

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202120

Species: Human Mouse Rat Monkey (Rh) Guinea Pig Porcine
 Bovine Hamster Dog Monkey (Cy) Rabbit Plant

Tissue Type: Normal Adult Fetal Tumor Disease Cell line

Tissue Name: Lung

Donor Information:

Male: _____ year(s) old
Female: 56 year(s) old

Pathological Diagnosis: Adenocarcinoma

Tumor Size: diameter 5.5 cm

Location: left upper lobe

Components:

1. 5 curls per package
2. Certificate of Analysis

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY: _____



35 Genes Targeted

AKT1	FGFR2	MAP2K1
ALK	FGFR3	MAP2K2
AR	GNA11	MET
BRAF	GNAQ	MTOR
CDK4	HRAS	NRAS
CTNNB1	IDH1	PDGFRA
DDR2	IDH2	PIK3CA
EGFR	JAK1	RAF1
ERBB2	JAK2	RET
ERBB3	JAK3	ROS1
ERBB4	KIT	SMO
ESR1	KRAS	

Details of Variants

Column Header	Definition
Gene ID	The Gene symbol for the gene located at this position
Chrom	The chromosome where the target region is located
Position	The genomic position of the variant in the build of the genome database
Ref	The reference allele of the variation
Variant	The alternate allele of the variation
Allele Call	The type of variation, either heterozygous or homozygous
Frequency	The percentage of reads for the sample that includes the variant
Quality	The quality score of the variant
Type	The variant type, which can be SNP, MNP, Ins, Del, and Complex
Allele Source	Listed as Hotspot for alleles found within the hotspots sequencing file and Novel for all other alleles
Coverage	The number of reads that cover the region
Allele Name	The allele name that is defined within the hotspots sequencing file (if Novel allele, then there is no name)

C202120

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174382	C	T	Heterozygous	1.5	39	SNP	Novel	2533	---
MTOR	chr1	11174411	C	T	Heterozygous	1.9	75	SNP	Novel	2504	---
MTOR	chr1	11174415	G	T	Heterozygous	1.1	16	SNP	Novel	2543	---
MTOR	chr1	11174426	C	T	Heterozygous	2	90	SNP	Novel	2540	---
MTOR	chr1	11174428	G	A	Heterozygous	1	11	SNP	Novel	2540	---
MTOR	chr1	11174442	C	T	Heterozygous	2	86	SNP	Novel	2537	---
MTOR	chr1	11174444	T	C	Heterozygous	1.1	16	SNP	Novel	2541	---
MTOR	chr1	11174445	G	A	Heterozygous	1.6	44	SNP	Novel	2551	---
MTOR	chr1	11174453	G	A	Heterozygous	1.6	51	SNP	Novel	2553	---
MTOR	chr1	11174457	C	T	Heterozygous	2	85	SNP	Novel	2553	---
MTOR	chr1	11174472	G	A	Heterozygous	1.6	46	SNP	Novel	2545	---
MTOR	chr1	11174474	G	A	Heterozygous	1.6	48	SNP	Novel	2545	---
MTOR	chr1	11174475	G	A	Heterozygous	2	81	SNP	Novel	2543	---
MTOR	chr1	11174487	G	A	Heterozygous	2	86	SNP	Novel	2521	---
MTOR	chr1	11184549	G	A	Heterozygous	2.2	88	SNP	Novel	1989	---
MTOR	chr1	11184573	G	A	Heterozygous	2.3	96	SNP	Hotspot	2003	COSM1686998
MTOR	chr1	11184615	A	G	Heterozygous	1.9	60	SNP	Novel	2010	---
MTOR	chr1	11184616	G	A	Heterozygous	2.3	95	SNP	Novel	2010	---
MTOR	chr1	11184623	C	T	Heterozygous	2.3	100	SNP	Novel	2009	---
MTOR	chr1	11184637	G	A	Heterozygous	2.9	159	SNP	Novel	2011	---
MTOR	chr1	11184646	C	T	Heterozygous	1.9	61	SNP	Novel	2009	---
MTOR	chr1	11184649	C	T	Heterozygous	2.4	110	SNP	Novel	2007	---
MTOR	chr1	11184652	G	A	Heterozygous	2.5	116	SNP	Novel	2006	---
MTOR	chr1	11188013	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MTOR	chr1	11188021	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
MTOR	chr1	11188025	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
MTOR	chr1	11188027	G	A	Heterozygous	1.2	25	SNP	Novel	3997	---
MTOR	chr1	11188041	C	T	Heterozygous	1.1	200	SNP	Novel	3970	---
MTOR	chr1	11188054	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---
MTOR	chr1	11188057	C	T	Heterozygous	0.8	15	SNP	Novel	3986	---
MTOR	chr1	11188060	C	T	Heterozygous	1.3	34	SNP	Novel	3999	---
MTOR	chr1	11188081	G	A	Heterozygous	1.2	26	SNP	Novel	3975	---
MTOR	chr1	11188089	C	T	Heterozygous	2	130	SNP	Novel	4000	---
MTOR	chr1	11188158	G	A	Heterozygous	1.7	36	SNP	Novel	1562	---
MTOR	chr1	11188178	G	A	Heterozygous	2.1	105	SNP	Novel	1568	---

MTOR	chr1	11188181	G	A	Heterozygous	1.3	17	SNP	Novel	1571	---
MTOR	chr1	11188190	G	A	Heterozygous	0.9	24	SNP	Novel	1566	---
MTOR	chr1	11188198	G	A	Heterozygous	1.4	22	SNP	Novel	1588	---
MTOR	chr1	11188216	G	A	Heterozygous	1.6	34	SNP	Novel	1584	---
MTOR	chr1	11188224	G	A	Heterozygous	2.2	72	SNP	Novel	1586	---
MTOR	chr1	11188227	T	C	Heterozygous	1.3	19	SNP	Novel	1576	---
MTOR	chr1	11188236	G	A	Heterozygous	2.6	102	SNP	Novel	1584	---
MTOR	chr1	11188244	G	A	Heterozygous	3.4	178	SNP	Novel	1585	---
MTOR	chr1	11188255	A	T	Heterozygous	2.2	69	SNP	Novel	1579	---
MTOR	chr1	11188272	G	A	Heterozygous	1.8	45	SNP	Novel	1517	---
MTOR	chr1	11188279	G	A	Heterozygous	1.4	21	SNP	Novel	1528	---
MTOR	chr1	11188281	G	A	Heterozygous	2.9	123	SNP	Novel	1525	---
MTOR	chr1	11189778	C	T	Heterozygous	4.3	319	SNP	Novel	1837	---
MTOR	chr1	11189783	C	T	Heterozygous	1.9	53	SNP	Novel	1828	---
MTOR	chr1	11189786	C	T	Heterozygous	1.9	57	SNP	Novel	1842	---
MTOR	chr1	11189794	C	G	Heterozygous	2.9	145	SNP	Novel	1845	---
MTOR	chr1	11189795	C	T	Heterozygous	2.6	118	SNP	Novel	1845	---
MTOR	chr1	11189797	G	A	Heterozygous	2.2	83	SNP	Novel	1843	---
MTOR	chr1	11189812	G	A	Heterozygous	2.1	70	SNP	Novel	1841	---
MTOR	chr1	11189818	G	A	Heterozygous	1.9	57	SNP	Novel	1842	---
MTOR	chr1	11189836	G	A	Heterozygous	2.6	118	SNP	Novel	1840	---
MTOR	chr1	11189849	C	T	Heterozygous	2.5	108	SNP	Novel	1837	---
MTOR	chr1	11189856	C	T	Heterozygous	3.2	176	SNP	Novel	1837	---
MTOR	chr1	11189857	G	A	Heterozygous	3.6	234	SNP	Novel	1837	---
MTOR	chr1	11189890	C	T	Heterozygous	2	62	SNP	Novel	1829	---
MTOR	chr1	11189898	G	A	Heterozygous	3.4	195	SNP	Novel	1820	---
MTOR	chr1	11190792	G	A	Heterozygous	1.9	72	SNP	Novel	2337	---
MTOR	chr1	11190801	C	T	Heterozygous	2.3	114	SNP	Novel	2361	---
MTOR	chr1	11190808	G	A	Heterozygous	2.4	119	SNP	Novel	2331	---
MTOR	chr1	11190820	C	T	Heterozygous	1.8	59	SNP	Novel	2361	---
MTOR	chr1	11190829	C	T	Heterozygous	2	79	SNP	Novel	2353	---
MTOR	chr1	11190843	G	A	Heterozygous	2.8	166	SNP	Novel	2357	---
MTOR	chr1	11190850	G	A	Heterozygous	1.2	16	SNP	Novel	2334	---
MTOR	chr1	11190855	G	A	Heterozygous	2.8	172	SNP	Novel	2365	---
MTOR	chr1	11190895	G	A	Heterozygous	3	205	SNP	Novel	2368	---
MTOR	chr1	11217208	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
MTOR	chr1	11217209	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
MTOR	chr1	11217215	C	T	Heterozygous	2.4	204	SNP	Novel	3959	---

MTOR	chr1	11217226	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MTOR	chr1	11217228	G	A	Heterozygous	1	10	SNP	Novel	4000	---
MTOR	chr1	11217230	C	T	Heterozygous	1	13	SNP	Hotspot	4000	COSM462615
MTOR	chr1	11217238	G	A	Heterozygous	1.3	34	SNP	Novel	3988	---
MTOR	chr1	11217239	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
MTOR	chr1	11217244	C	T	Heterozygous	1.3	37	SNP	Novel	3999	---
MTOR	chr1	11217294	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
MTOR	chr1	11217303	C	A	Heterozygous	2.1	143	SNP	Novel	3995	---
MTOR	chr1	11217307	C	T	Heterozygous	2.1	143	SNP	Novel	4000	---
MTOR	chr1	11217310	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
MTOR	chr1	11217311	C	T	Heterozygous	1.7	77	SNP	Novel	4000	---
JAK1	chr1	65310471	G	A	Heterozygous	2.7	206	SNP	Novel	3157	---
JAK1	chr1	65310480	C	A	Heterozygous	1.3	28	SNP	Novel	3168	---
JAK1	chr1	65310486	G	A	Heterozygous	2	105	SNP	Novel	3174	---
JAK1	chr1	65310490	G	A	Heterozygous	1.8	74	SNP	Novel	3174	---
JAK1	chr1	65310493	C	T	Heterozygous	2	101	SNP	Novel	3173	---
JAK1	chr1	65310496	C	T	Heterozygous	1.1	18	SNP	Novel	3172	---
JAK1	chr1	65310505	T	C	Heterozygous	1.1	18	SNP	Novel	3182	---
JAK1	chr1	65310512	C	T	Heterozygous	1.9	84	SNP	Novel	3186	---
JAK1	chr1	65310513	C	T	Heterozygous	1.5	49	SNP	Novel	3186	---
JAK1	chr1	65310515	C	T	Heterozygous	1.3	30	SNP	Novel	3186	---
JAK1	chr1	65310524	G	A	Heterozygous	2	108	SNP	Novel	3186	---
JAK1	chr1	65310527	G	A	Heterozygous	1.1	17	SNP	Novel	3186	---
JAK1	chr1	65310541	C	T	Heterozygous	2.6	188	SNP	Novel	3201	---
JAK1	chr1	65310551	C	T	Heterozygous	3.8	418	SNP	Novel	3196	---
JAK1	chr1	65310554	G	A	Heterozygous	2.8	238	SNP	Novel	3194	---
JAK1	chr1	65311179	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
JAK1	chr1	65311182	C	T	Heterozygous	1	12	SNP	Novel	4000	---
JAK1	chr1	65311187	C	T	Heterozygous	1	10	SNP	Novel	4000	---
JAK1	chr1	65311216	C	T	Heterozygous	1	13	SNP	Novel	3994	---
JAK1	chr1	65311220	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
JAK1	chr1	65311246	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
JAK1	chr1	65312289	C	T	Heterozygous	2.8	140	SNP	Novel	1901	---
JAK1	chr1	65312314	GAAAG	AAAAA	Heterozygous	2.1	78	MNP	Novel	1881	---
JAK1	chr1	65312339	G	A	Heterozygous	2	66	SNP	Novel	1978	---
JAK1	chr1	65312343	C	A	Heterozygous	1.4	27	SNP	Novel	1979	---
JAK1	chr1	65312345	G	A	Heterozygous	2.2	82	SNP	Novel	1981	---
JAK1	chr1	65312366	C	T	Heterozygous	3.3	205	SNP	Novel	1969	---

JAK1	chr1	65312369	G	A	Heterozygous	6.4	697	SNP	Novel	1971	---
JAK1	chr1	65312378	G	A	Heterozygous	3.8	645	SNP	Novel	1965	---
JAK1	chr1	65312382	G	A	Heterozygous	3.1	179	SNP	Novel	1977	---
JAK1	chr1	65312399	G	A	Heterozygous	1.8	55	SNP	Novel	1955	---
JAK1	chr1	65312402	G	A	Heterozygous	5.8	581	SNP	Novel	1951	---
JAK1	chr1	65312406	G	A	Heterozygous	3.4	213	SNP	Novel	1941	---
NRAS	chr1	115252208	G	A	Heterozygous	1.1	16	SNP	Novel	2962	---
NRAS	chr1	115252213	C	T	Heterozygous	1.3	31	SNP	Novel	2940	---
NRAS	chr1	115252221	G	A	Heterozygous	1.5	42	SNP	Novel	2958	---
NRAS	chr1	115252227	C	T	Heterozygous	1.4	34	SNP	Novel	2955	---
NRAS	chr1	115252238	G	A	Heterozygous	1.1	14	SNP	Novel	2951	---
NRAS	chr1	115252241	C	T	Heterozygous	1.6	52	SNP	Novel	2951	---
NRAS	chr1	115252260	G	A	Heterozygous	1.7	62	SNP	Novel	2935	---
NRAS	chr1	115252267	C	T	Heterozygous	1.4	36	SNP	Novel	2969	---
NRAS	chr1	115252280	C	T	Heterozygous	1.6	57	SNP	Novel	2975	---
NRAS	chr1	115252285	C	T	Heterozygous	1.1	14	SNP	Novel	2976	---
NRAS	chr1	115252297	C	T	Heterozygous	3.9	428	SNP	Novel	2975	---
NRAS	chr1	115252300	C	T	Heterozygous	1.6	54	SNP	Novel	2974	---
NRAS	chr1	115256506	C	T	Heterozygous	1	13	SNP	Novel	3999	---
NRAS	chr1	115256536	C	T	Heterozygous	1.1	20	SNP	Hotspot	4000	COSM578
NRAS	chr1	115256543	C	T	Heterozygous	1.7	81	SNP	Novel	3996	---
NRAS	chr1	115256555	C	T	Heterozygous	1	11	SNP	Novel	3973	---
NRAS	chr1	115258731	G	A	Heterozygous	1.1	16	SNP	Novel	3998	---
NRAS	chr1	115258737	C	T	Heterozygous	1.4	161	SNP	Novel	3862	---
NRAS	chr1	115258738	C	T	Heterozygous	2.3	179	SNP	Novel	4000	---
NRAS	chr1	115258758	C	T	Heterozygous	2.3	175	SNP	Novel	3999	---
NRAS	chr1	115258760	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
NRAS	chr1	115258774	T	C	Heterozygous	1.1	13	SNP	Novel	2207	---
DDR2	chr1	162724523	C	T	Heterozygous	2.6	92	SNP	Novel	1482	---
DDR2	chr1	162724526	G	A	Heterozygous	2.5	89	SNP	Novel	1470	---
DDR2	chr1	162724531	G	A	Heterozygous	2	93	SNP	Novel	1473	---
DDR2	chr1	162724592	T	C	Heterozygous	1.1	11	SNP	Novel	1467	---
DDR2	chr1	162724599	G	A	Heterozygous	2.2	66	SNP	Novel	1462	---
DDR2	chr1	162724611	G	A	Heterozygous	2.1	61	SNP	Novel	1457	---
DDR2	chr1	162724621	T	G	Heterozygous	1.4	21	SNP	Novel	1447	---
DDR2	chr1	162724630	C	T	Heterozygous	2.6	98	SNP	Novel	1439	---
ALK	chr2	29416085	C	T	Heterozygous	2.2	143	SNP	Novel	938	---
ALK	chr2	29416088	G	T	Heterozygous	2.2	48	SNP	Novel	944	---

ALK	chr2	29416092	A	G	Heterozygous	1.8	30	SNP	Novel	958	---
ALK	chr2	29416098	C	T	Heterozygous	1.6	22	SNP	Novel	960	---
ALK	chr2	29416105	G	A	Heterozygous	1.3	16	SNP	Novel	963	---
ALK	chr2	29416112	C	T	Heterozygous	4	153	SNP	Novel	974	---
ALK	chr2	29416121	C	T	Heterozygous	2.4	55	SNP	Novel	968	---
ALK	chr2	29416151	G	A	Heterozygous	2.7	71	SNP	Novel	978	---
ALK	chr2	29416152	C	T	Heterozygous	2.3	49	SNP	Novel	976	---
ALK	chr2	29416157	G	A	Heterozygous	5.4	594	SNP	Novel	976	---
ALK	chr2	29416163	G	A	Heterozygous	2.6	65	SNP	Novel	976	---
ALK	chr2	29416169	G	A	Heterozygous	1.6	25	SNP	Novel	971	---
ALK	chr2	29416185	C	T	Heterozygous	1.2	13	SNP	Novel	965	---
ALK	chr2	29416188	G	A	Heterozygous	1.5	19	SNP	Novel	958	---
ALK	chr2	29416194	G	A	Heterozygous	1.7	26	SNP	Novel	961	---
ALK	chr2	29416201	G	A	Heterozygous	1.6	22	SNP	Novel	955	---
ALK	chr2	29416343	C	T	Heterozygous	1.2	23	SNP	Novel	2947	---
ALK	chr2	29416344	C	T	Heterozygous	2.2	127	SNP	Novel	2948	---
ALK	chr2	29416352	C	T	Heterozygous	2.9	622	SNP	Novel	2981	---
ALK	chr2	29416361	C	T	Heterozygous	3.8	1141	SNP	Novel	3001	---
ALK	chr2	29416366	G	C	Heterozygous	98.5	63172	SNP	Novel	3054	---
ALK	chr2	29416366	G	T	Heterozygous	1.5	63172	SNP	Novel	3054	---
ALK	chr2	29416369	G	A	Heterozygous	1.5	45	SNP	Novel	3060	---
ALK	chr2	29416418	G	T	Heterozygous	1.7	64	SNP	Novel	3148	---
ALK	chr2	29416423	C	T	Heterozygous	1.1	18	SNP	Novel	3155	---
ALK	chr2	29416426	G	A	Heterozygous	1.5	45	SNP	Novel	3149	---
ALK	chr2	29416431	C	T	Heterozygous	1.2	24	SNP	Novel	3148	---
ALK	chr2	29416444	C	T	Heterozygous	1.4	41	SNP	Novel	3114	---
ALK	chr2	29416545	C	T	Heterozygous	2.3	129	SNP	Novel	2722	---
ALK	chr2	29416550	C	T	Heterozygous	4.7	638	SNP	Novel	2748	---
ALK	chr2	29416562	C	T	Heterozygous	1.3	27	SNP	Novel	2792	---
ALK	chr2	29416572	T	C	Homozygous	100	59099	SNP	Novel	2830	---
ALK	chr2	29416600	C	T	Heterozygous	2.2	118	SNP	Novel	2870	---
ALK	chr2	29416620	G	A	Heterozygous	1	10	SNP	Novel	2903	---
ALK	chr2	29416634	G	A	Heterozygous	2.1	113	SNP	Novel	2886	---
ALK	chr2	29416640	G	A	Heterozygous	1.8	67	SNP	Novel	2905	---
ALK	chr2	29416650	C	A	Heterozygous	1.3	28	SNP	Novel	2886	---
ALK	chr2	29416664	G	A	Heterozygous	2	95	SNP	Novel	2809	---
ALK	chr2	29420403	C	T	Heterozygous	1.1	17	SNP	Novel	3973	---
ALK	chr2	29420411	G	A	Heterozygous	1.2	28	SNP	Novel	3965	---

