

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202139

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: 58 year(s) old
Female: _____ year(s) old

Pathological Diagnosis: Adenocarcinoma, Papillary

Tumor Size: diameter 6 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)

C202139

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174374	C	T	Heterozygous	1.2	17	SNP	Novel	3126	---
MTOR	chr1	11174378	C	T	Heterozygous	1.8	76	SNP	Novel	3131	---
MTOR	chr1	11174411	C	T	Heterozygous	4.1	478	SNP	Novel	3135	---
MTOR	chr1	11174426	C	T	Heterozygous	1.5	45	SNP	Novel	3135	---
MTOR	chr1	11174442	C	T	Heterozygous	2.8	221	SNP	Novel	3062	---
MTOR	chr1	11174474	G	A	Heterozygous	1.5	47	SNP	Novel	3097	---
MTOR	chr1	11174487	G	A	Heterozygous	1.2	20	SNP	Novel	3056	---
MTOR	chr1	11184547	C	T	Heterozygous	2.2	94	SNP	Novel	2317	---
MTOR	chr1	11184554	C	T	Heterozygous	2	81	SNP	Novel	2321	---
MTOR	chr1	11184581	G	A	Heterozygous	2.5	137	SNP	Novel	2329	---
MTOR	chr1	11184583	C	T	Heterozygous	2.2	98	SNP	Novel	2329	---
MTOR	chr1	11184596	G	A	Heterozygous	2.9	186	SNP	Novel	2329	---
MTOR	chr1	11184599	G	A	Heterozygous	2.4	117	SNP	Novel	2329	---
MTOR	chr1	11184604	C	T	Heterozygous	2.5	137	SNP	Novel	2330	---
MTOR	chr1	11184607	G	A	Heterozygous	1.3	23	SNP	Novel	2330	---
MTOR	chr1	11184623	C	T	Heterozygous	2.7	163	SNP	Novel	2331	---
MTOR	chr1	11184635	C	T	Heterozygous	1.5	33	SNP	Novel	2333	---
MTOR	chr1	11188010	C	T	Heterozygous	1.6	62	SNP	Novel	3967	---
MTOR	chr1	11188012	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
MTOR	chr1	11188016	C	T	Heterozygous	1.7	84	SNP	Novel	4000	---
MTOR	chr1	11188029	G	A	Heterozygous	1	12	SNP	Novel	3964	---
MTOR	chr1	11188052	C	T	Heterozygous	1	12	SNP	Novel	3986	---
MTOR	chr1	11188068	G	A	Heterozygous	1.4	44	SNP	Novel	3999	---
MTOR	chr1	11188180	G	A	Heterozygous	4	415	SNP	Novel	1303	---
MTOR	chr1	11188186	G	A	Heterozygous	3.2	132	SNP	Novel	1313	---
MTOR	chr1	11188190	G	A	Heterozygous	2.9	107	SNP	Novel	1306	---
MTOR	chr1	11188219	A	G	Heterozygous	2.2	60	SNP	Novel	1329	---
MTOR	chr1	11188228	G	A	Heterozygous	6	408	SNP	Novel	1325	---
MTOR	chr1	11188230	G	A	Heterozygous	2.9	107	SNP	Novel	1324	---
MTOR	chr1	11188234	G	A	Heterozygous	2.9	107	SNP	Novel	1328	---
MTOR	chr1	11188244	G	A	Heterozygous	2.8	101	SNP	Novel	1333	---
MTOR	chr1	11188281	G	A	Heterozygous	1.9	45	SNP	Novel	1290	---
MTOR	chr1	11189781	C	T	Heterozygous	4.8	629	SNP	Novel	3076	---
MTOR	chr1	11189799	G	A	Heterozygous	2.7	206	SNP	Novel	3097	---
MTOR	chr1	11189801	G	A	Heterozygous	2.8	217	SNP	Novel	3098	---

MTOR	chr1	11189860	A	G	Heterozygous	2.3	147	SNP	Novel	3070	---
MTOR	chr1	11189863	C	T	Heterozygous	2.9	237	SNP	Novel	3072	---
MTOR	chr1	11189876	A	G	Heterozygous	1.3	26	SNP	Novel	3071	---
MTOR	chr1	11189878	G	A	Heterozygous	1.3	26	SNP	Novel	3071	---
MTOR	chr1	11189895	C	T	Heterozygous	2.4	153	SNP	Novel	3056	---
MTOR	chr1	11190780	G	A	Heterozygous	2.1	89	SNP	Novel	2254	---
MTOR	chr1	11190784	T	C	Heterozygous	2.5	133	SNP	Novel	2250	---
MTOR	chr1	11190798	C	T	Heterozygous	2	80	SNP	Novel	2257	---
MTOR	chr1	11190833	G	A	Heterozygous	1.8	57	SNP	Novel	2242	---
MTOR	chr1	11190834	C	T	Heterozygous	1.4	30	SNP	Novel	2242	---
MTOR	chr1	11190843	G	A	Heterozygous	3	188	SNP	Novel	2250	---
MTOR	chr1	11190844	G	A	Heterozygous	2.1	84	SNP	Novel	2248	---
MTOR	chr1	11190846	G	A	Heterozygous	1.6	41	SNP	Novel	2246	---
MTOR	chr1	11190856	G	A	Heterozygous	2	72	SNP	Novel	2253	---
MTOR	chr1	11190864	C	T	Heterozygous	1.2	16	SNP	Novel	2249	---
MTOR	chr1	11217226	G	A	Heterozygous	1.1	15	SNP	Novel	3999	---
MTOR	chr1	11217230	C	T	Heterozygous	1	13	SNP	Hotspot	3999	COSM462615
MTOR	chr1	11217232	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
MTOR	chr1	11217239	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MTOR	chr1	11217243	C	T	Heterozygous	1.5	50	SNP	Novel	3999	---
MTOR	chr1	11217264	C	T	Heterozygous	1.5	51	SNP	Novel	4000	---
MTOR	chr1	11217277	C	T	Heterozygous	1	12	SNP	Novel	3999	---
MTOR	chr1	11217297	C	T	Heterozygous	1.7	81	SNP	Novel	3999	---
JAK1	chr1	65310467	C	T	Heterozygous	1.1	112	SNP	Novel	3970	---
JAK1	chr1	65310479	G	A	Heterozygous	1	12	SNP	Novel	4000	---
JAK1	chr1	65310502	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
JAK1	chr1	65310504	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
JAK1	chr1	65310518	G	A	Heterozygous	1.9	110	SNP	Hotspot	3999	COSM3741347
JAK1	chr1	65310520	G	A	Heterozygous	1	12	SNP	Novel	4000	---
JAK1	chr1	65310522	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
JAK1	chr1	65310545	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
JAK1	chr1	65310550	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
JAK1	chr1	65310561	G	A	Heterozygous	1.8	99	SNP	Novel	4000	---
JAK1	chr1	65310570	C	T	Heterozygous	1	10	SNP	Novel	4000	---
JAK1	chr1	65311177	G	A	Heterozygous	1.2	21	SNP	Novel	3999	---
JAK1	chr1	65311184	G	A	Heterozygous	1.4	42	SNP	Novel	3996	---
JAK1	chr1	65311191	C	T	Heterozygous	1.3	37	SNP	Novel	3999	---
JAK1	chr1	65311199	G	A	Heterozygous	1.3	37	SNP	Novel	3999	---

JAK1	chr1	65311248	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
JAK1	chr1	65312282	C	T	Heterozygous	3.3	347	SNP	Novel	3427	---
JAK1	chr1	65312286	G	A	Heterozygous	2	108	SNP	Novel	3433	---
JAK1	chr1	65312291	C	T	Heterozygous	1.5	44	SNP	Novel	3444	---
JAK1	chr1	65312314	G	A	Heterozygous	1.6	549	SNP	Novel	3379	---
JAK1	chr1	65312335	C	T	Heterozygous	3.2	331	SNP	Novel	3561	---
JAK1	chr1	65312367	A	T	Heterozygous	1.1	20	SNP	Novel	3573	---
JAK1	chr1	65312380	G	A	Heterozygous	1.5	55	SNP	Novel	3553	---
JAK1	chr1	65312402	G	A	Heterozygous	2.2	140	SNP	Novel	3533	---
JAK1	chr1	65312403	G	A	Heterozygous	2.2	141	SNP	Novel	3523	---
NRAS	chr1	115252199	C	T	Heterozygous	2	81	SNP	Novel	2248	---
NRAS	chr1	115252206	G	A	Heterozygous	1.5	33	SNP	Novel	2251	---
NRAS	chr1	115252217	G	A	Heterozygous	4.1	359	SNP	Novel	2252	---
NRAS	chr1	115252222	G	A	Heterozygous	2.8	171	SNP	Novel	2251	---
NRAS	chr1	115252227	C	T	Heterozygous	2.2	94	SNP	Novel	2250	---
NRAS	chr1	115252228	C	T	Heterozygous	2.1	85	SNP	Novel	2250	---
NRAS	chr1	115252235	C	T	Heterozygous	1.6	43	SNP	Novel	2244	---
NRAS	chr1	115252251	G	T	Heterozygous	1.7	49	SNP	Novel	2258	---
NRAS	chr1	115252252	C	T	Heterozygous	2	80	SNP	Novel	2261	---
NRAS	chr1	115252280	C	T	Heterozygous	2.5	131	SNP	Novel	2269	---
NRAS	chr1	115252298	C	T	Heterozygous	2	79	SNP	Novel	2268	---
NRAS	chr1	115256506	C	T	Heterozygous	2.1	139	SNP	Novel	3998	---
NRAS	chr1	115256515	C	T	Heterozygous	1.5	50	SNP	Novel	3998	---
NRAS	chr1	115256519	G	A	Heterozygous	1.1	15	SNP	Novel	3998	---
NRAS	chr1	115256528	T	C	Heterozygous	1	11	SNP	Novel	3996	---
NRAS	chr1	115256535	G	A	Heterozygous	1.1	16	SNP	Novel	3998	---
NRAS	chr1	115256536	C	T	Heterozygous	1.4	39	SNP	Hotspot	3998	COSM578
NRAS	chr1	115256555	C	T	Heterozygous	1.1	20	SNP	Novel	3963	---
NRAS	chr1	115256566	C	T	Heterozygous	1.3	34	SNP	Novel	3994	---
NRAS	chr1	115256568	C	T	Heterozygous	1.1	16	SNP	Novel	3997	---
NRAS	chr1	115256572	C	T	Heterozygous	1.7	80	SNP	Novel	3996	---
NRAS	chr1	115256581	C	T	Heterozygous	1.7	81	SNP	Novel	3998	---
NRAS	chr1	115258710	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
NRAS	chr1	115258716	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
NRAS	chr1	115258719	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
NRAS	chr1	115258731	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
NRAS	chr1	115258748	C	T	Heterozygous	1.4	39	SNP	Hotspot	4000	COSM563
NRAS	chr1	115258757	C	T	Heterozygous	1.9	110	SNP	Novel	4000	---

DDR2	chr1	162724510	C	T	Heterozygous	1.8	75	SNP	Novel	2891	---
DDR2	chr1	162724511	C	T	Heterozygous	1.8	68	SNP	Novel	2890	---
DDR2	chr1	162724526	G	A	Heterozygous	1.2	23	SNP	Novel	2907	---
DDR2	chr1	162724529	G	A	Heterozygous	2.3	539	SNP	Novel	2851	---
DDR2	chr1	162724556	C	T	Heterozygous	1.6	54	SNP	Novel	2900	---
DDR2	chr1	162724559	G	A	Heterozygous	1.6	55	SNP	Novel	2884	---
DDR2	chr1	162724567	G	A	Heterozygous	1.4	36	SNP	Novel	2891	---
DDR2	chr1	162724572	C	T	Heterozygous	0.9	14	SNP	Novel	2868	---
DDR2	chr1	162724588	C	T	Heterozygous	1.5	39	SNP	Novel	2896	---
DDR2	chr1	162724604	G	A	Heterozygous	2.4	291	SNP	Novel	2850	---
DDR2	chr1	162724609	T	C	Heterozygous	1	10	SNP	Novel	2864	---
DDR2	chr1	162724610	C	T	Heterozygous	1.3	24	SNP	Novel	2863	---
DDR2	chr1	162724611	G	A	Heterozygous	1	12	SNP	Novel	2861	---
ALK	chr2	29416084	C	T	Heterozygous	2.5	62	SNP	Novel	956	---
ALK	chr2	29416133	G	A	Heterozygous	2.7	71	SNP	Novel	979	---
ALK	chr2	29416138	C	T	Heterozygous	4.6	197	SNP	Novel	982	---
ALK	chr2	29416151	G	A	Heterozygous	1.2	12	SNP	Novel	983	---
ALK	chr2	29416180	C	T	Heterozygous	2	41	SNP	Novel	976	---
ALK	chr2	29416184	C	T	Heterozygous	1.3	15	SNP	Novel	968	---
ALK	chr2	29416199	C	T	Heterozygous	1.4	18	SNP	Novel	971	---
ALK	chr2	29416329	G	A	Heterozygous	1.6	52	SNP	Novel	2944	---
ALK	chr2	29416347	C	T	Heterozygous	1.7	63	SNP	Novel	3017	---
ALK	chr2	29416353	C	T	Heterozygous	1.9	140	SNP	Novel	3027	---
ALK	chr2	29416361	C	T	Heterozygous	1.8	415	SNP	Novel	3087	---
ALK	chr2	29416375	C	T	Heterozygous	1.8	81	SNP	Novel	3120	---
ALK	chr2	29416378	C	T	Heterozygous	1.9	95	SNP	Novel	3131	---
ALK	chr2	29416386	C	T	Heterozygous	1.5	46	SNP	Novel	3196	---
ALK	chr2	29416387	T	A	Heterozygous	1.2	21	SNP	Novel	3197	---
ALK	chr2	29416405	G	A	Heterozygous	2.4	166	SNP	Novel	3126	---
ALK	chr2	29416406	G	A	Heterozygous	1.8	85	SNP	Novel	3254	---
ALK	chr2	29416424	C	T	Heterozygous	1.2	24	SNP	Novel	3264	---
ALK	chr2	29416444	C	T	Heterozygous	1.6	57	SNP	Novel	3110	---
ALK	chr2	29416445	C	T	Heterozygous	3.8	444	SNP	Novel	3280	---
ALK	chr2	29416454	G	A	Heterozygous	2.5	177	SNP	Novel	3278	---
ALK	chr2	29416544	G	A	Heterozygous	2.6	296	SNP	Novel	2247	---
ALK	chr2	29416548	G	A	Heterozygous	1.7	52	SNP	Novel	2278	---
ALK	chr2	29416558	G	A	Heterozygous	1.2	18	SNP	Novel	2302	---
ALK	chr2	29416563	G	A	Heterozygous	1.3	23	SNP	Novel	2359	---

