129858:129859
s00114	chr17:7579360	SNV	G	A	exonic	synonymous	4	p.(=)	c.327C>T	1172520:44020:1172518:1172519
s00114	chr17:7579424	SNV	G	A	exonic	missense	4	p.Ala88Val	c.263C>T	44231:44825
s00114	chr17:7579441	SNV	C	T	exonic	synonymous	4	p.(=)	c.246G>A	46238:45229
s00114	chr17:7579489	SNV	C	T	exonic	missense	4	p.Met66Ile	c.198G>A	111960:44042:111959:111958:96583
s00114	chr17:7579849	SNV	G	A	exonic	synonym	2	p.(=)	c.64C>T	

Genomic Data										Genomic Data
Sample ID	Chromosome	Position	Variant Type	Reference	Alternate	Category	Effect	Frequency	Protein Change	Gene
s00114	chr17:7579869	SNV	C	T	exonic	missense	2	p.Ser15Asn	c.44G>A	
s00115	chr17:7579340	SNV	G	A	exonic	missense	4	p.Ser116Phe	c.347C>T	44044:43715
s00115	chr17:7578420	SNV	C	T	exonic	synonymous	5	p.(=)	c.510G>A	45853:45541:46256:4438
										4:1386804:1386803:1386
										802:1386801
										44348:99925:45843:9993
s00115	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45
										816:44437:1636702:1070
										4:44918:10992
										10856:44127:126981:442
s00115	chr17:7577058	SNV	C	T	exonic	missense	8	p.Glu294Lys	c.880G>A	73:45824
										131453:165076:44258:16
										40826:241993:43974:453
s00115	chr17:7577117	SNV	A	G	exonic	missense	8	p.Val274Ala	c.821T>C	54:1640827:44393:44448
										:43945

s00115	chr17:7579585	SNV	G	A	exonic	synonymous	4	p.(=)	c.102C>T	
s00115	chr17:7579890	SNV	G	A	exonic	missense	2	p.Pro8Leu	c.23C>T	1386722:1386721:44411:
s00115	chr17:7578241	SNV	A	G	exonic	missense	6	p.Val203Ala	c.608T>C	1386720:44420:1386723:45308
s00115	chr17:7577527	SNV	G	A	exonic	missense	7	p.Leu252Phe	c.754C>T	1386611:1386610:44650:45881:46023:46243:44054:43832
s00116	chr17:7578383	INDEL	AGCAGC GCTCAT GGTGGG G	A	exonic	nonframeshiftDeletion	5	p.Pro177_Cys182del	c.529_546del CCCCACCA TGAGCGCT GC	44742:44730:1386796:1386795:1386794:44462:1386793:44343:45399:43570
s00117	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	44348:99925:45843:99934:45521:43585:45872:45816:44437:1636702:1070

										4:44918:10992
										44348:99925:45843:9993
s00118	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45816:44437:1636702:10704:44918:10992
s00119	chr17:7574003	SNV	G	A	exonic	nonsense	10	p.Arg342Ter	c.1024C>T	11073:44906:99721:306101:306102
s00120	chr17:7572868	SNV	G	A	utr_3		11			
s00120	chr17:7572922	SNV	G	A	utr_3		11			
s00120	chr17:7572930	SNV	G	A	exonic	synonymous	11	p.(=)	c.1179C>T	250076
										45788:6530:44135:45912
										:45889:44657:44935:138
s00120	chr17:7577557	INDEL	AG	A	exonic	frameshift Deletion	7	p.Cys242fs	c.723_723delC	6621:1386620:11738:437499:1386619:437500:342679:342678:342677:4374

										98
s00120	chr17:7578516	SNV	G	A	exonic	synonymous	5	p.(=)	c.414C>T	45016:46257
s00120	chr17:7579455	SNV	C	T	exonic	missense	4	p.Ala78Thr	c.232G>A	219129:1172521:1172523:1172522
s00120	chr17:7579496	SNV	G	A	exonic	missense	4	p.Pro64Leu	c.191C>T	
s00120	chr17:7579860	SNV	G	A	exonic	missense	2	p.Thr18Ile	c.53C>T	
										44455:99914:99023:99022:45416:45936:1679508:
s00121	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:1679510:1679511:10718:1679512:1640851
s00123	chr17:7572868	SNV	G	A	utr_3		11			
s00123	chr17:7572880	SNV	G	A	utr_3		11			
s00123	chr17:7572891	SNV	G	A	utr_3		11			
s00123	chr17:7572892	SNV	G	A	utr_3		11			

s00123	chr17:7572919	SNV	G	A	utr_3		11			
s00123	chr17:7572974	SNV	G	A	exonic	missense	11	p.Arg379Cys	c.1135C>T	
s00123	chr17:7573935	SNV	A	G	exonic	synonymous	10	p.(=)	c.1092T>C	
s00123	chr17:7573937	SNV	C	T	exonic	missense	10	p.Ala364Thr	c.1090G>A	46361
s00123	chr17:7573949	SNV	C	T	exonic	missense	10	p.Gly360Arg	c.1078G>A	
s00123	chr17:7573974	SNV	C	T	exonic	synonymous	10	p.(=)	c.1053G>A	
s00123	chr17:7573979	SNV	G	A	exonic	missense	10	p.Leu350Phe	c.1048C>T	
s00123	chr17:7576899	SNV	G	A	exonic	missense	9	p.Pro316Leu	c.947C>T	1167892:45544:111397:11396:69194
s00123	chr17:7576905	SNV	G	A	exonic	missense	9	p.Ser314Phe	c.941C>T	45914
s00123	chr17:7576907	SNV	G	A	exonic	synonymous	9	p.(=)	c.939C>T	
s00123	chr17:7577118	SNV	C	T	exonic	missense	8	p.Val274Ile	c.820G>A	44423:165075:10769:44443:43667:1679490:17214

										6
										45898:45667:1177737:10
s00123	chr17:7577124	SNV	C	T	exonic	missense	8	p.Val272Met	c.814G>A	859:44012:10891:99950:
										46054:1645249:212313
										1386601:44401:44819:44
s00123	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	486:44480:43707:44614:
										1386602
s00123	chr17:7578182	SNV	G	A	exonic	missense	6	p.Pro223Ser	c.667C>T	45664:44816:45759
										116608:44700:45469:448
s00123	chr17:7578374	SNV	C	T	exonic	missense	5	p.Asp186Asn	c.556G>A	37:116605:116607:11660
										6
										45853:45541:46256:4438
s00123	chr17:7578420	SNV	C	T	exonic	synonymous	5	p.(=)	c.510G>A	4:1386804:1386803:1386
										802:1386801
										44467:369077:369075:36
s00123	chr17:7578433	SNV	G	A	exonic	missense	5	p.Ser166Leu	c.497C>T	9076:44289:1386809:439

s00123	chr17:7578507	SNV	G	A	exonic	synonymous	5	p.(=)	c.423C>T	32:369074:1649382:1386
										810:11508:46363:138681
										2:1386811
										44775:707864:707865:70
										7866:44204:44611:70786
s00123	chr17:7579406	SNV	G	A	exonic	missense	4	p.Ser94Leu	c.281C>T	7:45298:45102:1522479:1522477:1522478:1522480
s00123	chr17:7579412	SNV	G	A	exonic	missense	4	p.Pro92Leu	c.275C>T	45500:53251:1386892:45653:1386891:45041:45182
s00123	chr17:7579495	SNV	G	T	exonic	synonymous	4	p.(=)	c.192C>A	45972:46010
s00123	chr17:7579844	SNV	C	T	exonic	nonsense	2	p.Trp23Ter	c.69G>A	
s00123	chr17:7579882	SNV	C	T	exonic	missense	2	p.Glu11Lys	c.31G>A	327261:11606:327260:32

										7259
s00123	chr17:7579906	SNV	C	T	exonic	missense	2	p.Glu3Lys	c.7G>A	
s00123	chr17:7579924	SNV	G	A	utr_5		2			
						nonframe				1610841:1610842:16108
s00125	chr17:7577572	INDEL	T	TGTA	exonic	shiftInsert	7	p.Tyr236dup	c.708_709insT AC	43:44001:46377:220793: 220792:220794:44525:44
						ion				965:44072
										1268359:46249:1268357:
s00126	chr17:7578402	SNV	G	C	exonic	missense	5	p.Cys176Trp	c.528C>G	1268358:179825:179824: 179823:179822:1268360: 11114:43734 44653:1649400:99625:99 624:44432:99626:44728:
s00127	chr17:7577568	SNV	C	T	exonic	missense	7	p.Cys238Tyr	c.713G>A	1651665:43778:249079:1 79813:249080:179812:17 9811:249081:11059

										43554:99679:44421:4494
										4:99682:43911:984961:1
										21049:984963:1640859:1
									c.440_450delT	
s00128	chr17:7578479	INDEL	GTGTGG AATCAA	G	exonic	frameshift Deletion	5	p.Val147fs	TGATTCCA CA	21048:984962:99681:996 80:1172499:1172498:109 05:121047:1172500:1210 46:984959:1172497:1172 496
s00129	chr17:7572908	SNV	G	A	utr_3		11			
s00129	chr17:7572922	SNV	G	A	utr_3		11			
s00129	chr17:7572971	SNV	G	A	exonic	missense	11	p.His380Tyr	c.1138C>T	
s00129	chr17:7572990	SNV	C	T	exonic	synonym ous	11	p.(=)	c.1119G>A	
s00129	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	
s00129	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	1386601:44401:44819:44 486:44480:43707:44614:

										1386602
										287981:1386645:138664
s00129	chr17:7577588	SNV	G	A	exonic	synonymous	7	p.(=)	c.693C>T	4:1386643:287983:287982:46379:44113
s00129	chr17:7578384	SNV	G	T	exonic	nonsense	5	p.Cys182Ter	c.546C>A	45855:45562:46288
										1640858:45886:43675:45
s00129	chr17:7578473	SNV	G	A	exonic	missense	5	p.Pro153Ser	c.457C>T	899:1640856:45821:1640857:44958:45660:1640854:1640855:45911
s00129	chr17:7579885	SNV	C	T	exonic	missense	2	p.Val10Ile	c.28G>A	1386939:45361:1386938:1386937
s00129	chr17:7579891	SNV	G	A	exonic	missense	2	p.Pro8Ser	c.22C>T	
s00130	chr17:7572878	SNV	G	A	utr_3		11			
s00130	chr17:7572889	SNV	G	A	utr_3		11			
s00130	chr17:7578184	SNV	G	A	exonic	missense	6	p.Pro222Leu	c.665C>T	46411:45067:45020:44606

s00130	chr17:7578185	SNV	G	A	exonic	missense	6	p.Pro222Ser	c.664C>T	45133:44970:46254:4360
										7
										43687:1640845:1640846:
s00130	chr17:7578208	SNV	T	C	exonic	missense	6	p.His214Arg	c.641A>G	307281:307280:307282:1
										640840:44372:1640843:1
										640844:1640841:164084
s00130	chr17:7578392	SNV	C	T	exonic	missense	5	p.Glu180Lys	c.538G>A	2:307279
										43597:43772:1522501:15
										22502:45625:46181:4570
s00132	chr17:7577568	SNV	C	T	exonic	missense	7	p.Cys238Tyr	c.713G>A	5:1522503:1522504
										44653:1649400:99625:99
										624:44432:99626:44728:
s00132	chr17:7578423	SNV	C	T	exonic	missense	5	p.Met169Ile	c.507G>A	1651665:43778:249079:1
										79813:249080:179812:17
										9811:249081:11059
s00132	chr17:7578423	SNV	C	T	exonic	missense	5	p.Met169Ile	c.507G>A	44126:45864:357729:357