ALK	chr2	29420415	C	T	Heterozygous	1.6	62	SNP	Novel	3964	---
ALK	chr2	29420418	G	A	Heterozygous	1.3	33	SNP	Novel	3962	---
ALK	chr2	29420425	C	T	Heterozygous	1.5	56	SNP	Novel	3967	---
ALK	chr2	29432664	C	T	Heterozygous	1.7	77	SNP	Hotspot	4000	COSM28056
ALK	chr2	29432701	C	T	Heterozygous	0.9	28	SNP	Novel	3988	---
ALK	chr2	29436845	C	T	Heterozygous	3.9	269	SNP	Novel	1876	---
ALK	chr2	29436869	C	T	Heterozygous	2.2	82	SNP	Novel	1868	---
ALK	chr2	29436873	C	T	Heterozygous	1.9	59	SNP	Novel	1882	---
ALK	chr2	29436891	G	A	Heterozygous	1.5	33	SNP	Novel	1884	---
ALK	chr2	29436897	G	A	Heterozygous	1.5	30	SNP	Novel	1884	---
ALK	chr2	29436902	G	A	Heterozygous	1.9	55	SNP	Novel	1875	---
ALK	chr2	29436903	A	G	Heterozygous	1.1	11	SNP	Novel	1882	---
ALK	chr2	29436905	C	T	Heterozygous	2.8	142	SNP	Novel	1882	---
ALK	chr2	29436906	C	T	Heterozygous	2.9	148	SNP	Novel	1880	---
ALK	chr2	29436914	G	A	Heterozygous	1.3	22	SNP	Novel	1879	---
ALK	chr2	29436916	A	G	Heterozygous	1.1	11	SNP	Novel	1877	---
ALK	chr2	29436917	G	A	Heterozygous	1.4	25	SNP	Novel	1861	---
ALK	chr2	29436942	C	T	Heterozygous	1.4	25	SNP	Novel	1880	---
ALK	chr2	29436943	T	C	Heterozygous	2	63	SNP	Novel	1881	---
ALK	chr2	29436944	G	A	Heterozygous	3.1	177	SNP	Novel	1882	---
ALK	chr2	29436950	G	A	Heterozygous	1.3	22	SNP	Novel	1882	---
ALK	chr2	29436966	G	A	Heterozygous	1.2	15	SNP	Novel	1871	---
ALK	chr2	29436967	G	A	Heterozygous	2	68	SNP	Novel	1870	---
ALK	chr2	29443582	C	T	Heterozygous	2.5	139	SNP	Novel	2376	---
ALK	chr2	29443591	C	T	Heterozygous	2.2	108	SNP	Novel	2455	---
ALK	chr2	29443600	G	A	Heterozygous	1.3	24	SNP	Novel	2475	---
ALK	chr2	29443607	G	A	Heterozygous	2.1	89	SNP	Novel	2479	---
ALK	chr2	29443608	G	A	Heterozygous	2.2	104	SNP	Novel	2445	---
ALK	chr2	29443628	C	T	Heterozygous	2.2	101	SNP	Novel	2491	---
ALK	chr2	29443631	G	A	Heterozygous	2.5	139	SNP	Novel	2496	---
ALK	chr2	29443634	G	A	Heterozygous	2.2	101	SNP	Novel	2498	---
ALK	chr2	29443638	G	A	Heterozygous	1.1	13	SNP	Novel	2498	---
ALK	chr2	29443642	C	T	Heterozygous	2.4	789	SNP	Novel	2493	---
ALK	chr2	29443651	G	A	Heterozygous	1.6	49	SNP	Novel	2505	---
ALK	chr2	29443671	G	A	Heterozygous	1.2	19	SNP	Novel	2509	---
ALK	chr2	29443672	C	T	Heterozygous	2.4	123	SNP	Novel	2508	---
ALK	chr2	29443676	G	A	Heterozygous	1	11	SNP	Novel	2509	---
ALK	chr2	29445220	G	A	Heterozygous	2.6	565	SNP	Novel	3980	---

ALK	chr2	29445250	G	A	Heterozygous	3	334	SNP	Novel	4000	---
ALK	chr2	29445268	G	A	Heterozygous	1.1	21	SNP	Novel	4000	---
ALK	chr2	29445273	G	A	Heterozygous	2.2	161	SNP	Novel	4000	---
ALK	chr2	29445282	G	A	Heterozygous	1.3	37	SNP	Novel	3998	---
ALK	chr2	29445290	G	A	Heterozygous	1.3	169	SNP	Novel	3761	---
ALK	chr2	29445304	G	A	Heterozygous	3.9	571	SNP	Novel	3992	---
ALK	chr2	29445307	G	A	Heterozygous	1.7	74	SNP	Novel	3996	---
ALK	chr2	29445311	G	A	Heterozygous	1.5	58	SNP	Novel	3997	---
ALK	chr2	29445314	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
ALK	chr2	29445392	C	T	Heterozygous	1.1	233	SNP	Novel	3992	---
ALK	chr2	29445404	G	A	Heterozygous	2.2	688	SNP	Novel	3939	---
ALK	chr2	29445409	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
ALK	chr2	29445413	G	A	Heterozygous	1.7	77	SNP	Novel	4000	---
ALK	chr2	29445425	G	A	Heterozygous	1.1	17	SNP	Novel	4000	---
ALK	chr2	29445428	C	A	Heterozygous	1.2	23	SNP	Novel	3999	---
ALK	chr2	29445434	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
ALK	chr2	29445446	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
ALK	chr2	29445458	G	T	Homozygous	100	83558	SNP	Novel	3991	---
ALK	chr2	29445466	CC	TT	Heterozygous	1	11	MNP	Novel	3986	---
ALK	chr2	29445472	C	T	Heterozygous	1.8	252	SNP	Novel	3972	---
ALK	chr2	29445479	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
ALK	chr2	29497934	C	T	Heterozygous	3.2	176	SNP	Novel	1761	---
ALK	chr2	29497937	T	C	Heterozygous	1.6	38	SNP	Novel	1762	---
ALK	chr2	29497939	C	T	Heterozygous	1.3	20	SNP	Novel	1763	---
ALK	chr2	29497941	C	T	Heterozygous	1.9	53	SNP	Novel	1762	---
ALK	chr2	29497943	C	T	Heterozygous	2.8	135	SNP	Novel	1763	---
ALK	chr2	29497971	G	A	Heterozygous	1.7	53	SNP	Novel	1751	---
ALK	chr2	29497974	C	T	Heterozygous	1.4	23	SNP	Novel	1753	---
ALK	chr2	29497991	C	T	Heterozygous	2.3	88	SNP	Novel	1761	---
ALK	chr2	29498005	C	T	Heterozygous	1.9	118	SNP	Novel	1739	---
ALK	chr2	29498014	C	T	Heterozygous	1.4	25	SNP	Novel	1752	---
ALK	chr2	29498029	G	A	Heterozygous	1.1	13	SNP	Novel	1745	---
IDH1	chr2	209113113	G	A	Heterozygous	1.5	52	SNP	Hotspot	4000	COSM28747
IDH1	chr2	209113127	G	A	Heterozygous	1.3	37	SNP	Novel	3998	---
IDH1	chr2	209113128	G	A	Heterozygous	1.6	63	SNP	Novel	3989	---
IDH1	chr2	209113146	C	T	Heterozygous	2	122	SNP	Novel	4000	---
IDH1	chr2	209113152	G	A	Heterozygous	1.1	21	SNP	Novel	3968	---
IDH1	chr2	209113200	G	A	Heterozygous	1.1	16	SNP	Novel	3998	---

ERBB4	chr2	212488730	G	A	Heterozygous	1.2	25	SNP	Novel	3995	---
ERBB4	chr2	212488738	G	A	Heterozygous	1.5	55	SNP	Novel	4000	---
ERBB4	chr2	212488778	C	T	Heterozygous	1.4	47	SNP	Novel	3999	---
ERBB4	chr2	212488790	G	A	Heterozygous	1.4	47	SNP	Novel	4000	---
RAF1	chr3	12632356	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
RAF1	chr3	12632362	G	A	Heterozygous	1	12	SNP	Novel	4000	---
RAF1	chr3	12632370	G	A	Heterozygous	1.4	47	SNP	Novel	3998	---
RAF1	chr3	12632395	G	A	Heterozygous	1.4	39	SNP	Novel	3999	---
RAF1	chr3	12632398	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
RAF1	chr3	12632414	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
RAF1	chr3	12645652	C	T	Heterozygous	1.3	32	SNP	Novel	3999	---
RAF1	chr3	12645701	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
RAF1	chr3	12645719	G	A	Heterozygous	1.8	99	SNP	Novel	3999	---
RAF1	chr3	12645720	G	A	Heterozygous	1.6	64	SNP	Novel	3996	---
RAF1	chr3	12645729	G	A	Heterozygous	1	11	SNP	Novel	3997	---
CTNNB1	chr3	41266033	G	A	Heterozygous	6	467	SNP	Novel	1499	---
CTNNB1	chr3	41266034	G	A	Heterozygous	3.1	143	SNP	Novel	1499	---
CTNNB1	chr3	41266036	C	T	Heterozygous	4.1	235	SNP	Novel	1500	---
CTNNB1	chr3	41266041	C	T	Heterozygous	2.3	77	SNP	Novel	1500	---
CTNNB1	chr3	41266062	C	T	Heterozygous	2.5	87	SNP	Novel	1498	---
CTNNB1	chr3	41266067	G	A	Heterozygous	2.5	87	SNP	Novel	1497	---
CTNNB1	chr3	41266075	C	T	Heterozygous	1.1	12	SNP	Novel	1498	---
CTNNB1	chr3	41266109	C	T	Heterozygous	2.1	59	SNP	Hotspot	1498	COSM5703
CTNNB1	chr3	41266113	C	T	Heterozygous	2.2	68	SNP	Hotspot	1496	COSM5662
CTNNB1	chr3	41266115	G	T	Heterozygous	1.3	17	SNP	Novel	1496	---
CTNNB1	chr3	41266134	C	T	Heterozygous	1.9	47	SNP	Novel	1476	---
CTNNB1	chr3	41266141	G	A	Heterozygous	2.9	122	SNP	Novel	1476	---
CTNNB1	chr3	41266145	G	A	Heterozygous	3.2	151	SNP	Novel	1480	---
PIK3CA	chr3	178916693	C	T	Heterozygous	4.2	249	SNP	Novel	1461	---
PIK3CA	chr3	178916698	G	A	Heterozygous	3	128	SNP	Novel	1467	---
PIK3CA	chr3	178916716	G	A	Heterozygous	2.5	88	SNP	Novel	1465	---
PIK3CA	chr3	178916730	G	A	Heterozygous	1.8	44	SNP	Novel	1463	---
PIK3CA	chr3	178916744	C	T	Heterozygous	1.5	26	SNP	Novel	1461	---
PIK3CA	chr3	178916755	G	A	Heterozygous	2.3	71	SNP	Novel	1451	---
PIK3CA	chr3	178916774	G	-	Heterozygous	3.3	146	DEL	Novel	1345	---
PIK3CA	chr3	178916873	G	A	Heterozygous	2.2	71	SNP	Novel	1670	---
PIK3CA	chr3	178916876	G	A	Heterozygous	1.2	15	SNP	Hotspot	1669	COSM746
PIK3CA	chr3	178916881	T	C	Heterozygous	1.5	29	SNP	Novel	1667	---

PIK3CA	chr3	178916884	G	A	Heterozygous	1.1	13	SNP	Novel	1668	---
PIK3CA	chr3	178916892	G	A	Heterozygous	1.4	25	SNP	Novel	1669	---
PIK3CA	chr3	178916894	T	C	Heterozygous	1	37	SNP	Novel	1655	---
PIK3CA	chr3	178916912	A	G	Heterozygous	1.6	36	SNP	Novel	1656	---
PIK3CA	chr3	178916920	G	A	Heterozygous	3.7	213	SNP	Novel	1671	---
PIK3CA	chr3	178916946	G	A	Heterozygous	1.3	19	SNP	Novel	1618	---
PIK3CA	chr3	178921477	G	A	Heterozygous	1.2	25	SNP	Novel	3999	---
PIK3CA	chr3	178921501	G	A	Heterozygous	1.4	41	SNP	Novel	3908	---
PIK3CA	chr3	178921502	G	A	Heterozygous	1.7	85	SNP	Novel	3999	---
PIK3CA	chr3	178921522	G	A	Heterozygous	1	13	SNP	Novel	3993	---
PIK3CA	chr3	178921564	G	A	Heterozygous	1.8	99	SNP	Novel	4000	---
PIK3CA	chr3	178921566	G	A	Heterozygous	2.5	209	SNP	Novel	3999	---
PIK3CA	chr3	178922266	G	A	Heterozygous	1.8	48	SNP	Novel	1732	---
PIK3CA	chr3	178922273	C	T	Heterozygous	1.2	15	SNP	Novel	1750	---
PIK3CA	chr3	178922318	G	A	Heterozygous	1.1	11	SNP	Novel	1858	---
PIK3CA	chr3	178922347	C	T	Heterozygous	2	63	SNP	Novel	1815	---
PIK3CA	chr3	178927943	G	A	Heterozygous	3	194	SNP	Novel	2360	---
PIK3CA	chr3	178927950	G	A	Heterozygous	1.6	42	SNP	Novel	2355	---
PIK3CA	chr3	178927960	C	T	Heterozygous	1.8	62	SNP	Novel	2404	---
PIK3CA	chr3	178927979	C	T	Heterozygous	1.6	44	SNP	Novel	2467	---
PIK3CA	chr3	178927984	C	T	Heterozygous	1.3	24	SNP	Novel	2471	---
PIK3CA	chr3	178928006	C	T	Heterozygous	1.3	24	SNP	Novel	2462	---
PIK3CA	chr3	178928009	G	A	Heterozygous	1.4	30	SNP	Novel	2455	---
PIK3CA	chr3	178928018	C	T	Heterozygous	1.1	12	SNP	Novel	2452	---
PIK3CA	chr3	178928070	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
PIK3CA	chr3	178928107	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
PIK3CA	chr3	178928141	G	A	Heterozygous	1	12	SNP	Novel	4000	---
PIK3CA	chr3	178936056	C	T	Heterozygous	1.2	18	SNP	Novel	2040	---
PIK3CA	chr3	178936073	C	T	Heterozygous	1.2	17	SNP	Hotspot	2056	COSM249880
PIK3CA	chr3	178936096	G	A	Heterozygous	2.3	96	SNP	Novel	2059	---
PIK3CA	chr3	178936099	G	A	Heterozygous	1.7	42	SNP	Novel	2053	---
PIK3CA	chr3	178936127	G	A	Heterozygous	1.5	34	SNP	Novel	2052	---
PIK3CA	chr3	178936138	G	A	Heterozygous	1.5	34	SNP	Novel	2042	---
PIK3CA	chr3	178938859	C	T	Heterozygous	1.9	46	SNP	Novel	1353	---
PIK3CA	chr3	178938864	G	A	Heterozygous	2.9	110	SNP	Novel	1354	---
PIK3CA	chr3	178938871	C	T	Heterozygous	1.6	30	SNP	Novel	1357	---
PIK3CA	chr3	178938907	G	A	Heterozygous	3.3	150	SNP	Novel	1407	---
PIK3CA	chr3	178938922	G	A	Heterozygous	3.1	135	SNP	Novel	1410	---

PIK3CA	chr3	178938945	G	A	Heterozygous	2.4	75	SNP	Novel	1391	---
PIK3CA	chr3	178938957	T	C	Heterozygous	1.1	10	SNP	Novel	1387	---
PIK3CA	chr3	178938958	A	G	Heterozygous	1.1	13	SNP	Novel	1369	---
PIK3CA	chr3	178952003	G	A	Heterozygous	1.2	21	SNP	Novel	2818	---
PIK3CA	chr3	178952008	C	T	Heterozygous	1.5	41	SNP	Novel	2819	---
PIK3CA	chr3	178952017	G	A	Heterozygous	1.4	33	SNP	Novel	2822	---
PIK3CA	chr3	178952019	C	T	Heterozygous	1	11	SNP	Hotspot	2822	COSM36285
PIK3CA	chr3	178952024	G	A	Heterozygous	1.2	20	SNP	Novel	2827	---
PIK3CA	chr3	178952030	G	A	Heterozygous	2.1	108	SNP	Novel	2828	---
PIK3CA	chr3	178952047	G	A	Heterozygous	1	11	SNP	Novel	2841	---
PIK3CA	chr3	178952053	G	A	Heterozygous	1.2	22	SNP	Novel	2842	---
PIK3CA	chr3	178952056	G	A	Heterozygous	2.3	129	SNP	Novel	2843	---
PIK3CA	chr3	178952065	G	A	Heterozygous	1.8	72	SNP	Hotspot	2668	COSM25085
FGFR3	chr4	1797232	C	T	Heterozygous	2	65	SNP	Novel	1915	---
FGFR3	chr4	1797244	C	T	Heterozygous	1.7	46	SNP	Novel	1914	---
FGFR3	chr4	1797253	C	T	Heterozygous	1.6	40	SNP	Novel	1910	---
FGFR3	chr4	1797275	C	T	Heterozygous	20.4	4060	SNP	Novel	1938	---
FGFR3	chr4	1797294	G	A	Heterozygous	3.9	272	SNP	Novel	1945	---
FGFR3	chr4	1797306	G	A	Heterozygous	1.7	48	SNP	Novel	1949	---
FGFR3	chr4	1797325	T	C	Heterozygous	1.8	55	SNP	Novel	1963	---
FGFR3	chr4	1797672	G	A	Heterozygous	1.5	59	SNP	Novel	3981	---
FGFR3	chr4	1797678	C	T	Heterozygous	1.5	58	SNP	Novel	4000	---
FGFR3	chr4	1797686	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
FGFR3	chr4	1797691	C	T	Heterozygous	1.1	64	SNP	Novel	3955	---
FGFR3	chr4	1797700	C	T	Heterozygous	1.2	26	SNP	Novel	3983	---
FGFR3	chr4	1797707	C	T	Heterozygous	1.2	24	SNP	Novel	3946	---
FGFR3	chr4	1797719	C	T	Heterozygous	1.1	14	SNP	Novel	4000	---
FGFR3	chr4	1797726	C	T	Heterozygous	1.2	26	SNP	Novel	3966	---
FGFR3	chr4	1797741	T	C	Heterozygous	18.8	7486	SNP	Novel	3998	---
FGFR3	chr4	1797744	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
FGFR3	chr4	1801122	C	T	Heterozygous	4.9	464	SNP	Novel	2137	---
FGFR3	chr4	1801150	G	A	Heterozygous	2.8	180	SNP	Novel	2516	---
FGFR3	chr4	1801184	G	A	Heterozygous	3.4	664	SNP	Novel	2505	---
FGFR3	chr4	1801192	C	T	Heterozygous	1.2	18	SNP	Novel	2529	---
FGFR3	chr4	1801219	C	T	Heterozygous	20	4989	SNP	Novel	2460	---
FGFR3	chr4	1801223	C	T	Heterozygous	1.3	27	SNP	Novel	2446	---
FGFR3	chr4	1801225	G	A	Heterozygous	1.7	54	SNP	Novel	2383	---
FGFR3	chr4	1803553	C	T	Heterozygous	1.8	394	SNP	Novel	3968	---