ALK	chr2	29416566	C	T	Heterozygous	2.1	89	SNP	Novel	2361	---
ALK	chr2	29416572	T	C	Homozygous	99.8	50168	SNP	Novel	2407	---
ALK	chr2	29416581	C	T	Heterozygous	1.8	63	SNP	Novel	2426	---
ALK	chr2	29416587	G	C	Heterozygous	1.7	56	SNP	Novel	2389	---
ALK	chr2	29416604	C	T	Heterozygous	2.2	465	SNP	Novel	2513	---
ALK	chr2	29416619	G	A	Heterozygous	1.4	30	SNP	Novel	2729	---
ALK	chr2	29416623	G	A	Heterozygous	1.6	50	SNP	Novel	2735	---
ALK	chr2	29416625	G	A	Heterozygous	2.7	180	SNP	Novel	2734	---
ALK	chr2	29416638	C	T	Heterozygous	2	95	SNP	Novel	2753	---
ALK	chr2	29416646	C	T	Heterozygous	1.4	34	SNP	Novel	2766	---
ALK	chr2	29416664	G	A	Heterozygous	1.1	16	SNP	Novel	2620	---
ALK	chr2	29416671	G	A	Heterozygous	2	91	SNP	Novel	2654	---
ALK	chr2	29420425	C	T	Heterozygous	1.2	24	SNP	Novel	3938	---
ALK	chr2	29420437	C	T	Heterozygous	1.9	106	SNP	Novel	3934	---
ALK	chr2	29420469	C	T	Heterozygous	1.7	77	SNP	Novel	3929	---
ALK	chr2	29420473	C	T	Heterozygous	1	14	SNP	Novel	3939	---
ALK	chr2	29420479	G	A	Heterozygous	1.1	21	SNP	Novel	3918	---
ALK	chr2	29432664	C	T	Heterozygous	1.4	44	SNP	Hotspot	4000	COSM28056
ALK	chr2	29432675	G	A	Heterozygous	1	10	SNP	Novel	3997	---
ALK	chr2	29432695	C	T	Heterozygous	1.8	88	SNP	Novel	4000	---
ALK	chr2	29432720	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
ALK	chr2	29436861	G	A	Heterozygous	3.8	434	SNP	Novel	3216	---
ALK	chr2	29436863	GG	AA	Heterozygous	1.3	32	MNP	Novel	3199	---
ALK	chr2	29436889	C	T	Heterozygous	1.4	34	SNP	Novel	3224	---
ALK	chr2	29436914	G	A	Heterozygous	3.2	304	SNP	Novel	3223	---
ALK	chr2	29436928	G	A	Heterozygous	1.5	51	SNP	Novel	3226	---
ALK	chr2	29436939	G	A	Heterozygous	2.7	218	SNP	Novel	3220	---
ALK	chr2	29436948	C	T	Heterozygous	1.1	15	SNP	Novel	3223	---
ALK	chr2	29436950	G	A	Heterozygous	1.5	43	SNP	Novel	3223	---
ALK	chr2	29436952	GG	AA	Heterozygous	1.2	21	MNP	Novel	3202	---
ALK	chr2	29436957	G	A	Heterozygous	3.6	387	SNP	Novel	3222	---
ALK	chr2	29436966	G	A	Heterozygous	2.6	202	SNP	Novel	3212	---
ALK	chr2	29443584	G	A	Heterozygous	1.6	371	SNP	Novel	2542	---
ALK	chr2	29443589	C	T	Heterozygous	4.3	452	SNP	Novel	2601	---
ALK	chr2	29443610	C	T	Heterozygous	3.1	230	SNP	Novel	2646	---
ALK	chr2	29443613	C	T	Heterozygous	1.4	115	SNP	Hotspot	2625	COSM144250
ALK	chr2	29443646	G	A	Heterozygous	1.4	36	SNP	Novel	2662	---
ALK	chr2	29443664	C	T	Heterozygous	1.1	15	SNP	Novel	2686	---

ALK	chr2	29443665	C	T	Heterozygous	1.8	70	SNP	Novel	2687	---
ALK	chr2	29443671	G	A	Heterozygous	2.8	193	SNP	Novel	2690	---
ALK	chr2	29443672	C	T	Heterozygous	1.9	74	SNP	Novel	2691	---
ALK	chr2	29443686	C	T	Heterozygous	1.3	23	SNP	Novel	2692	---
ALK	chr2	29443689	G	A	Heterozygous	1.4	36	SNP	Novel	2693	---
ALK	chr2	29443697	A	G	Heterozygous	1.2	19	SNP	Hotspot	2681	COSM28057
ALK	chr2	29445215	G	A	Heterozygous	2.8	281	SNP	Novel	4000	---
ALK	chr2	29445218	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
ALK	chr2	29445230	G	A	Heterozygous	1.6	64	SNP	Novel	3998	---
ALK	chr2	29445245	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
ALK	chr2	29445248	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
ALK	chr2	29445253	C	T	Heterozygous	1.4	39	SNP	Novel	3999	---
ALK	chr2	29445278	G	A	Heterozygous	2.5	226	SNP	Novel	3986	---
ALK	chr2	29445298	G	A	Heterozygous	3	1144	SNP	Novel	3749	---
ALK	chr2	29445304	G	A	Heterozygous	3.1	358	SNP	Novel	3956	---
ALK	chr2	29445311	G	A	Heterozygous	1.3	30	SNP	Novel	3999	---
ALK	chr2	29445382	C	T	Heterozygous	1.3	36	SNP	Novel	3998	---
ALK	chr2	29445398	C	T	Heterozygous	1	14	SNP	Novel	3993	---
ALK	chr2	29445428	C	T	Heterozygous	1.5	58	SNP	Novel	3997	---
ALK	chr2	29445455	G	A	Heterozygous	1	155	SNP	Novel	3949	---
ALK	chr2	29497936	G	A	Heterozygous	1.2	19	SNP	Novel	2302	---
ALK	chr2	29497943	C	T	Heterozygous	1.2	19	SNP	Novel	2302	---
ALK	chr2	29497959	C	T	Heterozygous	1.3	23	SNP	Novel	2306	---
ALK	chr2	29497974	C	T	Heterozygous	1.8	58	SNP	Novel	2292	---
ALK	chr2	29497984	G	A	Heterozygous	1.5	168	SNP	Novel	2265	---
ALK	chr2	29498004	C	T	Heterozygous	1.9	134	SNP	Novel	2248	---
ALK	chr2	29498017	C	T	Heterozygous	1.5	39	SNP	Novel	2266	---
ALK	chr2	29498027	G	A	Heterozygous	1.2	18	SNP	Novel	2244	---
IDH1	chr2	209113107	C	T	Heterozygous	1.6	67	SNP	Novel	4000	---
IDH1	chr2	209113110	G	A	Heterozygous	1.3	32	SNP	Novel	3999	---
IDH1	chr2	209113112	C	T	Heterozygous	1.8	88	SNP	Hotspot	3989	COSM28746
IDH1	chr2	209113115	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
IDH1	chr2	209113120	G	A	Heterozygous	1.3	35	SNP	Novel	4000	---
IDH1	chr2	209113128	G	A	Heterozygous	1.8	186	SNP	Novel	3986	---
IDH1	chr2	209113166	C	T	Heterozygous	1.6	61	SNP	Novel	3999	---
IDH1	chr2	209113192	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
IDH1	chr2	209113193	C	T	Heterozygous	1.5	58	SNP	Novel	4000	---
IDH1	chr2	209113196	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---

ERBB4	chr2	212488717	C	T	Heterozygous	1	10	SNP	Novel	3999	---
ERBB4	chr2	212488738	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
ERBB4	chr2	212488759	G	A	Heterozygous	1.5	50	SNP	Novel	3999	---
ERBB4	chr2	212488773	C	T	Heterozygous	1.8	97	SNP	Novel	3958	---
ERBB4	chr2	212488780	G	A	Heterozygous	1.6	67	SNP	Novel	4000	---
RAF1	chr3	12632353	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
RAF1	chr3	12632359	C	T	Heterozygous	1	13	SNP	Novel	4000	---
RAF1	chr3	12632380	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
RAF1	chr3	12632391	C	T	Heterozygous	1.8	88	SNP	Novel	4000	---
RAF1	chr3	12632419	G	A	Heterozygous	1.6	74	SNP	Novel	4000	---
RAF1	chr3	12632437	C	T	Heterozygous	3	706	SNP	Novel	3981	---
RAF1	chr3	12645662	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
RAF1	chr3	12645701	C	T	Heterozygous	1.1	18	SNP	Novel	3999	---
RAF1	chr3	12645710	C	T	Heterozygous	1.4	42	SNP	Novel	3999	---
CTNNB1	chr3	41266034	G	A	Heterozygous	2	82	SNP	Novel	2603	---
CTNNB1	chr3	41266039	G	A	Heterozygous	1.2	19	SNP	Novel	2604	---
CTNNB1	chr3	41266041	C	T	Heterozygous	3.4	287	SNP	Novel	2603	---
CTNNB1	chr3	41266042	C	T	Heterozygous	1.9	78	SNP	Novel	2604	---
CTNNB1	chr3	41266079	C	T	Heterozygous	2.8	188	SNP	Novel	2611	---
CTNNB1	chr3	41266094	C	T	Heterozygous	2.2	107	SNP	Novel	2616	---
CTNNB1	chr3	41266097	G	A	Heterozygous	1.8	65	SNP	Hotspot	2617	COSM5672
CTNNB1	chr3	41266104	G	A	Heterozygous	1.1	13	SNP	Hotspot	2615	COSM5671
CTNNB1	chr3	41266120	C	T	Heterozygous	1.8	70	SNP	Novel	2614	---
PIK3CA	chr3	178916699	G	A	Heterozygous	5	435	SNP	Novel	718	---
PIK3CA	chr3	178916716	G	A	Heterozygous	4.3	132	SNP	Novel	722	---
PIK3CA	chr3	178916728	G	A	Heterozygous	5	172	SNP	Hotspot	721	COSM30625
PIK3CA	chr3	178916731	G	A	Heterozygous	12.1	683	SNP	Novel	721	---
PIK3CA	chr3	178916755	G	A	Heterozygous	6.8	285	SNP	Novel	720	---
PIK3CA	chr3	178916782	C	T	Heterozygous	2.6	51	SNP	Novel	644	---
PIK3CA	chr3	178916787	C	T	Heterozygous	3.6	85	SNP	Novel	646	---
PIK3CA	chr3	178916873	G	A	Heterozygous	2.5	108	SNP	Novel	1847	---
PIK3CA	chr3	178916878	C	T	Heterozygous	2	65	SNP	Novel	1841	---
PIK3CA	chr3	178916938	G	A	Heterozygous	2.1	114	SNP	Novel	1826	---
PIK3CA	chr3	178921500	T	G	Heterozygous	2.1	311	SNP	Novel	2179	---
PIK3CA	chr3	178921513	G	A	Heterozygous	1.2	16	SNP	Novel	2222	---
PIK3CA	chr3	178921515	G	A	Heterozygous	2.1	86	SNP	Novel	2226	---
PIK3CA	chr3	178921516	C	T	Heterozygous	1.5	37	SNP	Novel	2233	---
PIK3CA	chr3	178921544	C	T	Heterozygous	1.2	19	SNP	Novel	2282	---