										728:357730:46372:35772
										7:44836:45490
										44455:99914:99023:9902
										2:45416:45936:1679508:
s00136	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:16
										79510:1679511:10718:16
										79512:1640851
										44455:99914:99023:9902
										2:45416:45936:1679508:
s00137	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:16
										79510:1679511:10718:16
										79512:1640851
s00138	chr17:7576860	SNV	G	A	exonic	missense	9	p.Thr329Ile	c.986C>T	87515:46146
										1167892:45544:111397:1
										11396:69194
s00138	chr17:7576899	SNV	G	A	exonic	missense	9	p.Pro316Leu	c.947C>T	
s00138	chr17:7578374	SNV	C	T	exonic	missense	5	p.Asp186Asn	c.556G>A	116608:44700:45469:448

s00138	chr17:7578411	SNV	C	T	exonic	synonymous	5	p.(=)	c.519G>A	37:116605:116607:11660
										6
										1610852:43752:1610853:1610854:1610855:44517:46083
s00138	chr17:7578483	SNV	G	A	exonic	synonymous	5	p.(=)	c.447C>T	96439:44105:1324768:13
										24767:1324769:44408:1324771:1324770:45070
s00139	chr17:7577022	SNV	G	A	exonic	nonsense	8	p.Arg306Ter	c.916C>T	99947:10663:1640820259151:46019:259150:70
s00141	chr17:7578478	SNV	G	T	exonic	missense	5	p.Pro151His	c.452C>A	7868:707869:44003:4428
										8:44519:707870:707871:259152:259149:11476
s00144	chr17:7578555	SNV	C	T	splicesite_5		5			218536:1167886:116788
										5:45809:21572:1167887:22908:6900:45658:21853

										8:218537
										417970:417971:10659:99
s00146	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	933:43909:1645518:4384
										3:45427
										562342:45921:1324810:4
s00151	chr17:7577095	INDEL	GTC	G	exonic	frameshift Deletion	8	p.Asp281fs	c.841_842del GA	3906:1649343:43837:439
										58:45391
s00154	chr17:7572880	SNV	G	A	utr_3		11			
s00154	chr17:7572893	SNV	G	A	utr_3		11			
s00154	chr17:7572934	SNV	G	A	exonic	missense	11	p.Ser392Leu	c.1175C>T	46251
s00154	chr17:7572941	SNV	G	A	exonic	missense	11	p.Pro390Ser	c.1168C>T	
s00154	chr17:7573930	SNV	G	A	exonic	missense	10	p.Ser366Phe	c.1097C>T	
s00154	chr17:7573959	SNV	C	T	exonic	synonym ous	10	p.(=)	c.1068G>A	
s00154	chr17:7573968	SNV	G	A	exonic	synonym ous	10	p.(=)	c.1059C>T	

s00154	chr17:7576913	SNV	G	A	exonic	synonymous	9	p.(=)	c.933C>T	46472
s00154	chr17:7576926	SNV	G	A	exonic	missense	9	p.Ala307Val	c.920C>T	35846
s00154	chr17:7577504	SNV	G	A	exonic	synonymous	7	p.(=)	c.777C>T	46253:98456:43733:44459
s00154	chr17:7577582	SNV	G	A	exonic	synonymous	7	p.(=)	c.699C>T	44458:44350
s00154	chr17:7577588	SNV	G	A	exonic	synonymous	7	p.(=)	c.693C>T	287981:1386645:138664
s00154	chr17:7578197	SNV	C	T	exonic	missense	6	p.Val218Met	c.652G>A	44159:44683
s00154	chr17:7578375	SNV	G	A	exonic	synonymous	5	p.(=)	c.555C>T	45676:45698:45701:45287:44179:45198:44185
s00154	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	44455:99914:99023:9902
s00154	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	2:45416:45936:1679508:99024:1679509:10648:16

										79510:1679511:10718:16
										79512:1640851
s00154	chr17:7578441	SNV	G	A	exonic	synonymous	5	p.(=)	c.489C>T	43820:45411:44391
										44125:44694:437569:437
s00154	chr17:7578444	SNV	G	A	exonic	synonymous	5	p.(=)	c.486C>T	566:437567:437568:45627
										1386820:48943:1386819:44416
s00154	chr17:7578471	SNV	G	A	exonic	synonymous	5	p.(=)	c.459C>T	1386818:1386817:43964:44416
										43985:46236:44581:45791:95384
s00154	chr17:7578491	SNV	C	T	exonic	missense	5	p.Val147Ile	c.439G>A	
s00154	chr17:7578497	SNV	G	A	exonic	synonymous	5	p.(=)	c.433C>T	45885:44056:45902
s00154	chr17:7578519	SNV	C	T	exonic	synonymous	5	p.(=)	c.411G>A	45567:1610864:1610865:1610866:1610867:16108

										68:45993:44649
s00154	chr17:7578547	SNV	G	A	exonic	missense	5	p.Pro128Leu	c.383C>T	45131:44538
s00154	chr17:7579351	SNV	G	A	exonic	synonymous	4	p.(=)	c.336C>T	46009:44487
s00154	chr17:7579381	SNV	G	A	exonic	synonymous	4	p.(=)	c.306C>T	
s00154	chr17:7579395	SNV	G	A	exonic	missense	4	p.Pro98Ser	c.292C>T	1386882:1386881:12296
s00154	chr17:7579396	SNV	G	A	exonic	synonymous	4	p.(=)	c.291C>T	473437:473436:473435
										251376:46349:251377:25
s00154	chr17:7579419	SNV	AGG	AGA	exonic	missense	4	p.Pro89Leu	c.266C>T	1378:18610:1180853:1180854:46155:1268330:46063
s00154	chr17:7579464	SNV	G	A	exonic	missense	4	p.Pro75Ser	c.223C>T	46193
s00154	chr17:7579478	SNV	G	A	exonic	missense	4	p.Ala70Val	c.209C>T	
s00154	chr17:7579483	SNV	C	T	exonic	synonym	4	p.(=)	c.204G>A	46357

[illegible]

s00159	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	0:437630
										241995:45116:241996:24
										1994:99602:11491:99021
										:340106:99020:340107:1
										646858:10662:6549:3401
s00160	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	05:1640830:1646857
										44455:99914:99023:9902
										2:45416:45936:1679508:
										99024:1679509:10648:16
										79510:1679511:10718:16
s00163	chr17:7572872	SNV	G	A	utr_3		11			79512:1640851
s00163	chr17:7573005	SNV	G	A	exonic	synonymous	11	p.(=)	c.1104C>T	
s00163	chr17:7573944	SNV	C	T	exonic	synonymous	10	p.(=)	c.1083G>A	

s00163	chr17:7576897	SNV	G	A	exonic	nonsense	9	p.Gln317Ter	c.949C>T	165085:44254:6641:1709728:10786:43769
s00163	chr17:7576921	SNV	G	A	exonic	missense	9	p.Pro309Ser	c.925C>T	1679488:1679489:11677
s00163	chr17:7577019	SNV	C	T	exonic	missense	8	p.Ala307Thr	c.919G>A	46017:46090:45485
s00163	chr17:7577543	SNV	C	T	exonic	missense	7	p.Met246Ile	c.738G>A	1196424:1679496:10757:1196423:46136:44310:1196422:437495:437496:437497
										44853:126984:126983:126982:44817:45582:44107:1646845
										1386667:1386666:1386665:44689:44799:1386664:1386663:45023:44471
s00163	chr17:7578188	SNV	C	T	exonic	missense	6	p.Glu221Lys	c.661G>A	45303:44334:46216:44751
s00163	chr17:7578192	SNV	G	A	exonic	synonymous	6	p.(=)	c.657C>T	
s00163	chr17:7578200	SNV	C	T	exonic	missense	6	p.Val217Met	c.649G>A	

										45962:984946:44068:984
s00163	chr17:7578398	SNV	G	A	exonic	missense	5	p.His178Tyr	c.532C>T	949:44120:43581:45071:984950:44901
s00163	chr17:7578399	SNV	G	A	exonic	synonymous	5	p.(=)	c.531C>T	45423:43577:44818:45451:43679
s00163	chr17:7578472	SNV	G	A	exonic	missense	5	p.Pro153Leu	c.458C>T	44367:392241:392240:392243:45210:45496:392242:43815:392239
s00163	chr17:7578481	SNV	G	A	exonic	missense	5	p.Thr150Ile	c.449C>T	44038:45139:45563
s00163	chr17:7579360	SNV	G	A	exonic	synonymous	4	p.(=)	c.327C>T	1172520:44020:1172518:1172519
s00163	chr17:7579417	SNV	G	A	exonic	synonymous	4	p.(=)	c.270C>T	
s00163	chr17:7579506	SNV	C	T	exonic	missense	4	p.Asp61Asn	c.181G>A	44675
s00164	chr17:7572906	SNV	G	A	utr_3		11			
s00164	chr17:7573944	SNV	C	T	exonic	synonym	10	p.(=)	c.1083G>A	

s00164	chr17:7578201	SNV	C	T	exonic	ous	6	p.(=)	c.648G>A	44239:44638
						synonym				
						ous				
s00164	chr17:7578461	SNV	C	A	exonic	missense	5	p.Val157Phe	c.469G>T	1324775:1324774:45217:
										131483:43710:1157911:1
										157910:45595:46355:167
										9513:1157913:1157912:4
s00164	chr17:7579412	SNV	G	A	exonic	missense	4	p.Pro92Leu	c.275C>T	3625:1157909:10670:451
										20:45054:131482:131481
										:131480:1324773:132477
										2
s00165	chr17:7572854	SNV	C	T	utr_3		11			
s00165	chr17:7573005	SNV	G	A	exonic	synonym	11	p.(=)	c.1104C>T	
						ous				
s00165	chr17:7574003	SNV	G	A	exonic	nonsense	10	p.Arg342Ter	c.1024C>T	11073:44906:99721:3061

s00165	chr17:7577537	SNV	C	T	exonic	synonymous	7	p.(=)	c.744G>A	01:306102
										112039:112038:44908:11
										2037:112036:45543:4478
										3:45561:44977:45735:45
										084
s00165	chr17:7578382	SNV	G	A	exonic	missense	5	p.Ser183Leu	c.548C>T	11717:562633:44300:562
										635:10706:562634:16493
s00165	chr17:7579455	SNV	C	T	exonic	missense	4	p.Ala78Thr	c.232G>A	86:562636
										219129:1172521:117252
s00165	chr17:7579865	SNV	C	T	exonic	synonymous	2	p.(=)	c.48G>A	3:1172522
s00165	chr17:7579875	SNV	G	A	exonic	missense	2	p.Pro13Leu	c.38C>T	
s00167	chr17:7572899	SNV	G	A	utr_3		11			
s00167	chr17:7572920	SNV	G	A	utr_3		11			
s00168	chr17:7572880	SNV	G	A	utr_3		11			

s00168	chr17:7578175	SNV	A	G	splice	site_3	6			562642:562644:562643:1
										649396:165069:165068:1
										65067:45517:45715:1650
										66
										44455:99914:99023:9902
s00169	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	2:45416:45936:1679508:
										99024:1679509:10648:16
										79510:1679511:10718:16
										79512:1640851
s00170	chr17:7572850	SNV	G	A	utr	3	11			
s00170	chr17:7572868	SNV	G	A	utr	3	11			
s00170	chr17:7572896	SNV	G	T	utr	3	11			
s00170	chr17:7572934	SNV	G	A	exonic	missense	11	p.Ser392Leu	c.1175C>T	46251
s00170	chr17:7573976	SNV	T	C	exonic	missense	10	p.Lys351Glu	c.1051A>G	107992:107991:45375:15
										22202:1522203
s00170	chr17:7577079	SNV	C	T	exonic	missense	8	p.Glu287Lys	c.859G>A	44225:214243:1646819:4

s00170	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4133
										44348:99925:45843:9993
										4:45521:43585:45872:45
										816:44437:1636702:1070
										4:44918:10992
s00170	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A	44324:45787:43896:9972
										9:10779:1645335:164680
										8:1640828:10660:318169
										:44701:165077
										326723:43665:1649403:3
s00170	chr17:7577535	SNV	C	T	exonic	missense	7	p.Arg249Lys	c.746G>A	26724:375643:45403:375
										642:129832:43871:45564
										:45726:129833:46383:44
										091
										44378:44353:85578:1196
s00170	chr17:7577555	SNV	G	A	exonic	synonymous	7	p.(=)	c.726C>T	891:45691:11356:119689