FGFR3	chr4	1803571	C	T	Heterozygous	1	10	SNP	Novel	4000	---
FGFR3	chr4	1803593	G	A	Heterozygous	2	133	SNP	Novel	3973	---
FGFR3	chr4	1803602	G	A	Heterozygous	1	10	SNP	Novel	4000	---
FGFR3	chr4	1803617	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
FGFR3	chr4	1803620	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
FGFR3	chr4	1803646	G	T	Heterozygous	1	13	SNP	Novel	3996	---
FGFR3	chr4	1805802	C	T	Heterozygous	1.6	74	SNP	Novel	4000	---
FGFR3	chr4	1805809	C	T	Heterozygous	1.9	102	SNP	Novel	4000	---
FGFR3	chr4	1805818	C	T	Heterozygous	1.2	28	SNP	Novel	3998	---
FGFR3	chr4	1805828	C	T	Heterozygous	1.1	66	SNP	Novel	3976	---
FGFR3	chr4	1805832	G	A	Heterozygous	1	12	SNP	Novel	4000	---
FGFR3	chr4	1805850	C	T	Heterozygous	1	12	SNP	Novel	4000	---
FGFR3	chr4	1805859	C	T	Heterozygous	1	12	SNP	Novel	3999	---
FGFR3	chr4	1805863	G	A	Heterozygous	2.1	142	SNP	Novel	4000	---
FGFR3	chr4	1806089	G	A	Heterozygous	2.2	291	SNP	Novel	3987	---
FGFR3	chr4	1806106	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
FGFR3	chr4	1806115	C	T	Heterozygous	2.3	184	SNP	Novel	3999	---
FGFR3	chr4	1806118	C	T	Heterozygous	2.1	338	SNP	Novel	3937	---
FGFR3	chr4	1806142	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
FGFR3	chr4	1806145	G	A	Heterozygous	1.4	47	SNP	Novel	3999	---
FGFR3	chr4	1806164	C	T	Heterozygous	2.6	245	SNP	Novel	4000	---
FGFR3	chr4	1806170	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
FGFR3	chr4	1806181	C	T	Heterozygous	1.5	58	SNP	Novel	3994	---
FGFR3	chr4	1806185	C	T	Heterozygous	2.3	180	SNP	Novel	4000	---
FGFR3	chr4	1807877	G	A	Heterozygous	1.5	55	SNP	Novel	3999	---
FGFR3	chr4	1807882	C	T	Heterozygous	1.6	64	SNP	Novel	4000	---
FGFR3	chr4	1807891	G	A	Heterozygous	2	150	SNP	Novel	4000	---
FGFR3	chr4	1807894	G	A	Homozygous	100	83418	SNP	Novel	3994	---
FGFR3	chr4	1807913	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
FGFR3	chr4	1807917	G	A	Heterozygous	1.7	88	SNP	Novel	3945	---
FGFR3	chr4	1808317	G	A	Heterozygous	1.2	23	SNP	Novel	3991	---
FGFR3	chr4	1808329	C	T	Heterozygous	1	12	SNP	Novel	3999	---
FGFR3	chr4	1808331	G	A	Heterozygous	2.2	162	SNP	Novel	3997	---
FGFR3	chr4	1808354	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
FGFR3	chr4	1808391	G	A	Heterozygous	1.5	248	SNP	Novel	3933	---
FGFR3	chr4	1808392	C	T	Heterozygous	1.1	18	SNP	Novel	3998	---
FGFR3	chr4	1809232	C	T	Heterozygous	4.6	242	SNP	Novel	1245	---
FGFR3	chr4	1809238	T	C	Heterozygous	0.9	20	SNP	Novel	1257	---

FGFR3	chr4	1809255	G	A	Heterozygous	2.9	108	SNP	Novel	1260	---
FGFR3	chr4	1809289	G	A	Heterozygous	4.9	315	SNP	Novel	1450	---
FGFR3	chr4	1809302	C	T	Heterozygous	3.9	842	SNP	Novel	1407	---
FGFR3	chr4	1809317	G	A	Heterozygous	6.8	962	SNP	Novel	1420	---
FGFR3	chr4	1809348	C	T	Heterozygous	3.7	190	SNP	Novel	1439	---
FGFR3	chr4	1809448	G	A	Heterozygous	2.3	103	SNP	Novel	2110	---
FGFR3	chr4	1809454	G	A	Heterozygous	2.5	363	SNP	Novel	2113	---
FGFR3	chr4	1809470	C	T	Heterozygous	1	10	SNP	Novel	2127	---
FGFR3	chr4	1809473	C	T	Heterozygous	4	312	SNP	Novel	2125	---
FGFR3	chr4	1809477	C	T	Heterozygous	1.6	39	SNP	Novel	2109	---
FGFR3	chr4	1809483	C	T	Heterozygous	2.3	98	SNP	Novel	2118	---
FGFR3	chr4	1809489	T	C	Heterozygous	1.8	56	SNP	Novel	2105	---
FGFR3	chr4	1809501	C	T	Heterozygous	2.5	124	SNP	Novel	2090	---
FGFR3	chr4	1809513	C	T	Heterozygous	2.8	154	SNP	Novel	2118	---
FGFR3	chr4	1809529	G	A	Heterozygous	2.8	154	SNP	Novel	2118	---
FGFR3	chr4	1809563	C	T	Heterozygous	2.2	89	SNP	Novel	2115	---
PDGFRA	chr4	55097717	C	T	Heterozygous	4.2	1096	SNP	Novel	2894	---
PDGFRA	chr4	55097723	C	T	Heterozygous	2.5	163	SNP	Novel	2917	---
PDGFRA	chr4	55097739	C	T	Heterozygous	2.5	169	SNP	Novel	2868	---
PDGFRA	chr4	55097744	C	T	Heterozygous	1.4	38	SNP	Novel	2926	---
PDGFRA	chr4	55097747	C	T	Heterozygous	2.5	166	SNP	Novel	2929	---
PDGFRA	chr4	55097763	C	T	Heterozygous	1.2	20	SNP	Novel	2929	---
PDGFRA	chr4	55097766	C	T	Heterozygous	2.4	155	SNP	Novel	2963	---
PDGFRA	chr4	55097769	C	T	Heterozygous	1.8	72	SNP	Novel	2965	---
PDGFRA	chr4	55097775	C	T	Heterozygous	1.7	61	SNP	Novel	2971	---
PDGFRA	chr4	55097784	C	T	Heterozygous	1.9	83	SNP	Novel	2972	---
PDGFRA	chr4	55097803	C	T	Heterozygous	1	11	SNP	Novel	2972	---
PDGFRA	chr4	55097811	C	T	Heterozygous	2.1	216	SNP	Novel	2956	---
PDGFRA	chr4	55097820	C	T	Heterozygous	1.6	48	SNP	Novel	2960	---
PDGFRA	chr4	55097831	C	T	Heterozygous	2.8	212	SNP	Novel	2973	---
PDGFRA	chr4	55097835	G	C	Heterozygous	96.7	61172	SNP	Novel	2970	---
PDGFRA	chr4	55097835	G	T	Heterozygous	3	61172	SNP	Novel	2970	---
PDGFRA	chr4	55104300	C	T	Heterozygous	1.6	165	SNP	Novel	1883	---
PDGFRA	chr4	55104313	G	A	Heterozygous	1.2	16	SNP	Novel	1913	---
PDGFRA	chr4	55104321	C	T	Heterozygous	1.2	16	SNP	Novel	1918	---
PDGFRA	chr4	55104325	C	T	Heterozygous	1.4	26	SNP	Novel	1921	---
PDGFRA	chr4	55104329	C	T	Heterozygous	1.4	27	SNP	Novel	1899	---
PDGFRA	chr4	55104344	C	T	Heterozygous	2.3	92	SNP	Novel	1911	---

PDGFRA	chr4	55104350	C	T	Heterozygous	2.5	245	SNP	Novel	1914	---
PDGFRA	chr4	55104356	C	T	Heterozygous	1.5	92	SNP	Novel	1874	---
PDGFRA	chr4	55104374	C	T	Heterozygous	3	159	SNP	Novel	1881	---
PDGFRA	chr4	55104389	C	T	Heterozygous	1.3	19	SNP	Novel	1878	---
PDGFRA	chr4	55121523	C	T	Heterozygous	2.1	71	SNP	Novel	1893	---
PDGFRA	chr4	55121525	G	A	Heterozygous	1.5	30	SNP	Novel	1893	---
PDGFRA	chr4	55121550	G	A	Heterozygous	2.9	152	SNP	Novel	1891	---
PDGFRA	chr4	55121552	G	A	Heterozygous	2.1	71	SNP	Novel	1892	---
PDGFRA	chr4	55121568	G	A	Heterozygous	2.4	99	SNP	Novel	1887	---
PDGFRA	chr4	55121597	G	A	Heterozygous	4.5	355	SNP	Novel	1883	---
PDGFRA	chr4	55121615	C	T	Heterozygous	2.2	81	SNP	Novel	1870	---
PDGFRA	chr4	55123697	C	T	Heterozygous	1.2	16	SNP	Novel	1809	---
PDGFRA	chr4	55123700	C	T	Heterozygous	2.1	71	SNP	Novel	1812	---
PDGFRA	chr4	55123701	C	T	Heterozygous	2.9	147	SNP	Novel	1812	---
PDGFRA	chr4	55123716	C	T	Heterozygous	1.2	14	SNP	Novel	1820	---
PDGFRA	chr4	55123720	G	A	Heterozygous	2	62	SNP	Novel	1821	---
PDGFRA	chr4	55123722	G	A	Heterozygous	1.4	26	SNP	Novel	1821	---
PDGFRA	chr4	55123729	G	A	Heterozygous	1.4	159	SNP	Novel	1761	---
PDGFRA	chr4	55123777	C	T	Heterozygous	4.3	313	SNP	Novel	1821	---
PDGFRA	chr4	55123793	C	T	Heterozygous	2.1	71	SNP	Novel	1814	---
PDGFRA	chr4	55123800	C	T	Heterozygous	1.8	49	SNP	Novel	1809	---
PDGFRA	chr4	55123804	C	T	Heterozygous	1.1	12	SNP	Novel	1792	---
PDGFRA	chr4	55123805	T	A	Heterozygous	1.1	12	SNP	Novel	1805	---
PDGFRA	chr4	55123807	G	A	Heterozygous	2.2	76	SNP	Novel	1806	---
PDGFRA	chr4	55123810	C	T	Heterozygous	1.8	51	SNP	Novel	1804	---
PDGFRA	chr4	55126172	C	T	Heterozygous	1.2	24	SNP	Novel	3986	---
PDGFRA	chr4	55126190	G	A	Heterozygous	0.9	56	SNP	Novel	3975	---
PDGFRA	chr4	55126194	C	T	Heterozygous	1.3	34	SNP	Novel	3999	---
PDGFRA	chr4	55126213	C	T	Heterozygous	1.6	69	SNP	Novel	3971	---
PDGFRA	chr4	55126221	G	A	Heterozygous	1.4	47	SNP	Novel	3999	---
PDGFRA	chr4	55126232	T	C	Heterozygous	0.9	54	SNP	Novel	3985	---
PDGFRA	chr4	55126247	C	T	Heterozygous	1	13	SNP	Novel	4000	---
PDGFRA	chr4	55133671	G	A	Heterozygous	1.9	292	SNP	Novel	3427	---
PDGFRA	chr4	55133675	C	T	Heterozygous	1.4	37	SNP	Novel	3433	---
PDGFRA	chr4	55133704	C	T	Heterozygous	1.4	38	SNP	Novel	3423	---
PDGFRA	chr4	55133714	T	C	Heterozygous	1	12	SNP	Novel	3444	---
PDGFRA	chr4	55133726	T	G	Heterozygous	46.9	23426	SNP	Novel	3446	---
PDGFRA	chr4	55133746	C	T	Heterozygous	2.2	141	SNP	Novel	3452	---

PDGFRA	chr4	55133750	C	T	Heterozygous	1.4	43	SNP	Novel	3449	---
PDGFRA	chr4	55133766	G	A	Heterozygous	1.7	66	SNP	Novel	3444	---
PDGFRA	chr4	55140984	G	A	Heterozygous	2.1	92	SNP	Novel	2350	---
PDGFRA	chr4	55141013	G	A	Heterozygous	1.8	63	SNP	Novel	2348	---
PDGFRA	chr4	55141027	G	A	Heterozygous	1.6	45	SNP	Novel	2348	---
PDGFRA	chr4	55141031	G	A	Heterozygous	2.3	115	SNP	Novel	2354	---
PDGFRA	chr4	55141048	T	C	Heterozygous	1	10	SNP	Novel	2351	---
PDGFRA	chr4	55141055	A	G	Heterozygous	94	43745	SNP	Novel	2330	---
PDGFRA	chr4	55141060	G	A	Heterozygous	1.4	30	SNP	Novel	2339	---
PDGFRA	chr4	55141083	C	T	Heterozygous	3.1	260	SNP	Novel	2308	---
PDGFRA	chr4	55141101	G	A	Heterozygous	1.8	57	SNP	Novel	2312	---
PDGFRA	chr4	55144122	C	T	Heterozygous	1.5	58	SNP	Novel	3999	---
PDGFRA	chr4	55144126	G	A	Heterozygous	0.9	69	SNP	Novel	3933	---
PDGFRA	chr4	55144148	C	T	Heterozygous	1.3	28	SNP	Novel	3971	---
PDGFRA	chr4	55152030	C	T	Heterozygous	2.3	170	SNP	Novel	3928	---
PDGFRA	chr4	55152038	G	A	Heterozygous	1.5	59	SNP	Novel	3983	---
PDGFRA	chr4	55152062	G	A	Heterozygous	3.4	422	SNP	Novel	3999	---
PDGFRA	chr4	55152064	G	A	Heterozygous	1.4	42	SNP	Novel	3998	---
PDGFRA	chr4	55152074	G	A	Heterozygous	1.8	88	SNP	Novel	4000	---
PDGFRA	chr4	55152092	G	A	Heterozygous	1.7	84	SNP	Novel	3955	---
PDGFRA	chr4	55152109	G	A	Heterozygous	2.2	152	SNP	Novel	3999	---
PDGFRA	chr4	55152116	G	A	Heterozygous	1.5	55	SNP	Novel	4000	---
PDGFRA	chr4	55152127	C	T	Heterozygous	1.7	85	SNP	Novel	3995	---
PDGFRA	chr4	55152135	G	A	Heterozygous	1.2	27	SNP	Novel	3999	---
PDGFRA	chr4	55152137	C	T	Heterozygous	1.1	19	SNP	Novel	4000	---
PDGFRA	chr4	55152145	C	T	Heterozygous	1.5	136	SNP	Novel	3992	---
PDGFRA	chr4	55161876	C	T	Heterozygous	1	13	SNP	Novel	3994	---
PDGFRA	chr4	55161892	G	A	Heterozygous	1.6	121	SNP	Novel	3970	---
PDGFRA	chr4	55161899	G	A	Heterozygous	1	10	SNP	Novel	4000	---
KIT	chr4	55529184	T	C	Heterozygous	2.3	47	SNP	Novel	883	---
KIT	chr4	55529211	C	T	Heterozygous	1.9	33	SNP	Novel	885	---
KIT	chr4	55529214	G	A	Heterozygous	1.9	33	SNP	Novel	885	---
KIT	chr4	55566182	C	T	Heterozygous	2.4	48	SNP	Novel	801	---
KIT	chr4	55566266	G	A	Heterozygous	98.7	16077	SNP	Novel	791	---
KIT	chr4	55566266	GC	AT	Heterozygous	1	16077	MNP	Novel	791	---
KIT	chr4	55573046	G	A	Heterozygous	1.2	14	SNP	Novel	1204	---
KIT	chr4	55573049	G	A	Heterozygous	1.2	12	SNP	Novel	1207	---
KIT	chr4	55573074	G	A	Heterozygous	1.6	26	SNP	Novel	1211	---

KIT	chr4	55573081	C	T	Heterozygous	1.5	23	SNP	Novel	1215	---
KIT	chr4	55573128	G	A	Heterozygous	1.9	41	SNP	Novel	1212	---
KIT	chr4	55589772	C	T	Heterozygous	2	120	SNP	Novel	3967	---
KIT	chr4	55589806	G	A	Heterozygous	1.1	18	SNP	Novel	3999	---
KIT	chr4	55589810	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
KIT	chr4	55592162	G	A	Heterozygous	1.6	64	SNP	Novel	4000	---
KIT	chr4	55592165	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
KIT	chr4	55592178	C	T	Heterozygous	1.1	15	SNP	Novel	3960	---
KIT	chr4	55592225	C	T	Heterozygous	1	12	SNP	Novel	3973	---
KIT	chr4	55592234	C	T	Heterozygous	1	13	SNP	Novel	4000	---
KIT	chr4	55593441	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
KIT	chr4	55593445	C	T	Heterozygous	1.4	40	SNP	Novel	3999	---
KIT	chr4	55593594	G	A	Heterozygous	2	452	SNP	Novel	2264	---
KIT	chr4	55593620	G	A	Heterozygous	2.5	261	SNP	Novel	2281	---
KIT	chr4	55593657	C	T	Heterozygous	2.8	505	SNP	Novel	2276	---
KIT	chr4	55593664	C	T	Heterozygous	1.6	43	SNP	Novel	2300	---
KIT	chr4	55593679	G	A	Heterozygous	1.4	29	SNP	Novel	2302	---
KIT	chr4	55593689	C	T	Heterozygous	2.8	172	SNP	Novel	2297	---
KIT	chr4	55594177	C	T	Heterozygous	1.1	15	SNP	Novel	3321	---
KIT	chr4	55594178	G	A	Heterozygous	2.6	210	SNP	Novel	3322	---
KIT	chr4	55594190	G	A	Heterozygous	1.3	27	SNP	Novel	3332	---
KIT	chr4	55594194	G	A	Heterozygous	1.3	32	SNP	Novel	3358	---
KIT	chr4	55594197	C	T	Heterozygous	3.7	433	SNP	Novel	3337	---
KIT	chr4	55594204	C	T	Heterozygous	1.4	36	SNP	Novel	3365	---
KIT	chr4	55594215	G	A	Heterozygous	1.1	16	SNP	Novel	3386	---
KIT	chr4	55594236	C	T	Heterozygous	1.2	23	SNP	Novel	3396	---
KIT	chr4	55594247	C	T	Heterozygous	2.2	139	SNP	Novel	3401	---
KIT	chr4	55594263	C	T	Heterozygous	1.1	16	SNP	Novel	3397	---
KIT	chr4	55594273	C	T	Heterozygous	2.2	131	SNP	Novel	3390	---
KIT	chr4	55594279	C	T	Heterozygous	1.6	58	SNP	Novel	3371	---
KIT	chr4	55598861	G	C	Heterozygous	1.3	22	SNP	Novel	1704	---
KIT	chr4	55598865	G	A	Heterozygous	3.2	165	SNP	Novel	1708	---
KIT	chr4	55598876	G	A	Heterozygous	3.8	229	SNP	Novel	1726	---
KIT	chr4	55598900	G	A	Heterozygous	3.4	198	SNP	Novel	1742	---
KIT	chr4	55598910	G	A	Heterozygous	1.7	44	SNP	Novel	1738	---
KIT	chr4	55599253	G	A	Heterozygous	2.9	122	SNP	Novel	1474	---
KIT	chr4	55599269	C	T	Heterozygous	1.1	12	SNP	Novel	1489	---
KIT	chr4	55599282	G	A	Heterozygous	3.3	156	SNP	Novel	1488	---