PIK3CA	chr3	178921566	G	A	Heterozygous	2.9	179	SNP	Novel	2285	---
PIK3CA	chr3	178921568	C	T	Heterozygous	1.1	15	SNP	Novel	2285	---
PIK3CA	chr3	178922277	C	T	Heterozygous	4.3	246	SNP	Novel	679	---
PIK3CA	chr3	178922318	G	A	Heterozygous	2.5	52	SNP	Novel	769	---
PIK3CA	chr3	178922329	C	T	Heterozygous	4.4	144	SNP	Novel	771	---
PIK3CA	chr3	178922344	G	A	Heterozygous	3.9	115	SNP	Novel	770	---
PIK3CA	chr3	178927916	G	A	Heterozygous	1.3	20	SNP	Novel	1661	---
PIK3CA	chr3	178927923	G	A	Heterozygous	1.4	26	SNP	Novel	1652	---
PIK3CA	chr3	178927928	G	A	Heterozygous	2.7	120	SNP	Novel	1680	---
PIK3CA	chr3	178927989	G	A	Heterozygous	2.3	85	SNP	Novel	1803	---
PIK3CA	chr3	178927995	G	A	Heterozygous	2.6	115	SNP	Novel	1802	---
PIK3CA	chr3	178928013	G	A	Heterozygous	1.8	48	SNP	Novel	1794	---
PIK3CA	chr3	178928020	C	T	Heterozygous	2.7	122	SNP	Novel	1786	---
PIK3CA	chr3	178928070	C	T	Heterozygous	1.2	25	SNP	Novel	3310	---
PIK3CA	chr3	178928103	G	A	Heterozygous	1.4	36	SNP	Novel	3336	---
PIK3CA	chr3	178928110	G	A	Heterozygous	1.3	27	SNP	Novel	3340	---
PIK3CA	chr3	178936066	A	G	Heterozygous	3.2	124	SNP	Novel	1203	---
PIK3CA	chr3	178936114	G	A	Heterozygous	2.6	84	SNP	Novel	1208	---
PIK3CA	chr3	178936122	G	A	Heterozygous	2.9	101	SNP	Novel	1207	---
PIK3CA	chr3	178936127	G	A	Heterozygous	1.2	12	SNP	Novel	1208	---
PIK3CA	chr3	178936152	C	-	Heterozygous	1.5	41	DEL	Novel	1161	---
PIK3CA	chr3	178938835	C	T	Heterozygous	3.6	131	SNP	Novel	1032	---
PIK3CA	chr3	178938876	C	T	Heterozygous	1.7	29	SNP	Novel	1045	---
PIK3CA	chr3	178938924	G	A	Heterozygous	3.2	112	SNP	Novel	1088	---
PIK3CA	chr3	178938930	G	A	Heterozygous	3.8	154	SNP	Novel	1076	---
PIK3CA	chr3	178938931	G	A	Heterozygous	3	96	SNP	Novel	1076	---
PIK3CA	chr3	178938945	G	A	Heterozygous	7.9	522	SNP	Novel	1070	---
PIK3CA	chr3	178938949	T	C	Heterozygous	1.4	18	SNP	Novel	1067	---
PIK3CA	chr3	178947881	G	A	Heterozygous	1	10	SNP	Novel	4000	---
PIK3CA	chr3	178947885	C	T	Heterozygous	1	13	SNP	Novel	3992	---
PIK3CA	chr3	178952003	G	A	Heterozygous	1.5	43	SNP	Novel	2663	---
PIK3CA	chr3	178952013	G	A	Heterozygous	1.1	12	SNP	Novel	2634	---
PIK3CA	chr3	178952017	G	A	Heterozygous	1.4	35	SNP	Novel	2677	---
PIK3CA	chr3	178952019	C	T	Heterozygous	2.9	216	SNP	Hotspot	2680	COSM36285
PIK3CA	chr3	178952030	G	A	Heterozygous	1.8	66	SNP	Novel	2691	---
PIK3CA	chr3	178952039	G	A	Heterozygous	1.7	62	SNP	Novel	2698	---
PIK3CA	chr3	178952065	G	A	Heterozygous	1.7	175	SNP	Hotspot	2507	COSM25085
PIK3CA	chr3	178952074	G	A	Heterozygous	1.3	23	SNP	Hotspot	2495	COSM29313

PIK3CA	chr3	178952091	G	A	Heterozygous	1	8	SNP	Hotspot	2445	COSM308548
PIK3CA	chr3	178952095	C	T	Heterozygous	1.8	63	SNP	Novel	2422	---
FGFR3	chr4	1797215	C	T	Heterozygous	2.2	82	SNP	Novel	1865	---
FGFR3	chr4	1797216	G	A	Heterozygous	2.4	101	SNP	Novel	1865	---
FGFR3	chr4	1797219	C	T	Heterozygous	2.7	132	SNP	Novel	1870	---
FGFR3	chr4	1797234	G	A	Heterozygous	2	67	SNP	Novel	1886	---
FGFR3	chr4	1797235	G	A	Heterozygous	2.1	71	SNP	Novel	1887	---
FGFR3	chr4	1797244	C	T	Heterozygous	1.5	33	SNP	Novel	1891	---
FGFR3	chr4	1797273	G	A	Heterozygous	1.9	61	SNP	Novel	1920	---
FGFR3	chr4	1797286	G	A	Heterozygous	1.2	18	SNP	Novel	1940	---
FGFR3	chr4	1797287	G	A	Heterozygous	1.7	42	SNP	Novel	1935	---
FGFR3	chr4	1797293	G	A	Heterozygous	3.1	181	SNP	Novel	1945	---
FGFR3	chr4	1797301	C	T	Heterozygous	2.6	120	SNP	Novel	1943	---
FGFR3	chr4	1797303	G	A	Heterozygous	1.7	45	SNP	Novel	1936	---
FGFR3	chr4	1797313	C	T	Heterozygous	2.9	194	SNP	Novel	1980	---
FGFR3	chr4	1797318	A	G	Heterozygous	1.2	17	SNP	Novel	1990	---
FGFR3	chr4	1797322	A	G	Heterozygous	1.1	13	SNP	Novel	1952	---
FGFR3	chr4	1797693	C	T	Heterozygous	1.9	381	SNP	Novel	3972	---
FGFR3	chr4	1797706	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
FGFR3	chr4	1797708	C	T	Heterozygous	1.5	58	SNP	Novel	4000	---
FGFR3	chr4	1797738	C	T	Heterozygous	1.4	46	SNP	Novel	3933	---
FGFR3	chr4	1797748	C	T	Heterozygous	1	112	SNP	Novel	3986	---
FGFR3	chr4	1801109	G	A	Heterozygous	1.1	19	SNP	Novel	4000	---
FGFR3	chr4	1801117	G	A	Heterozygous	1.1	18	SNP	Novel	3976	---
FGFR3	chr4	1801122	C	T	Heterozygous	2.5	208	SNP	Novel	4000	---
FGFR3	chr4	1801127	C	T	Heterozygous	1	12	SNP	Novel	4000	---
FGFR3	chr4	1801147	G	A	Heterozygous	1.3	37	SNP	Novel	3997	---
FGFR3	chr4	1801160	C	T	Heterozygous	2.4	194	SNP	Novel	3999	---
FGFR3	chr4	1801171	CC	TT	Heterozygous	1.1	20	MNP	Novel	3999	---
FGFR3	chr4	1801174	C	T	Heterozygous	1.4	44	SNP	Novel	3999	---
FGFR3	chr4	1801188	C	T	Heterozygous	1.1	84	SNP	Novel	3958	---
FGFR3	chr4	1801195	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
FGFR3	chr4	1801199	C	T	Heterozygous	1	12	SNP	Novel	3999	---
FGFR3	chr4	1801220	G	A	Heterozygous	1	13	SNP	Novel	4000	---
FGFR3	chr4	1801229	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
FGFR3	chr4	1803591	G	A	Heterozygous	1.4	39	SNP	Novel	3998	---
FGFR3	chr4	1803592	C	T	Heterozygous	1.5	125	SNP	Novel	3955	---
FGFR3	chr4	1803629	C	T	Heterozygous	1	13	SNP	Novel	3999	---

FGFR3	chr4	1805790	C	T	Heterozygous	1.5	55	SNP	Novel	3998	---
FGFR3	chr4	1805802	C	T	Heterozygous	1.1	18	SNP	Novel	3998	---
FGFR3	chr4	1805803	C	T	Heterozygous	1.7	74	SNP	Novel	3992	---
FGFR3	chr4	1805822	C	T	Heterozygous	1.6	199	SNP	Novel	3978	---
FGFR3	chr4	1805829	C	T	Heterozygous	1	13	SNP	Novel	3982	---
FGFR3	chr4	1805836	C	T	Heterozygous	1.1	16	SNP	Novel	3997	---
FGFR3	chr4	1805842	G	A	Heterozygous	1	13	SNP	Novel	3997	---
FGFR3	chr4	1805844	G	A	Heterozygous	1	10	SNP	Novel	3997	---
FGFR3	chr4	1805856	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
FGFR3	chr4	1805859	C	T	Heterozygous	1	13	SNP	Novel	3996	---
FGFR3	chr4	1805885	C	T	Heterozygous	1.7	85	SNP	Novel	3970	---
FGFR3	chr4	1805892	G	A	Heterozygous	1.7	74	SNP	Novel	3996	---
FGFR3	chr4	1806119	G	A	Heterozygous	1.2	183	SNP	Hotspot	3919	COSM24842
FGFR3	chr4	1806162	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
FGFR3	chr4	1806169	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
FGFR3	chr4	1806182	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
FGFR3	chr4	1806183	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
FGFR3	chr4	1807844	G	A	Heterozygous	1	10	SNP	Novel	4000	---
FGFR3	chr4	1807860	G	A	Heterozygous	1.4	42	SNP	Novel	3998	---
FGFR3	chr4	1807862	G	A	Heterozygous	1.6	64	SNP	Novel	4000	---
FGFR3	chr4	1807877	G	A	Heterozygous	1.4	50	SNP	Novel	4000	---
FGFR3	chr4	1807891	G	A	Heterozygous	1.9	114	SNP	Novel	3998	---
FGFR3	chr4	1807894	G	A	Homozygous	99.8	83413	SNP	Novel	3997	---
FGFR3	chr4	1807916	G	A	Heterozygous	1.3	142	SNP	Novel	3913	---
FGFR3	chr4	1808318	C	T	Heterozygous	1.3	34	SNP	Novel	3998	---
FGFR3	chr4	1808323	C	T	Heterozygous	0.9	23	SNP	Novel	3977	---
FGFR3	chr4	1808360	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
FGFR3	chr4	1809233	C	T	Heterozygous	1	75	SNP	Novel	2972	---
FGFR3	chr4	1809259	C	T	Heterozygous	2	244	SNP	Novel	3016	---
FGFR3	chr4	1809271	GGG	AGA	Heterozygous	2.9	870	MNP	Novel	2984	---
FGFR3	chr4	1809300	C	T	Heterozygous	1.9	291	SNP	Novel	3332	---
FGFR3	chr4	1809305	G	A	Heterozygous	2.5	187	SNP	Novel	3342	---
FGFR3	chr4	1809320	G	A	Heterozygous	2.4	752	SNP	Novel	3294	---
FGFR3	chr4	1809325	G	A	Heterozygous	1.7	74	SNP	Novel	3315	---
FGFR3	chr4	1809329	G	A	Heterozygous	1	11	SNP	Novel	3310	---
FGFR3	chr4	1809334	G	A	Heterozygous	1.9	376	SNP	Novel	3191	---
FGFR3	chr4	1809347	C	T	Heterozygous	1.1	17	SNP	Novel	3276	---
FGFR3	chr4	1809473	C	T	Heterozygous	1	12	SNP	Novel	3305	---

FGFR3	chr4	1809475	C	T	Heterozygous	1.8	79	SNP	Novel	3298	---
FGFR3	chr4	1809483	C	T	Heterozygous	1.8	79	SNP	Novel	3305	---
FGFR3	chr4	1809488	C	T	Heterozygous	3.1	387	SNP	Novel	3273	---
FGFR3	chr4	1809503	C	T	Heterozygous	1.9	90	SNP	Novel	3313	---
FGFR3	chr4	1809509	C	T	Heterozygous	3.5	572	SNP	Novel	3293	---
FGFR3	chr4	1809519	C	T	Heterozygous	1.7	74	SNP	Novel	3327	---
FGFR3	chr4	1809528	C	T	Heterozygous	1.6	62	SNP	Novel	3319	---
FGFR3	chr4	1809534	C	T	Heterozygous	1.9	96	SNP	Novel	3334	---
FGFR3	chr4	1809537	G	A	Heterozygous	1.8	81	SNP	Novel	3333	---
FGFR3	chr4	1809540	G	A	Heterozygous	2.5	177	SNP	Novel	3329	---
FGFR3	chr4	1809544	G	A	Heterozygous	1.8	87	SNP	Novel	3324	---
PDGFRA	chr4	55097720	C	T	Heterozygous	2	246	SNP	Novel	3392	---
PDGFRA	chr4	55097739	C	T	Heterozygous	2.4	791	SNP	Novel	3336	---
PDGFRA	chr4	55097755	C	T	Heterozygous	1.7	75	SNP	Novel	3386	---
PDGFRA	chr4	55097757	C	T	Heterozygous	1.2	23	SNP	Novel	3468	---
PDGFRA	chr4	55097760	C	T	Heterozygous	2.3	293	SNP	Novel	3460	---
PDGFRA	chr4	55097766	C	T	Heterozygous	1.4	37	SNP	Novel	3488	---
PDGFRA	chr4	55097769	C	T	Heterozygous	1.8	81	SNP	Novel	3489	---
PDGFRA	chr4	55097774	C	T	Heterozygous	1.9	94	SNP	Novel	3434	---
PDGFRA	chr4	55097780	C	T	Heterozygous	1.1	14	SNP	Novel	3512	---
PDGFRA	chr4	55097790	G	A	Heterozygous	1.2	25	SNP	Novel	3515	---
PDGFRA	chr4	55097802	C	T	Heterozygous	1.1	17	SNP	Novel	3506	---
PDGFRA	chr4	55097806	G	A	Heterozygous	1.4	39	SNP	Novel	3511	---
PDGFRA	chr4	55097810	C	T	Heterozygous	1.2	21	SNP	Novel	3509	---
PDGFRA	chr4	55097811	C	T	Heterozygous	2.6	205	SNP	Novel	3509	---
PDGFRA	chr4	55097816	C	T	Heterozygous	1.9	92	SNP	Novel	3509	---
PDGFRA	chr4	55097820	C	T	Heterozygous	1.1	15	SNP	Novel	3507	---
PDGFRA	chr4	55097835	G	A	Heterozygous	1.3	35	SNP	Novel	3497	---
PDGFRA	chr4	55097838	C	T	Heterozygous	1.8	85	SNP	Novel	3491	---
PDGFRA	chr4	55104297	C	T	Heterozygous	1.3	112	SNP	Novel	2535	---
PDGFRA	chr4	55104307	C	T	Heterozygous	1.5	76	SNP	Novel	2537	---
PDGFRA	chr4	55104310	C	T	Heterozygous	2.7	171	SNP	Novel	2567	---
PDGFRA	chr4	55104344	C	T	Heterozygous	1.8	67	SNP	Novel	2585	---
PDGFRA	chr4	55104350	C	T	Heterozygous	2.9	202	SNP	Novel	2587	---
PDGFRA	chr4	55104356	C	T	Heterozygous	1.5	40	SNP	Novel	2577	---
PDGFRA	chr4	55104367	T	C	Heterozygous	1.1	12	SNP	Novel	2559	---
PDGFRA	chr4	55104369	G	A	Heterozygous	1.8	69	SNP	Novel	2558	---
PDGFRA	chr4	55104370	C	T	Heterozygous	1.7	54	SNP	Novel	2559	---