										3:1196892
s00170	chr17:7578230	SNV	C	T	exonic	missense	6	p.Asp207Asn	c.619G>A	179819:179818:179817:4 5289:179821:179820
										11998:1559482:1559481:
s00170	chr17:7578396	SNV	G	A	exonic	synonymous	5	p.(=)	c.534C>T	1559480:44971:1559479: 46163:46196:44361:4584
										5
										46066:121084:44150:113
s00170	chr17:7578431	SNV	G	A	exonic	nonsense	5	p.Gln167Ter	c.499C>T	33:121081:45955:44800: 121083:121082
										213310:44545:213311:56
s00170	chr17:7578466	SNV	G	A	exonic	missense	5	p.Thr155Ile	c.464C>T	2622:44033:562621:5626 24:562623:1649373:1121
										8:46086:213312:213313
s00170	chr17:7578523	SNV	T	C	exonic	missense	5	p.Gln136Arg	c.407A>G	1683510:1683511:45123: 45089:1683507:1683508:

										1683509:18568:307335:4
										5293
s00170	chr17:7578543	SNV	G	A	exonic	synonymous	5	p.(=)	c.387C>T	
s00170	chr17:7579356	SNV	G	A	exonic	synonymous	4	p.(=)	c.331C>T	45482:43790:45218
s00170	chr17:7579474	SNV	G	A	exonic	synonymous	4	p.(=)	c.213C>T	
s00170	chr17:7579488	SNV	G	A	exonic	missense	4	p.Pro67Ser	c.199C>T	44199
s00170	chr17:7579867	SNV	G	T	exonic	missense	2	p.Gln16Lys	c.46C>A	
										44348:99925:45843:9993
s00171	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45816:44437:1636702:1070
										4:44918:10992
s00171	chr17:7578459	SNV	G	A	exonic	synonymous	5	p.(=)	c.471C>T	44594:44009:44526:43934

s00171	chr17:7578497	SNV	G	A	exonic	synonymous	5	p.(=)	c.433C>T	45885:44056:45902 45415:45216:46387:1386 670:120095:1644280:120
s00171	chr17:7578203	SNV	C	T	exonic	missense	6	p.Val216Met	c.646G>A	096:120097:44528:10667 :120098:1386671:11210: 1386669:45062:1386668 1640858:45886:43675:45 899:1640856:45821:1640 857:44958:45660:164085 4:1640855:45911
s00171	chr17:7578473	SNV	G	A	exonic	missense	5	p.Pro153Ser	c.457C>T	473437:473436:473435
s00171	chr17:7579396	SNV	G	A	exonic	synonymous	4	p.(=)	c.291C>T	46265
s00171	chr17:7579463	SNV	G	A	exonic	missense	4	p.Pro75Leu	c.224C>T	326722:46389:46269:114 50:326719:46406:308330
s00171	chr17:7578205	INDEL	CTA	C	exonic	frameshift Deletion	6	p.His214fs	c.642_643delT A	

[illegible]

s00174	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	5:292497:707891:292496
										:44162:1666588:1638393
										:10654
										44348:99925:45843:9993
										4:45521:43585:45872:45
s00174	chr17:7572979	SNV	G	A	exonic	missense	11	p.Thr377Ile	c.1130C>T	816:44437:1636702:1070
										4:44918:10992
s00174	chr17:7572873	SNV	G	A	utr_3		11			
s00174	chr17:7572919	SNV	G	A	utr_3		11			
s00174	chr17:7578524	SNV	G	A	exonic	nonsense	5	p.Gln136Ter	c.406C>T	46008:44279:44881:4376
										7:44866:45966:126988:1
										26987:126986:126985:11
										166:437598:437599:4376
										00:437597
s00174	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	

s00174	chr17:7578505	SNV	G	A	exonic	missense	5	p.Pro142Leu	c.425C>T	43583:45022:43942
s00174	chr17:7579925	SNV	G	A	utr_5		2			1559483:44016:45185:10
s00174	chr17:7578401	SNV	G	A	exonic	missense	5	p.Pro177Ser	c.529C>T	650:44503:43613:155948 6:43669:1559485:155948 4
s00174	chr17:7577516	SNV	G	A	exonic	synonymous	7	p.(=)	c.765C>T	45104:1172465:45580:11 72464:1172463:46040:45 848
s00176	chr17:7577539	SNV	G	A	exonic	missense	7	p.Arg248Trp	c.742C>T	10656:1189382:120005:4 4920:1189383:120006:11 89381:6546:6545:11564: 120007:1640831
s00176	chr17:7579418	SNV	G	A	exonic	missense	4	p.Ser90Phe	c.269C>T	44444:46099
s00176	chr17:7573952	SNV	G	A	exonic	missense	10	p.Pro359Ser	c.1075C>T	43893
s00176	chr17:7573973	SNV	C	T	exonic	missense	10	p.Asp352Asn	c.1054G>A	

										1610830:45973:1610831:
s00176	chr17:7577514	SNV	G	A	exonic	missense	7	p.Thr256Ile	c.767C>T	45601:1191148:1191147: 43694:1480062:1480061: 1480063:45526:44429
s00176	chr17:7576886	SNV	C	T	exonic	synonymous	9	p.(=)	c.960G>A	46401:44197:10774
s00176	chr17:7572919	SNV	G	A	utr_3		11			
s00176	chr17:7576897	SNV	G	A	exonic	nonsense	9	p.Gln317Ter	c.949C>T	165085:44254:6641:1709 728:10786:43769
s00176	chr17:7572893	SNV	G	A	utr_3		11			
s00176	chr17:7579877	SNV	G	A	exonic	synonymous	2	p.(=)	c.36C>T	
										1324777:1324776:13247 79:1324778:129852:4454 2:129853:45025:129854: 10808:1649381:308332:3
s00178	chr17:7578442	SNV	T	C	exonic	missense	5	p.Tyr163Cys	c.488A>G	

										08331:129855:1324780:3
										08334:437561:308333:43
										7562:437563:45194:4375
										64
s00180	chr17:7572880	SNV	G	A	utr_3		11			
s00180	chr17:7572999	SNV	C	T	exonic	synonymous	11	p.(=)	c.1110G>A	
s00180	chr17:7573004	SNV	G	A	exonic	synonymous	11	p.(=)	c.1105C>T	
s00180	chr17:7573991	SNV	C	T	exonic	missense	10	p.Glu346Lys	c.1036G>A	46048:1522201:44083
s00180	chr17:7576855	SNV	G	A	exonic	nonsense	9	p.Gln331Ter	c.991C>T	1649348:44875:289612:1
s00180	chr17:7576893	SNV	G	A	exonic	missense	9	p.Pro318Leu	c.953C>T	1354
s00180	chr17:7576913	SNV	G	A	exonic	synonymous	9	p.(=)	c.933C>T	46472
s00180	chr17:7578198	SNV	C	T	exonic	synonym	6	p.(=)	c.651G>A	45922

Genomic Data											
ID	Chromosome	Position	Variant Type	Reference	Alternate	Context	Score	Annotation			Gene
								Effect	Protein Change	Codon Change	
s00180	chr17	7578370	SNV	C	T	splicesite_3	5				44268:131534:437536:16
											49387:131537:131536:13
											1535:254992:254991:254
											994:254993:437533:4375
											34:437535:33648:6901
s00181	chr17	7572914	SNV	G	A	utr_3	11				
s00182	chr17	7572888	SNV	G	A	utr_3	11				
s00182	chr17	7572919	SNV	G	A	utr_3	11				
s00182	chr17	7573930	SNV	G	A	exonic	missense	10	p.Ser366Phe	c.1097C>T	
s00182	chr17	7573963	SNV	G	A	exonic	missense	10	p.Ala355Val	c.1064C>T	
s00182	chr17	7573968	SNV	G	A	exonic	synonymous	10	p.(=)	c.1059C>T	
							ous				
s00182	chr17	7573969	SNV	G	A	exonic	missense	10	p.Ala353Val	c.1058C>T	1133051
s00182	chr17	7576855	SNV	G	A	exonic	nonsense	9	p.Gln331Ter	c.991C>T	1649348:44875:289612:1
											1354

s00182	chr17:7576900	SNV	G	A	exonic	missense	9	p.Pro316Ser	c.946C>T	241995:45116:241996:241994:99602:11491:99021
s00182	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	:340106:99020:340107:1646858:10662:6549:340105:1640830:164685744202:44029:43797:165081:165080:165079:16507843597:43772:1522501:1522502:45625:46181:45705:1522503:15225041709735:1709734:45326:1709733:45476:1709732:45878:1709731:117222:117221:117224:117223:16
s00182	chr17:7578380	SNV	C	T	exonic	missense	5	p.Asp184Asn	c.550G>A	
s00182	chr17:7578392	SNV	C	T	exonic	missense	5	p.Glu180Lys	c.538G>A	
s00182	chr17:7578400	SNV	G	A	exonic	missense	5	p.Pro177Leu	c.530C>T	

										40849:10651:44097
s00182	chr17:7579476	SNV	G	A	exonic	missense	4	p.Pro71Ser	c.211C>T	44840:46337
s00182	chr17:7579849	SNV	G	A	exonic	synonymous	2	p.(=)	c.64C>T	
s00182	chr17:7579853	SNV	T	C	exonic	synonymous	2	p.(=)	c.60A>G	
s00182	chr17:7579876	SNV	G	A	exonic	missense	2	p.Pro13Ser	c.37C>T	
s00182	chr17:7579906	SNV	C	T	exonic	missense	2	p.Glu3Lys	c.7G>A	
s00182	chr17:7579936	SNV	G	A	utr_5		2			
										99618:99617:43798:4435
										8:45777:292498:44102:9
s00183	chr17:7578212	SNV	G	A	exonic	nonsense	6	p.Arg213Ter	c.637C>T	9616:99615:44695:29249
										5:292497:707891:292496
										:44162:1666588:1638393
										:10654
s00183	chr17:7578429	SNV	C	T	exonic	synonym	5	p.(=)	c.501G>A	45226:69214:44275:4616

s00183	chr17:7578408	SNV	C	A	exonic	ous	5	p.Arg174Ser	c.522G>T	7:44299:45626:405174:4
										05173:53261:405176:458
										59:405175:45187:46282
										45633:45776:1630430:43
										7543:44518:437544:4375
s00183	chr17:7573989	SNV	C	T	exonic	ous	10	p.(=)	c.1038G>A	45:1630431:1630432:437
						synonym				541:1630433:437542
						ous				
						missense				
						missense				
s00183	chr17:7573930	SNV	G	A	exonic	ous	10	p.Ser366Phe	c.1097C>T	
						missense				
						missense				
						synonym				
						ous				
s00183	chr17:7578441	SNV	G	A	exonic		5	p.(=)	c.489C>T	43820:45411:44391
s00183	chr17:7579936	SNV	G	A	utr_5		2			
s00183	chr17:7572873	SNV	G	A	utr_3		11			
s00183	chr17:7576881	SNV	G	A	exonic	missense	9	p.Pro322Leu	c.965C>T	44684:45093