KIT	chr4	55599285	G	A	Heterozygous	3	132	SNP	Novel	1490	---
KIT	chr4	55599308	G	A	Heterozygous	1.8	43	SNP	Novel	1495	---
KIT	chr4	55599320	G	A	Heterozygous	3.4	253	SNP	Hotspot	1722	COSM1313
ROS1	chr6	117638341	G	A	Heterozygous	1.3	31	SNP	Novel	3855	---
ROS1	chr6	117638342	G	A	Heterozygous	1.6	63	SNP	Novel	3855	---
ROS1	chr6	117638346	C	T	Heterozygous	1.6	70	SNP	Novel	3857	---
ROS1	chr6	117638372	G	A	Heterozygous	1	13	SNP	Novel	3863	---
ROS1	chr6	117638389	G	A	Heterozygous	2.6	240	SNP	Novel	3873	---
ROS1	chr6	117638394	C	T	Heterozygous	1.1	20	SNP	Novel	3738	---
ROS1	chr6	117638398	C	T	Heterozygous	3	318	SNP	Novel	3866	---
ROS1	chr6	117638407	G	A	Heterozygous	1.1	18	SNP	Novel	3855	---
ROS1	chr6	117638436	C	T	Heterozygous	1.1	18	SNP	Novel	3786	---
ROS1	chr6	117638442	G	A	Heterozygous	2.3	387	SNP	Novel	3705	---
ROS1	chr6	117641036	C	T	Heterozygous	2	86	SNP	Novel	2549	---
ROS1	chr6	117641051	C	T	Heterozygous	1.5	37	SNP	Novel	2565	---
ROS1	chr6	117641053	C	T	Heterozygous	2.5	143	SNP	Novel	2587	---
ROS1	chr6	117641059	C	T	Heterozygous	2.4	132	SNP	Novel	2598	---
ROS1	chr6	117641080	G	A	Heterozygous	2	85	SNP	Novel	2624	---
ROS1	chr6	117641083	G	A	Heterozygous	1.1	16	SNP	Novel	2625	---
ROS1	chr6	117641099	C	T	Heterozygous	1.7	61	SNP	Novel	2629	---
ROS1	chr6	117641108	C	T	Heterozygous	1.7	61	SNP	Novel	2633	---
ROS1	chr6	117641110	C	T	Heterozygous	1.4	33	SNP	Novel	2633	---
ROS1	chr6	117641113	C	T	Heterozygous	1.6	49	SNP	Novel	2634	---
ROS1	chr6	117641118	C	T	Heterozygous	2.8	186	SNP	Novel	2638	---
ROS1	chr6	117641128	C	T	Heterozygous	1.4	30	SNP	Novel	2639	---
ROS1	chr6	117641131	A	G	Heterozygous	1.7	54	SNP	Novel	2635	---
ROS1	chr6	117641145	C	T	Heterozygous	1.1	14	SNP	Novel	2629	---
ESR1	chr6	152419912	G	A	Heterozygous	2.2	125	SNP	Novel	3057	---
ESR1	chr6	152419915	G	A	Heterozygous	1.9	93	SNP	Novel	3050	---
ESR1	chr6	152419936	G	A	Heterozygous	1.1	14	SNP	Novel	3080	---
ESR1	chr6	152419956	G	A	Heterozygous	1.8	73	SNP	Novel	3092	---
ESR1	chr6	152419975	C	T	Heterozygous	1.6	58	SNP	Novel	3090	---
ESR1	chr6	152419979	G	A	Heterozygous	1.9	85	SNP	Novel	3099	---
ESR1	chr6	152419990	C	T	Heterozygous	1.2	21	SNP	Novel	3105	---
ESR1	chr6	152419993	G	A	Heterozygous	1.1	17	SNP	Novel	3100	---
ESR1	chr6	152419994	G	A	Heterozygous	2.1	109	SNP	Novel	3100	---
ESR1	chr6	152420006	C	T	Heterozygous	1.3	27	SNP	Novel	3030	---
ESR1	chr6	152420017	G	A	Heterozygous	2.3	132	SNP	Novel	3014	---

EGFR	chr7	55198956	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
EGFR	chr7	55198968	G	A	Heterozygous	1.1	16	SNP	Novel	3961	---
EGFR	chr7	55199005	C	T	Heterozygous	1.2	155	SNP	Novel	3949	---
EGFR	chr7	55199030	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
EGFR	chr7	55199044	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
EGFR	chr7	55211049	C	T	Heterozygous	1	13	SNP	Novel	4000	---
EGFR	chr7	55211056	C	T	Heterozygous	1.1	16	SNP	Novel	3997	---
EGFR	chr7	55219921	C	T	Heterozygous	0.8	86	SNP	Novel	3973	---
EGFR	chr7	55219924	C	T	Heterozygous	1.6	66	SNP	Novel	3999	---
EGFR	chr7	55219929	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
EGFR	chr7	55219931	C	T	Heterozygous	1.3	32	SNP	Novel	3998	---
EGFR	chr7	55219937	C	T	Heterozygous	1.6	70	SNP	Novel	4000	---
EGFR	chr7	55219938	C	T	Heterozygous	2.1	148	SNP	Novel	4000	---
EGFR	chr7	55219944	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
EGFR	chr7	55219956	C	T	Heterozygous	1.2	20	SNP	Novel	3987	---
EGFR	chr7	55219980	C	T	Heterozygous	1.4	42	SNP	Novel	3972	---
EGFR	chr7	55221799	C	T	Heterozygous	2.9	193	SNP	Novel	2392	---
EGFR	chr7	55221802	G	A	Heterozygous	1.8	60	SNP	Novel	2419	---
EGFR	chr7	55221811	C	T	Heterozygous	1.7	53	SNP	Novel	2484	---
EGFR	chr7	55221823	C	T	Heterozygous	2.8	186	SNP	Novel	2515	---
EGFR	chr7	55221835	G	A	Heterozygous	2.3	112	SNP	Novel	2529	---
EGFR	chr7	55221855	C	T	Heterozygous	2.6	161	SNP	Novel	2551	---
EGFR	chr7	55221869	C	T	Heterozygous	2.7	172	SNP	Novel	2550	---
EGFR	chr7	55221873	C	T	Heterozygous	2.7	167	SNP	Novel	2548	---
EGFR	chr7	55221878	C	T	Heterozygous	2.5	150	SNP	Novel	2552	---
EGFR	chr7	55221897	C	T	Heterozygous	1.4	32	SNP	Novel	2547	---
EGFR	chr7	55221903	C	T	Heterozygous	5.5	673	SNP	Novel	2543	---
EGFR	chr7	55221904	C	T	Heterozygous	2.4	134	SNP	Novel	2541	---
EGFR	chr7	55227971	C	T	Heterozygous	1.3	24	SNP	Novel	2220	---
EGFR	chr7	55227977	G	A	Heterozygous	0.8	18	SNP	Novel	2231	---
EGFR	chr7	55228017	G	A	Heterozygous	1.4	28	SNP	Novel	2237	---
EGFR	chr7	55228019	G	A	Heterozygous	1.1	61	SNP	Novel	2221	---
EGFR	chr7	55228026	G	A	Heterozygous	1.4	36	SNP	Novel	2190	---
EGFR	chr7	55228027	C	T	Heterozygous	1.2	18	SNP	Novel	2222	---
EGFR	chr7	55228053	A	-	Homozygous	100	42825	DEL	Novel	2170	---
EGFR	chr7	55232973	G	A	Heterozygous	1	10	SNP	Novel	4000	---
EGFR	chr7	55233009	G	A	Heterozygous	1	12	SNP	Novel	3998	---
EGFR	chr7	55233011	C	T	Heterozygous	1.3	35	SNP	Novel	3998	---

EGFR	chr7	55233020	C	T	Heterozygous	1	13	SNP	Novel	4000	---
EGFR	chr7	55233036	C	T	Heterozygous	1.1	15	SNP	Novel	3957	---
EGFR	chr7	55241653	C	T	Heterozygous	1	13	SNP	Novel	3988	---
EGFR	chr7	55241666	G	A	Heterozygous	1.7	81	SNP	Novel	4000	---
EGFR	chr7	55241681	C	T	Heterozygous	1	35	SNP	Novel	3981	---
EGFR	chr7	55241688	C	T	Heterozygous	2.2	155	SNP	Novel	3947	---
EGFR	chr7	55241714	G	A	Heterozygous	1.3	32	SNP	Novel	3999	---
EGFR	chr7	55242416	G	A	Heterozygous	1.9	77	SNP	Novel	2533	---
EGFR	chr7	55242420	C	T	Heterozygous	1.7	58	SNP	Novel	2534	---
EGFR	chr7	55242428	C	T	Heterozygous	1.7	55	SNP	Novel	2530	---
EGFR	chr7	55242456	C	T	Heterozygous	2.6	159	SNP	Novel	2507	---
EGFR	chr7	55242466	G	A	Heterozygous	1.8	56	SNP	Novel	2454	---
EGFR	chr7	55242501	G	A	Heterozygous	1.9	105	SNP	Novel	2434	---
EGFR	chr7	55242510	C	T	Heterozygous	1.5	38	SNP	Novel	2468	---
EGFR	chr7	55242511	G	A	Heterozygous	2	85	SNP	Novel	2465	---
EGFR	chr7	55242522	C	T	Heterozygous	1.7	52	SNP	Novel	2466	---
EGFR	chr7	55248983	C	T	Heterozygous	1.4	29	SNP	Novel	2108	---
EGFR	chr7	55249015	C	T	Heterozygous	1.2	59	SNP	Novel	2069	---
EGFR	chr7	55249031	C	T	Heterozygous	1.9	63	SNP	Novel	2103	---
EGFR	chr7	55249038	G	A	Heterozygous	1.9	60	SNP	Novel	2107	---
EGFR	chr7	55249046	C	T	Heterozygous	1	11	SNP	Novel	2113	---
EGFR	chr7	55249051	C	T	Heterozygous	4.3	365	SNP	Novel	2113	---
EGFR	chr7	55249053	C	T	Heterozygous	2.5	117	SNP	Novel	2114	---
EGFR	chr7	55249056	C	T	Heterozygous	2.5	117	SNP	Novel	2114	---
EGFR	chr7	55249057	C	T	Heterozygous	2	71	SNP	Novel	2115	---
EGFR	chr7	55249063	G	A	Heterozygous	36.2	10090	SNP	Novel	2118	---
EGFR	chr7	55249082	C	T	Heterozygous	2.4	107	SNP	Novel	2116	---
EGFR	chr7	55249094	C	T	Heterozygous	1.9	67	SNP	Novel	2110	---
EGFR	chr7	55249099	G	A	Heterozygous	1.1	14	SNP	Novel	2108	---
EGFR	chr7	55259429	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
EGFR	chr7	55259437	G	A	Heterozygous	1.9	109	SNP	Novel	3999	---
EGFR	chr7	55259442	G	A	Heterozygous	1.8	88	SNP	Novel	4000	---
EGFR	chr7	55259447	C	T	Heterozygous	1.5	219	SNP	Novel	3990	---
EGFR	chr7	55259464	G	A	Heterozygous	2.8	277	SNP	Novel	4000	---
EGFR	chr7	55259472	C	T	Heterozygous	1.4	44	SNP	Novel	4000	---
EGFR	chr7	55259477	G	A	Heterozygous	1.1	21	SNP	Novel	3991	---
EGFR	chr7	55259485	C	T	Heterozygous	1.3	37	SNP	Novel	3975	---
EGFR	chr7	55259493	G	A	Heterozygous	1.6	71	SNP	Novel	4000	---

EGFR	chr7	55259498	G	A	Heterozygous	1.8	88	SNP	Novel	4000	---
EGFR	chr7	55259528	G	A	Heterozygous	3.6	476	SNP	Novel	3978	---
MET	chr7	116313498	G	A	Heterozygous	1.3	20	SNP	Novel	2116	---
MET	chr7	116313502	T	C	Heterozygous	1.4	29	SNP	Novel	2114	---
MET	chr7	116313515	C	T	Heterozygous	1.5	32	SNP	Novel	2113	---
MET	chr7	116313518	G	A	Heterozygous	3.7	272	SNP	Novel	2113	---
MET	chr7	116313529	G	A	Heterozygous	1.5	32	SNP	Novel	2112	---
MET	chr7	116313533	G	A	Heterozygous	1.1	12	SNP	Novel	2112	---
MET	chr7	116313537	G	A	Heterozygous	2	76	SNP	Novel	2110	---
MET	chr7	116313544	C	T	Heterozygous	1.1	14	SNP	Novel	2111	---
MET	chr7	116313548	G	A	Heterozygous	1.8	56	SNP	Novel	2108	---
MET	chr7	116313551	G	A	Heterozygous	1.5	32	SNP	Novel	2107	---
MET	chr7	116313553	C	T	Heterozygous	2.1	80	SNP	Novel	2107	---
MET	chr7	116313558	T	C	Heterozygous	1.2	16	SNP	Novel	2106	---
MET	chr7	116313560	G	A	Heterozygous	1.6	42	SNP	Novel	2104	---
MET	chr7	116313571	C	T	Heterozygous	1.2	16	SNP	Novel	2074	---
MET	chr7	116339336	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
MET	chr7	116339338	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MET	chr7	116339342	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
MET	chr7	116339345	C	T	Heterozygous	1	12	SNP	Novel	3999	---
MET	chr7	116339352	G	A	Heterozygous	1.3	35	SNP	Novel	3988	---
MET	chr7	116339361	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
MET	chr7	116339363	G	A	Heterozygous	1.3	30	SNP	Novel	3999	---
MET	chr7	116339378	G	A	Heterozygous	1.3	180	SNP	Novel	3994	---
MET	chr7	116339387	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
MET	chr7	116339395	C	T	Heterozygous	1	10	SNP	Novel	3999	---
MET	chr7	116339406	C	T	Heterozygous	2.5	224	SNP	Novel	4000	---
MET	chr7	116339409	G	A	Heterozygous	1.7	81	SNP	Novel	3999	---
MET	chr7	116339412	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
MET	chr7	116339415	C	T	Heterozygous	1	13	SNP	Novel	3996	---
MET	chr7	116339436	G	A	Heterozygous	2	135	SNP	Novel	4000	---
MET	chr7	116340233	C	T	Heterozygous	1.8	86	SNP	Novel	4000	---
MET	chr7	116340260	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
MET	chr7	116340269	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
MET	chr7	116340270	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MET	chr7	116340309	G	A	Heterozygous	1.4	42	SNP	Novel	3991	---
MET	chr7	116403139	T	C	Heterozygous	1	13	SNP	Novel	3158	---
MET	chr7	116403155	C	T	Heterozygous	1.1	14	SNP	Novel	3165	---

MET	chr7	116403173	C	T	Heterozygous	1.3	25	SNP	Novel	3195	---
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MET	chr7	116403190	C	T	Heterozygous	1.3	31	SNP	Novel	3149	---
MET	chr7	116403202	C	T	Heterozygous	1.2	82	SNP	Novel	3129	---
MET	chr7	116403212	G	A	Heterozygous	1.4	34	SNP	Novel	3130	---
MET	chr7	116403214	G	A	Heterozygous	1.2	23	SNP	Novel	3124	---
MET	chr7	116403223	C	T	Heterozygous	1.3	30	SNP	Novel	3109	---
MET	chr7	116403236	C	T	Heterozygous	1.3	30	SNP	Novel	3101	---
MET	chr7	116411961	G	A	Heterozygous	2	292	SNP	Novel	1670	---
MET	chr7	116411973	C	T	Heterozygous	1.5	31	SNP	Novel	1687	---
MET	chr7	116411975	G	A	Heterozygous	2	57	SNP	Novel	1688	---
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MET	chr7	116411980	G	A	Heterozygous	1.1	12	SNP	Novel	1688	---
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MET	chr7	116412001	G	A	Heterozygous	2.1	66	SNP	Novel	1681	---
MET	chr7	116412020	A	G	Heterozygous	1.6	31	SNP	Novel	1676	---
MET	chr7	116412038	C	T	Heterozygous	1.8	47	SNP	Novel	1649	---
MET	chr7	116415095	C	T	Heterozygous	1.2	21	SNP	Novel	3010	---
MET	chr7	116415107	G	A	Heterozygous	1.9	89	SNP	Novel	3015	---
MET	chr7	116415114	G	A	Heterozygous	1.2	21	SNP	Novel	3015	---
MET	chr7	116415123	C	T	Heterozygous	2.2	116	SNP	Novel	2944	---
MET	chr7	116415125	C	T	Heterozygous	1.8	73	SNP	Novel	3031	---
MET	chr7	116415141	C	T	Heterozygous	2.9	241	SNP	Novel	3028	---
MET	chr7	116415163	G	A	Heterozygous	1.1	15	SNP	Novel	3023	---
MET	chr7	116415170	G	A	Heterozygous	3.8	414	SNP	Novel	3014	---
MET	chr7	116415176	C	T	Heterozygous	2.5	167	SNP	Novel	3014	---
MET	chr7	116417437	G	A	Heterozygous	0.9	71	SNP	Novel	2298	---
MET	chr7	116417445	C	T	Heterozygous	2	83	SNP	Novel	2357	---
MET	chr7	116417455	G	A	Heterozygous	1.5	40	SNP	Novel	2399	---
MET	chr7	116417463	C	T	Heterozygous	1.1	13	SNP	Hotspot	2401	COSM696
MET	chr7	116417480	C	T	Heterozygous	1.2	21	SNP	Novel	2404	---
MET	chr7	116417489	C	T	Heterozygous	1.2	17	SNP	Novel	2387	---
MET	chr7	116417501	C	T	Heterozygous	1.5	34	SNP	Novel	2398	---
MET	chr7	116417522	C	T	Heterozygous	1.8	65	SNP	Novel	2386	---
MET	chr7	116417530	G	A	Heterozygous	1.2	17	SNP	Novel	2383	---
MET	chr7	116423412	G	A	Heterozygous	1.2	21	SNP	Novel	3999	---
MET	chr7	116423449	G	A	Heterozygous	1	12	SNP	Novel	3997	---
MET	chr7	116423461	C	T	Heterozygous	1.1	20	SNP	Novel	3997	---