PDGFRA	chr4	55121543	C	T	Heterozygous	2.2	80	SNP	Novel	1881	---
PDGFRA	chr4	55123704	G	A	Heterozygous	1.8	59	SNP	Novel	2187	---
PDGFRA	chr4	55123733	G	A	Heterozygous	2.6	386	SNP	Novel	2193	---
PDGFRA	chr4	55123753	C	T	Heterozygous	2.2	102	SNP	Novel	2274	---
PDGFRA	chr4	55123762	G	A	Heterozygous	2	82	SNP	Novel	2299	---
PDGFRA	chr4	55123763	G	A	Heterozygous	1.5	35	SNP	Novel	2288	---
PDGFRA	chr4	55123787	C	T	Heterozygous	1.5	35	SNP	Novel	2293	---
PDGFRA	chr4	55126194	C	T	Heterozygous	1.5	52	SNP	Novel	3998	---
PDGFRA	chr4	55126219	G	A	Heterozygous	1	12	SNP	Novel	3998	---
PDGFRA	chr4	55126241	A	G	Heterozygous	1	10	SNP	Novel	4000	---
PDGFRA	chr4	55133665	G	A	Heterozygous	3.1	268	SNP	Novel	3052	---
PDGFRA	chr4	55133683	G	A	Heterozygous	2	99	SNP	Novel	3059	---
PDGFRA	chr4	55133710	C	T	Heterozygous	1.5	42	SNP	Novel	3075	---
PDGFRA	chr4	55133724	G	A	Heterozygous	1.6	53	SNP	Novel	3081	---
PDGFRA	chr4	55133725	G	A	Heterozygous	2.3	135	SNP	Novel	3062	---
PDGFRA	chr4	55133742	C	T	Heterozygous	1.8	74	SNP	Novel	3071	---
PDGFRA	chr4	55133756	G	A	Heterozygous	2.8	225	SNP	Novel	3069	---
PDGFRA	chr4	55140990	T	C	Heterozygous	2.2	50	SNP	Novel	1057	---
PDGFRA	chr4	55141012	C	T	Heterozygous	4.1	168	SNP	Novel	1061	---
PDGFRA	chr4	55141015	G	A	Heterozygous	2.6	74	SNP	Novel	1061	---
PDGFRA	chr4	55141055	A	G	Homozygous	100	21621	SNP	Novel	1047	---
PDGFRA	chr4	55141090	A	G	Heterozygous	1.5	19	SNP	Novel	1032	---
PDGFRA	chr4	55144122	C	T	Heterozygous	1.2	27	SNP	Novel	3999	---
PDGFRA	chr4	55144136	G	A	Heterozygous	1.1	20	SNP	Novel	3998	---
PDGFRA	chr4	55144158	G	A	Heterozygous	1	10	SNP	Novel	3998	---
PDGFRA	chr4	55144173	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
PDGFRA	chr4	55144191	G	A	Heterozygous	1.1	16	SNP	Novel	3998	---
PDGFRA	chr4	55152037	C	T	Heterozygous	1.4	42	SNP	Novel	3999	---
PDGFRA	chr4	55152041	C	T	Heterozygous	2.8	272	SNP	Novel	3999	---
PDGFRA	chr4	55152062	G	C	Heterozygous	1.3	37	SNP	Novel	3999	---
PDGFRA	chr4	55152088	C	T	Heterozygous	1.8	88	SNP	Novel	4000	---
PDGFRA	chr4	55152097	C	T	Heterozygous	1.8	168	SNP	Novel	3901	---
PDGFRA	chr4	55152100	G	A	Heterozygous	1.6	64	SNP	Novel	4000	---
PDGFRA	chr4	55152101	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
PDGFRA	chr4	55152108	C	T	Heterozygous	1.4	44	SNP	Novel	3931	---
PDGFRA	chr4	55152109	G	A	Heterozygous	1.5	58	SNP	Novel	3999	---
PDGFRA	chr4	55152127	C	T	Heterozygous	1.6	64	SNP	Novel	3999	---
PDGFRA	chr4	55152138	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---

PDGFRA	chr4	55152142	C	T	Heterozygous	1.2	22	SNP	Novel	3999	---
PDGFRA	chr4	55152145	C	T	Heterozygous	1.1	17	SNP	Novel	4000	---
PDGFRA	chr4	55161871	C	T	Heterozygous	1.3	35	SNP	Novel	3999	---
PDGFRA	chr4	55161872	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
PDGFRA	chr4	55161896	C	T	Heterozygous	1.7	77	SNP	Novel	3912	---
PDGFRA	chr4	55161915	G	A	Heterozygous	1.6	62	SNP	Novel	3999	---
PDGFRA	chr4	55161927	G	A	Heterozygous	1.2	22	SNP	Novel	3995	---
PDGFRA	chr4	55161943	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
KIT	chr4	55529134	C	T	Heterozygous	1.7	20	SNP	Novel	586	---
KIT	chr4	55529160	GAA	-	Heterozygous	76.7	7535	DEL	Novel	467	---
KIT	chr4	55529160	GAAA	-	Heterozygous	15.4	7535	DEL	Novel	467	---
KIT	chr4	55566221	G	A	Heterozygous	1.4	16	SNP	Novel	902	---
KIT	chr4	55566222	G	A	Heterozygous	1.6	21	SNP	Novel	902	---
KIT	chr4	55566225	C	T	Heterozygous	1.2	11	SNP	Novel	903	---
KIT	chr4	55566243	C	T	Heterozygous	2	37	SNP	Novel	900	---
KIT	chr4	55566266	G	A	Heterozygous	54.7	7261	SNP	Novel	881	---
KIT	chr4	55573041	G	A	Heterozygous	3.1	77	SNP	Novel	776	---
KIT	chr4	55573057	C	T	Heterozygous	2.6	55	SNP	Novel	779	---
KIT	chr4	55573072	G	A	Heterozygous	3.5	96	SNP	Novel	777	---
KIT	chr4	55573090	G	A	Heterozygous	5.3	197	SNP	Novel	778	---
KIT	chr4	55573092	C	T	Heterozygous	1.9	31	SNP	Novel	778	---
KIT	chr4	55589756	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
KIT	chr4	55589764	C	T	Heterozygous	1	10	SNP	Novel	3999	---
KIT	chr4	55589768	C	T	Heterozygous	1.2	20	SNP	Novel	3997	---
KIT	chr4	55589773	G	A	Heterozygous	1	34	SNP	Novel	3981	---
KIT	chr4	55589789	G	A	Heterozygous	1.2	21	SNP	Novel	3999	---
KIT	chr4	55592165	G	A	Heterozygous	1.4	49	SNP	Novel	4000	---
KIT	chr4	55592169	G	A	Heterozygous	1.6	68	SNP	Novel	3992	---
KIT	chr4	55592182	C	T	Heterozygous	1.8	88	SNP	Novel	3999	---
KIT	chr4	55592191	C	T	Heterozygous	1.9	109	SNP	Novel	3999	---
KIT	chr4	55592204	G	A	Heterozygous	1.2	22	SNP	Novel	3975	---
KIT	chr4	55593437	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
KIT	chr4	55593448	G	A	Heterozygous	1	13	SNP	Novel	3999	---
KIT	chr4	55593451	G	A	Heterozygous	2.2	156	SNP	Novel	4000	---
KIT	chr4	55593474	C	T	Heterozygous	1	12	SNP	Novel	4000	---
KIT	chr4	55593475	C	T	Heterozygous	1	13	SNP	Novel	3999	---
KIT	chr4	55593496	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
KIT	chr4	55593588	A	G	Heterozygous	3.5	454	SNP	Novel	1554	---

KIT	chr4	55593602	G	A	Heterozygous	1.8	37	SNP	Novel	1594	---
KIT	chr4	55593620	G	A	Heterozygous	1.4	87	SNP	Novel	1623	---
KIT	chr4	55593663	C	T	Heterozygous	2.1	65	SNP	Novel	1617	---
KIT	chr4	55593665	T	C	Heterozygous	1.7	39	SNP	Novel	1651	---
KIT	chr4	55593669	G	A	Heterozygous	1.8	47	SNP	Novel	1640	---
KIT	chr4	55593681	G	A	Heterozygous	1.3	20	SNP	Novel	1652	---
KIT	chr4	55594184	C	T	Heterozygous	3.8	351	SNP	Novel	2658	---
KIT	chr4	55594200	G	A	Heterozygous	2.3	130	SNP	Novel	2690	---
KIT	chr4	55594203	G	A	Heterozygous	1.9	73	SNP	Novel	2681	---
KIT	chr4	55594229	G	A	Heterozygous	2.1	101	SNP	Novel	2718	---
KIT	chr4	55594247	C	T	Heterozygous	2.1	96	SNP	Novel	2725	---
KIT	chr4	55594256	T	C	Heterozygous	1.4	30	SNP	Novel	2723	---
KIT	chr4	55594266	C	T	Heterozygous	1.2	21	SNP	Novel	2716	---
KIT	chr4	55594270	G	A	Heterozygous	1.6	48	SNP	Novel	2716	---
KIT	chr4	55598874	A	G	Heterozygous	1.3	11	SNP	Novel	554	---
KIT	chr4	55598901	A	G	Heterozygous	2.3	35	SNP	Novel	562	---
KIT	chr4	55598906	C	T	Heterozygous	5.2	146	SNP	Novel	558	---
KIT	chr4	55599261	G	A	Heterozygous	2.9	68	SNP	Hotspot	807	COSM1600411
KIT	chr4	55599300	G	A	Heterozygous	1.9	29	SNP	Novel	804	---
KIT	chr4	55599308	G	A	Heterozygous	7.2	348	SNP	Novel	801	---
KIT	chr4	55599318	G	A	Heterozygous	4.1	180	SNP	Novel	1135	---
KIT	chr4	55599320	G	A	Heterozygous	3.3	119	SNP	Hotspot	1134	COSM1313
ROS1	chr6	117638353	C	T	Heterozygous	3.9	435	SNP	Novel	3111	---
ROS1	chr6	117638359	G	A	Heterozygous	2.5	169	SNP	Novel	3113	---
ROS1	chr6	117638377	G	A	Heterozygous	2.2	130	SNP	Novel	3115	---
ROS1	chr6	117638379	G	A	Heterozygous	1.6	55	SNP	Novel	3116	---
ROS1	chr6	117638404	G	A	Heterozygous	1.8	72	SNP	Novel	3122	---
ROS1	chr6	117638421	G	A	Heterozygous	2.9	234	SNP	Novel	3099	---
ROS1	chr6	117638422	G	T	Heterozygous	1.1	14	SNP	Novel	3096	---
ROS1	chr6	117638425	G	A	Heterozygous	2.2	121	SNP	Novel	3092	---
ROS1	chr6	117641030	C	T	Heterozygous	1.8	56	SNP	Novel	2025	---
ROS1	chr6	117641063	C	T	Heterozygous	2.6	135	SNP	Novel	2080	---
ROS1	chr6	117641075	C	T	Heterozygous	1.8	56	SNP	Novel	2097	---
ROS1	chr6	117641078	C	T	Heterozygous	2.7	145	SNP	Novel	2100	---
ROS1	chr6	117641080	G	A	Heterozygous	2.1	85	SNP	Novel	2100	---
ROS1	chr6	117641083	G	A	Heterozygous	2.8	150	SNP	Novel	2100	---
ROS1	chr6	117641101	C	T	Heterozygous	2	71	SNP	Novel	2108	---
ROS1	chr6	117641110	C	T	Heterozygous	4.6	410	SNP	Novel	2115	---