s00183	chr17:7576860	SNV	G	A	exonic	missense	9	p.Thr329Ile	c.986C>T	87515:46146
s00183	chr17:7572889	SNV	G	A	utr_3		11			
s00183	chr17:7572888	SNV	G	A	utr_3		11			
s00183	chr17:7572907	SNV	G	A	utr_3		11			
s00183	chr17:7572943	SNV	C	T	exonic	missense	11	p.Gly389Glu	c.1166G>A	
s00183	chr17:7572917	SNV	G	A	utr_3		11			
s00183	chr17:7572949	SNV	G	A	exonic	missense	11	p.Thr387Ile	c.1160C>T	
s00183	chr17:7572942	SNV	C	T	exonic	synonymous	11	p.(=)	c.1167G>A	
s00184	chr17:7572889	SNV	G	A	utr_3		11			
s00184	chr17:7572903	SNV	G	A	utr_3		11			
s00184	chr17:7573938	SNV	C	T	exonic	synonymous	10	p.(=)	c.1089G>A	
s00184	chr17:7573949	SNV	C	T	exonic	missense	10	p.Gly360Arg	c.1078G>A	
s00184	chr17:7573974	SNV	C	T	exonic	synonymous	10	p.(=)	c.1053G>A	

s00184	chr17:7573977	SNV	G	A	exonic	synonymous	10	p.(=)	c.1050C>T	307337
s00184	chr17:7576913	SNV	G	A	exonic	synonymous	9	p.(=)	c.933C>T	46472
99936:45866:117157:164										
s00184	chr17:7577093	SNV	C	T	exonic	missense	8	p.Arg282Gln	c.845G>A	6815:44470:44306:44338
:43813										
241995:45116:241996:24										
1994:99602:11491:99021										
s00184	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	:340106:99020:340107:1
646858:10662:6549:3401										
05:1640830:1646857										
s00184	chr17:7578426	SNV	G	A	exonic	synonymous	5	p.(=)	c.504C>T	45479:96590:44663:4586
1:45350										
s00184	chr17:7578481	SNV	G	A	exonic	missense	5	p.Thr150Ile	c.449C>T	44038:45139:45563
s00184	chr17:7578484	SNV	G	A	exonic	missense	5	p.Ser149Phe	c.446C>T	44500:45347:1163647:11

										63646:1163645:44099:11
										63644
s00184	chr17:7578549	SNV	G	A	exonic	synonymous	5	p.(=)	c.381C>T	45337:45015
s00184	chr17:7579381	SNV	G	A	exonic	synonymous	4	p.(=)	c.306C>T	
s00184	chr17:7579443	SNV	G	A	exonic	missense	4	p.Pro82Ser	c.244C>T	45689:44597
s00184	chr17:7579448	SNV	G	A	exonic	missense	4	p.Pro80Leu	c.239C>T	45835
s00184	chr17:7579478	SNV	G	A	exonic	missense	4	p.Ala70Val	c.209C>T	
										1646853:673602:673603:
										44221:45696:99683:6736
s00185	chr17:7577551	SNV	C	T	exonic	missense	7	p.Gly244Ser	c.730G>A	04:99685:99684:984898:
										984901:984900:45682:11
										524:10941
s00188	chr17:7579411	SNV	G	A	exonic	synonymous	4	p.(=)	c.276C>T	

s00188	chr17:7572903	SNV	G	A	utr_3		11				1610852:43752:1610853:
s00188	chr17:7578411	SNV	C	T	exonic	synonymous	5	p.(=)	c.519G>A		1610854:1610855:44517:46083
s00188	chr17:7576860	SNV	G	C	exonic	missense	9	p.Thr329Ser	c.986C>G		87515:46146
s00188	chr17:7577501	SNV	G	A	exonic	synonymous	7	p.(=)	c.780C>T		44620:44560:45768
s00188	chr17:7572888	SNV	G	A	utr_3		11				
s00188	chr17:7572917	SNV	G	A	utr_3		11				
s00188	chr17:7579422	MNV	GG	AA	exonic	synonymous missense	4	p.Pro89Ser	c.264_265del CCinsTT		43688:46047:44559:69021
s00188	chr17:7576858	SNV	G	A	exonic	missense	9	p.Leu330Phe	c.988C>T		
s00188	chr17:7579497	SNV	G	A	exonic	missense	4	p.Pro64Ser	c.190C>T		984976:43644:984975:984978
s00188	chr17:7578493	SNV	C	T	exonic	nonsense	5	p.Trp146Ter	c.437G>A		1158446:1158445:41796

										0:417961:417962:43609:417963:1158448:1158447:46220:1640860
s00188	chr17:7577077	SNV	C	T	exonic	synonymous	8	p.(=)	c.861G>A	43776:44077:46366
s00188	chr17:7579418	SNV	G	A	exonic	missense	4	p.Ser90Phe	c.269C>T	44444:46099
s00188	chr17:7579508	SNV	G	A	exonic	missense	4	p.Pro60Leu	c.179C>T	44136:39453:46068
s00188	chr17:7578537	SNV	G	A	exonic	synonymous	5	p.(=)	c.393C>T	44138:45882:437613:437614:437615:437612:45978:44291
s00188	chr17:7578492	SNV	C	T	exonic	nonsense	5	p.Trp146Ter	c.438G>A	10727:131520:131519:1649371:131518:45748:131517
s00188	chr17:7577099	SNV	C	T	exonic	missense	8	p.Arg280Lys	c.839G>A	254987:10724:1659144:129830:10728:11287:1649340:46183:1646813:5623

[illegible]

s00197	chr17:7572885	SNV	G	A	utr_3		11			89381:6546:6545:11564:
										120007:1640831
										44268:131534:437536:16
s00197	chr17:7578370	SNV	C	A	splicesite_3		5			49387:131537:131536:13
										1535:254992:254991:254
										994:254993:437533:4375
s00197	chr17:7573974	SNV	C	T	exonic	synonymous	10	p.(=)	c.1053G>A	34:437535:33648:6901
										44367:392241:392240:39
s00197	chr17:7578472	SNV	G	A	exonic	missense	5	p.Pro153Leu	c.458C>T	2243:45210:45496:39224
										2:43815:392239
s00197	chr17:7579890	MNV	GG	AA	exonic	missense	2	p.Pro8Phe	c.22_23delCC insTT	
s00197	chr17:7579449	SNV	G	A	exonic	missense	4	p.Pro80Ser	c.238C>T	

s00197	chr17:7579499	SNV	G	A	exonic	missense	4	p.Ala63Val	c.188C>T	278468:278467:1189391:
s00197	chr17:7579389	SNV	G	A	exonic	nonsense	4	p.Gln100Ter	c.298C>T	1189392:278469:44032:1 166926:1166925:116692 7
s00197	chr17:7572999	SNV	C	T	exonic	synonymous	11	p.(=)	c.1110G>A	46215:43552:1564195:15 64194:1564193:1564192: 44053:1564196:44439:45 380
s00197	chr17:7578193	SNV	G	A	exonic	missense	6	p.Pro219Leu	c.656C>T	45613:44811
s00197	chr17:7576900	SNV	G	A	exonic	missense	9	p.Pro316Ser	c.946C>T	
s00197	chr17:7576910	SNV	G	A	exonic	synonymous	9	p.(=)	c.936C>T	
s00197	chr17:7572914	SNV	G	A	utr_3		11			
s00197	chr17:7572934	SNV	G	A	exonic	missense	11	p.Ser392Leu	c.1175C>T	46251

s00202	chr17:7574018	SNV	G	A	exonic	missense	10	p.Arg337Cys	c.1009C>T	11071:1563606:1563605: 235697:117591 562651:11081:562653:56 2652:45398:131039:1210 37:10957:121036:161083
s00205	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	5:121035:1610836:16108 37:6932:1646855:131042 :1640833:131041:131040 11847:1172477:1630417: 44672:1172476:1630418:
s00206	chr17:7578191	SNV	A	G	exonic	missense	6	p.Tyr220His	c.658T>C	1172479:1630419:11724 78:44585:1630416:44637 220779:220778:1649378:
s00208	chr17:7578457	INDEL	CG	C	exonic	frameshift Deletion	5	p.Arg158fs	c.472_472del C	1649379:1649376:10690: 1649377:99676:1649374: 99675:1649375:99678:99

										677:43615:10714:437570
										:437571:220780:437576:
										437577:437578:437572:4
										37573:437574:437575:44
										479:43781:220781:48914
										:1640853
s00209	chr17:7572878	SNV	G	A	utr_3		11			
s00209	chr17:7572889	SNV	G	A	utr_3		11			
s00209	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00209	chr17:7572975	SNV	G	A	exonic	synonymous	11	p.(=)	c.1134C>T	
s00209	chr17:7573948	SNV	C	T	exonic	missense	10	p.Gly360Glu	c.1079G>A	
s00209	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	
s00209	chr17:7573982	SNV	C	T	exonic	missense	10	p.Glu349Lys	c.1045G>A	1386550:140784:10770:1386549

s00209	chr17:7573995	SNV	C	T	exonic	synonymous	10	p.(=)	c.1032G>A	1386556:1386555
s00209	chr17:7576921	SNV	G	A	exonic	missense	9	p.Pro309Ser	c.925C>T	1679488:1679489:11677
s00209	chr17:7577077	SNV	C	T	exonic	synonymous	8	p.(=)	c.861G>A	43776:44077:46366
										417970:417971:10659:99
s00209	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	933:43909:1645518:4384
										3:45427
s00209	chr17:7577576	SNV	G	A	exonic	synonymous	7	p.(=)	c.705C>T	46039:45975:45854:4565
										6:44181
										44202:44029:43797:1650
s00209	chr17:7578380	SNV	C	T	exonic	missense	5	p.Asp184Asn	c.550G>A	81:165080:165079:16507
										8
s00209	chr17:7578405	SNV	G	A	exonic	synonymous	5	p.(=)	c.525C>T	44566:45515
s00209	chr17:7578416	SNV	C	T	exonic	missense	5	p.Val172Ile	c.514G>A	354839:354840:354841:4

										4240:45207:43955:35484
										2
s00209	chr17:7578441	SNV	G	A	exonic	synonymous	5	p.(=)	c.489C>T	43820:45411:44391
										45039:44220:44110:4410
s00209	chr17:7578513	SNV	C	T	exonic	synonymous	5	p.(=)	c.417G>A	1:1303397:44491:130339 8:1303399:44086:130340 0:46362:45271
										44138:45882:437613:437
s00209	chr17:7578537	SNV	G	A	exonic	synonymous	5	p.(=)	c.393C>T	614:437615:437612:4597 8:44291
										1646884:437628:437629: 1646885:44045:437626:4
s00209	chr17:7579355	SNV	A	T	exonic	missense	4	p.Leu111Gln	c.332T>A	4630:437627:707860:707 861:307284:307283:4457 0:437630

s00209	chr17:7579391	SNV	G	A	exonic	missense	4	p.Ser99Phe	c.296C>T	44688:44036
										251376:46349:251377:25
s00209	chr17:7579419	SNV	AG	AA	exonic	synonymous	4	p.(=)	c.267C>T	1378:18610:1180853:118
										0854:46155:1268330:460
										63
s00209	chr17:7579495	MNV	GG	AA	exonic	missense	4	p.Pro64Leu	c.191_192del CCinsTT	
s00209	chr17:7579849	SNV	G	A	exonic	synonymous	2	p.(=)	c.64C>T	
										417970:417971:10659:99
s00210	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	933:43909:1645518:4384
										3:45427
s00211	chr17:7577022	SNV	G	A	exonic	nonsense	8	p.Arg306Ter	c.916C>T	99947:10663:1640820
s00212	chr17:7572954	SNV	G	A	exonic	synonymous	11	p.(=)	c.1155C>T	
s00212	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	44348:99925:45843:9993