MET	chr7	116423466	G	A	Heterozygous	1.7	79	SNP	Novel	3952	---
MET	chr7	116423472	G	A	Heterozygous	1.5	52	SNP	Novel	3996	---
MET	chr7	116423477	C	T	Heterozygous	1	10	SNP	Novel	4000	---
MET	chr7	116434463	G	A	Heterozygous	1.2	25	SNP	Novel	3937	---
MET	chr7	116434469	C	T	Heterozygous	2.4	193	SNP	Novel	3937	---
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MET	chr7	116434481	G	A	Heterozygous	1	11	SNP	Novel	3901	---
MET	chr7	116434484	G	A	Heterozygous	1.4	46	SNP	Novel	3937	---
MET	chr7	116434490	G	A	Heterozygous	0.8	40	SNP	Novel	3910	---
MET	chr7	116434500	G	A	Heterozygous	1.1	15	SNP	Novel	3935	---
MET	chr7	116434505	C	T	Heterozygous	1	12	SNP	Novel	3933	---
MET	chr7	116434528	G	A	Heterozygous	2.2	151	SNP	Novel	3921	---
MET	chr7	116434553	C	T	Heterozygous	1.4	44	SNP	Novel	3928	---
SMO	chr7	128845504	C	T	Heterozygous	1.1	17	SNP	Novel	4000	---
SMO	chr7	128845510	C	T	Heterozygous	2.3	170	SNP	Novel	3999	---
SMO	chr7	128845513	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
SMO	chr7	128845521	G	A	Heterozygous	1.6	61	SNP	Novel	4000	---
SMO	chr7	128845522	C	T	Heterozygous	2.3	170	SNP	Novel	3976	---
SMO	chr7	128845547	C	T	Heterozygous	2.1	143	SNP	Novel	4000	---
SMO	chr7	128845551	C	T	Heterozygous	1.3	37	SNP	Novel	3995	---
SMO	chr7	128845575	G	A	Heterozygous	2.7	617	SNP	Novel	3977	---
SMO	chr7	128845582	C	T	Heterozygous	1.6	70	SNP	Novel	3996	---
SMO	chr7	128845588	C	T	Heterozygous	2.3	169	SNP	Novel	4000	---
SMO	chr7	128845595	G	A	Heterozygous	1.8	88	SNP	Novel	4000	---
SMO	chr7	128845600	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
SMO	chr7	128845602	C	T	Heterozygous	1.4	44	SNP	Novel	4000	---
SMO	chr7	128845603	C	T	Heterozygous	1.9	110	SNP	Novel	4000	---
SMO	chr7	128845610	C	T	Heterozygous	1.1	17	SNP	Novel	4000	---
SMO	chr7	128846340	G	A	Heterozygous	1	13	SNP	Novel	3998	---
SMO	chr7	128846356	C	T	Heterozygous	1.5	55	SNP	Novel	3999	---
SMO	chr7	128846382	C	T	Heterozygous	1.3	31	SNP	Novel	3968	---
SMO	chr7	128849117	C	T	Heterozygous	1.7	75	SNP	Novel	3993	---
SMO	chr7	128849124	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
SMO	chr7	128849148	C	T	Heterozygous	1.6	71	SNP	Novel	4000	---
SMO	chr7	128849162	C	T	Heterozygous	1.1	19	SNP	Novel	4000	---
SMO	chr7	128849164	C	T	Heterozygous	1	12	SNP	Novel	4000	---
SMO	chr7	128849175	G	A	Heterozygous	1.1	20	SNP	Novel	3999	---
SMO	chr7	128849188	C	T	Heterozygous	1.3	37	SNP	Novel	3999	---

SMO	chr7	128849200	C	T	Heterozygous	2.7	255	SNP	Novel	4000	---
SMO	chr7	128849205	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
SMO	chr7	128849224	C	T	Heterozygous	1.3	35	SNP	Novel	4000	---
SMO	chr7	128849225	C	T	Heterozygous	2.5	211	SNP	Novel	3995	---
SMO	chr7	128849237	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
SMO	chr7	128850271	C	T	Heterozygous	1	12	SNP	Novel	4000	---
SMO	chr7	128850291	G	A	Heterozygous	1.7	86	SNP	Novel	3998	---
SMO	chr7	128850317	G	A	Heterozygous	1.6	61	SNP	Novel	3999	---
SMO	chr7	128850320	C	T	Heterozygous	1.5	52	SNP	Novel	3998	---
SMO	chr7	128850348	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
SMO	chr7	128850351	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
SMO	chr7	128850355	G	A	Heterozygous	1.1	20	SNP	Novel	3998	---
BRAF	chr7	140434416	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
BRAF	chr7	140434425	C	T	Heterozygous	1.6	312	SNP	Novel	3983	---
BRAF	chr7	140434432	G	A	Heterozygous	1	10	SNP	Novel	3991	---
BRAF	chr7	140434438	G	A	Heterozygous	1.1	21	SNP	Novel	4000	---
BRAF	chr7	140434458	G	A	Heterozygous	1.1	16	SNP	Novel	3983	---
BRAF	chr7	140434459	C	T	Heterozygous	1	10	SNP	Novel	3999	---
BRAF	chr7	140434467	C	T	Heterozygous	1.8	95	SNP	Novel	3998	---
BRAF	chr7	140434494	C	T	Heterozygous	1.4	45	SNP	Novel	3999	---
BRAF	chr7	140453113	G	A	Heterozygous	1.5	21	SNP	Novel	1167	---
BRAF	chr7	140453130	G	A	Heterozygous	3.2	123	SNP	Novel	1172	---
BRAF	chr7	140453173	G	A	Heterozygous	2.3	62	SNP	Novel	1159	---
BRAF	chr7	140453185	G	A	Heterozygous	1.6	25	SNP	Novel	1144	---
BRAF	chr7	140453190	A	G	Heterozygous	1.3	16	SNP	Novel	1148	---
BRAF	chr7	140453199	G	A	Heterozygous	1.9	40	SNP	Novel	1144	---
BRAF	chr7	140453221	G	A	Heterozygous	2	46	SNP	Novel	1125	---
BRAF	chr7	140476668	G	A	Heterozygous	2.7	185	SNP	Novel	2704	---
BRAF	chr7	140476673	C	T	Heterozygous	2.6	165	SNP	Novel	2692	---
BRAF	chr7	140476699	G	A	Heterozygous	1.5	39	SNP	Novel	2699	---
BRAF	chr7	140476704	G	A	Heterozygous	1.3	26	SNP	Novel	2702	---
BRAF	chr7	140476713	C	T	Heterozygous	1.1	13	SNP	Novel	2708	---
BRAF	chr7	140476717	G	A	Heterozygous	1.9	79	SNP	Novel	2665	---
BRAF	chr7	140476720	C	T	Heterozygous	1.6	47	SNP	Novel	2711	---
BRAF	chr7	140476729	C	T	Heterozygous	1.5	42	SNP	Novel	2708	---
BRAF	chr7	140476731	G	A	Heterozygous	2	89	SNP	Novel	2707	---
BRAF	chr7	140476734	G	A	Heterozygous	1.5	39	SNP	Novel	2707	---
BRAF	chr7	140476743	C	T	Heterozygous	2	89	SNP	Novel	2707	---

BRAF	chr7	140476867	G	A	Heterozygous	1	11	SNP	Novel	3999	---
BRAF	chr7	140476903	G	A	Heterozygous	1.1	14	SNP	Novel	4000	---
BRAF	chr7	140476905	G	A	Heterozygous	1.1	19	SNP	Novel	3995	---
BRAF	chr7	140481387	C	T	Heterozygous	1.3	37	SNP	Novel	4000	---
BRAF	chr7	140481402	C	T	Heterozygous	1.5	54	SNP	Hotspot	3970	COSM461
BRAF	chr7	140481418	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
BRAF	chr7	140481430	C	T	Heterozygous	1.2	169	SNP	Novel	3992	---
BRAF	chr7	140481444	C	T	Heterozygous	1.2	86	SNP	Novel	3963	---
BRAF	chr7	140481451	G	A	Heterozygous	1.2	23	SNP	Novel	3992	---
BRAF	chr7	140481455	C	T	Heterozygous	1.4	46	SNP	Novel	4000	---
BRAF	chr7	140482803	G	A	Heterozygous	1	42	SNP	Novel	2990	---
BRAF	chr7	140482808	C	T	Heterozygous	1.2	24	SNP	Novel	3061	---
BRAF	chr7	140482820	C	T	Heterozygous	1	10	SNP	Novel	3069	---
BRAF	chr7	140482831	C	T	Heterozygous	2.4	157	SNP	Novel	3071	---
BRAF	chr7	140482842	G	A	Heterozygous	1.2	21	SNP	Novel	3082	---
BRAF	chr7	140482852	G	A	Heterozygous	1.1	15	SNP	Novel	3088	---
BRAF	chr7	140482864	C	T	Heterozygous	1.7	60	SNP	Novel	3087	---
BRAF	chr7	140482876	G	A	Heterozygous	1.1	14	SNP	Novel	3044	---
BRAF	chr7	140494203	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
BRAF	chr7	140494215	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
BRAF	chr7	140494226	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
BRAF	chr7	140494241	G	A	Heterozygous	1	11	SNP	Novel	4000	---
BRAF	chr7	140494244	G	A	Heterozygous	1.6	71	SNP	Novel	4000	---
BRAF	chr7	140494247	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
BRAF	chr7	140494263	G	A	Heterozygous	1	13	SNP	Novel	3998	---
BRAF	chr7	140494278	G	A	Heterozygous	1.5	53	SNP	Novel	4000	---
BRAF	chr7	140494283	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
BRAF	chr7	140500277	G	A	Heterozygous	1	10	SNP	Novel	4000	---
BRAF	chr7	140500284	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
BRAF	chr7	140500286	G	A	Heterozygous	1	12	SNP	Novel	3999	---
BRAF	chr7	140501264	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
BRAF	chr7	140501267	G	A	Heterozygous	1.3	37	SNP	Novel	3979	---
BRAF	chr7	140501294	G	A	Heterozygous	1.2	23	SNP	Novel	3998	---
BRAF	chr7	140507816	C	T	Heterozygous	1	13	SNP	Novel	3995	---
BRAF	chr7	140507818	G	A	Heterozygous	1.2	25	SNP	Novel	3999	---
JAK2	chr9	5073739	C	T	Heterozygous	2.9	126	SNP	Novel	1554	---
JAK2	chr9	5073743	C	A	Heterozygous	1.5	26	SNP	Novel	1555	---
JAK2	chr9	5073790	G	A	Heterozygous	2.4	82	SNP	Novel	1566	---

JAK2	chr9	5073799	C	T	Heterozygous	3.2	155	SNP	Novel	1566	---
JAK2	chr9	5073806	T	G	Heterozygous	1.2	13	SNP	Novel	1562	---
JAK2	chr9	5073813	C	T	Heterozygous	2.1	64	SNP	Novel	1568	---
JAK2	chr9	5073820	C	T	Heterozygous	2.8	120	SNP	Novel	1564	---
JAK2	chr9	5073836	G	-	Heterozygous	1.1	17	DEL	Novel	1521	---
GNAQ	chr9	80409393	C	T	Heterozygous	1.4	24	SNP	Novel	1715	---
GNAQ	chr9	80409414	C	T	Heterozygous	2.3	82	SNP	Novel	1707	---
GNAQ	chr9	80409416	C	T	Heterozygous	1.3	22	SNP	Novel	1707	---
GNAQ	chr9	80409433	C	T	Heterozygous	2.2	73	SNP	Novel	1705	---
GNAQ	chr9	80409453	C	T	Heterozygous	3.2	167	SNP	Novel	1691	---
GNAQ	chr9	80409491	C	T	Heterozygous	3	134	SNP	Novel	1682	---
GNAQ	chr9	80409495	C	T	Heterozygous	1.4	24	SNP	Novel	1682	---
GNAQ	chr9	80412497	C	T	Heterozygous	1.3	34	SNP	Novel	3995	---
GNAQ	chr9	80412509	C	T	Heterozygous	2.4	190	SNP	Novel	3995	---
GNAQ	chr9	80412517	G	A	Heterozygous	1.4	39	SNP	Novel	3994	---
GNAQ	chr9	80412536	C	T	Heterozygous	1.4	44	SNP	Novel	3995	---
GNAQ	chr9	80412539	C	T	Heterozygous	1.4	39	SNP	Novel	3993	---
GNAQ	chr9	80412542	C	T	Heterozygous	1.1	16	SNP	Novel	3994	---
RET	chr10	43609069	T	C	Heterozygous	1.2	21	SNP	Novel	3999	---
RET	chr10	43609077	C	T	Heterozygous	1.1	123	SNP	Novel	3976	---
RET	chr10	43609101	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
RET	chr10	43609110	C	T	Heterozygous	1.2	138	SNP	Novel	3986	---
RET	chr10	43609130	G	A	Heterozygous	2	122	SNP	Novel	4000	---
RET	chr10	43609132	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
RET	chr10	43609136	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
RET	chr10	43609139	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
RET	chr10	43609140	C	T	Heterozygous	1.8	98	SNP	Novel	3937	---
RET	chr10	43609146	C	T	Heterozygous	1.1	20	SNP	Novel	3986	---
RET	chr10	43609148	C	T	Heterozygous	1	13	SNP	Novel	4000	---
RET	chr10	43609154	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
RET	chr10	43609163	C	T	Heterozygous	1.8	219	SNP	Novel	3990	---
RET	chr10	43609176	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
RET	chr10	43609875	C	T	Heterozygous	4.9	562	SNP	Novel	2595	---
RET	chr10	43609880	G	A	Heterozygous	1.6	45	SNP	Novel	2623	---
RET	chr10	43609883	C	T	Heterozygous	2.6	164	SNP	Novel	2636	---
RET	chr10	43609884	C	T	Heterozygous	2.4	129	SNP	Novel	2636	---
RET	chr10	43609895	C	T	Heterozygous	3.6	313	SNP	Novel	2643	---
RET	chr10	43609901	C	T	Heterozygous	3.2	255	SNP	Novel	2648	---

RET	chr10	43609908	C	T	Heterozygous	1.5	41	SNP	Novel	2644	---
RET	chr10	43609913	C	T	Heterozygous	2.1	96	SNP	Novel	2646	---
RET	chr10	43609923	C	T	Heterozygous	1.6	50	SNP	Novel	2602	---
RET	chr10	43609930	C	T	Heterozygous	2	86	SNP	Novel	2673	---
RET	chr10	43609951	C	T	Heterozygous	6.7	1010	SNP	Novel	2683	---
RET	chr10	43609952	G	A	Heterozygous	1.5	37	SNP	Novel	2687	---
RET	chr10	43609968	C	T	Heterozygous	2.2	116	SNP	Novel	2699	---
RET	chr10	43609989	C	T	Heterozygous	1.3	29	SNP	Novel	2696	---
RET	chr10	43609990	G	A	Heterozygous	1.2	19	SNP	Novel	2697	---
RET	chr10	43609995	G	A	Heterozygous	1.4	36	SNP	Novel	2666	---
RET	chr10	43609999	C	T	Heterozygous	1.4	31	SNP	Novel	2685	---
RET	chr10	43610010	C	T	Heterozygous	1.2	21	SNP	Novel	2672	---
RET	chr10	43613818	C	T	Heterozygous	1.4	40	SNP	Novel	3968	---
RET	chr10	43613838	G	A	Heterozygous	1.5	58	SNP	Novel	4000	---
RET	chr10	43613841	C	T	Heterozygous	1.1	15	SNP	Novel	3993	---
RET	chr10	43613857	C	T	Heterozygous	1.2	21	SNP	Novel	3999	---
RET	chr10	43613867	C	T	Heterozygous	1.2	27	SNP	Novel	3999	---
RET	chr10	43613868	G	A	Heterozygous	1.2	23	SNP	Novel	3997	---
RET	chr10	43613886	C	T	Heterozygous	1.4	44	SNP	Novel	3997	---
RET	chr10	43613889	C	T	Heterozygous	1	85	SNP	Novel	3993	---
RET	chr10	43615550	G	A	Heterozygous	2.4	116	SNP	Novel	2191	---
RET	chr10	43615554	G	A	Heterozygous	3.5	244	SNP	Novel	2192	---
RET	chr10	43615574	G	A	Heterozygous	3	186	SNP	Novel	2205	---
RET	chr10	43615607	-	T	Heterozygous	5.2	248	INS	Novel	2159	---
RET	chr10	43615608	C	T	Heterozygous	6.5	773	SNP	Novel	2191	---
RET	chr10	43615648	C	T	Heterozygous	2.5	128	SNP	Novel	2184	---
RET	chr10	43615651	G	A	Heterozygous	3.2	206	SNP	Novel	2185	---
RET	chr10	43615679	C	T	Heterozygous	3	182	SNP	Novel	2129	---
RET	chr10	43617319	C	T	Heterozygous	2.6	138	SNP	Novel	2240	---
RET	chr10	43617322	G	A	Heterozygous	1.5	36	SNP	Novel	2242	---
RET	chr10	43617323	G	A	Heterozygous	2.7	147	SNP	Novel	2241	---
RET	chr10	43617324	C	T	Heterozygous	2.2	99	SNP	Novel	2242	---
RET	chr10	43617328	C	T	Heterozygous	1.7	53	SNP	Novel	2243	---
RET	chr10	43617339	C	T	Heterozygous	3.8	446	SNP	Novel	2227	---
RET	chr10	43617345	C	T	Heterozygous	2.4	118	SNP	Novel	2245	---
RET	chr10	43617353	G	A	Heterozygous	1.9	69	SNP	Novel	2225	---
RET	chr10	43617406	G	A	Heterozygous	2	73	SNP	Novel	2159	---
RET	chr10	43617429	C	T	Heterozygous	3.3	215	SNP	Novel	2089	---

FGFR2	chr10	123247514	C	T	Heterozygous	1.2	23	SNP	Novel	3973	---
FGFR2	chr10	123247549	C	T	Heterozygous	1.3	35	SNP	Novel	4000	---
FGFR2	chr10	123247552	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
FGFR2	chr10	123247554	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
FGFR2	chr10	123247592	C	T	Heterozygous	1.8	97	SNP	Novel	3989	---
FGFR2	chr10	123257959	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
FGFR2	chr10	123258000	C	T	Heterozygous	1	11	SNP	Novel	4000	---
FGFR2	chr10	123258015	G	A	Heterozygous	1.3	32	SNP	Novel	4000	---
FGFR2	chr10	123258019	G	A	Heterozygous	1.2	25	SNP	Novel	3995	---
FGFR2	chr10	123258030	G	A	Heterozygous	1	11	SNP	Novel	3994	---
FGFR2	chr10	123274724	G	A	Heterozygous	1.9	100	SNP	Novel	3940	---
FGFR2	chr10	123274733	G	A	Heterozygous	2.2	150	SNP	Novel	3951	---
FGFR2	chr10	123274735	C	T	Heterozygous	1.2	24	SNP	Novel	3954	---
FGFR2	chr10	123274737	G	A	Heterozygous	1.1	20	SNP	Novel	3955	---
FGFR2	chr10	123274752	G	A	Heterozygous	1.6	69	SNP	Novel	3958	---
FGFR2	chr10	123274763	G	A	Heterozygous	1.7	79	SNP	Novel	3958	---
FGFR2	chr10	123274781	G	A	Heterozygous	1.2	24	SNP	Novel	3956	---
FGFR2	chr10	123274782	G	A	Heterozygous	3.3	406	SNP	Novel	3955	---
FGFR2	chr10	123274789	C	T	Heterozygous	1.3	36	SNP	Novel	3941	---
FGFR2	chr10	123274798	C	T	Heterozygous	1.1	19	SNP	Novel	3953	---
FGFR2	chr10	123274800	G	A	Heterozygous	1.1	17	SNP	Novel	3954	---
FGFR2	chr10	123274801	G	A	Heterozygous	1.6	73	SNP	Novel	3952	---
FGFR2	chr10	123274802	G	A	Heterozygous	1	12	SNP	Novel	3952	---
FGFR2	chr10	123274803	G	A	Heterozygous	3.1	348	SNP	Novel	3954	---
FGFR2	chr10	123274809	G	A	Heterozygous	1.2	24	SNP	Novel	3967	---
FGFR2	chr10	123274831	G	A	Heterozygous	1.1	20	SNP	Novel	3949	---
FGFR2	chr10	123276884	C	T	Heterozygous	1.6	68	SNP	Novel	3997	---
FGFR2	chr10	123276891	G	A	Heterozygous	1.9	109	SNP	Novel	4000	---
FGFR2	chr10	123276894	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
FGFR2	chr10	123276919	G	A	Heterozygous	2.1	136	SNP	Novel	3998	---
FGFR2	chr10	123276920	T	C	Heterozygous	1.5	50	SNP	Novel	3999	---
FGFR2	chr10	123276929	G	A	Heterozygous	1.5	51	SNP	Novel	3999	---
FGFR2	chr10	123276944	C	T	Heterozygous	1.8	91	SNP	Novel	4000	---
FGFR2	chr10	123276958	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
FGFR2	chr10	123276963	G	A	Heterozygous	1.5	58	SNP	Novel	4000	---
FGFR2	chr10	123276978	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
FGFR2	chr10	123276981	G	A	Heterozygous	1.6	40	SNP	Novel	2373	---
FGFR2	chr10	123279620	C	T	Heterozygous	1.4	40	SNP	Novel	3998	---