ROS1	chr6	117641118	C	T	Heterozygous	1.9	62	SNP	Novel	2127	---
ROS1	chr6	117641121	C	T	Heterozygous	2.1	83	SNP	Novel	2131	---
ROS1	chr6	117641136	C	T	Heterozygous	1.6	37	SNP	Novel	2122	---
ROS1	chr6	117641139	T	C	Heterozygous	2	346	SNP	Novel	2104	---
ESR1	chr6	152419913	G	A	Heterozygous	1.3	35	SNP	Novel	3847	---
ESR1	chr6	152419916	C	T	Heterozygous	1.1	22	SNP	Novel	3827	---
ESR1	chr6	152419928	C	T	Heterozygous	1.3	35	SNP	Novel	3865	---
ESR1	chr6	152419930	G	A	Heterozygous	1.6	66	SNP	Novel	3866	---
ESR1	chr6	152419934	C	T	Heterozygous	1.8	87	SNP	Novel	3863	---
ESR1	chr6	152419945	G	A	Heterozygous	1.5	51	SNP	Novel	3870	---
ESR1	chr6	152419964	G	A	Heterozygous	1.3	35	SNP	Novel	3869	---
ESR1	chr6	152419966	G	A	Heterozygous	1	12	SNP	Novel	3856	---
ESR1	chr6	152420001	C	T	Heterozygous	1.7	73	SNP	Novel	3856	---
ESR1	chr6	152420012	C	T	Heterozygous	1.4	42	SNP	Novel	3789	---
ESR1	chr6	152420014	C	T	Heterozygous	1.3	31	SNP	Novel	3752	---
ESR1	chr6	152420022	C	T	Heterozygous	1.7	82	SNP	Novel	3726	---
ESR1	chr6	152420027	G	A	Heterozygous	1.2	25	SNP	Novel	3682	---
EGFR	chr7	55198956	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
EGFR	chr7	55198974	C	T	Heterozygous	1	13	SNP	Novel	3999	---
EGFR	chr7	55198994	C	-	Heterozygous	1.1	45	DEL	Novel	3949	---
EGFR	chr7	55199005	C	T	Heterozygous	1.1	125	SNP	Novel	3957	---
EGFR	chr7	55199015	C	T	Heterozygous	1.1	17	SNP	Novel	4000	---
EGFR	chr7	55199021	C	T	Heterozygous	2	126	SNP	Novel	4000	---
EGFR	chr7	55199034	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
EGFR	chr7	55211048	G	A	Heterozygous	1.5	55	SNP	Novel	4000	---
EGFR	chr7	55211060	G	A	Heterozygous	1.4	39	SNP	Novel	3998	---
EGFR	chr7	55211075	C	T	Heterozygous	1.1	17	SNP	Novel	3999	---
EGFR	chr7	55211104	C	T	Heterozygous	1.6	67	SNP	Novel	4000	---
EGFR	chr7	55211110	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
EGFR	chr7	55211115	G	A	Heterozygous	1.4	39	SNP	Novel	3999	---
EGFR	chr7	55219920	C	T	Heterozygous	1.2	104	SNP	Novel	3817	---
EGFR	chr7	55219931	C	T	Heterozygous	1	11	SNP	Novel	3901	---
EGFR	chr7	55219934	C	T	Heterozygous	3.8	522	SNP	Novel	3913	---
EGFR	chr7	55219939	C	T	Heterozygous	1.1	17	SNP	Novel	3921	---
EGFR	chr7	55219956	C	T	Heterozygous	1.3	37	SNP	Novel	3989	---
EGFR	chr7	55219974	C	T	Heterozygous	1.2	28	SNP	Novel	3953	---
EGFR	chr7	55221798	C	T	Heterozygous	3.2	816	SNP	Novel	2473	---
EGFR	chr7	55221814	C	T	Heterozygous	4.3	433	SNP	Novel	2558	---

EGFR	chr7	55221819	G	A	Heterozygous	2	91	SNP	Novel	2589	---
EGFR	chr7	55221823	C	T	Heterozygous	2.7	179	SNP	Novel	2597	---
EGFR	chr7	55221856	C	T	Heterozygous	3.1	232	SNP	Novel	2634	---
EGFR	chr7	55221891	C	T	Heterozygous	2.3	123	SNP	Novel	2643	---
EGFR	chr7	55221893	C	T	Heterozygous	1.4	35	SNP	Novel	2640	---
EGFR	chr7	55221907	C	T	Heterozygous	1.9	76	SNP	Novel	2638	---
EGFR	chr7	55227954	C	T	Heterozygous	1.5	30	SNP	Novel	1636	---
EGFR	chr7	55227961	C	T	Heterozygous	1.6	33	SNP	Novel	1646	---
EGFR	chr7	55227964	G	A	Heterozygous	2.1	70	SNP	Novel	1644	---
EGFR	chr7	55227977	G	A	Heterozygous	1.1	11	SNP	Novel	1656	---
EGFR	chr7	55228016	G	A	Heterozygous	2	56	SNP	Novel	1632	---
EGFR	chr7	55228019	G	A	Heterozygous	2.1	116	SNP	Novel	1587	---
EGFR	chr7	55228025	A	G	Heterozygous	1.7	37	SNP	Novel	1621	---
EGFR	chr7	55228030	C	T	Heterozygous	1.5	30	SNP	Novel	1619	---
EGFR	chr7	55228032	G	A	Heterozygous	3	137	SNP	Novel	1621	---
EGFR	chr7	55228036	G	A	Heterozygous	1.3	18	SNP	Novel	1621	---
EGFR	chr7	55228053	A	-	Homozygous	100	31170	DEL	Novel	1595	---
EGFR	chr7	55232967	G	A	Heterozygous	1.2	21	SNP	Novel	3999	---
EGFR	chr7	55232984	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
EGFR	chr7	55233017	C	T	Heterozygous	0.8	43	SNP	Novel	3939	---
EGFR	chr7	55241649	C	T	Heterozygous	0.9	56	SNP	Novel	3985	---
EGFR	chr7	55241673	G	A	Heterozygous	0.9	12	SNP	Novel	3961	---
EGFR	chr7	55241694	-	G	Heterozygous	98.6	66469	INS	Novel	3597	---
EGFR	chr7	55241688	C	T	Heterozygous	1.4	66469	SNP	Novel	3597	---
EGFR	chr7	55241703	G	A	Heterozygous	0.9	15	SNP	Novel	3169	---
EGFR	chr7	55241723	G	A	Heterozygous	1.2	19	SNP	Novel	2995	---
EGFR	chr7	55242418	C	T	Heterozygous	3	170	SNP	Novel	1938	---
EGFR	chr7	55242420	C	T	Heterozygous	1.1	14	SNP	Novel	1938	---
EGFR	chr7	55242422	G	A	Heterozygous	2.5	110	SNP	Novel	1940	---
EGFR	chr7	55242427	C	T	Heterozygous	1.7	41	SNP	Novel	1935	---
EGFR	chr7	55242434	G	A	Heterozygous	3.1	176	SNP	Novel	1937	---
EGFR	chr7	55242452	C	T	Heterozygous	3.5	228	SNP	Novel	1924	---
EGFR	chr7	55242473	G	A	Heterozygous	1.2	15	SNP	Novel	1853	---
EGFR	chr7	55242498	C	T	Heterozygous	2.9	697	SNP	Novel	1850	---
EGFR	chr7	55242516	G	A	Heterozygous	3.6	230	SNP	Novel	1869	---
EGFR	chr7	55248997	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
EGFR	chr7	55249012	C	T	Heterozygous	2	547	SNP	Novel	3858	---
EGFR	chr7	55249026	G	A	Heterozygous	1.4	46	SNP	Novel	3943	---

EGFR	chr7	55249031	C	T	Heterozygous	1.4	42	SNP	Novel	4000	---
EGFR	chr7	55249037	G	A	Heterozygous	1.3	272	SNP	Novel	3977	---
EGFR	chr7	55249042	C	T	Heterozygous	1.6	71	SNP	Novel	4000	---
EGFR	chr7	55249061	C	T	Heterozygous	1.3	34	SNP	Novel	3999	---
EGFR	chr7	55249063	G	A	Heterozygous	27.9	13426	SNP	Novel	3995	---
EGFR	chr7	55249071	C	T	Heterozygous	2	126	SNP	Hotspot	4000	COSM6240
EGFR	chr7	55249073	C	T	Heterozygous	4.4	701	SNP	Novel	3998	---
EGFR	chr7	55249083	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
EGFR	chr7	55249093	C	T	Heterozygous	3	339	SNP	Novel	4000	---
EGFR	chr7	55249099	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
EGFR	chr7	55259436	C	T	Heterozygous	1	12	SNP	Novel	4000	---
EGFR	chr7	55259441	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
EGFR	chr7	55259442	G	A	Heterozygous	1.9	102	SNP	Novel	4000	---
EGFR	chr7	55259451	G	A	Heterozygous	1.9	110	SNP	Novel	4000	---
EGFR	chr7	55259456	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
EGFR	chr7	55259458	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
EGFR	chr7	55259464	G	A	Heterozygous	2.4	189	SNP	Novel	3999	---
EGFR	chr7	55259465	G	A	Heterozygous	1.3	30	SNP	Novel	3999	---
EGFR	chr7	55259475	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
EGFR	chr7	55259484	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
EGFR	chr7	55259512	G	A	Heterozygous	1.1	20	SNP	Novel	3999	---
EGFR	chr7	55259532	G	A	Heterozygous	1.2	30	SNP	Novel	4000	---
EGFR	chr7	55259534	G	A	Heterozygous	1.2	28	SNP	Novel	4000	---
EGFR	chr7	55259535	G	A	Heterozygous	1.5	58	SNP	Novel	4000	---
MET	chr7	116313490	C	T	Heterozygous	2.4	64	SNP	Novel	1145	---
MET	chr7	116313518	G	A	Heterozygous	3.9	174	SNP	Novel	1142	---
MET	chr7	116313544	C	T	Heterozygous	2.8	90	SNP	Novel	1138	---
MET	chr7	116339342	C	T	Heterozygous	2.8	277	SNP	Novel	4000	---
MET	chr7	116339345	C	T	Heterozygous	2.6	237	SNP	Novel	3999	---
MET	chr7	116339346	A	G	Heterozygous	1.4	39	SNP	Novel	3997	---
MET	chr7	116339379	G	A	Heterozygous	1	12	SNP	Novel	3992	---
MET	chr7	116339395	C	T	Heterozygous	1	12	SNP	Novel	3999	---
MET	chr7	116339407	T	C	Heterozygous	1.4	41	SNP	Novel	4000	---
MET	chr7	116339415	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
MET	chr7	116339416	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MET	chr7	116339422	G	A	Heterozygous	1.5	56	SNP	Novel	3982	---
MET	chr7	116340214	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MET	chr7	116340228	G	A	Heterozygous	1.6	74	SNP	Novel	4000	---

MET	chr7	116340266	G	A	Heterozygous	1.4	47	SNP	Novel	3998	---
MET	chr7	116340272	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
MET	chr7	116340275	C	T	Heterozygous	1.1	18	SNP	Novel	3955	---
MET	chr7	116340285	G	A	Heterozygous	1.3	32	SNP	Novel	3999	---
MET	chr7	116340287	G	A	Heterozygous	1.8	99	SNP	Novel	4000	---
MET	chr7	116398765	C	T	Heterozygous	1.8	87	SNP	Novel	4000	---
MET	chr7	116403150	C	T	Heterozygous	1.6	28	SNP	Novel	1249	---
MET	chr7	116403196	C	T	Heterozygous	2.5	79	SNP	Novel	1243	---
MET	chr7	116403213	G	A	Heterozygous	3.4	145	SNP	Novel	1253	---
MET	chr7	116403222	C	T	Heterozygous	3.1	116	SNP	Novel	1240	---
MET	chr7	116403239	A	G	Heterozygous	1.6	27	SNP	Novel	1244	---
MET	chr7	116411961	G	A	Heterozygous	2.8	131	SNP	Novel	1029	---
MET	chr7	116411978	G	A	Heterozygous	2.9	85	SNP	Novel	1027	---
MET	chr7	116412005	C	T	Heterozygous	3.2	137	SNP	Novel	1017	---
MET	chr7	116412010	G	A	Heterozygous	4.4	190	SNP	Novel	1023	---
MET	chr7	116412016	G	A	Heterozygous	2.9	90	SNP	Novel	1023	---
MET	chr7	116412019	G	A	Heterozygous	3.4	120	SNP	Novel	1023	---
MET	chr7	116412032	C	A	Heterozygous	3.3	108	SNP	Novel	1007	---
MET	chr7	116412040	G	A	Heterozygous	3.5	121	SNP	Novel	994	---
MET	chr7	116412056	T	C	Heterozygous	1.7	25	SNP	Novel	969	---
MET	chr7	116415111	G	T	Heterozygous	2.5	80	SNP	Novel	1329	---
MET	chr7	116415116	G	A	Heterozygous	4.1	219	SNP	Novel	1358	---
MET	chr7	116415123	C	T	Heterozygous	2.6	85	SNP	Novel	1359	---
MET	chr7	116415132	C	T	Heterozygous	3.4	151	SNP	Novel	1363	---
MET	chr7	116415155	C	T	Heterozygous	2.4	77	SNP	Novel	1362	---
MET	chr7	116415198	C	T	Heterozygous	1.6	31	SNP	Novel	1342	---
MET	chr7	116417440	C	T	Heterozygous	2.3	112	SNP	Novel	2261	---
MET	chr7	116417468	G	A	Heterozygous	2.1	86	SNP	Novel	2300	---
MET	chr7	116417470	C	T	Heterozygous	1.3	22	SNP	Novel	2245	---
MET	chr7	116417474	G	A	Heterozygous	1.7	54	SNP	Novel	2298	---
MET	chr7	116417484	G	A	Heterozygous	1.8	62	SNP	Novel	2289	---
MET	chr7	116417489	C	T	Heterozygous	1.7	48	SNP	Novel	2290	---
MET	chr7	116417501	C	T	Heterozygous	2.2	101	SNP	Novel	2281	---
MET	chr7	116417506	C	T	Heterozygous	1.3	24	SNP	Novel	2281	---
MET	chr7	116417515	C	T	Heterozygous	1.6	42	SNP	Novel	2277	---
MET	chr7	116417524	G	A	Heterozygous	1.8	63	SNP	Novel	2276	---
MET	chr7	116417531	G	A	Heterozygous	1.4	27	SNP	Novel	2274	---
MET	chr7	116423412	G	A	Heterozygous	1	12	SNP	Novel	3999	---