										4:45521:43585:45872:45
										816:44437:1636702:1070
										4:44918:10992
										1386667:1386666:13866
s00212	chr17:7578192	SNV	G	A	exonic	synonymous	6	p.(=)	c.657C>T	65:44689:44799:1386664
										:1386663:45023:44471
s00217	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	
s00217	chr17:7578506	SNV	G	A	exonic	missense	5	p.Pro142Ser	c.424C>T	43930:44520:45927:4496
										9:45802
s00217	chr17:7572976	SNV	G	A	exonic	missense	11	p.Ser378Phe	c.1133C>T	
s00217	chr17:7579934	SNV	C	T	utr_5		2			
s00217	chr17:7579875	SNV	G	A	exonic	missense	2	p.Pro13Leu	c.38C>T	
										44786:562650:44622:435
s00217	chr17:7577587	SNV	T	C	exonic	missense	7	p.Ile232Val	c.694A>G	50:1649399:562648:5626
										49
s00217	chr17:7574003	SNV	G	A	exonic	nonsense	10	p.Arg342Ter	c.1024C>T	11073:44906:99721:3061

										01:306102
s00217	chr17:7573009	SNV	C	T	splice	site_5	11			
s00217	chr17:7572978	SNV	G	A	exonic	synonymous	11	p.(=)	c.1131C>T	
s00217	chr17:7577599	SNV	C	T	exonic	missense	7	p.Asp228Asn	c.682G>A	1640836:45786:1640837:45211:46213:1640838:44398:1640839:46164
s00217	chr17:7576859	SNV	G	A	exonic	synonymous	9	p.(=)	c.987C>T	45765:142996:142995:46113
s00217	chr17:7576893	SNV	G	A	exonic	missense	9	p.Pro318Leu	c.953C>T	
s00217	chr17:7578201	SNV	C	T	exonic	synonymous	6	p.(=)	c.648G>A	44239:44638
s00217	chr17:7578413	SNV	C	T	exonic	missense	5	p.Val173Met	c.517G>A	99639:45535:98965:11084:98964:99638:98966:44057:121041:1318434:121043:121042:1318431:435

											46:1318430:43559:13184
											33:99641:1318432:99640
											:121045:121044
											44466:43787:45288:4425
s00217	chr17:7579470	SNV	C	T	exonic	missense	4	p.Val73Met	c.217G>A	6:46058:96586:46408:46	
										307:1268331:1268332:13	
										86926:1386925:18569	
s00217	chr17:7579394	SNV	G	A	exonic	missense	4	p.Pro98Leu	c.293C>T	235692:44681	
s00217	chr17:7579493	SNV	C	T	exonic	missense	4	p.Arg65Lys	c.194G>A	1159554:1159555:11595	
										53	
s00217	chr17:7579474	SNV	G	A	exonic	synonym ous	4	p.(=)	c.213C>T		
s00217	chr17:7572877	SNV	GG	AG	utr_3		11				
s00217	chr17:7572880	SNV	G	A	utr_3		11				
s00217	chr17:7578441	SNV	G	A	exonic	synonym ous	5	p.(=)	c.489C>T	43820:45411:44391	

s00217	chr17:7578472	SNV	G	A	exonic	missense	5	p.Pro153Leu	c.458C>T	44367:392241:392240:39
										2243:45210:45496:39224
										2:43815:392239
s00219	chr17:7579315	INDEL	GCAAGT	G	exonic	frameshift	4	p.Val122fs	c.365_371delT	1172516:1172515:32671
			CA			Deletion			GACTTG	6:326718:45224:326717:
										1172517:96582
s00221	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A	44324:45787:43896:9972
										9:10779:1645335:164680
										8:1640828:10660:318169
s00221	chr17:7578395	SNV	G	A	exonic	missense	5	p.His179Tyr	c.535C>T	:44701:165077
										707887:129850:44776:12
										9851:326727:326729:435
s00221	chr17:7577595	SNV	C	T	exonic	missense	7	p.Cys229Tyr	c.686G>A	84:326728:45113:170973
										0:10768:44151:129848:3
										26730:129849
s00221	chr17:7577595	SNV	C	T	exonic	missense	7	p.Cys229Tyr	c.686G>A	44313:45974:308323:308

										322:308325:308324
s00221	chr17:7573991	SNV	C	T	exonic	missense	10	p.Glu346Lys	c.1036G>A	46048:1522201:44083
s00221	chr17:7579879	SNV	G	A	exonic	missense	2	p.Pro12Ser	c.34C>T	
s00221	chr17:7579449	SNV	G	A	exonic	missense	4	p.Pro80Ser	c.238C>T	
										254987:10724:1659144:1
s00221	chr17:7577099	SNV	C	T	exonic	missense	8	p.Arg280Lys	c.839G>A	29830:10728:11287:1649
										340:46183:1646813:5623
										40
s00222	chr17:7572905	SNV	GG	GA	utr_3		11			
s00222	chr17:7572919	MNV	GG	AA	utr_3		11			
s00222	chr17:7573930	SNV	G	A	exonic	missense	10	p.Ser366Phe	c.1097C>T	
s00222	chr17:7576872	SNV	C	T	exonic	missense	9	p.Gly325Glu	c.974G>A	46225:46030:44060
s00222	chr17:7577021	SNV	C	T	exonic	missense	8	p.Arg306Gln	c.917G>A	44631:44208
s00222	chr17:7577061	SNV	C	T	exonic	missense	8	p.Gly293Arg	c.877G>A	43890:46165:45417:4420
										7:46261:45713
s00222	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	241995:45116:241996:24

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										21049:984963:1640859:1
										21048:984962:99681:996
										80:1172499:1172498:109
										05:121047:1172500:1210
										46:984959:1172497:1172496
s00222	chr17:7579338	SNV	C	T	exonic	missense	4	p.Gly117Arg	c.349G>A	44914
s00222	chr17:7579400	SNV	G	T	exonic	missense	4	p.Ser96Tyr	c.287C>A	44447:46273
s00222	chr17:7579589	SNV	G	A	exonic	missense	4	p.Ser33Phe	c.98C>T	290545:290546:290547:46247
s00222	chr17:7579883	SNV	G	A	exonic	synonymous	2	p.(=)	c.30C>T	984987:984988:984990:984991
s00222	chr17:7579941	SNV	C	T	splicesite_5		2			
s00223	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	417970:417971:10659:99
										933:43909:1645518:43843:45427

										99936:45866:117157:164
s00225	chr17:7577093	SNV	C	G	exonic	missense	8	p.Arg282Pro	c.845G>C	6815:44470:44306:44338 :43813 707897:707898:326733:7 07899:44754:707900:707
s00225	chr17:7578177	SNV	C	T	exonic	synonymous	6	p.(=)	c.672G>A	901:1649395:44945:4630 8:707896:11451:1646847 :1646846:326732:326731
s00225	chr17:7579412	SNV	G	A	exonic	missense	4	p.Pro92Leu	c.275C>T	45972:46010
s00225	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00227	chr17:7579430	SNV	G	A	exonic	missense	4	p.Ala86Val	c.257C>T	44493
s00227	chr17:7578477	SNV	G	A	exonic	synonymous	5	p.(=)	c.453C>T	43586:45464:45840:4629 7:44749:45594
s00227	chr17:7572930	SNV	G	A	exonic	synonymous	11	p.(=)	c.1179C>T	250076

										44367:392241:392240:39
s00227	chr17:7578472	SNV	G	A	exonic	missense	5	p.Pro153Leu	c.458C>T	2243:45210:45496:39224
										2:43815:392239
s00227	chr17:7576905	SNV	G	A	exonic	missense	9	p.Ser314Phe	c.941C>T	45914
										131475:45456:44865:131
										477:45410:131476:11196
s00227	chr17:7577547	SNV	C	A	exonic	missense	7	p.Gly245Val	c.734G>T	:43606:43965:179807:17
										9806:179805:45043:1640
										832:1646856
										45962:984946:44068:984
s00227	chr17:7578398	SNV	G	A	exonic	missense	5	p.His178Tyr	c.532C>T	949:44120:43581:45071:
										984950:44901
s00227	chr17:7573009	SNV	C	T	splicesite_5	synonymous	11			
s00227	chr17:7576922	SNV	C	A	exonic		9	p.(=)	c.924G>T	45097:45099
s00227	chr17:7577558	SNV	G	T	exonic	synonym	7	p.(=)	c.723C>A	45017:1172469:44158:11

										ous	72466:46004:1172468:11
											72467:44822:43824
s00227	chr17:7579886	SNV	G	T	exonic	missense	2	p.Ser9Arg	c.27C>A		
s00227	chr17:7578182	SNV	G	A	exonic	missense	6	p.Pro223Ser	c.667C>T	45664:44816:45759	
s00228	chr17:7572992	SNV	T	G	exonic	missense	11	p.Lys373Gln	c.1117A>C		
s00228	chr17:7572994	SNV	T	C	exonic	missense	11	p.Lys372Arg	c.1115A>G		
											10733:45657:44111:4596
s00230	chr17:7578275	SNV	G	A	exonic	nonsense	6	p.Gln192Ter	c.574C>T	0:117947:117946:117949	
											:1649390:117948
s00231	chr17:7572876	SNV	G	A	utr_3		11				
s00231	chr17:7572878	SNV	G	A	utr_3		11				
s00231	chr17:7572880	SNV	G	A	utr_3		11				
s00231	chr17:7572917	SNV	G	A	utr_3		11				
s00231	chr17:7572920	SNV	G	A	utr_3		11				
											45874:13747:1610825:53
s00231	chr17:7572962	SNV	G	A	exonic	missense	11	p.Leu383Phe	c.1147C>T	256:307349	

s00231	chr17:7573988	SNV	C	T	exonic	missense	10	p.Ala347Thr	c.1039G>A	1191612:45717
s00231	chr17:7576873	SNV	C	T	exonic	missense	9	p.Gly325Arg	c.973G>A	307331:390782
s00231	chr17:7576904	SNV	G	A	exonic	synonymous	9	p.(=)	c.942C>T	
s00231	chr17:7576905	SNV	G	A	exonic	missense	9	p.Ser314Phe	c.941C>T	45914
s00231	chr17:7576919	SNV	G	A	exonic	synonymous	9	p.(=)	c.927C>T	43948
s00231	chr17:7578376	SNV	C	T	exonic	missense	5	p.Ser185Asn	c.554G>A	45314:44572:46036:46034
s00231	chr17:7578387	SNV	G	A	exonic	synonymous	5	p.(=)	c.543C>T	43728
s00231	chr17:7578388	SNV	C	T	exonic	missense	5	p.Arg181His	c.542G>A	99658:45046:46235:99659:99661:99660:1386799:1386798:1386797:10738:44152:46192:1386800
s00231	chr17:7578390	SNV	C	T	exonic	synonym	5	p.(=)	c.540G>A	323929:44740:45372:323

						ous				932:323931:323930
										99639:45535:98965:1108
										4:98964:99638:98966:44
										057:121041:1318434:121
s00231	chr17:7578413	SNV	C	A	exonic	missense	5	p.Val173Leu	c.517G>T	043:121042:1318431:435
										46:1318430:43559:13184
										33:99641:1318432:99640
										:121045:121044
s00231	chr17:7578441	SNV	G	A	exonic	synonym ous	5	p.(=)	c.489C>T	43820:45411:44391
						synonym ous				44594:44009:44526:4393
										4
										96439:44105:1324768:13
										24767:1324769:44408:13
s00231	chr17:7578483	SNV	G	A	exonic	synonym ous	5	p.(=)	c.447C>T	24771:1324770:45070
										45885:44056:45902
s00231	chr17:7578497	SNV	G	A	exonic	synonym	5	p.(=)	c.433C>T	

ous										
s00231	chr17:7579334	SNV	G	A	exonic	missense	4	p.Thr118Ile	c.353C>T	44990:44051:69197:87583
s00231	chr17:7579390	SNV	G	A	exonic	synonymous	4	p.(=)	c.297C>T	1386880:1386879:1386878
s00231	chr17:7579445	SNV	G	A	exonic	missense	4	p.Thr81Ile	c.242C>T	44200
s00232	chr17:7577022	SNV	G	A	exonic	nonsense	8	p.Arg306Ter	c.916C>T	99947:10663:1640820
s00233	chr17:7576852	SNV	C	A	splicesite_3		9			165065:6918:323936:44295:119021:119022
										220757:220759:220758:46255:44146:44948:220760:45339:45746:44913:45319:1172483:44692:1172480:1324782:1324781:1645227:1172482:1324784:1172481:1324783
s00235	chr17:7578404	SNV	A	G	exonic	missense	5	p.Cys176Arg	c.526T>C	319:1172483:44692:1172480:1324782:1324781:1645227:1172482:1324784:1172481:1324783