FGFR2	chr10	123279622	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
FGFR2	chr10	123279643	C	T	Heterozygous	1	11	SNP	Novel	3976	---
FGFR2	chr10	123279644	G	A	Heterozygous	1.5	58	SNP	Novel	3998	---
FGFR2	chr10	123279646	C	T	Heterozygous	1.3	30	SNP	Novel	3998	---
FGFR2	chr10	123279664	G	A	Heterozygous	1.2	85	SNP	Novel	3970	---
FGFR2	chr10	123279692	G	A	Heterozygous	1.8	96	SNP	Novel	3996	---
FGFR2	chr10	123279696	G	A	Heterozygous	1.2	60	SNP	Novel	3982	---
FGFR2	chr10	123279713	G	A	Heterozygous	1.2	21	SNP	Novel	3998	---
FGFR2	chr10	123284074	C	T	Heterozygous	1.3	30	SNP	Novel	3977	---
FGFR2	chr10	123284080	G	A	Heterozygous	3.9	544	SNP	Novel	3974	---
FGFR2	chr10	123284092	C	T	Heterozygous	1.2	22	SNP	Novel	3968	---
FGFR2	chr10	123284097	G	A	Heterozygous	2.7	249	SNP	Novel	3976	---
FGFR2	chr10	123284101	C	T	Heterozygous	0.9	67	SNP	Novel	3930	---
FGFR2	chr10	123284105	C	T	Heterozygous	2.7	246	SNP	Novel	3959	---
FGFR2	chr10	123284109	G	A	Heterozygous	1.2	26	SNP	Novel	3961	---
FGFR2	chr10	123284113	C	T	Heterozygous	1.2	24	SNP	Novel	3945	---
FGFR2	chr10	123284123	C	T	Heterozygous	1.1	19	SNP	Novel	3933	---
FGFR2	chr10	123284125	G	A	Heterozygous	1	14	SNP	Novel	3929	---
FGFR2	chr10	123284154	C	T	Heterozygous	1.5	54	SNP	Novel	3874	---
FGFR2	chr10	123284156	G	A	Heterozygous	1.1	18	SNP	Novel	3870	---
FGFR2	chr10	123284163	G	A	Heterozygous	2.6	223	SNP	Novel	3866	---
FGFR2	chr10	123306084	C	T	Heterozygous	1.1	15	SNP	Novel	3994	---
FGFR2	chr10	123306098	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
FGFR2	chr10	123306116	G	A	Heterozygous	1.3	37	SNP	Novel	3999	---
FGFR2	chr10	123312164	G	A	Heterozygous	1.9	71	SNP	Novel	2339	---
FGFR2	chr10	123312166	C	T	Heterozygous	1.3	23	SNP	Novel	2344	---
FGFR2	chr10	123312181	G	A	Heterozygous	1.3	60	SNP	Novel	2389	---
FGFR2	chr10	123312185	G	A	Heterozygous	1.9	67	SNP	Novel	2315	---
FGFR2	chr10	123312186	C	T	Heterozygous	3.1	228	SNP	Novel	2452	---
FGFR2	chr10	123312189	G	A	Heterozygous	2	85	SNP	Novel	2476	---
FGFR2	chr10	123312198	C	T	Heterozygous	1.9	399	SNP	Novel	2467	---
FGFR2	chr10	123312202	C	T	Heterozygous	1.9	70	SNP	Novel	2496	---
FGFR2	chr10	123312203	G	A	Heterozygous	1	11	SNP	Novel	2497	---
FGFR2	chr10	123312206	C	T	Heterozygous	1.4	31	SNP	Novel	2506	---
FGFR2	chr10	123312217	C	T	Heterozygous	2.7	171	SNP	Novel	2562	---
FGFR2	chr10	123312219	G	A	Heterozygous	1.4	32	SNP	Novel	2559	---
FGFR2	chr10	123312221	C	T	Heterozygous	1.1	12	SNP	Novel	2560	---
FGFR2	chr10	123350048	C	T	Heterozygous	2.1	48	SNP	Novel	1159	---

FGFR2	chr10	123350060	G	A	Heterozygous	4.1	190	SNP	Novel	1169	---
FGFR2	chr10	123350123	C	T	Heterozygous	0.9	27	SNP	Novel	1160	---
HRAS	chr11	533813	C	T	Heterozygous	1.6	58	SNP	Novel	3296	---
HRAS	chr11	533815	C	T	Heterozygous	1.1	17	SNP	Novel	3297	---
HRAS	chr11	533825	G	A	Heterozygous	1.6	58	SNP	Novel	3316	---
HRAS	chr11	533832	C	T	Heterozygous	1.5	167	SNP	Novel	3309	---
HRAS	chr11	533837	G	A	Heterozygous	1.9	93	SNP	Novel	3319	---
HRAS	chr11	533839	G	A	Heterozygous	1	12	SNP	Novel	3319	---
HRAS	chr11	533846	C	T	Heterozygous	1.1	13	SNP	Novel	3323	---
HRAS	chr11	533851	C	T	Heterozygous	1.4	35	SNP	Novel	3319	---
HRAS	chr11	533854	G	A	Heterozygous	1.7	64	SNP	Novel	3318	---
HRAS	chr11	533867	C	T	Heterozygous	1.1	19	SNP	Novel	3306	---
HRAS	chr11	533870	C	T	Heterozygous	1.7	72	SNP	Novel	3303	---
HRAS	chr11	533872	C	T	Heterozygous	3.4	359	SNP	Novel	3303	---
HRAS	chr11	533882	G	A	Heterozygous	1.3	32	SNP	Novel	3298	---
HRAS	chr11	533887	C	T	Heterozygous	1.9	91	SNP	Novel	3292	---
HRAS	chr11	533890	G	A	Heterozygous	1.4	38	SNP	Novel	3293	---
HRAS	chr11	533900	C	T	Heterozygous	1.5	49	SNP	Novel	3289	---
HRAS	chr11	533926	C	T	Heterozygous	1.3	27	SNP	Novel	3234	---
HRAS	chr11	534248	C	T	Heterozygous	1.1	18	SNP	Novel	3998	---
HRAS	chr11	534250	G	A	Heterozygous	2.4	204	SNP	Novel	4000	---
HRAS	chr11	534260	G	A	Heterozygous	1	13	SNP	Novel	4000	---
HRAS	chr11	534280	CC	TT	Heterozygous	1.2	95	MNP	Novel	3991	---
HRAS	chr11	534283	C	T	Heterozygous	1.1	17	SNP	Novel	3999	---
HRAS	chr11	534288	C	T	Heterozygous	0.9	8	SNP	Hotspot	3997	COSM484
HRAS	chr11	534290	G	A	Heterozygous	2.8	272	SNP	Novel	3999	---
HRAS	chr11	534291	G	A	Heterozygous	1	13	SNP	Novel	3999	---
HRAS	chr11	534299	C	T	Heterozygous	1	10	SNP	Novel	3957	---
HRAS	chr11	534308	C	T	Heterozygous	1.4	47	SNP	Novel	4000	---
HRAS	chr11	534318	G	A	Heterozygous	1.4	39	SNP	Novel	3998	---
HRAS	chr11	534320	C	T	Heterozygous	1.1	18	SNP	Novel	3997	---
HRAS	chr11	534323	C	T	Heterozygous	4.5	747	SNP	Novel	4000	---
HRAS	chr11	534324	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
HRAS	chr11	534327	C	T	Heterozygous	2	122	SNP	Novel	4000	---
HRAS	chr11	534335	G	A	Heterozygous	1.1	69	SNP	Novel	3981	---
HRAS	chr11	534341	G	A	Heterozygous	2.3	171	SNP	Novel	3997	---
HRAS	chr11	534342	G	A	Heterozygous	1.5	55	SNP	Novel	3998	---
HRAS	chr11	534349	G	A	Heterozygous	1	14	SNP	Novel	3969	---

KRAS	chr12	25364774	C	T	Heterozygous	1.1	16	SNP	Novel	2614	---
KRAS	chr12	25364782	G	A	Heterozygous	1.1	14	SNP	Novel	2618	---
KRAS	chr12	25364785	C	T	Heterozygous	1.3	94	SNP	Novel	2603	---
KRAS	chr12	25364800	C	T	Heterozygous	1.3	23	SNP	Novel	2617	---
KRAS	chr12	25364802	G	A	Heterozygous	1.2	21	SNP	Novel	2613	---
KRAS	chr12	25364817	C	T	Heterozygous	1.2	17	SNP	Novel	2577	---
KRAS	chr12	25364835	C	T	Heterozygous	2.1	101	SNP	Novel	2566	---
KRAS	chr12	25364862	C	T	Heterozygous	1.1	13	SNP	Novel	2512	---
KRAS	chr12	25378561	G	A	Heterozygous	2.7	150	SNP	Hotspot	2164	COSM19900
KRAS	chr12	25378571	C	T	Heterozygous	3.5	250	SNP	Novel	2159	---
KRAS	chr12	25378585	C	T	Heterozygous	1.6	42	SNP	Novel	2181	---
KRAS	chr12	25378598	C	T	Heterozygous	1.9	67	SNP	Novel	2190	---
KRAS	chr12	25378604	C	T	Heterozygous	1.1	14	SNP	Novel	2198	---
KRAS	chr12	25378625	C	T	Heterozygous	1.4	26	SNP	Novel	2198	---
KRAS	chr12	25378635	A	G	Heterozygous	1.2	19	SNP	Novel	2193	---
KRAS	chr12	25378638	C	T	Heterozygous	1.2	19	SNP	Novel	2187	---
KRAS	chr12	25378657	A	G	Heterozygous	1.2	15	SNP	Novel	2173	---
KRAS	chr12	25380272	C	T	Heterozygous	1.1	16	SNP	Novel	3998	---
KRAS	chr12	25380290	G	A	Heterozygous	1.2	30	SNP	Novel	4000	---
KRAS	chr12	25380316	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
KRAS	chr12	25386020	C	T	Heterozygous	1.3	17	SNP	Novel	1736	---
KRAS	chr12	25386047	C	T	Heterozygous	1.4	23	SNP	Novel	1750	---
KRAS	chr12	25386063	C	A	Heterozygous	97.6	34798	SNP	Novel	1692	---
KRAS	chr12	25386054	CCACCACC	TCACCACC	Heterozygous	2.4	34798	MNP	Novel	1692	---
KRAS	chr12	25386073	C	T	Heterozygous	2.2	457	SNP	Novel	1757	---
KRAS	chr12	25386107	C	T	Heterozygous	2.4	102	SNP	Novel	1844	---
KRAS	chr12	25386112	G	A	Heterozygous	1.1	13	SNP	Novel	1839	---
KRAS	chr12	25386123	C	T	Heterozygous	1.6	39	SNP	Novel	1832	---
KRAS	chr12	25386917	C	T	Heterozygous	1.7	38	SNP	Novel	1681	---
KRAS	chr12	25386925	C	T	Heterozygous	1.2	17	SNP	Novel	1685	---
KRAS	chr12	25386955	T	C	Heterozygous	1.2	14	SNP	Novel	1716	---
KRAS	chr12	25386959	C	T	Heterozygous	1.2	53	SNP	Novel	1719	---
KRAS	chr12	25386972	G	A	Heterozygous	1.9	53	SNP	Novel	1716	---
KRAS	chr12	25386982	C	T	Heterozygous	1.3	21	SNP	Novel	1732	---
KRAS	chr12	25386986	G	A	Heterozygous	2.6	111	SNP	Novel	1732	---
KRAS	chr12	25386997	C	T	Heterozygous	3	150	SNP	Novel	1734	---
KRAS	chr12	25387192	G	A	Heterozygous	2.6	147	SNP	Novel	2266	---
KRAS	chr12	25387219	G	A	Heterozygous	3.1	194	SNP	Novel	2257	---

KRAS	chr12	25387224	C	T	Heterozygous	1.1	11	SNP	Novel	2265	---
KRAS	chr12	25387226	G	A	Heterozygous	1.5	33	SNP	Novel	2263	---
KRAS	chr12	25387229	G	A	Heterozygous	2.1	84	SNP	Novel	2262	---
KRAS	chr12	25387270	G	A	Heterozygous	1.3	22	SNP	Novel	2131	---
KRAS	chr12	25389168	C	T	Heterozygous	1.5	39	SNP	Novel	2889	---
KRAS	chr12	25391167	C	T	Heterozygous	1.7	37	SNP	Novel	1626	---
KRAS	chr12	25391170	G	A	Heterozygous	1.8	46	SNP	Novel	1656	---
KRAS	chr12	25391171	G	A	Heterozygous	1.6	33	SNP	Novel	1648	---
KRAS	chr12	25391193	G	A	Heterozygous	1.1	11	SNP	Novel	1656	---
KRAS	chr12	25391212	G	A	Heterozygous	1.1	13	SNP	Novel	1671	---
KRAS	chr12	25391222	G	A	Heterozygous	1.1	11	SNP	Novel	1674	---
KRAS	chr12	25391250	C	T	Heterozygous	1.2	13	SNP	Novel	1639	---
KRAS	chr12	25398189	A	G	Heterozygous	1.6	59	SNP	Novel	3454	---
KRAS	chr12	25398232	C	T	Heterozygous	1.4	42	SNP	Novel	3515	---
KRAS	chr12	25398234	C	T	Heterozygous	1.8	80	SNP	Novel	3503	---
KRAS	chr12	25398253	C	T	Heterozygous	1.1	17	SNP	Novel	3516	---
KRAS	chr12	25398259	C	T	Heterozygous	4.3	602	SNP	Novel	3512	---
KRAS	chr12	25398271	C	T	Heterozygous	2.1	125	SNP	Novel	3489	---
KRAS	chr12	25398280	G	A	Heterozygous	1.4	172	SNP	Novel	3476	---
KRAS	chr12	25398290	C	T	Heterozygous	5.6	956	SNP	Novel	3464	---
KRAS	chr12	25400191	C	T	Heterozygous	1.2	18	SNP	Novel	2330	---
KRAS	chr12	25400199	C	T	Heterozygous	1.2	16	SNP	Novel	2331	---
KRAS	chr12	25400210	G	A	Heterozygous	1.8	57	SNP	Novel	2330	---
KRAS	chr12	25400216	C	T	Heterozygous	2.1	93	SNP	Novel	2329	---
KRAS	chr12	25400264	C	T	Heterozygous	1.3	21	SNP	Novel	2317	---
ERBB3	chr12	56477614	G	A	Heterozygous	1.9	111	SNP	Novel	3999	---
ERBB3	chr12	56477616	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
ERBB3	chr12	56477621	G	A	Heterozygous	1.5	58	SNP	Novel	4000	---
ERBB3	chr12	56477632	G	A	Heterozygous	2	120	SNP	Novel	3984	---
ERBB3	chr12	56477642	G	A	Heterozygous	1.7	77	SNP	Novel	4000	---
ERBB3	chr12	56477650	G	A	Heterozygous	1.4	50	SNP	Novel	4000	---
ERBB3	chr12	56477651	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
ERBB3	chr12	56477657	G	A	Heterozygous	1.6	64	SNP	Novel	4000	---
ERBB3	chr12	56477666	G	A	Heterozygous	1.1	14	SNP	Novel	3996	---
ERBB3	chr12	56477668	C	T	Heterozygous	1.2	27	SNP	Novel	3999	---
ERBB3	chr12	56477671	C	T	Heterozygous	1.3	34	SNP	Novel	4000	---
ERBB3	chr12	56477676	C	T	Heterozygous	2.3	177	SNP	Novel	3967	---
ERBB3	chr12	56477677	C	T	Heterozygous	1.8	91	SNP	Novel	4000	---

ERBB3	chr12	56477683	G	A	Heterozygous	1.8	91	SNP	Novel	4000	---
ERBB3	chr12	56477694	AG	TA	Heterozygous	1	83071	MNP	Novel	3989	---
ERBB3	chr12	56477694	A	T	Heterozygous	99	83071	SNP	Novel	3989	---
ERBB3	chr12	56478809	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
ERBB3	chr12	56478821	G	A	Heterozygous	2.5	224	SNP	Novel	4000	---
ERBB3	chr12	56478842	C	T	Heterozygous	1.6	71	SNP	Novel	4000	---
ERBB3	chr12	56478861	G	A	Heterozygous	1	12	SNP	Novel	3999	---
ERBB3	chr12	56478886	G	A	Heterozygous	1.4	39	SNP	Novel	3994	---
ERBB3	chr12	56478892	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
ERBB3	chr12	56478895	C	T	Heterozygous	1.1	19	SNP	Novel	3997	---
ERBB3	chr12	56478899	G	A	Heterozygous	1.2	26	SNP	Novel	3981	---
ERBB3	chr12	56481569	C	T	Heterozygous	3.3	267	SNP	Novel	2542	---
ERBB3	chr12	56481600	C	T	Heterozygous	5.4	666	SNP	Novel	2551	---
ERBB3	chr12	56481626	C	T	Heterozygous	2.5	150	SNP	Novel	2564	---
ERBB3	chr12	56481633	C	T	Heterozygous	2.6	159	SNP	Novel	2559	---
ERBB3	chr12	56481643	C	T	Heterozygous	1.7	59	SNP	Novel	2587	---
ERBB3	chr12	56481647	C	T	Heterozygous	3.2	721	SNP	Novel	2574	---
ERBB3	chr12	56481659	G	A	Heterozygous	3.4	286	SNP	Hotspot	2599	COSM4043440
ERBB3	chr12	56481665	G	A	Heterozygous	2.9	258	SNP	Novel	2580	---
ERBB3	chr12	56481670	C	T	Heterozygous	2.3	125	SNP	Novel	2622	---
ERBB3	chr12	56481672	C	T	Heterozygous	2.7	171	SNP	Novel	2624	---
ERBB3	chr12	56481678	C	T	Heterozygous	3.1	232	SNP	Novel	2625	---
ERBB3	chr12	56481680	C	T	Heterozygous	3.3	271	SNP	Novel	2640	---
ERBB3	chr12	56481689	G	T	Heterozygous	2.4	134	SNP	Novel	2633	---
ERBB3	chr12	56481693	G	A	Heterozygous	1.3	27	SNP	Novel	2633	---
ERBB3	chr12	56482312	C	T	Heterozygous	1.6	74	SNP	Novel	4000	---
ERBB3	chr12	56482321	C	T	Heterozygous	1.1	16	SNP	Novel	3998	---
ERBB3	chr12	56482323	C	T	Heterozygous	1.1	19	SNP	Novel	4000	---
ERBB3	chr12	56482348	C	T	Heterozygous	1.6	73	SNP	Novel	3975	---
ERBB3	chr12	56482371	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
ERBB3	chr12	56482535	G	A	Heterozygous	1.5	44	SNP	Novel	3089	---
ERBB3	chr12	56482556	G	A	Heterozygous	1.7	66	SNP	Novel	3106	---
ERBB3	chr12	56482563	C	T	Heterozygous	1.4	41	SNP	Novel	3105	---
ERBB3	chr12	56482572	G	T	Heterozygous	1.1	14	SNP	Novel	3102	---
ERBB3	chr12	56482573	G	A	Heterozygous	1.4	32	SNP	Novel	3102	---
ERBB3	chr12	56482592	G	A	Heterozygous	1.8	81	SNP	Novel	3096	---
ERBB3	chr12	56482612	A	G	Heterozygous	1.9	94	SNP	Novel	3102	---
ERBB3	chr12	56482614	C	T	Heterozygous	1.4	38	SNP	Novel	3102	---