MET	chr7	116423432	G	A	Heterozygous	1.4	44	SNP	Novel	3995	---
MET	chr7	116423434	G	A	Heterozygous	1.2	23	SNP	Novel	3999	---
MET	chr7	116423450	G	A	Heterozygous	1.6	68	SNP	Novel	3999	---
MET	chr7	116423457	G	A	Heterozygous	1.1	14	SNP	Novel	3997	---
MET	chr7	116423460	G	A	Heterozygous	1.1	20	SNP	Novel	3973	---
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MET	chr7	116423476	G	A	Heterozygous	1.1	20	SNP	Novel	3998	---
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MET	chr7	116434528	G	A	Heterozygous	2.5	94	SNP	Novel	1605	---
MET	chr7	116434541	G	A	Heterozygous	3.6	202	SNP	Novel	1592	---
MET	chr7	116434561	G	A	Heterozygous	2.1	67	SNP	Novel	1585	---
SMO	chr7	128845507	C	T	Heterozygous	1.7	67	SNP	Novel	3473	---
SMO	chr7	128845510	C	T	Heterozygous	2.1	133	SNP	Novel	3496	---
SMO	chr7	128845550	G	A	Heterozygous	1.5	49	SNP	Novel	3559	---
SMO	chr7	128845552	C	T	Heterozygous	3.1	328	SNP	Novel	3588	---
SMO	chr7	128845553	C	T	Heterozygous	1.6	67	SNP	Novel	3591	---
SMO	chr7	128845569	C	T	Heterozygous	2.7	1376	SNP	Novel	3583	---
SMO	chr7	128845582	C	T	Heterozygous	3	301	SNP	Novel	3724	---
SMO	chr7	128845593	C	T	Heterozygous	1.5	53	SNP	Novel	3795	---
SMO	chr7	128845614	G	A	Heterozygous	1.4	45	SNP	Novel	3702	---
SMO	chr7	128846356	C	T	Heterozygous	1.8	95	SNP	Novel	4000	---
SMO	chr7	128849117	C	T	Heterozygous	1.5	499	SNP	Novel	3992	---
SMO	chr7	128849121	C	T	Heterozygous	3.9	562	SNP	Novel	3999	---
SMO	chr7	128849124	C	T	Heterozygous	1.3	37	SNP	Novel	3999	---
SMO	chr7	128849127	C	T	Heterozygous	1.6	61	SNP	Novel	3999	---
SMO	chr7	128849138	G	A	Heterozygous	1.6	196	SNP	Novel	3976	---
SMO	chr7	128849164	C	T	Heterozygous	1.9	111	SNP	Novel	3993	---
SMO	chr7	128849176	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
SMO	chr7	128849178	G	A	Heterozygous	1.4	47	SNP	Novel	3982	---
SMO	chr7	128849182	C	T	Heterozygous	1.3	30	SNP	Novel	3999	---
SMO	chr7	128849191	C	T	Heterozygous	1.4	39	SNP	Novel	3997	---
SMO	chr7	128849201	C	T	Heterozygous	1.1	16	SNP	Novel	3997	---
SMO	chr7	128849230	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
SMO	chr7	128850280	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---

SMO	chr7	128850291	G	A	Heterozygous	1	12	SNP	Novel	4000	---
SMO	chr7	128850297	C	T	Heterozygous	1.8	95	SNP	Novel	3978	---
SMO	chr7	128850309	C	T	Heterozygous	1.1	18	SNP	Novel	3998	---
SMO	chr7	128850322	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
SMO	chr7	128850330	C	T	Heterozygous	1.1	18	SNP	Novel	3999	---
SMO	chr7	128850335	G	A	Heterozygous	1	12	SNP	Novel	3999	---
SMO	chr7	128850345	C	T	Heterozygous	1.4	50	SNP	Novel	4000	---
BRAF	chr7	140434394	G	A	Heterozygous	2.1	129	SNP	Novel	3598	---
BRAF	chr7	140434408	G	A	Heterozygous	1.2	22	SNP	Novel	3985	---
BRAF	chr7	140434423	C	T	Heterozygous	2.7	325	SNP	Novel	3970	---
BRAF	chr7	140434458	G	A	Heterozygous	1.7	74	SNP	Novel	3999	---
BRAF	chr7	140453114	G	A	Heterozygous	3	117	SNP	Novel	1289	---
BRAF	chr7	140453124	C	T	Heterozygous	1.9	45	SNP	Novel	1291	---
BRAF	chr7	140453143	C	T	Heterozygous	1.5	23	SNP	Novel	1291	---
BRAF	chr7	140453173	G	A	Heterozygous	2.3	63	SNP	Novel	1282	---
BRAF	chr7	140453182	G	A	Heterozygous	2	46	SNP	Novel	1277	---
BRAF	chr7	140453219	C	T	Heterozygous	1.5	22	SNP	Novel	1234	---
BRAF	chr7	140476661	C	T	Heterozygous	1.4	18	SNP	Novel	1248	---
BRAF	chr7	140476667	G	A	Heterozygous	5.1	299	SNP	Novel	1253	---
BRAF	chr7	140476703	G	A	Heterozygous	2.3	65	SNP	Novel	1251	---
BRAF	chr7	140476704	G	A	Heterozygous	2.7	91	SNP	Novel	1250	---
BRAF	chr7	140476722	G	A	Heterozygous	1.9	42	SNP	Novel	1259	---
BRAF	chr7	140476725	C	T	Heterozygous	3.3	131	SNP	Novel	1258	---
BRAF	chr7	140476867	G	A	Heterozygous	1.4	47	SNP	Novel	3984	---
BRAF	chr7	140476880	C	T	Heterozygous	1	13	SNP	Novel	4000	---
BRAF	chr7	140476883	G	A	Heterozygous	1.4	49	SNP	Novel	3969	---
BRAF	chr7	140476925	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
BRAF	chr7	140476936	G	A	Heterozygous	65.5	44013	SNP	Novel	3995	---
BRAF	chr7	140481388	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
BRAF	chr7	140481399	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
BRAF	chr7	140481403	C	T	Heterozygous	0.8	46	SNP	Hotspot	3987	COSM457
BRAF	chr7	140481429	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
BRAF	chr7	140481430	C	T	Heterozygous	1.5	50	SNP	Novel	3999	---
BRAF	chr7	140481431	C	T	Heterozygous	1.7	81	SNP	Novel	4000	---
BRAF	chr7	140481440	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
BRAF	chr7	140481443	C	T	Heterozygous	1.5	56	SNP	Novel	3976	---
BRAF	chr7	140482816	C	T	Heterozygous	1.4	25	SNP	Novel	1769	---
BRAF	chr7	140482821	C	T	Heterozygous	1.5	31	SNP	Novel	1772	---

BRAF	chr7	140482825	C	T	Heterozygous	4.3	306	SNP	Novel	1726	---
BRAF	chr7	140482826	G	A	Heterozygous	2.3	83	SNP	Novel	1774	---
BRAF	chr7	140482831	C	T	Heterozygous	2.1	69	SNP	Novel	1775	---
BRAF	chr7	140482843	G	A	Heterozygous	2.1	73	SNP	Novel	1781	---
BRAF	chr7	140482846	G	A	Heterozygous	2.2	82	SNP	Novel	1781	---
BRAF	chr7	140482874	C	T	Heterozygous	1.4	22	SNP	Novel	1773	---
BRAF	chr7	140482877	G	A	Heterozygous	2.9	140	SNP	Novel	1771	---
BRAF	chr7	140494213	G	A	Heterozygous	1.8	92	SNP	Novel	4000	---
BRAF	chr7	140494253	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
BRAF	chr7	140494267	C	T	Heterozygous	1.7	285	SNP	Novel	3953	---
BRAF	chr7	140494270	G	A	Heterozygous	1.7	84	SNP	Novel	3999	---
BRAF	chr7	140494278	G	A	Heterozygous	1.2	25	SNP	Novel	3999	---
BRAF	chr7	140500230	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
BRAF	chr7	140500266	G	A	Heterozygous	1	10	SNP	Novel	4000	---
BRAF	chr7	140500289	G	A	Heterozygous	1.1	15	SNP	Novel	3999	---
BRAF	chr7	140501253	A	G	Heterozygous	1.8	98	SNP	Novel	4000	---
BRAF	chr7	140507798	C	T	Heterozygous	1	13	SNP	Novel	3999	---
BRAF	chr7	140507818	G	A	Heterozygous	1.6	63	SNP	Novel	3998	---
BRAF	chr7	140507846	C	T	Heterozygous	1.8	144	SNP	Novel	3995	---
BRAF	chr7	140507863	C	T	Heterozygous	1.3	37	SNP	Novel	3999	---
JAK2	chr9	5073730	G	A	Heterozygous	4.6	138	SNP	Novel	673	---
JAK2	chr9	5073739	C	T	Heterozygous	4.7	145	SNP	Novel	675	---
GNAQ	chr9	80409380	T	C	Heterozygous	2	42	SNP	Novel	1104	---
GNAQ	chr9	80409396	C	T	Heterozygous	1.5	23	SNP	Novel	1105	---
GNAQ	chr9	80409423	C	T	Heterozygous	2.2	51	SNP	Novel	1102	---
GNAQ	chr9	80409426	C	T	Heterozygous	5	254	SNP	Novel	1100	---
GNAQ	chr9	80409447	C	T	Heterozygous	3.6	136	SNP	Novel	1097	---
GNAQ	chr9	80409484	C	T	Heterozygous	2.9	89	SNP	Novel	1080	---
GNAQ	chr9	80409488	T	G	Heterozygous	1.4	11	SNP	Hotspot	1078	COSM28758
GNAQ	chr9	80412471	G	A	Heterozygous	1.1	16	SNP	Novel	3996	---
GNAQ	chr9	80412487	G	A	Heterozygous	1.6	65	SNP	Novel	3992	---
GNAQ	chr9	80412499	C	T	Heterozygous	2.2	152	SNP	Novel	3995	---
RET	chr10	43609080	C	T	Heterozygous	2.1	139	SNP	Novel	4000	---
RET	chr10	43609087	G	A	Heterozygous	1.9	116	SNP	Novel	3999	---
RET	chr10	43609105	G	A	Heterozygous	1.6	61	SNP	Novel	3999	---
RET	chr10	43609110	C	T	Heterozygous	1.1	20	SNP	Novel	3985	---
RET	chr10	43609114	G	A	Heterozygous	1.6	64	SNP	Novel	3999	---
RET	chr10	43609123	G	A	Heterozygous	2.1	139	SNP	Novel	4000	---