s00237	chr17:7577121	SNV	G	A	exonic	missense	8	p.Arg273Cys	c.817C>T	417970:417971:10659:99
										933:43909:1645518:4384
										3:45427
s00239	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A	44324:45787:43896:9972
										9:10779:1645335:164680
										8:1640828:10660:318169
s00240	chr17:7572899	SNV	G	A	utr_3		11			:44701:165077
										44478:1646852:45168:45
										548:45826:10646:251398
s00240	chr17:7577556	SNV	C	T	exonic	missense	7	p.Cys242Tyr	c.725G>A	:1610840:10810:251396:
										251397:11133:129834:16
										10838:129835:1610839:1
s00243	chr17:7572886	SNV	G	A	utr_3		11			29836
s00243	chr17:7572882	SNV	G	A	utr_3		11			
s00243	chr17:7572886	SNV	G	A	utr_3		11			

s00243	chr17:7572891	SNV	G	A	utr_3		11			
s00243	chr17:7572897	SNV	C	T	utr_3		11			
s00243	chr17:7572961	SNV	A	G	exonic	missense	11	p.Leu383Pro	c.1148T>C	
s00243	chr17:7572962	SNV	G	A	exonic	missense	11	p.Leu383Phe	c.1147C>T	45874:13747:1610825:53 256:307349
s00243	chr17:7572979	SNV	G	A	exonic	missense	11	p.Thr377Ile	c.1130C>T	
s00243	chr17:7572984	SNV	C	T	exonic	synonymous	11	p.(=)	c.1125G>A	
s00243	chr17:7572989	SNV	C	T	exonic	missense	11	p.Gly374Ser	c.1120G>A	
s00243	chr17:7573002	SNV	C	T	exonic	synonymous	11	p.(=)	c.1107G>A	
s00243	chr17:7573008	SNV	G	A	exonic	synonymous	11	p.(=)	c.1101C>T	
s00243	chr17:7573973	SNV	C	T	exonic	missense	10	p.Asp352Asn	c.1054G>A	
s00243	chr17:7576881	SNV	G	A	exonic	missense	9	p.Pro322Leu	c.965C>T	44684:45093
s00243	chr17:7576897	SNV	G	A	exonic	nonsense	9	p.Gln317Ter	c.949C>T	165085:44254:6641:1709

										728:10786:43769
s00243	chr17:7576899	SNV	G	A	exonic	missense	9	p.Pro316Leu	c.947C>T	1167892:45544:111397:11396:69194
s00243	chr17:7577021	SNV	C	T	exonic	missense	8	p.Arg306Gln	c.917G>A	44631:44208
s00243	chr17:7577077	SNV	C	T	exonic	synonymous	8	p.(=)	c.861G>A	43776:44077:46366
										44337:1645467:45799:10
s00243	chr17:7577082	SNV	C	T	exonic	missense	8	p.Glu286Lys	c.856G>A	726:1649346:99924:43919:318163:44250:341110:341111:1480057
s00243	chr17:7577110	SNV	G	A	exonic	synonymous	8	p.(=)	c.828C>T	46218:44409
										44423:165075:10769:444
s00243	chr17:7577118	SNV	C	T	exonic	missense	8	p.Val274Ile	c.820G>A	43:43667:1679490:172146
s00243	chr17:7577552	SNV	C	T	exonic	missense	7	p.Met243Ile	c.729G>A	46228:45964:44129

										43564:1522507:44132:17
s00243	chr17:7577573	SNV	G	A	exonic	synonymous	7	p.(=)	c.708C>T	9816:44960:179815:179814:1522505:1522506
										116608:44700:45469:448
s00243	chr17:7578374	SNV	C	T	exonic	missense	5	p.Asp186Asn	c.556G>A	37:116605:116607:116606
										1268359:46249:1268357:1268358:179825:179824:179823:179822:1268360:11114:43734
s00243	chr17:7578402	SNV	G	A	exonic	synonymous	5	p.(=)	c.528C>T	250021:44301:250020:45
										783:45530:250019:250018:250017:44726
s00243	chr17:7578462	SNV	G	A	exonic	synonymous	5	p.(=)	c.468C>T	45018:10790:1645282:17
										1825:45505:44613:171824:171823:171822:129856
s00243	chr17:7578475	SNV	G	A	exonic	missense	5	p.Pro152Leu	c.455C>T	

										:129857:129858:129859
s00243	chr17:7578495	SNV	C	T	exonic	synonymous	5	p.(=)	c.435G>A	45621:45994:46262
s00243	chr17:7578505	SNV	G	A	exonic	missense	5	p.Pro142Leu	c.425C>T	43583:45022:43942
s00243	chr17:7579327	SNV	C	T	exonic	synonymous	4	p.(=)	c.360G>A	45798
s00243	chr17:7579436	SNV	G	A	exonic	missense	4	p.Ala84Val	c.251C>T	45646:674147:44194:44075
s00243	chr17:7579439	SNV	G	A	exonic	missense	4	p.Ala83Val	c.248C>T	251372:251370:251371:44938
s00243	chr17:7579495	SNV	G	A	exonic	synonymous	4	p.(=)	c.192C>T	10827:1664640:1664641:
s00243	chr17:7579503	SNV	C	T	exonic	missense	4	p.Glu62Lys	c.184G>A	116689:116688:1664642:116690
s00243	chr17:7579852	SNV	C	T	exonic	missense	2	p.Asp21Asn	c.61G>A	

s00243	chr17:7579876	SNV	G	A	exonic	missense	2	p.Pro13Ser	c.37C>T	
s00243	chr17:7579877	SNV	G	A	exonic	synonymous	2	p.(=)	c.36C>T	220768:220767:220769:1152:146343:45857:9658
s00247	chr17:7577581	SNV	A	C	exonic	missense	7	p.Tyr234Asp	c.700T>G	0:146342:43768:43956:146344:238604:46111:238606:23860544445:111635:45631:111637:43648:44549:111636:1637326:1637325:1637324:1637323:44360:44271:450921646862:212111:212254:212112:212255:45034:44476:44609:10771
s00249	chr17:7577593	INDEL	TAC	T	exonic	frameshift Deletion	7	p.Cys229fs	c.686_687del GT	
s00250	chr17:7577532	SNV	G	A	exonic	missense	7	p.Pro250Leu	c.749C>T	

[illegible]

										79510:1679511:10718:16
										79512:1640851
										437480:43565:288255:45
s00261	chr17:7577081	SNV	T	G	exonic	missense	8	p.Glu286Ala	c.857A>C	277:45892:46132:43936:
										45681:251425
										11073:44906:99721:3061
										01:306102
s00264	chr17:7574003	SNV	G	A	exonic	nonsense	10	p.Arg342Ter	c.1024C>T	1324786:214222:132478
										5:45049:1324788:214224
										:1324787:214223:163042
										8:1630429:1324789:1645
s00266	chr17:7578394	SNV	T	C	exonic	missense	5	p.His179Arg	c.536A>G	241:45520:1630425:1630
										426:1630427:44218:4363
										5:10889:129844:129845:
										129846:129847:214225
s00269	chr17:7577570	SNV	C	T	exonic	missense	7	p.Met237Ile	c.711G>A	301402:301403:11063:99

[illegible]

[illegible]

s00277	chr17:7578554	SNV	A	G	exonic	missense	5	p.Tyr126His	c.376T>C	1522494:1522495:15224
										96:44230:11323
										45364:45795:220782:148
										0084:220784:1480086:22
										0783:1480085:44380:43900
s00278	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	44455:99914:99023:9902
										2:45416:45936:1679508:
										99024:1679509:10648:1679510:1679511:10718:1679512:1640851
s00278	chr17:7572914	SNV	G	A	utr_3		11			
s00278	chr17:7572919	SNV	G	A	utr_3		11			
s00278	chr17:7573965	SNV	C	T	exonic	synonymous	10	p.(=)	c.1062G>A	
s00278	chr17:7579466	SNV	G	A	exonic	missense	4	p.Ala74Val	c.221C>T	43671:46350

										1386820:48943:1386819:
s00278	chr17:7578471	SNV	G	A	exonic	synonymous	5	p.(=)	c.459C>T	1386818:1386817:43964:44416
s00278	chr17:7578185	SNV	G	A	exonic	missense	6	p.Pro222Ser	c.664C>T	45133:44970:46254:43607
s00279	chr17:7572928	SNV	C	T	exonic	synonymous	11	p.(=)	c.1181G>A	
s00279	chr17:7573945	SNV	C	T	exonic	missense	10	p.Gly361Glu	c.1082G>A	1709727:1709726
s00279	chr17:7576894	SNV	G	A	exonic	missense	9	p.Pro318Ser	c.952C>T	43887
s00279	chr17:7577532	SNV	G	A	exonic	missense	7	p.Pro250Leu	c.749C>T	1646862:212111:212254:212112:212255:45034:44476:44609:10771
s00279	chr17:7579353	SNV	C	T	exonic	missense	4	p.Gly112Ser	c.334G>A	48980:44989
s00279	chr17:7579869	SNV	C	T	exonic	missense	2	p.Ser15Asn	c.44G>A	
s00279	chr17:7579941	SNV	C	T	splicesite_5		2			
s00281	chr17:7572896	SNV	G	A	utr_3		11			

s00281	chr17:7572934	SNV	G	A	exonic	missense	11	p.Ser392Leu	c.1175C>T	46251
s00281	chr17:7572941	SNV	G	A	exonic	missense	11	p.Pro390Ser	c.1168C>T	
s00281	chr17:7573947	SNV	C	T	exonic	synonymous	10	p.(=)	c.1080G>A	
s00281	chr17:7573959	SNV	C	T	exonic	synonymous	10	p.(=)	c.1068G>A	
s00281	chr17:7573961	SNV	C	T	exonic	missense	10	p.Gly356Arg	c.1066G>A	44830
s00281	chr17:7576893	SNV	G	A	exonic	missense	9	p.Pro318Leu	c.953C>T	
s00281	chr17:7576894	SNV	G	A	exonic	missense	9	p.Pro318Ser	c.952C>T	43887
										1386601:44401:44819:44
s00281	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	486:44480:43707:44614:
										1386602
										287981:1386645:138664
s00281	chr17:7577588	SNV	G	A	exonic	synonymous	7	p.(=)	c.693C>T	4:1386643:287983:28798
										2:46379:44113
s00281	chr17:7578177	SNV	C	T	exonic	synonym	6	p.(=)	c.672G>A	707897:707898:326733:7

						ous				07899:44754:707900:707
										901:1649395:44945:4630
										8:707896:11451:1646847
										:1646846:326732:326731
s00281	chr17:7578198	SNV	C	T	exonic	synonym ous	6	p.(=)	c.651G>A	45922
s00281	chr17:7578203	SNV	C	T	exonic	missense	6	p.Val216Met	c.646G>A	45415:45216:46387:1386
										670:120095:1644280:120
										096:120097:44528:10667
										:120098:1386671:11210: 1386669:45062:1386668
s00281	chr17:7578441	SNV	G	A	exonic	synonym ous	5	p.(=)	c.489C>T	43820:45411:44391
s00281	chr17:7578459	SNV	G	A	exonic	synonym ous	5	p.(=)	c.471C>T	44594:44009:44526:4393 4
s00281	chr17:7578521	SNV	G	A	exonic	synonym	5	p.(=)	c.409C>T	46080:44696:46101:4583

s00281	chr17:7578550	SNV	G	A	exonic	ous	5	p.Ser127Phe	c.380C>T	4:45183:44182
										216412:216413:562620:4
										4226:1637542:1649368:4
										3970:45619:45483:56261
										9:562618:216414
s00281	chr17:7579449	SNV	G	A	exonic	missense	4	p.Pro80Ser	c.238C>T	
s00282	chr17:7572880	SNV	G	A	utr_3		11			
s00282	chr17:7576902	SNV	G	A	exonic	missense	9	p.Ser315Phe	c.944C>T	45098
s00282	chr17:7576905	SNV	G	A	exonic	missense	9	p.Ser314Phe	c.941C>T	45914
s00282	chr17:7577058	SNV	C	T	exonic	missense	8	p.Glu294Lys	c.880G>A	10856:44127:126981:442
										73:45824
s00282	chr17:7577101	SNV	C	T	exonic	synonym	8	p.(=)	c.837G>A	45624:44941:44245:4628
						ous				4
s00282	chr17:7577510	SNV	C	T	exonic	synonym	7	p.(=)	c.771G>A	45105:1386604:1386603
						ous				
s00282	chr17:7577559	SNV	G	A	exonic	missense	7	p.Ser241Phe	c.722C>T	1649402:45117:437503:1