ERBB3	chr12	56482618	G	A	Heterozygous	2	102	SNP	Novel	3070	---
ERBB3	chr12	56482623	C	T	Heterozygous	2.2	126	SNP	Novel	3109	---
ERBB3	chr12	56482624	C	T	Heterozygous	2.3	140	SNP	Novel	3109	---
ERBB3	chr12	56482638	C	T	Heterozygous	2	96	SNP	Novel	3109	---
ERBB3	chr12	56482641	C	T	Heterozygous	1.2	19	SNP	Novel	3108	---
CDK4	chr12	58142058	G	A	Heterozygous	1.4	19	SNP	Novel	1366	---
CDK4	chr12	58142059	G	A	Heterozygous	2.5	82	SNP	Novel	1366	---
CDK4	chr12	58142093	G	A	Heterozygous	1.3	18	SNP	Novel	1452	---
CDK4	chr12	58142102	C	T	Heterozygous	1.9	79	SNP	Novel	1459	---
CDK4	chr12	58142114	G	A	Heterozygous	1.3	18	SNP	Novel	1458	---
CDK4	chr12	58142121	G	A	Heterozygous	3.1	136	SNP	Novel	1451	---
CDK4	chr12	58142135	G	A	Heterozygous	3.6	180	SNP	Novel	1410	---
CDK4	chr12	58142138	G	A	Heterozygous	1.5	24	SNP	Novel	1440	---
CDK4	chr12	58142142	C	A	Heterozygous	1.1	12	SNP	Novel	1405	---
CDK4	chr12	58142155	G	A	Heterozygous	1.1	10	SNP	Novel	1387	---
CDK4	chr12	58142245	C	T	Heterozygous	1.8	93	SNP	Novel	3799	---
CDK4	chr12	58142246	C	T	Heterozygous	1.5	50	SNP	Novel	3802	---
CDK4	chr12	58142251	C	T	Heterozygous	1.4	44	SNP	Novel	3833	---
CDK4	chr12	58142258	C	T	Heterozygous	2.7	247	SNP	Novel	3840	---
CDK4	chr12	58142265	G	A	Heterozygous	1.3	29	SNP	Novel	3824	---
CDK4	chr12	58142280	C	T	Heterozygous	1.7	225	SNP	Novel	3823	---
CDK4	chr12	58142287	C	T	Heterozygous	3.1	336	SNP	Novel	3850	---
CDK4	chr12	58142292	G	A	Heterozygous	1.8	91	SNP	Novel	3854	---
CDK4	chr12	58142296	C	T	Heterozygous	1.2	21	SNP	Novel	3855	---
CDK4	chr12	58142315	G	A	Heterozygous	1.1	15	SNP	Novel	3869	---
CDK4	chr12	58142334	G	A	Heterozygous	1.5	56	SNP	Novel	3878	---
CDK4	chr12	58142337	G	A	Heterozygous	2.1	137	SNP	Novel	3881	---
CDK4	chr12	58142355	C	T	Heterozygous	1.4	41	SNP	Novel	3866	---
CDK4	chr12	58142363	G	A	Heterozygous	1	12	SNP	Novel	3850	---
CDK4	chr12	58142896	C	T	Heterozygous	1.7	77	SNP	Novel	4000	---
CDK4	chr12	58142904	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
CDK4	chr12	58142909	C	T	Heterozygous	1.7	76	SNP	Novel	4000	---
CDK4	chr12	58142928	C	T	Heterozygous	1.3	34	SNP	Novel	3999	---
CDK4	chr12	58142934	C	T	Heterozygous	1.7	70	SNP	Novel	3938	---
CDK4	chr12	58142939	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
CDK4	chr12	58142942	G	A	Heterozygous	1	10	SNP	Novel	3999	---
CDK4	chr12	58142965	C	T	Heterozygous	1	12	SNP	Novel	3997	---
CDK4	chr12	58142974	C	T	Heterozygous	1.3	34	SNP	Novel	4000	---

CDK4	chr12	58143251	C	T	Heterozygous	1.1	96	SNP	Novel	3982	---
CDK4	chr12	58143262	C	T	Heterozygous	1.6	72	SNP	Novel	3999	---
CDK4	chr12	58143273	C	T	Heterozygous	1.9	172	SNP	Novel	3967	---
CDK4	chr12	58143302	G	A	Heterozygous	1.4	49	SNP	Novel	4000	---
CDK4	chr12	58144387	G	A	Heterozygous	2.4	111	SNP	Novel	2135	---
CDK4	chr12	58144388	A	G	Heterozygous	1.4	25	SNP	Novel	2135	---
CDK4	chr12	58144390	C	T	Heterozygous	1.1	12	SNP	Novel	2135	---
CDK4	chr12	58144393	G	A	Heterozygous	1.3	23	SNP	Novel	2124	---
CDK4	chr12	58144395	G	A	Heterozygous	1.4	31	SNP	Novel	2140	---
CDK4	chr12	58144400	G	A	Heterozygous	1.7	78	SNP	Novel	2129	---
CDK4	chr12	58144408	C	T	Heterozygous	1.6	43	SNP	Novel	2156	---
CDK4	chr12	58144411	G	A	Heterozygous	2.8	162	SNP	Novel	2160	---
CDK4	chr12	58144442	C	T	Heterozygous	2.8	521	SNP	Novel	2156	---
CDK4	chr12	58144443	G	A	Heterozygous	1.9	65	SNP	Novel	2220	---
CDK4	chr12	58144468	G	A	Heterozygous	1.2	18	SNP	Novel	2222	---
CDK4	chr12	58144469	C	T	Heterozygous	1.2	16	SNP	Novel	2221	---
CDK4	chr12	58144470	C	T	Heterozygous	2.2	91	SNP	Novel	2221	---
CDK4	chr12	58144472	A	G	Heterozygous	1.2	16	SNP	Novel	2216	---
CDK4	chr12	58144574	G	A	Heterozygous	1.4	300	SNP	Novel	3389	---
CDK4	chr12	58144585	G	A	Heterozygous	1.7	73	SNP	Novel	3434	---
CDK4	chr12	58144594	G	A	Heterozygous	3.7	444	SNP	Novel	3461	---
CDK4	chr12	58144610	G	A	Heterozygous	4	506	SNP	Novel	3472	---
CDK4	chr12	58144614	G	A	Heterozygous	1.4	40	SNP	Novel	3477	---
CDK4	chr12	58144625	G	A	Heterozygous	1.9	93	SNP	Novel	3478	---
CDK4	chr12	58144628	C	T	Heterozygous	1	13	SNP	Novel	3477	---
CDK4	chr12	58144631	G	A	Heterozygous	1.4	38	SNP	Novel	3478	---
CDK4	chr12	58144638	C	T	Heterozygous	1	13	SNP	Novel	3474	---
CDK4	chr12	58144661	C	T	Heterozygous	1.2	22	SNP	Novel	3478	---
CDK4	chr12	58144665	C	T	Heterozygous	41.5	19981	SNP	Novel	3475	---
CDK4	chr12	58144672	C	T	Heterozygous	1.2	22	SNP	Novel	3468	---
CDK4	chr12	58144889	A	G	Heterozygous	0.9	38	SNP	Novel	3992	---
CDK4	chr12	58144896	G	A	Heterozygous	1.2	26	SNP	Novel	3999	---
CDK4	chr12	58144905	G	A	Heterozygous	1.1	16	SNP	Novel	3988	---
CDK4	chr12	58144913	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---
CDK4	chr12	58144916	C	T	Heterozygous	1	10	SNP	Novel	4000	---
CDK4	chr12	58144936	G	A	Heterozygous	1	10	SNP	Novel	4000	---
CDK4	chr12	58144976	C	T	Heterozygous	1	10	SNP	Novel	4000	---
CDK4	chr12	58145360	T	C	Heterozygous	1	48	SNP	Novel	2124	---

CDK4	chr12	58145361	C	T	Heterozygous	2.4	110	SNP	Novel	2143	---
CDK4	chr12	58145364	C	T	Heterozygous	1.9	65	SNP	Novel	2150	---
CDK4	chr12	58145373	C	T	Heterozygous	2.4	504	SNP	Novel	2109	---
CDK4	chr12	58145381	G	A	Heterozygous	1.7	51	SNP	Novel	2391	---
CDK4	chr12	58145396	C	T	Heterozygous	2.6	156	SNP	Novel	2416	---
CDK4	chr12	58145413	G	A	Heterozygous	2	85	SNP	Novel	2398	---
CDK4	chr12	58145445	G	A	Heterozygous	2.1	88	SNP	Novel	2345	---
CDK4	chr12	58145448	C	T	Heterozygous	2.2	97	SNP	Novel	2330	---
CDK4	chr12	58145458	C	T	Heterozygous	2.2	101	SNP	Novel	2341	---
CDK4	chr12	58145476	C	T	Heterozygous	2.3	111	SNP	Novel	2335	---
CDK4	chr12	58145710	G	A	Heterozygous	3.7	361	SNP	Novel	2901	---
CDK4	chr12	58145731	C	T	Heterozygous	1.1	12	SNP	Novel	2936	---
CDK4	chr12	58145738	C	T	Heterozygous	1.7	56	SNP	Novel	2969	---
CDK4	chr12	58145751	G	A	Heterozygous	2.8	224	SNP	Novel	3050	---
CDK4	chr12	58145752	C	T	Heterozygous	1.2	24	SNP	Novel	3050	---
CDK4	chr12	58145753	G	A	Heterozygous	3	247	SNP	Novel	3045	---
CDK4	chr12	58145772	C	T	Heterozygous	1.3	30	SNP	Novel	3109	---
CDK4	chr12	58145775	G	A	Heterozygous	1.1	17	SNP	Novel	3114	---
CDK4	chr12	58145777	C	T	Heterozygous	2.7	211	SNP	Novel	3117	---
CDK4	chr12	58145957	C	T	Heterozygous	1	12	SNP	Novel	3990	---
CDK4	chr12	58145968	C	T	Heterozygous	1.2	29	SNP	Novel	4000	---
CDK4	chr12	58145988	G	A	Heterozygous	0.8	49	SNP	Novel	3927	---
CDK4	chr12	58146001	G	A	Heterozygous	1.2	255	SNP	Novel	3824	---
CDK4	chr12	58146016	C	T	Heterozygous	1	10	SNP	Novel	4000	---
AKT1	chr14	105246447	G	A	Heterozygous	7.7	304	SNP	Novel	648	---
AKT1	chr14	105246455	C	T	Heterozygous	1.2	11	SNP	Novel	656	---
AKT1	chr14	105246506	C	T	Heterozygous	7.3	348	SNP	Novel	795	---
AKT1	chr14	105246513	G	A	Heterozygous	8.1	429	SNP	Novel	826	---
AKT1	chr14	105246526	C	T	Heterozygous	6.5	315	SNP	Novel	878	---
AKT1	chr14	105246535	C	T	Heterozygous	8.2	456	SNP	Novel	882	---
AKT1	chr14	105246583	C	T	Heterozygous	6.4	309	SNP	Novel	873	---
MAP2K1	chr15	66727422	G	A	Heterozygous	1	13	SNP	Novel	3999	---
MAP2K1	chr15	66727424	G	A	Heterozygous	1.1	19	SNP	Novel	3926	---
MAP2K1	chr15	66727428	G	A	Heterozygous	1.7	81	SNP	Novel	3997	---
MAP2K1	chr15	66727431	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
MAP2K1	chr15	66727445	T	C	Heterozygous	1.1	15	SNP	Novel	3992	---
MAP2K1	chr15	66727458	G	A	Heterozygous	1.6	71	SNP	Novel	4000	---
MAP2K1	chr15	66727476	G	A	Heterozygous	1.3	33	SNP	Novel	3960	---

MAP2K1	chr15	66727480	G	A	Heterozygous	1.1	18	SNP	Novel	3999	---
MAP2K1	chr15	66727494	G	A	Heterozygous	1.3	38	SNP	Novel	3999	---
MAP2K1	chr15	66727507	G	A	Heterozygous	1.4	230	SNP	Novel	3965	---
MAP2K1	chr15	66727520	G	A	Heterozygous	1.6	61	SNP	Novel	4000	---
MAP2K1	chr15	66727528	G	A	Heterozygous	2.3	179	SNP	Novel	4000	---
MAP2K1	chr15	66729109	C	T	Heterozygous	1.2	22	SNP	Novel	3745	---
MAP2K1	chr15	66729115	G	A	Heterozygous	1.6	64	SNP	Novel	3759	---
MAP2K1	chr15	66729116	G	A	Heterozygous	1.3	30	SNP	Novel	3759	---
MAP2K1	chr15	66729119	C	T	Heterozygous	1	13	SNP	Novel	3766	---
MAP2K1	chr15	66729125	C	T	Heterozygous	1.2	28	SNP	Novel	3777	---
MAP2K1	chr15	66729174	G	A	Heterozygous	2	135	SNP	Novel	4000	---
MAP2K1	chr15	66729179	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MAP2K1	chr15	66729187	C	T	Heterozygous	1.4	47	SNP	Novel	4000	---
MAP2K1	chr15	66729202	G	A	Heterozygous	1.3	36	SNP	Novel	3998	---
MAP2K1	chr15	66729217	G	A	Heterozygous	1.8	91	SNP	Novel	4000	---
MAP2K1	chr15	66729221	G	A	Heterozygous	1.5	55	SNP	Novel	4000	---
MAP2K1	chr15	66729225	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
MAP2K1	chr15	66774086	C	T	Heterozygous	1.5	45	SNP	Novel	3417	---
MAP2K1	chr15	66774105	C	T	Heterozygous	1.6	62	SNP	Novel	3456	---
MAP2K1	chr15	66774109	C	T	Heterozygous	3.2	336	SNP	Novel	3455	---
MAP2K1	chr15	66774116	G	A	Heterozygous	1.4	44	SNP	Novel	3458	---
MAP2K1	chr15	66774136	C	T	Heterozygous	1.6	56	SNP	Novel	3453	---
MAP2K1	chr15	66774148	C	T	Heterozygous	1.4	37	SNP	Novel	3406	---
MAP2K1	chr15	66774159	G	A	Heterozygous	1.5	50	SNP	Novel	3431	---
MAP2K1	chr15	66774164	C	T	Heterozygous	1.4	37	SNP	Novel	3425	---
MAP2K1	chr15	66774175	C	T	Heterozygous	1.7	70	SNP	Novel	3435	---
MAP2K1	chr15	66774182	G	A	Heterozygous	1.6	60	SNP	Novel	3427	---
MAP2K1	chr15	66774184	C	T	Heterozygous	2	104	SNP	Novel	3421	---
IDH2	chr15	90631825	G	A	Heterozygous	1.8	52	SNP	Novel	2017	---
IDH2	chr15	90631826	C	T	Heterozygous	2.2	85	SNP	Novel	2024	---
IDH2	chr15	90631831	G	A	Heterozygous	1.3	20	SNP	Novel	2035	---
IDH2	chr15	90631838	C	T	Heterozygous	3.3	215	SNP	Hotspot	2037	COSM33733
IDH2	chr15	90631840	G	A	Heterozygous	2	71	SNP	Novel	2040	---
IDH2	chr15	90631847	G	A	Heterozygous	2.5	117	SNP	Novel	2048	---
IDH2	chr15	90631852	G	A	Heterozygous	1.9	59	SNP	Novel	2047	---
IDH2	chr15	90631877	C	T	Heterozygous	2.6	132	SNP	Novel	2054	---
IDH2	chr15	90631878	G	A	Heterozygous	3.1	182	SNP	Novel	1994	---
IDH2	chr15	90631880	G	A	Heterozygous	2.5	121	SNP	Novel	2057	---

IDH2	chr15	90631881	G	A	Heterozygous	2	70	SNP	Novel	2058	---
IDH2	chr15	90631882	G	A	Heterozygous	2.5	118	SNP	Novel	2058	---
IDH2	chr15	90631885	G	A	Heterozygous	1.5	32	SNP	Novel	2052	---
IDH2	chr15	90631894	G	A	Heterozygous	2.6	193	SNP	Novel	2043	---
IDH2	chr15	90631897	G	A	Heterozygous	2.5	117	SNP	Novel	2058	---
IDH2	chr15	90631907	C	T	Heterozygous	2.2	87	SNP	Novel	2058	---
IDH2	chr15	90631914	C	T	Heterozygous	2.2	88	SNP	Novel	2051	---
IDH2	chr15	90631923	C	T	Heterozygous	2.7	426	SNP	Novel	2022	---
IDH2	chr15	90631936	G	A	Heterozygous	2.7	135	SNP	Novel	2029	---
IDH2	chr15	90631950	G	A	Heterozygous	2.3	95	SNP	Novel	2015	---
ERBB2	chr17	37868158	C	T	Heterozygous	1	10	SNP	Novel	2545	---
ERBB2	chr17	37868162	A	G	Heterozygous	1.9	73	SNP	Novel	2544	---
ERBB2	chr17	37868170	G	A	Heterozygous	2	81	SNP	Novel	2543	---
ERBB2	chr17	37868176	C	T	Heterozygous	1.7	58	SNP	Novel	2530	---
ERBB2	chr17	37868188	C	T	Heterozygous	2.6	151	SNP	Novel	2542	---
ERBB2	chr17	37868189	C	T	Heterozygous	1.6	153	SNP	Novel	2529	---
ERBB2	chr17	37868213	A	G	Heterozygous	2.3	116	SNP	Novel	2554	---
ERBB2	chr17	37868226	C	T	Heterozygous	2.3	458	SNP	Novel	2542	---
ERBB2	chr17	37868245	G	A	Heterozygous	2.8	191	SNP	Novel	2587	---
ERBB2	chr17	37868247	C	T	Heterozygous	2	91	SNP	Novel	2586	---
ERBB2	chr17	37868259	G	A	Heterozygous	2.7	154	SNP	Novel	2573	---
ERBB2	chr17	37872367	C	T	Heterozygous	1.7	63	SNP	Novel	3251	---
ERBB2	chr17	37872372	C	T	Heterozygous	1.7	63	SNP	Novel	3289	---
ERBB2	chr17	37872384	C	T	Heterozygous	2.6	205	SNP	Novel	3315	---
ERBB2	chr17	37872385	C	T	Heterozygous	1	12	SNP	Novel	3315	---
ERBB2	chr17	37872392	C	T	Heterozygous	1.3	81	SNP	Novel	3223	---
ERBB2	chr17	37872404	C	A	Heterozygous	1	10	SNP	Novel	3194	---
ERBB2	chr17	37872411	C	T	Heterozygous	1.7	68	SNP	Novel	3179	---
ERBB2	chr17	37872413	C	T	Heterozygous	1.9	91	SNP	Novel	3184	---
ERBB2	chr17	37872423	C	T	Heterozygous	1.3	27	SNP	Novel	3136	---
ERBB2	chr17	37872430	C	T	Heterozygous	3.2	257	SNP	Novel	3026	---
ERBB2	chr17	37872437	G	A	Heterozygous	1.5	42	SNP	Novel	2611	---
ERBB2	chr17	37872450	CC	TT	Heterozygous	2.3	566	MNP	Novel	2557	---
ERBB2	chr17	37872464	C	T	Heterozygous	2.1	96	SNP	Novel	2655	---
ERBB2	chr17	37872470	C	T	Heterozygous	1	11	SNP	Novel	2618	---
ERBB2	chr17	37872483	C	T	Heterozygous	1.7	54	SNP	Novel	2565	---
ERBB2	chr17	37879630	G	A	Heterozygous	1.2	114	SNP	Novel	3943	---
ERBB2	chr17	37879632	G	A	Heterozygous	1.7	84	SNP	Novel	3994	---