RET	chr10	43609136	C	T	Heterozygous	2.2	165	SNP	Novel	4000	---
RET	chr10	43609148	C	T	Heterozygous	1.6	493	SNP	Novel	3900	---
RET	chr10	43609158	C	T	Heterozygous	1.3	30	SNP	Novel	3984	---
RET	chr10	43609165	C	T	Heterozygous	2.3	634	SNP	Novel	3985	---
RET	chr10	43609181	G	A	Heterozygous	1	12	SNP	Novel	4000	---
RET	chr10	43609182	C	T	Heterozygous	1	12	SNP	Novel	4000	---
RET	chr10	43609875	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---
RET	chr10	43609884	C	T	Heterozygous	1.3	32	SNP	Novel	3999	---
RET	chr10	43609885	G	A	Heterozygous	1	13	SNP	Novel	3999	---
RET	chr10	43609895	C	T	Heterozygous	1.8	91	SNP	Novel	3997	---
RET	chr10	43609912	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
RET	chr10	43609922	C	T	Heterozygous	1.3	172	SNP	Novel	3946	---
RET	chr10	43609930	C	T	Heterozygous	2.9	293	SNP	Novel	4000	---
RET	chr10	43609938	C	T	Heterozygous	1.3	36	SNP	Novel	3999	---
RET	chr10	43609941	C	T	Heterozygous	1.3	31	SNP	Novel	3973	---
RET	chr10	43609953	C	T	Heterozygous	1.4	44	SNP	Novel	3999	---
RET	chr10	43609955	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---
RET	chr10	43609962	C	T	Heterozygous	2.4	189	SNP	Novel	4000	---
RET	chr10	43609967	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
RET	chr10	43609999	C	T	Heterozygous	1	12	SNP	Novel	4000	---
RET	chr10	43610009	C	T	Heterozygous	1.1	19	SNP	Novel	4000	---
RET	chr10	43613880	G	A	Heterozygous	1.6	61	SNP	Novel	3996	---
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RET	chr10	43615574	G	A	Heterozygous	4.5	278	SNP	Novel	1459	---
RET	chr10	43615593	C	T	Heterozygous	4.7	284	SNP	Novel	1418	---
RET	chr10	43615595	G	A	Heterozygous	2.7	107	SNP	Novel	1460	---
RET	chr10	43615606	G	A	Heterozygous	4.8	309	SNP	Novel	1458	---
RET	chr10	43615647	G	A	Heterozygous	2.4	77	SNP	Novel	1440	---
RET	chr10	43615664	G	A	Heterozygous	5.1	338	SNP	Novel	1388	---
RET	chr10	43617342	C	T	Heterozygous	1.3	14	SNP	Novel	1108	---
RET	chr10	43617383	C	T	Heterozygous	1.4	18	SNP	Novel	1089	---
RET	chr10	43617388	C	T	Heterozygous	3.8	154	SNP	Novel	1066	---
FGFR2	chr10	123247509	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
FGFR2	chr10	123247520	G	A	Heterozygous	1.7	84	SNP	Novel	3962	---
FGFR2	chr10	123247545	C	T	Heterozygous	1.9	110	SNP	Novel	4000	---
FGFR2	chr10	123247549	C	T	Heterozygous	1.9	107	SNP	Novel	4000	---
FGFR2	chr10	123247551	A	G	Heterozygous	1.1	16	SNP	Novel	4000	---
FGFR2	chr10	123247561	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---

FGFR2	chr10	123247567	T	C	Heterozygous	1.3	35	SNP	Novel	3980	---
FGFR2	chr10	123257983	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
FGFR2	chr10	123258006	C	T	Heterozygous	1.9	118	SNP	Novel	4000	---
FGFR2	chr10	123258020	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
FGFR2	chr10	123274725	C	T	Heterozygous	2.1	101	SNP	Novel	2709	---
FGFR2	chr10	123274730	G	A	Heterozygous	1.4	36	SNP	Novel	2710	---
FGFR2	chr10	123274763	G	A	Heterozygous	2.1	97	SNP	Novel	2714	---
FGFR2	chr10	123274767	C	T	Heterozygous	2.1	97	SNP	Novel	2690	---
FGFR2	chr10	123274792	G	A	Heterozygous	2.1	101	SNP	Novel	2716	---
FGFR2	chr10	123274806	G	A	Heterozygous	1.3	26	SNP	Novel	2716	---
FGFR2	chr10	123274807	C	T	Heterozygous	1.4	36	SNP	Novel	2716	---
FGFR2	chr10	123276879	A	G	Heterozygous	1.1	20	SNP	Novel	3678	---
FGFR2	chr10	123276885	C	T	Heterozygous	3.2	355	SNP	Novel	3682	---
FGFR2	chr10	123276902	C	T	Heterozygous	1.9	99	SNP	Novel	3687	---
FGFR2	chr10	123276911	C	A	Heterozygous	2.4	192	SNP	Novel	3687	---
FGFR2	chr10	123276912	C	T	Heterozygous	2.3	172	SNP	Novel	3688	---
FGFR2	chr10	123276919	G	A	Heterozygous	2.4	184	SNP	Novel	3665	---
FGFR2	chr10	123276950	C	T	Heterozygous	1.8	92	SNP	Novel	3664	---
FGFR2	chr10	123276954	G	A	Heterozygous	1.1	16	SNP	Novel	3663	---
FGFR2	chr10	123276955	T	C	Heterozygous	1.1	15	SNP	Novel	3664	---
FGFR2	chr10	123276960	G	A	Heterozygous	3.3	371	SNP	Novel	3635	---
FGFR2	chr10	123276970	C	T	Heterozygous	2.6	213	SNP	Novel	3606	---
FGFR2	chr10	123276974	C	T	Heterozygous	2.7	230	SNP	Novel	3595	---
FGFR2	chr10	123276975	G	A	Heterozygous	1.9	103	SNP	Novel	3594	---
FGFR2	chr10	123279615	C	T	Heterozygous	1	10	SNP	Novel	3994	---
FGFR2	chr10	123279622	G	A	Heterozygous	1.3	37	SNP	Novel	3996	---
FGFR2	chr10	123279634	G	A	Heterozygous	1.8	92	SNP	Novel	3994	---
FGFR2	chr10	123279641	G	A	Heterozygous	4.1	617	SNP	Novel	3955	---
FGFR2	chr10	123279643	C	T	Heterozygous	1.1	18	SNP	Novel	3992	---
FGFR2	chr10	123279645	G	A	Heterozygous	1.6	71	SNP	Novel	3993	---
FGFR2	chr10	123279665	G	A	Heterozygous	1.6	191	SNP	Novel	3962	---
FGFR2	chr10	123279669	G	A	Heterozygous	1.6	61	SNP	Novel	3994	---
FGFR2	chr10	123279672	G	A	Heterozygous	1.2	27	SNP	Novel	3996	---
FGFR2	chr10	123279681	G	A	Heterozygous	2	127	SNP	Novel	3992	---
FGFR2	chr10	123279697	G	A	Heterozygous	2.2	158	SNP	Novel	3969	---
FGFR2	chr10	123279706	G	A	Heterozygous	1.7	79	SNP	Novel	3996	---
FGFR2	chr10	123279709	G	A	Heterozygous	1.5	52	SNP	Novel	3996	---
FGFR2	chr10	123284064	CC	TT	Heterozygous	1.1	18	MNP	Novel	3657	---

FGFR2	chr10	123284079	C	T	Heterozygous	1.4	40	SNP	Novel	3664	---
FGFR2	chr10	123284083	G	A	Heterozygous	1.4	41	SNP	Novel	3659	---
FGFR2	chr10	123284092	C	T	Heterozygous	1.2	26	SNP	Novel	3649	---
FGFR2	chr10	123284096	C	T	Heterozygous	1.3	33	SNP	Novel	3649	---
FGFR2	chr10	123284107	G	A	Heterozygous	1.4	44	SNP	Novel	3627	---
FGFR2	chr10	123284121	C	T	Heterozygous	1.5	50	SNP	Novel	3550	---
FGFR2	chr10	123284123	C	T	Heterozygous	3	292	SNP	Novel	3593	---
FGFR2	chr10	123284125	G	A	Heterozygous	1.3	28	SNP	Novel	3588	---
FGFR2	chr10	123284130	C	T	Heterozygous	1.5	48	SNP	Novel	3586	---
FGFR2	chr10	123284151	G	A	Heterozygous	1.1	18	SNP	Novel	3567	---
FGFR2	chr10	123284154	C	T	Heterozygous	1	12	SNP	Novel	3564	---
FGFR2	chr10	123284166	G	A	Heterozygous	1.8	86	SNP	Novel	3549	---
FGFR2	chr10	123284172	G	A	Heterozygous	1	13	SNP	Novel	3538	---
FGFR2	chr10	123306053	C	T	Heterozygous	1	10	SNP	Novel	3979	---
FGFR2	chr10	123306084	C	T	Heterozygous	2.2	156	SNP	Novel	3999	---
FGFR2	chr10	123312164	G	A	Heterozygous	1.9	57	SNP	Novel	1761	---
FGFR2	chr10	123312173	C	T	Heterozygous	1.2	16	SNP	Novel	1816	---
FGFR2	chr10	123312176	G	A	Heterozygous	1.2	16	SNP	Novel	1808	---
FGFR2	chr10	123312209	C	T	Heterozygous	2.1	94	SNP	Novel	1870	---
FGFR2	chr10	123312227	C	T	Heterozygous	2	67	SNP	Novel	1968	---
FGFR2	chr10	123312228	C	T	Heterozygous	2.4	103	SNP	Novel	1966	---
FGFR2	chr10	123312230	C	T	Heterozygous	2.5	117	SNP	Novel	1966	---
FGFR2	chr10	123312233	C	T	Heterozygous	2.3	98	SNP	Novel	1966	---
FGFR2	chr10	123312234	T	C	Heterozygous	1.1	13	SNP	Novel	1966	---
FGFR2	chr10	123312238	C	T	Heterozygous	2.8	150	SNP	Novel	1967	---
FGFR2	chr10	123312241	C	T	Heterozygous	2.2	85	SNP	Novel	1961	---
FGFR2	chr10	123350032	G	A	Heterozygous	2.4	42	SNP	Novel	672	---
FGFR2	chr10	123350034	C	T	Heterozygous	2.4	42	SNP	Novel	677	---
FGFR2	chr10	123350035	C	T	Heterozygous	3.1	70	SNP	Novel	670	---
FGFR2	chr10	123350040	G	A	Heterozygous	3.8	101	SNP	Novel	679	---
FGFR2	chr10	123350048	C	T	Heterozygous	3.8	101	SNP	Novel	683	---
FGFR2	chr10	123350088	G	A	Heterozygous	2.6	51	SNP	Novel	685	---
FGFR2	chr10	123350104	C	T	Heterozygous	2.3	41	SNP	Novel	685	---
FGFR2	chr10	123350111	G	A	Heterozygous	4.5	137	SNP	Novel	684	---
FGFR2	chr10	123350113	G	A	Heterozygous	4.2	122	SNP	Novel	683	---
FGFR2	chr10	123350124	C	T	Heterozygous	2.6	50	SNP	Novel	651	---
FGFR2	chr10	123350126	C	T	Heterozygous	2.6	52	SNP	Novel	680	---
FGFR2	chr10	123354426	G	A	Heterozygous	2.1	138	SNP	Novel	3999	---

HRAS	chr11	533813	C	T	Heterozygous	1	12	SNP	Novel	4000	---
HRAS	chr11	533817	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
HRAS	chr11	533825	G	A	Heterozygous	1.2	27	SNP	Novel	3999	---
HRAS	chr11	533828	C	T	Heterozygous	1.9	118	SNP	Novel	4000	---
HRAS	chr11	533831	C	T	Heterozygous	2.1	356	SNP	Novel	3975	---
HRAS	chr11	533843	G	A	Heterozygous	1.3	32	SNP	Novel	4000	---
HRAS	chr11	533851	C	T	Heterozygous	2.7	261	SNP	Novel	3999	---
HRAS	chr11	533853	C	T	Heterozygous	1.4	45	SNP	Novel	3985	---
HRAS	chr11	533867	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
HRAS	chr11	533870	C	T	Heterozygous	2.3	179	SNP	Novel	4000	---
HRAS	chr11	533887	C	T	Heterozygous	2.4	194	SNP	Novel	4000	---
HRAS	chr11	533897	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
HRAS	chr11	533904	C	T	Heterozygous	2.3	179	SNP	Novel	4000	---
HRAS	chr11	533911	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
HRAS	chr11	533921	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---
HRAS	chr11	534286	C	T	Heterozygous	1.1	15	SNP	Hotspot	3997	COSM487
HRAS	chr11	534316	C	T	Heterozygous	1.1	16	SNP	Novel	3996	---
HRAS	chr11	534323	C	T	Heterozygous	1.3	29	SNP	Novel	3995	---
HRAS	chr11	534324	G	A	Heterozygous	1.5	52	SNP	Novel	3997	---
HRAS	chr11	534332	G	A	Heterozygous	0.9	47	SNP	Novel	3974	---
KRAS	chr12	25364766	G	A	Heterozygous	1.6	29	SNP	Novel	1327	---
KRAS	chr12	25364770	G	A	Heterozygous	1.5	27	SNP	Novel	1355	---
KRAS	chr12	25364774	C	T	Heterozygous	2.6	88	SNP	Novel	1356	---
KRAS	chr12	25364775	C	T	Heterozygous	2.6	88	SNP	Novel	1354	---
KRAS	chr12	25364782	G	A	Heterozygous	1.2	13	SNP	Novel	1358	---
KRAS	chr12	25364800	C	T	Heterozygous	2	53	SNP	Novel	1367	---
KRAS	chr12	25364805	G	A	Heterozygous	2.7	98	SNP	Novel	1359	---
KRAS	chr12	25364815	C	T	Heterozygous	1.2	15	SNP	Novel	1369	---
KRAS	chr12	25364817	C	T	Heterozygous	2	53	SNP	Novel	1369	---
KRAS	chr12	25364829	C	T	Heterozygous	1.2	15	SNP	Novel	1368	---
KRAS	chr12	25364838	C	T	Heterozygous	2.4	76	SNP	Novel	1344	---
KRAS	chr12	25364861	C	T	Heterozygous	1.9	47	SNP	Novel	1337	---
KRAS	chr12	25378552	C	T	Heterozygous	1.9	40	SNP	Novel	1192	---
KRAS	chr12	25378557	C	T	Heterozygous	1.9	43	SNP	Novel	1196	---
KRAS	chr12	25378571	C	T	Heterozygous	2.3	59	SNP	Novel	1199	---
KRAS	chr12	25378610	C	T	Heterozygous	2.9	101	SNP	Novel	1204	---
KRAS	chr12	25378630	C	T	Heterozygous	2.1	50	SNP	Novel	1202	---
KRAS	chr12	25378645	C	T	Heterozygous	2.4	68	SNP	Novel	1196	---