											0709:214170:214172:214
											171:43645:10812:10935:
											45250:1230110:437501:1
											230111:437502:1230112
s00282	chr17:7577576	SNV	G	A	exonic	synonymous	7	p.(=)	c.705C>T		46039:45975:45854:4565 6:44181
											44853:126984:126983:12
s00282	chr17:7578188	SNV	C	A	exonic	nonsense	6	p.Glu221Ter	c.661G>T		6982:44817:45582:44107 :1646845
											707887:129850:44776:12
											9851:326727:326729:435
s00282	chr17:7578395	SNV	G	A	exonic	missense	5	p.His179Tyr	c.535C>T		84:326728:45113:170973 0:10768:44151:129848:3
											26730:129849
											45853:45541:46256:4438
s00282	chr17:7578420	SNV	C	A	exonic	synonymous	5	p.(=)	c.510G>T		4:1386804:1386803:1386

s00282	chr17:7578465	SNV	G	A	exonic	synonymous	5	p.(=)	c.465C>T	802:1386801
										44543:437580:437581:43
										7582:43670:44619:43757
										9:46085
s00282	chr17:7578488	SNV	C	T	exonic	missense	5	p.Asp148Asn	c.442G>A	44359:45056:46341:4404
										3:44778:95383:45913
s00282	chr17:7579325	SNV	G	A	exonic	missense	4	p.Ser121Phe	c.362C>T	44027:45569
s00282	chr17:7579377	SNV	G	A	exonic	nonsense	4	p.Gln104Ter	c.310C>T	308172:308171:10886:44
										813
s00282	chr17:7579474	SNV	G	A	exonic	synonymous	4	p.(=)	c.213C>T	
s00283	chr17:7572983	SNV	A	G	exonic	missense	11	p.Ser376Pro	c.1126T>C	1386546:45566:45591:13
										86547
s00283	chr17:7572984	SNV	C	T	exonic	synonymous	11	p.(=)	c.1125G>A	
s00283	chr17:7578263	SNV	G	A	exonic	nonsense	6	p.Arg196Ter	c.586C>T	1640847:46403:10705:99

										668:99665:99667:45021:
										99666:44615
										44348:99925:45843:9993
s00284	chr17:7577094	SNV	G	A	exonic	missense	8	p.Arg282Trp	c.844C>T	4:45521:43585:45872:45 816:44437:1636702:1070 4:44918:10992
s00289	chr17:7572917	SNV	G	A	utr_3		11			
s00289	chr17:7576875	SNV	T	C	exonic	missense	9	p.Asp324Gly	c.971A>G	45761:235696
s00289	chr17:7576907	SNV	G	A	exonic	synonymous	9	p.(=)	c.939C>T	
s00289	chr17:7578194	SNV	G	A	exonic	missense	6	p.Pro219Ser	c.655C>T	44854:6496:45146:44607 :46342:44076 326722:46389:46269:114
s00289	chr17:7578205	SNV	C	T	exonic	missense	6	p.Ser215Asn	c.644G>A	50:326719:46406:308330 :308327:308329:44175:3 08328:326721:326720:44

										093
										44455:99914:99023:9902
										2:45416:45936:1679508:
s00289	chr17:7578406	SNV	C	T	exonic	missense	5	p.Arg175His	c.524G>A	99024:1679509:10648:16
										79510:1679511:10718:16
										79512:1640851
s00289	chr17:7578477	SNV	G	A	exonic	synonymous	5	p.(=)	c.453C>T	43586:45464:45840:4629
										7:44749:45594
s00289	chr17:7579396	SNV	G	A	exonic	synonymous	4	p.(=)	c.291C>T	473437:473436:473435
s00289	chr17:7579454	SNV	G	A	exonic	missense	4	p.Ala78Val	c.233C>T	45200
s00289	chr17:7579845	SNV	C	T	exonic	nonsense	2	p.Trp23Ter	c.68G>A	
s00290	chr17:7572853	SNV	C	T	utr_3		11			
s00290	chr17:7572877	SNV	G	A	utr_3		11			
s00290	chr17:7572908	SNV	G	A	utr_3		11			
s00290	chr17:7572951	SNV	C	T	exonic	synonym	11	p.(=)	c.1158G>A	

ous										
s00290	chr17:7572976	SNV	G	A	exonic	missense	11	p.Ser378Phe	c.1133C>T	
s00290	chr17:7572986	SNV	G	A	exonic	nonsense	11	p.Gln375Ter	c.1123C>T	307348:1303396
s00290	chr17:7573991	SNV	C	T	exonic	missense	10	p.Glu346Lys	c.1036G>A	46048:1522201:44083
s00290	chr17:7576859	SNV	G	A	exonic	synonym ous	9	p.(=)	c.987C>T	45765:142996:142995:46 113
s00290	chr17:7576903	SNV	A	G	exonic	missense	9	p.Ser315Pro	c.943T>C	1386579:46110:44373
s00290	chr17:7576907	SNV	G	A	exonic	synonym ous	9	p.(=)	c.939C>T	
s00290	chr17:7576913	SNV	G	A	exonic	synonym ous	9	p.(=)	c.933C>T	46472
s00290	chr17:7576920	SNV	G	A	exonic	missense	9	p.Pro309Leu	c.926C>T	45616
s00290	chr17:7577049	SNV	G	A	exonic	missense	8	p.His297Tyr	c.889C>T	45693:45494:45803
s00290	chr17:7577102	SNV	C	T	exonic	missense	8	p.Gly279Glu	c.836G>A	1172459:96573:99732:46 032:1172460:43714
s00290	chr17:7577157	SNV	T	G	splicesite_5		8			1230105:45132:45956:13

										744
s00290	chr17:7577546	SNV	G	A	exonic	synonym	7	p.(=)	c.735C>T	44642:1610832:1610833:
						ous				1610834:45053:45770:44
										900:43854:45094:46072
s00290	chr17:7577592	SNV	G	A	exonic	missense	7	p.Thr230Ile	c.689C>T	44223:45157:43806:43868
s00290	chr17:7577597	SNV	G	A	exonic	synonym	7	p.(=)	c.684C>T	45028:45434:43853:46075
						ous				
s00290	chr17:7578453	SNV	G	A	exonic	synonym	5	p.(=)	c.477C>T	46092:43831:215726:215
						ous				725:87652:44130:44490:
										215724:215723
s00290	chr17:7578471	SNV	G	A	exonic	synonym	5	p.(=)	c.459C>T	1386820:48943:1386819:
						ous				1386818:1386817:43964:
										44416
s00290	chr17:7578473	SNV	G	A	exonic	missense	5	p.Pro153Ser	c.457C>T	1640858:45886:43675:45899:1640856:45821:1640

										857:44958:45660:164085
										4:1640855:45911
										45567:1610864:1610865:
s00290	chr17:7578519	SNV	C	T	exonic	synonymous	5	p.(=)	c.411G>A	1610866:1610867:1610868:45993:44649
s00290	chr17:7578521	SNV	G	A	exonic	synonymous	5	p.(=)	c.409C>T	46080:44696:46101:45834:45183:44182
										216412:216413:562620:4
s00290	chr17:7578550	SNV	G	A	exonic	missense	5	p.Ser127Phe	c.380C>T	4226:1637542:1649368:43970:45619:45483:562619:562618:216414
s00290	chr17:7579319	SNV	G	A	exonic	missense	4	p.Thr123Ile	c.368C>T	44188
s00290	chr17:7579356	SNV	G	A	exonic	synonymous	4	p.(=)	c.331C>T	45482:43790:45218
s00290	chr17:7579422	SNV	G	A	exonic	missense	4	p.Pro89Ser	c.265C>T	43688:46047:44559:69021

										1386920:1386919:13869
s00290	chr17:7579451	SNV	G	A	exonic	missense	4	p.Ala79Val	c.236C>T	18:1386917:45590:1386921
s00290	chr17:7579476	SNV	G	A	exonic	missense	4	p.Pro71Ser	c.211C>T	44840:46337
s00290	chr17:7579579	SNV	C	T	exonic	synonymous	4	p.(=)	c.108G>A	53250
s00290	chr17:7579854	SNV	G	A	exonic	missense	2	p.Ser20Leu	c.59C>T	
s00290	chr17:7579906	SNV	C	T	exonic	missense	2	p.Glu3Lys	c.7G>A	
s00290	chr17:7579907	SNV	C	T	exonic	synonymous	2	p.(=)	c.6G>A	
s00290	chr17:7579936	SNV	G	A	utr_5		2			
										562651:11081:562653:562652:45398:131039:1210
s00291	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	37:10957:121036:1610835:121035:1610836:1610837:6932:1646855:131042

										:1640833:131041:131040
										44645:99669:1649384:99
										672:99671:44759:117396
s00292	chr17:7578403	SNV	C	A	exonic	missense	5	p.Cys176Phe	c.527G>T	:10645:117395:117398:9 9670:117397:1640850:10 687
s00293	chr17:7579362	SNV	A	C	exonic	missense	4	p.Phe109Val	c.325T>G	1386864:1386863:13868 62:13119:48817
s00295	chr17:7578464	SNV	G	A	exonic	missense	5	p.Arg156Cys	c.466C>T	45775:45466:46124:4515 4:43744
										1640858:45886:43675:45
s00297	chr17:7578473	SNV	G	A	exonic	missense	5	p.Pro153Ser	c.457C>T	899:1640856:45821:1640 857:44958:45660:164085 4:1640855:45911
s00297	chr17:7578476	SNV	G	A	exonic	missense	5	p.Pro152Ser	c.454C>T	43894:44788:43582:4456 1:46364

										562651:11081:562653:56
										2652:45398:131039:1210
s00298	chr17:7577548	SNV	C	T	exonic	missense	7	p.Gly245Ser	c.733G>A	37:10957:121036:161083 5:121035:1610836:16108 37:6932:1646855:131042 :1640833:131041:131040 43687:1640845:1640846: 307281:307280:307282:1
s00299	chr17:7578208	SNV	T	C	exonic	missense	6	p.His214Arg	c.641A>G	640840:44372:1640843:1 640844:1640841:164084 2:307279
s00300	chr17:7572996	SNV	G	A	exonic	synonymous	11	p.(=)	c.1113C>T	
s00300	chr17:7577128	SNV	A	C	exonic	missense	8	p.Phe270Leu	c.810T>G	44156:45297
s00303	chr17:7577120	SNV	C	T	exonic	missense	8	p.Arg273His	c.818G>A	44324:45787:43896:9972 9:10779:1645335:164680