ERBB2	chr17	37879633	G	A	Heterozygous	1.1	20	SNP	Novel	3994	---
ERBB2	chr17	37879635	C	T	Heterozygous	1	13	SNP	Novel	3998	---
ERBB2	chr17	37879647	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
ERBB2	chr17	37879680	C	T	Heterozygous	1.7	81	SNP	Novel	3997	---
ERBB2	chr17	37879688	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
ERBB2	chr17	37879838	G	A	Heterozygous	1.4	39	SNP	Novel	3999	---
ERBB2	chr17	37879874	G	A	Heterozygous	1	11	SNP	Novel	3999	---
ERBB2	chr17	37879884	G	A	Heterozygous	1.9	110	SNP	Novel	3995	---
ERBB2	chr17	37879885	G	A	Heterozygous	1.8	99	SNP	Novel	4000	---
ERBB2	chr17	37879891	G	A	Heterozygous	1.6	195	SNP	Novel	3961	---
ERBB2	chr17	37880230	C	T	Heterozygous	2.9	222	SNP	Novel	2261	---
ERBB2	chr17	37880264	G	A	Heterozygous	1.8	63	SNP	Novel	2293	---
ERBB2	chr17	37880270	C	T	Heterozygous	2.9	186	SNP	Novel	2280	---
ERBB2	chr17	37880279	C	T	Heterozygous	3.1	213	SNP	Novel	2294	---
ERBB2	chr17	37880283	C	T	Heterozygous	2.7	158	SNP	Novel	2329	---
ERBB2	chr17	37880298	G	A	Heterozygous	1.5	40	SNP	Novel	2324	---
ERBB2	chr17	37880307	C	T	Heterozygous	4.8	477	SNP	Novel	2315	---
ERBB2	chr17	37880318	G	A	Heterozygous	2.9	181	SNP	Novel	2316	---
ERBB2	chr17	37880321	C	G	Heterozygous	2.5	138	SNP	Novel	2373	---
ERBB2	chr17	37880955	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
ERBB2	chr17	37880976	C	T	Heterozygous	1.4	103	SNP	Novel	3978	---
ERBB2	chr17	37880983	C	T	Heterozygous	1.3	35	SNP	Novel	3990	---
ERBB2	chr17	37881007	C	T	Heterozygous	2.9	310	SNP	Novel	3964	---
ERBB2	chr17	37881029	G	A	Heterozygous	0.9	55	SNP	Novel	3990	---
ERBB2	chr17	37881039	C	T	Heterozygous	1.6	67	SNP	Novel	4000	---
ERBB2	chr17	37881325	G	A	Heterozygous	1.3	30	SNP	Novel	3580	---
ERBB2	chr17	37881332	G	A	Heterozygous	1.5	54	SNP	Hotspot	3594	COSM14065
ERBB2	chr17	37881339	G	A	Heterozygous	3.2	418	SNP	Novel	3585	---
ERBB2	chr17	37881349	C	T	Heterozygous	1	12	SNP	Novel	3614	---
ERBB2	chr17	37881353	C	T	Heterozygous	3.4	382	SNP	Novel	3607	---
ERBB2	chr17	37881361	G	A	Heterozygous	1.3	32	SNP	Novel	3609	---
ERBB2	chr17	37881364	G	C	Heterozygous	1.1	14	SNP	Novel	3610	---
ERBB2	chr17	37881365	G	A	Heterozygous	1.8	83	SNP	Novel	3610	---
ERBB2	chr17	37881367	C	T	Heterozygous	1.3	30	SNP	Novel	3596	---
ERBB2	chr17	37881376	C	T	Heterozygous	2.9	272	SNP	Novel	3615	---
ERBB2	chr17	37881380	C	T	Heterozygous	1.1	18	SNP	Novel	3617	---
ERBB2	chr17	37881383	G	A	Heterozygous	3.4	386	SNP	Novel	3616	---
ERBB2	chr17	37881385	C	T	Heterozygous	2	116	SNP	Novel	3608	---

ERBB2	chr17	37881393	C	T	Heterozygous	1	11	SNP	Novel	3619	---
ERBB2	chr17	37881407	G	A	Heterozygous	1.9	101	SNP	Novel	3625	---
ERBB2	chr17	37881411	G	A	Heterozygous	1.8	90	SNP	Novel	3634	---
ERBB2	chr17	37881412	G	A	Heterozygous	3.5	416	SNP	Novel	3633	---
ERBB2	chr17	37881413	C	T	Heterozygous	1.9	97	SNP	Novel	3636	---
ERBB2	chr17	37881419	G	A	Heterozygous	1.3	29	SNP	Novel	3648	---
ERBB2	chr17	37881427	C	T	Heterozygous	1.5	55	SNP	Novel	3645	---
ERBB2	chr17	37881432	C	T	Heterozygous	1.6	65	SNP	Novel	3642	---
ERBB2	chr17	37881439	C	T	Heterozygous	1.3	31	SNP	Novel	3642	---
ERBB2	chr17	37881522	C	T	Heterozygous	1.1	19	SNP	Novel	3618	---
ERBB2	chr17	37881530	C	T	Heterozygous	3.1	310	SNP	Novel	3639	---
ERBB2	chr17	37881537	C	T	Heterozygous	1.8	562	SNP	Novel	3618	---
ERBB2	chr17	37881541	C	T	Heterozygous	1.6	64	SNP	Novel	3656	---
ERBB2	chr17	37881546	C	T	Heterozygous	1.3	35	SNP	Novel	3657	---
ERBB2	chr17	37881553	G	A	Heterozygous	1	68	SNP	Novel	3610	---
ERBB2	chr17	37881571	C	T	Heterozygous	3.9	836	SNP	Novel	3457	---
ERBB2	chr17	37881591	G	A	Heterozygous	1.1	15	SNP	Novel	3472	---
ERBB2	chr17	37881593	G	A	Heterozygous	1.1	18	SNP	Novel	3467	---
ERBB2	chr17	37881615	C	T	Heterozygous	1.2	20	SNP	Novel	3252	---
ERBB2	chr17	37881619	C	T	Heterozygous	2.7	218	SNP	Novel	3213	---
ERBB2	chr17	37881624	G	A	Heterozygous	1.3	27	SNP	Novel	3153	---
ERBB2	chr17	37881630	C	T	Heterozygous	1.6	205	SNP	Novel	3051	---
ERBB2	chr17	37881636	G	A	Heterozygous	1.6	59	SNP	Novel	3115	---
ERBB2	chr17	37882850	C	T	Heterozygous	1.5	52	SNP	Novel	3999	---
ERBB2	chr17	37882855	G	A	Heterozygous	2.1	141	SNP	Novel	3960	---
ERBB2	chr17	37882872	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
ERBB2	chr17	37882894	G	A	Heterozygous	1.5	50	SNP	Novel	3999	---
ERBB2	chr17	37882936	C	A	Heterozygous	1	252	SNP	Novel	3955	---
ERBB2	chr17	37883136	C	T	Heterozygous	3.3	297	SNP	Novel	2847	---
ERBB2	chr17	37883142	G	A	Heterozygous	1.3	26	SNP	Novel	2825	---
ERBB2	chr17	37883146	C	T	Heterozygous	1	11	SNP	Novel	2847	---
ERBB2	chr17	37883149	G	A	Heterozygous	1.1	14	SNP	Novel	2847	---
ERBB2	chr17	37883154	T	C	Heterozygous	2.1	106	SNP	Novel	2848	---
ERBB2	chr17	37883167	C	T	Heterozygous	1.1	16	SNP	Novel	2971	---
ERBB2	chr17	37883170	G	A	Heterozygous	1	12	SNP	Novel	2969	---
ERBB2	chr17	37883173	C	T	Heterozygous	1.3	89	SNP	Novel	2951	---
ERBB2	chr17	37883181	G	A	Heterozygous	1.6	48	SNP	Novel	2959	---
ERBB2	chr17	37883206	C	T	Heterozygous	3.8	438	SNP	Novel	2826	---

ERBB2	chr17	37883212	G	A	Heterozygous	1.9	81	SNP	Novel	2930	---
ERBB2	chr17	37883219	G	A	Heterozygous	2.2	346	SNP	Novel	2911	---
ERBB2	chr17	37883226	C	T	Heterozygous	1	11	SNP	Novel	3153	---
ERBB2	chr17	37883232	C	T	Heterozygous	1.3	32	SNP	Novel	3146	---
ERBB2	chr17	37883246	C	T	Heterozygous	1.3	28	SNP	Novel	3294	---
GNA11	chr19	3114984	G	A	Heterozygous	3.3	432	SNP	Novel	1493	---
GNA11	chr19	3114999	C	T	Heterozygous	1.1	12	SNP	Novel	1505	---
GNA11	chr19	3115008	G	A	Heterozygous	3.3	161	SNP	Novel	1502	---
GNA11	chr19	3115018	C	T	Heterozygous	2.4	106	SNP	Novel	1494	---
GNA11	chr19	3115069	C	T	Heterozygous	3.8	208	SNP	Novel	1528	---
GNA11	chr19	3115070	G	A	Heterozygous	4.1	239	SNP	Novel	1526	---
GNA11	chr19	3118884	G	A	Heterozygous	1.8	94	SNP	Novel	3996	---
GNA11	chr19	3118887	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
GNA11	chr19	3118948	C	T	Heterozygous	1.6	72	SNP	Novel	3951	---
GNA11	chr19	3118957	G	A	Heterozygous	1.4	47	SNP	Novel	4000	---
GNA11	chr19	3118958	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
MAP2K2	chr19	4117558	C	T	Heterozygous	3.2	173	SNP	Novel	1743	---
MAP2K2	chr19	4117562	C	T	Heterozygous	2.9	137	SNP	Novel	1744	---
MAP2K2	chr19	4117573	C	T	Heterozygous	1.7	43	SNP	Novel	1729	---
MAP2K2	chr19	4117579	G	A	Heterozygous	1.2	16	SNP	Novel	1731	---
MAP2K2	chr19	4117594	C	A	Heterozygous	2.5	95	SNP	Novel	1667	---
MAP2K2	chr19	4117609	C	T	Heterozygous	1.9	53	SNP	Novel	1691	---
MAP2K2	chr19	4117637	C	T	Heterozygous	1.2	21	SNP	Novel	1660	---
JAK3	chr19	17945914	G	A	Heterozygous	3.2	172	SNP	Novel	1801	---
JAK3	chr19	17945941	G	A	Heterozygous	3.1	166	SNP	Novel	1806	---
JAK3	chr19	17945947	C	T	Heterozygous	2.6	115	SNP	Novel	1803	---
JAK3	chr19	17945951	C	T	Heterozygous	3.3	191	SNP	Novel	1804	---
JAK3	chr19	17945953	C	T	Heterozygous	4.3	306	SNP	Novel	1804	---
JAK3	chr19	17945977	G	A	Heterozygous	3.1	165	SNP	Novel	1812	---
JAK3	chr19	17945980	C	T	Heterozygous	1.9	58	SNP	Novel	1810	---
JAK3	chr19	17946001	G	A	Heterozygous	3.3	188	SNP	Novel	1834	---
JAK3	chr19	17946003	C	T	Heterozygous	4.1	297	SNP	Novel	1833	---
JAK3	chr19	17948743	C	T	Heterozygous	2.4	78	SNP	Novel	1352	---
JAK3	chr19	17948744	C	T	Heterozygous	2	50	SNP	Novel	1353	---
JAK3	chr19	17948753	C	T	Heterozygous	2.8	105	SNP	Novel	1365	---
JAK3	chr19	17948759	C	T	Heterozygous	2.9	114	SNP	Novel	1368	---
JAK3	chr19	17948786	C	T	Heterozygous	3.7	176	SNP	Novel	1367	---
JAK3	chr19	17948798	G	A	Heterozygous	3.8	854	SNP	Novel	1349	---

JAK3	chr19	17948806	C	T	Heterozygous	3.6	172	SNP	Novel	1356	---
JAK3	chr19	17948830	C	T	Heterozygous	6.9	875	SNP	Novel	1360	---
JAK3	chr19	17948836	A	G	Heterozygous	1.2	13	SNP	Novel	1355	---
JAK3	chr19	17949160	G	A	Heterozygous	1	13	SNP	Novel	3998	---
JAK3	chr19	17949176	G	A	Heterozygous	1	12	SNP	Novel	4000	---
JAK3	chr19	17949189	G	A	Heterozygous	1.2	30	SNP	Novel	4000	---
AR	chrX	66776193	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
AR	chrX	66776203	C	T	Heterozygous	1.5	55	SNP	Novel	3998	---
AR	chrX	66799216	C	T	Heterozygous	2.4	194	SNP	Novel	3997	---
AR	chrX	66799222	C	T	Heterozygous	2.4	163	SNP	Novel	3948	---
AR	chrX	66799237	G	A	Heterozygous	1.6	71	SNP	Novel	4000	---
AR	chrX	66799248	G	A	Heterozygous	1.9	110	SNP	Novel	4000	---
AR	chrX	66799293	C	T	Heterozygous	1	10	SNP	Novel	4000	---
AR	chrX	66799295	G	A	Heterozygous	2.1	141	SNP	Novel	3893	---
AR	chrX	66799307	G	A	Heterozygous	2.6	245	SNP	Novel	3929	---
AR	chrX	66866135	C	T	Heterozygous	3.4	191	SNP	Novel	1714	---
AR	chrX	66866147	C	T	Heterozygous	3.1	158	SNP	Novel	1726	---
AR	chrX	66866163	G	A	Heterozygous	4.6	337	SNP	Novel	1754	---
AR	chrX	66866173	G	A	Heterozygous	3.5	206	SNP	Novel	1737	---
AR	chrX	66866191	A	G	Heterozygous	2.5	98	SNP	Novel	1645	---
AR	chrX	66866193	G	A	Heterozygous	2	59	SNP	Novel	1724	---
AR	chrX	66866194	G	A	Heterozygous	2.6	106	SNP	Novel	1724	---
AR	chrX	66866215	G	A	Heterozygous	2.8	124	SNP	Novel	1705	---
AR	chrX	66866218	G	A	Heterozygous	6.6	626	SNP	Novel	1704	---
AR	chrX	66866220	G	A	Heterozygous	3.1	153	SNP	Novel	1704	---
AR	chrX	66874552	G	A	Heterozygous	2.9	112	SNP	Novel	1332	---
AR	chrX	66874579	C	T	Heterozygous	2.5	82	SNP	Novel	1357	---
AR	chrX	66874585	C	T	Heterozygous	2.3	68	SNP	Novel	1357	---
AR	chrX	66874609	G	A	Heterozygous	3	121	SNP	Novel	1357	---
AR	chrX	66906881	G	A	Heterozygous	1	11	SNP	Novel	3978	---
AR	chrX	66906886	G	A	Heterozygous	1.3	34	SNP	Novel	3996	---
AR	chrX	66906887	G	A	Heterozygous	1.2	23	SNP	Novel	3998	---
AR	chrX	66906917	G	A	Heterozygous	1.1	16	SNP	Novel	3997	---
AR	chrX	66915183	C	T	Heterozygous	8.2	768	SNP	Novel	1479	---
AR	chrX	66915200	C	T	Heterozygous	2.8	116	SNP	Novel	1486	---
AR	chrX	66915205	C	T	Heterozygous	1.5	28	SNP	Novel	1495	---
AR	chrX	66915226	C	T	Heterozygous	3.2	151	SNP	Novel	1480	---
AR	chrX	66915253	T	C	Heterozygous	1.9	46	SNP	Novel	1512	---

AR	chrX	66915254	A	G	Heterozygous	3.6	192	SNP	Novel	1511	---
AR	chrX	66915261	G	A	Heterozygous	2.5	91	SNP	Novel	1510	---
AR	chrX	66915271	C	T	Heterozygous	3	131	SNP	Novel	1507	---
AR	chrX	66915282	C	T	Heterozygous	3.5	173	SNP	Novel	1506	---
AR	chrX	66915283	C	T	Heterozygous	1.6	31	SNP	Novel	1506	---
AR	chrX	66915289	G	A	Heterozygous	3.4	167	SNP	Novel	1504	---
AR	chrX	66915292	G	A	Heterozygous	3.9	220	SNP	Novel	1501	---
AR	chrX	66917667	C	T	Heterozygous	1.2	14	SNP	Novel	1221	---
AR	chrX	66917682	G	A	Heterozygous	5.1	289	SNP	Novel	1231	---
AR	chrX	66917745	C	T	Heterozygous	1.1	11	SNP	Novel	1244	---
AR	chrX	66917748	G	A	Heterozygous	2	47	SNP	Novel	1244	---
AR	chrX	66917767	G	A	Heterozygous	1.5	25	SNP	Novel	1241	---
AR	chrX	66938937	C	T	Heterozygous	3.8	285	SNP	Novel	2186	---
AR	chrX	66938942	C	T	Heterozygous	1.8	59	SNP	Novel	2189	---
AR	chrX	66938980	G	A	Heterozygous	3.6	260	SNP	Novel	2195	---
AR	chrX	66938983	C	T	Heterozygous	3.1	199	SNP	Novel	2192	---
AR	chrX	66938988	C	T	Heterozygous	2.3	107	SNP	Novel	2187	---
AR	chrX	66939009	C	T	Heterozygous	2.9	172	SNP	Novel	2172	---
AR	chrX	66939016	C	T	Heterozygous	1.9	65	SNP	Novel	2158	---
AR	chrX	66939032	G	A	Heterozygous	1.1	13	SNP	Novel	2149	---
AR	chrX	66939047	C	T	Heterozygous	2.9	166	SNP	Novel	2137	---
AR	chrX	66941736	G	A	Heterozygous	6	374	SNP	Novel	1179	---
AR	chrX	66941743	G	A	Heterozygous	3.6	159	SNP	Novel	1240	---
AR	chrX	66941762	C	T	Heterozygous	2.5	87	SNP	Novel	1360	---
AR	chrX	66941784	G	A	Heterozygous	4.2	287	SNP	Novel	1759	---
AR	chrX	66941801	C	T	Heterozygous	5	422	SNP	Novel	1839	---
AR	chrX	66941832	C	T	Heterozygous	3	468	SNP	Novel	1815	---
AR	chrX	66941847	G	A	Heterozygous	4.5	333	SNP	Novel	1773	---
AR	chrX	66943520	C	T	Heterozygous	1.8	574	SNP	Novel	3981	---
AR	chrX	66943551	C	T	Heterozygous	1.5	58	SNP	Novel	4000	---
AR	chrX	66943576	C	T	Heterozygous	1.2	21	SNP	Novel	3998	---
AR	chrX	66943588	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
AR	chrX	66943590	G	A	Heterozygous	1	13	SNP	Novel	3998	---
AR	chrX	66945128	G	A	Heterozygous	3	127	SNP	Novel	1426	---
AR	chrX	66945135	G	A	Heterozygous	2.9	121	SNP	Novel	1428	---
AR	chrX	66945136	G	A	Heterozygous	6.5	520	SNP	Novel	1430	---
AR	chrX	66945140	C	T	Heterozygous	2.2	64	SNP	Novel	1422	---
AR	chrX	66945158	G	A	Heterozygous	3.8	195	SNP	Novel	1432	---

AR	chrX	66945165	T	C	Heterozygous	1.4	21	SNP	Novel	1438	---
AR	chrX	66945171	G	A	Heterozygous	3.2	144	SNP	Novel	1438	---
AR	chrX	66945194	G	A	Heterozygous	3.1	139	SNP	Novel	1436	---
AR	chrX	66945200	G	A	Heterozygous	2.6	92	SNP	Novel	1440	---
AR	chrX	66945203	C	T	Heterozygous	2.6	306	SNP	Novel	1431	---
AR	chrX	66945213	G	A	Heterozygous	2.6	92	SNP	Novel	1445	---