										8:1640828:10660:318169
										:44701:165077
s00304	chr17:7572868	SNV	G	A	utr_3		11			
s00304	chr17:7572877	SNV	G	A	utr_3		11			
s00304	chr17:7572891	SNV	G	A	utr_3		11			
										241995:45116:241996:24
										1994:99602:11491:99021
s00306	chr17:7577538	SNV	C	T	exonic	missense	7	p.Arg248Gln	c.743G>A	:340106:99020:340107:1
										646858:10662:6549:3401
										05:1640830:1646857
s00307	chr17:7577119	MNV	AC	TG	exonic	missense	8	p.Arg273Pro	c.818_819del GTinsCA	44440:45283:304199:304 198:44858
s00308	chr17:7577119	MNV	AC	TG	exonic	missense	8	p.Arg273Pro	c.818_819del GTinsCA	44440:45283:304199:304 198:44858
s00309	chr17:7572891	SNV	G	A	utr_3		11			
s00309	chr17:7572893	SNV	G	A	utr_3		11			

s00309	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00309	chr17:7572986	SNV	G	A	exonic	nonsense	11	p.Gln375Ter	c.1123C>T	307348:1303396
s00309	chr17:7573948	SNV	C	T	exonic	missense	10	p.Gly360Glu	c.1079G>A	
s00309	chr17:7573977	SNV	G	A	exonic	synonymous	10	p.(=)	c.1050C>T	307337
s00309	chr17:7573986	SNV	G	A	exonic	synonymous	10	p.(=)	c.1041C>T	99752:99751
s00309	chr17:7573991	SNV	C	T	exonic	missense	10	p.Glu346Lys	c.1036G>A	46048:1522201:44083
s00309	chr17:7574013	SNV	G	A	exonic	synonymous	10	p.(=)	c.1014C>T	45126
s00309	chr17:7576853	SNV	C	T	exonic	synonymous	9	p.(=)	c.993G>A	96339:1158345:44710:45 486:46104:179803:17980 2:369655:1646823
s00309	chr17:7576900	SNV	G	A	exonic	missense	9	p.Pro316Ser	c.946C>T	
s00309	chr17:7576920	SNV	G	A	exonic	missense	9	p.Pro309Leu	c.926C>T	45616

										1386601:44401:44819:44
s00309	chr17:7577502	SNV	G	A	exonic	missense	7	p.Ser260Phe	c.779C>T	486:44480:43707:44614:
										1386602
s00309	chr17:7577528	SNV	G	A	exonic	synonymous	7	p.(=)	c.753C>T	44511:44664:44497:45630:46121
										318162:318161:318160:46018:46279:45266:318159:45829:43689:1522493:1522494:1522495:1522496:44230:11323
s00309	chr17:7578448	SNV	G	A	exonic	missense	5	p.Ala161Val	c.482C>T	318151:45019:45551:318154:318153:45059:11087:318152:43848:984954:984956:984958:984957
s00309	chr17:7578458	SNV	G	A	exonic	missense	5	p.Arg158Cys	c.472C>T	45018:10790:1645282:171825:45505:44613:17182

										4:171823:171822:129856
										:129857:129858:129859
s00309	chr17:7578481	SNV	G	A	exonic	missense	5	p.Thr150Ile	c.449C>T	44038:45139:45563
										44500:45347:1163647:11
s00309	chr17:7578484	SNV	G	A	exonic	missense	5	p.Ser149Phe	c.446C>T	63646:1163645:44099:11
										63644
s00309	chr17:7578540	SNV	G	A	exonic	synonymous	5	p.(=)	c.390C>T	45206:49016:45077
										1172516:1172515:32671
s00309	chr17:7579315	SNV	G	A	exonic	synonymous	4	p.(=)	c.372C>T	6:326718:45224:326717:
										1172517:96582
s00309	chr17:7579337	MNV	CC	TT	exonic	missense	4	p.Gly117Lys	c.349_350del GGinsAA	44115
s00309	chr17:7579365	SNV	C	T	exonic	missense	4	p.Gly108Ser	c.322G>A	44037:45201:1386869:13
										86868:46173:1386867
s00309	chr17:7579373	SNV	C	T	exonic	missense	4	p.Gly105Asp	c.314G>A	45997:562613:1649366:5

										62614:46161:42812
s00309	chr17:7579396	SNV	G	A	exonic	synonymous	4	p.(=)	c.291C>T	473437:473436:473435
										251376:46349:251377:25
s00309	chr17:7579419	SNV	AGGG	AGGA	exonic	missense	4	p.Pro89Ser	c.265C>T	1378:18610:1180853:118
										0854:46155:1268330:460
										63
s00309	chr17:7579427	SNV	G	A	exonic	missense	4	p.Pro87Leu	c.260C>T	43544
s00309	chr17:7579442	SNV	G	A	exonic	missense	4	p.Pro82Leu	c.245C>T	303859:43910:303860
s00309	chr17:7579473	SNV	G	A	exonic	missense	4	p.Pro72Ser	c.214C>T	45335:44018
s00309	chr17:7579487	SNV	G	A	exonic	missense	4	p.Pro67Leu	c.200C>T	44939:46097
s00309	chr17:7579488	SNV	G	A	exonic	missense	4	p.Pro67Ser	c.199C>T	44199
s00309	chr17:7579882	SNV	C	T	exonic	missense	2	p.Glu11Lys	c.31G>A	327261:11606:327260:32
										7259
s00309	chr17:7579934	SNV	C	T	utr_5		2			
s00310	chr17:7576902	SNV	G	A	exonic	missense	9	p.Ser315Phe	c.944C>T	45098

s00310	chr17:7576916	SNV	G	A	exonic	synonymous	9	p.(=)	c.930C>T	45100
s00310	chr17:7576897	SNV	G	A	exonic	nonsense	9	p.Gln317Ter	c.949C>T	165085:44254:6641:1709728:10786:43769
s00310	chr17:7578374	SNV	C	T	exonic	missense	5	p.Asp186Asn	c.556G>A	116608:44700:45469:44837:116605:116607:116606
s00310	chr17:7572936	SNV	G	A	exonic	synonymous	11	p.(=)	c.1173C>T	
s00310	chr17:7573955	SNV	C	T	exonic	missense	10	p.Glu358Lys	c.1072G>A	
s00311	chr17:7572903	SNV	G	A	utr_3		11			
s00311	chr17:7572907	SNV	G	A	utr_3		11			
s00311	chr17:7573946	SNV	C	T	exonic	missense	10	p.Gly361Arg	c.1081G>A	
s00311	chr17:7577156	SNV	C	G	splicesite_5		8			6913:127199:254989:45390:1646865:44604
s00311	chr17:7577519	SNV	G	A	exonic	synonym	7	p.(=)	c.762C>T	1386609:1386608:46276:

										1386607
										69179:1645297:116922:1
										16921:44509:116924:116
s00311	chr17:7578265	SNV	A	G	exonic	missense	6	p.Ile195Thr	c.584T>C	923:44877:44539:45429:
										11089:212744:212745:21
										2746:212747
s00311	chr17:7579410	SNV	G	A	exonic	synonym ous	4	p.(=)	c.277C>T	1564165:43812:1564164:
										1564163
s00311	chr17:7579418	SNV	G	A	exonic	missense	4	p.Ser90Phe	c.269C>T	44444:46099
s00311	chr17:7579496	SNV	G	A	exonic	missense	4	p.Pro64Leu	c.191C>T	
s00311	chr17:7579867	SNV	G	A	exonic	nonsense	2	p.Gln16Ter	c.46C>T	
s00313	chr17:7572887	SNV	G	A	utr_3		11			
s00313	chr17:7572891	SNV	G	A	utr_3		11			
s00313	chr17:7572903	SNV	G	A	utr_3		11			
s00313	chr17:7572943	SNV	C	A	exonic	missense	11	p.Gly389Val	c.1166G>T	
s00313	chr17:7573968	SNV	G	A	exonic	synonym	10	p.(=)	c.1059C>T	

s00313	chr17:7574031	SNV	G	A	exonic	synonymous	10	p.(=)	c.996C>T	
s00313	chr17:7576917	SNV	T	C	exonic	missense	9	p.Asn310Ser	c.929A>G	45088:96591:45408
s00313	chr17:7577027	SNV	G	A	exonic	missense	8	p.Thr304Ile	c.911C>T	45128:45262:44417
s00313	chr17:7577079	SNV	C	T	exonic	missense	8	p.Glu287Lys	c.859G>A	44225:214243:1646819:44133
s00313	chr17:7577083	SNV	C	T	exonic	synonymous	8	p.(=)	c.855G>A	44709
s00313	chr17:7578192	SNV	G	A	exonic	synonymous	6	p.(=)	c.657C>T	1386667:1386666:13866
s00313	chr17:7578433	SNV	G	A	exonic	missense	5	p.Ser166Leu	c.497C>T	65:44689:44799:1386664:1386663:45023:44471:44467:369077:369075:369076:44289:1386809:43932:369074:1649382:1386810:11508:46363:138681

										2:1386811
s00313	chr17:7578488	SNV	C	T	exonic	missense	5	p.Asp148Asn	c.442G>A	44359:45056:46341:4404 3:44778:95383:45913
s00313	chr17:7578498	SNV	C	T	exonic	synonymous	5	p.(=)	c.432G>A	45733:1522486:1522487: 45961:1522485:1522488: 45076:45869
s00313	chr17:7579381	SNV	G	A	exonic	synonymous	4	p.(=)	c.306C>T	
s00313	chr17:7579390	SNV	G	A	exonic	synonymous	4	p.(=)	c.297C>T	1386880:1386879:13868 78
s00313	chr17:7579460	SNV	G	A	exonic	missense	4	p.Ala76Val	c.227C>T	43685
s00313	chr17:7579463	SNV	G	A	exonic	missense	4	p.Pro75Leu	c.224C>T	46265
s00313	chr17:7579471	SNV	G	A	exonic	synonymous	4	p.(=)	c.216C>T	
s00313	chr17:7579475	SNV	G	A	exonic	missense	4	p.Pro71Leu	c.212C>T	111575:111574:111573
s00313	chr17:7579504	SNV	A	G	exonic	synonym	4	p.(=)	c.183T>C	984979:984980:984982

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s00314	chr17:7572885	SNV	G	A	utr_3		11			
s00314	chr17:7572908	SNV	G	A	utr_3		11			
s00314	chr17:7572940	SNV	G	A	exonic	missense	11	p.Pro390Leu	c.1169C>T	
s00314	chr17:7576860	SNV	G	A	exonic	missense	9	p.Thr329Ile	c.986C>T	87515:46146
s00314	chr17:7576882	SNV	G	A	exonic	missense	9	p.Pro322Ser	c.964C>T	44863:44876:131017:131018
s00314	chr17:7576899	SNV	G	A	exonic	missense	9	p.Pro316Leu	c.947C>T	1167892:45544:111397:111396:69194
s00314	chr17:7579417	SNV	G	A	exonic	synonymous	4	p.(=)	c.270C>T	
s00314	chr17:7579485	SNV	C	T	exonic	missense	4	p.Glu68Lys	c.202G>A	45214:131522:131521:44917:11513:1646879
s00314	chr17:7579871	SNV	C	T	exonic	synonymous	2	p.(=)	c.42G>A	
s00314	chr17:7579924	SNV	G	A	utr_5		2			

s00314	chr17:7579928	MNV	GG	AA	utr_5		2			45500:53251:1386892:45
s00315	chr17:7579406	SNV	G	A	exonic	missense	4	p.Ser94Leu	c.281C>T	653:1386891:45041:4518 2 10733:45657:44111:4596
s00315	chr17:7578275	SNV	G	A	exonic	nonsense	6	p.Gln192Ter	c.574C>T	0:117947:117946:117949 :1649390:117948 44202:44029:43797:1650
s00315	chr17:7578380	SNV	C	T	exonic	missense	5	p.Asp184Asn	c.550G>A	81:165080:165079:16507 8 1386667:1386666:13866
s00315	chr17:7578192	SNV	G	A	exonic	synonymous	6	p.(=)	c.657C>T	65:44689:44799:1386664 :1386663:45023:44471