KRAS	chr12	25378655	C	T	Heterozygous	1.9	42	SNP	Novel	1191	---
KRAS	chr12	25380262	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
KRAS	chr12	25380266	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
KRAS	chr12	25380269	C	T	Heterozygous	1.3	30	SNP	Novel	3999	---
KRAS	chr12	25380274	C	T	Heterozygous	1.2	27	SNP	Novel	3998	---
KRAS	chr12	25380279	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
KRAS	chr12	25380289	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
KRAS	chr12	25380290	G	A	Heterozygous	1.9	106	SNP	Novel	3998	---
KRAS	chr12	25380308	G	A	Heterozygous	1	12	SNP	Novel	3998	---
KRAS	chr12	25380315	C	T	Heterozygous	2	118	SNP	Novel	3994	---
KRAS	chr12	25380325	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---
KRAS	chr12	25380346	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
KRAS	chr12	25380351	G	A	Heterozygous	1.3	39	SNP	Novel	3996	---
KRAS	chr12	25380358	G	A	Heterozygous	1.6	60	SNP	Novel	3966	---
KRAS	chr12	25386063	C	A	Heterozygous	95.6	11733	SNP	Novel	596	---
KRAS	chr12	25386060	CCAC	TCAA	Heterozygous	4.4	11733	MNP	Novel	596	---
KRAS	chr12	25386074	C	A	Heterozygous	1.5	16	SNP	Novel	615	---
KRAS	chr12	25386080	C	T	Heterozygous	5.4	170	SNP	Novel	631	---
KRAS	chr12	25386102	G	A	Heterozygous	3.8	92	SNP	Novel	639	---
KRAS	chr12	25386110	C	T	Heterozygous	3.4	75	SNP	Novel	625	---
KRAS	chr12	25386119	C	T	Heterozygous	3.9	95	SNP	Novel	621	---
KRAS	chr12	25386929	G	A	Heterozygous	2.2	79	SNP	Novel	1836	---
KRAS	chr12	25386945	G	A	Heterozygous	1.4	25	SNP	Novel	1855	---
KRAS	chr12	25386982	C	T	Heterozygous	1.4	28	SNP	Novel	1865	---
KRAS	chr12	25386994	G	A	Heterozygous	2	68	SNP	Novel	1865	---
KRAS	chr12	25387013	C	T	Heterozygous	1.3	23	SNP	Novel	1861	---
KRAS	chr12	25387018	G	A	Heterozygous	1.1	13	SNP	Novel	1859	---
KRAS	chr12	25387223	G	A	Heterozygous	3.8	122	SNP	Novel	844	---
KRAS	chr12	25387226	G	A	Heterozygous	4.1	143	SNP	Novel	844	---
KRAS	chr12	25387270	G	A	Heterozygous	1.5	21	SNP	Novel	781	---
KRAS	chr12	25389168	C	T	Heterozygous	1.4	21	SNP	Novel	1251	---
KRAS	chr12	25389193	G	A	Heterozygous	2	47	SNP	Novel	1249	---
KRAS	chr12	25389222	G	A	Heterozygous	3.1	120	SNP	Novel	1251	---
KRAS	chr12	25391146	G	A	Heterozygous	1.7	33	SNP	Novel	1373	---
KRAS	chr12	25391220	G	A	Heterozygous	1.7	33	SNP	Novel	1383	---
KRAS	chr12	25391232	C	T	Heterozygous	4.1	221	SNP	Novel	1377	---
KRAS	chr12	25391235	G	A	Heterozygous	1.2	12	SNP	Novel	1372	---
KRAS	chr12	25391243	G	A	Heterozygous	2.8	103	SNP	Novel	1370	---

KRAS	chr12	25398201	G	A	Heterozygous	2.2	78	SNP	Novel	1705	---
KRAS	chr12	25398241	A	G	Heterozygous	1.6	35	SNP	Novel	1732	---
KRAS	chr12	25398267	C	T	Heterozygous	3.1	164	SNP	Novel	1720	---
KRAS	chr12	25398288	C	T	Heterozygous	3	153	SNP	Novel	1716	---
KRAS	chr12	25398293	A	G	Heterozygous	1.1	12	SNP	Novel	1712	---
KRAS	chr12	25400182	C	T	Heterozygous	2.1	37	SNP	Novel	749	---
KRAS	chr12	25400195	G	A	Heterozygous	3.6	100	SNP	Novel	749	---
KRAS	chr12	25400217	C	T	Heterozygous	3.4	90	SNP	Novel	739	---
KRAS	chr12	25400243	G	A	Heterozygous	3.4	87	SNP	Novel	745	---
ERBB3	chr12	56477605	G	A	Heterozygous	1.2	25	SNP	Novel	3809	---
ERBB3	chr12	56477614	G	A	Heterozygous	1.2	26	SNP	Novel	3809	---
ERBB3	chr12	56477635	G	A	Heterozygous	1.5	365	SNP	Novel	3778	---
ERBB3	chr12	56477642	G	A	Heterozygous	1.5	59	SNP	Novel	3807	---
ERBB3	chr12	56477657	G	A	Heterozygous	1.4	39	SNP	Novel	3812	---
ERBB3	chr12	56477662	C	T	Heterozygous	1.3	32	SNP	Novel	3810	---
ERBB3	chr12	56477669	G	A	Heterozygous	1.1	16	SNP	Novel	3805	---
ERBB3	chr12	56477680	C	T	Heterozygous	1.7	81	SNP	Novel	3792	---
ERBB3	chr12	56477681	C	T	Heterozygous	1.1	18	SNP	Novel	3784	---
ERBB3	chr12	56477684	C	T	Heterozygous	1.1	20	SNP	Novel	3786	---
ERBB3	chr12	56477694	A	T	Homozygous	100	77232	SNP	Novel	3709	---
ERBB3	chr12	56477698	C	T	Heterozygous	1.1	17	SNP	Novel	3628	---
ERBB3	chr12	56478813	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
ERBB3	chr12	56478826	C	T	Heterozygous	1	13	SNP	Novel	3999	---
ERBB3	chr12	56478848	C	T	Heterozygous	1.6	68	SNP	Novel	4000	---
ERBB3	chr12	56478853	C	T	Heterozygous	1	13	SNP	Novel	4000	---
ERBB3	chr12	56478886	G	A	Heterozygous	1.4	45	SNP	Novel	3988	---
ERBB3	chr12	56478898	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
ERBB3	chr12	56481569	C	T	Heterozygous	3.1	232	SNP	Novel	2567	---
ERBB3	chr12	56481573	C	T	Heterozygous	3.3	259	SNP	Novel	2579	---
ERBB3	chr12	56481574	C	T	Heterozygous	2.8	181	SNP	Novel	2578	---
ERBB3	chr12	56481583	C	T	Heterozygous	3	215	SNP	Novel	2572	---
ERBB3	chr12	56481587	A	G	Heterozygous	1.4	32	SNP	Novel	2579	---
ERBB3	chr12	56481600	C	T	Heterozygous	3.6	314	SNP	Novel	2582	---
ERBB3	chr12	56481604	G	A	Heterozygous	3.1	227	SNP	Novel	2580	---
ERBB3	chr12	56481609	A	G	Heterozygous	1.1	15	SNP	Novel	2580	---
ERBB3	chr12	56481616	C	T	Heterozygous	3.3	259	SNP	Novel	2577	---
ERBB3	chr12	56481634	C	T	Heterozygous	6.5	1827	SNP	Novel	2565	---
ERBB3	chr12	56481640	G	A	Heterozygous	3.8	356	SNP	Novel	2614	---

ERBB3	chr12	56481666	G	A	Heterozygous	2.7	297	SNP	Novel	2589	---
ERBB3	chr12	56481676	C	T	Heterozygous	3.8	363	SNP	Novel	2681	---
ERBB3	chr12	56481677	C	T	Heterozygous	3.1	240	SNP	Novel	2681	---
ERBB3	chr12	56481687	C	T	Heterozygous	2.9	210	SNP	Novel	2681	---
ERBB3	chr12	56482313	C	T	Heterozygous	1.6	68	SNP	Novel	3993	---
ERBB3	chr12	56482323	C	T	Heterozygous	1.7	75	SNP	Novel	3999	---
ERBB3	chr12	56482341	G	A	Heterozygous	1.1	78	SNP	Hotspot	4000	COSM941489
ERBB3	chr12	56482360	G	A	Heterozygous	1	10	SNP	Novel	4000	---
ERBB3	chr12	56482362	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
ERBB3	chr12	56482364	C	T	Heterozygous	1.7	81	SNP	Novel	4000	---
ERBB3	chr12	56482372	C	T	Heterozygous	1.3	34	SNP	Novel	3991	---
ERBB3	chr12	56482533	C	T	Heterozygous	5.4	800	SNP	Novel	3139	---
ERBB3	chr12	56482546	G	A	Heterozygous	1.9	90	SNP	Novel	3145	---
ERBB3	chr12	56482550	C	T	Heterozygous	1.6	51	SNP	Novel	3155	---
ERBB3	chr12	56482570	G	C	Heterozygous	2.4	156	SNP	Novel	3158	---
ERBB3	chr12	56482572	G	C	Heterozygous	1.6	60	SNP	Novel	3156	---
ERBB3	chr12	56482577	C	G	Heterozygous	1	13	SNP	Novel	3159	---
ERBB3	chr12	56482578	G	A	Heterozygous	3.5	351	SNP	Novel	3158	---
ERBB3	chr12	56482614	C	T	Heterozygous	2	106	SNP	Novel	3147	---
ERBB3	chr12	56482623	C	T	Heterozygous	1.7	64	SNP	Novel	3149	---
ERBB3	chr12	56482633	C	T	Heterozygous	2.6	187	SNP	Novel	3151	---
ERBB3	chr12	56482641	C	T	Heterozygous	2.3	147	SNP	Novel	3147	---
ERBB3	chr12	56482642	G	A	Heterozygous	2.6	187	SNP	Novel	3145	---
ERBB3	chr12	56482643	G	A	Heterozygous	1.1	16	SNP	Novel	3146	---
ERBB3	chr12	56482647	C	T	Heterozygous	1.5	45	SNP	Novel	3144	---
CDK4	chr12	58142059	G	A	Heterozygous	3.4	113	SNP	Novel	966	---
CDK4	chr12	58142063	C	T	Heterozygous	4	162	SNP	Novel	957	---
CDK4	chr12	58142074	G	A	Heterozygous	1.4	15	SNP	Novel	953	---
CDK4	chr12	58142075	G	A	Heterozygous	2.6	69	SNP	Novel	1005	---
CDK4	chr12	58142078	G	A	Heterozygous	3.4	327	SNP	Novel	1011	---
CDK4	chr12	58142093	G	A	Heterozygous	1.6	25	SNP	Novel	1058	---
CDK4	chr12	58142111	G	A	Heterozygous	3.3	113	SNP	Novel	1076	---
CDK4	chr12	58142116	G	T	Heterozygous	2.3	227	SNP	Novel	1049	---
CDK4	chr12	58142132	G	A	Heterozygous	1.4	19	SNP	Novel	1047	---
CDK4	chr12	58142257	C	T	Heterozygous	2.3	82	SNP	Novel	1641	---
CDK4	chr12	58142283	C	T	Heterozygous	3.8	225	SNP	Novel	1640	---
CDK4	chr12	58142287	C	T	Heterozygous	3.9	238	SNP	Novel	1650	---
CDK4	chr12	58142293	C	T	Heterozygous	2.2	79	SNP	Novel	1689	---

CDK4	chr12	58142302	C	T	Heterozygous	2.2	78	SNP	Novel	1703	---
CDK4	chr12	58142895	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
CDK4	chr12	58142921	C	T	Heterozygous	0.8	88	SNP	Novel	3929	---
CDK4	chr12	58142928	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
CDK4	chr12	58142934	C	T	Heterozygous	1.1	13	SNP	Novel	3944	---
CDK4	chr12	58142956	C	T	Heterozygous	2	132	SNP	Novel	4000	---
CDK4	chr12	58142958	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
CDK4	chr12	58143248	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
CDK4	chr12	58143262	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
CDK4	chr12	58143274	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
CDK4	chr12	58143288	C	T	Heterozygous	1.2	25	SNP	Novel	3999	---
CDK4	chr12	58143292	G	A	Heterozygous	1.8	99	SNP	Novel	4000	---
CDK4	chr12	58143318	C	T	Heterozygous	1	13	SNP	Novel	3998	---
CDK4	chr12	58144394	C	T	Heterozygous	1.2	16	SNP	Novel	2173	---
CDK4	chr12	58144395	G	A	Heterozygous	2.4	118	SNP	Novel	2232	---
CDK4	chr12	58144403	G	A	Heterozygous	3.1	582	SNP	Novel	2215	---
CDK4	chr12	58144417	C	T	Heterozygous	2.4	116	SNP	Novel	2275	---
CDK4	chr12	58144426	G	A	Heterozygous	1.4	29	SNP	Novel	2280	---
CDK4	chr12	58144428	G	A	Heterozygous	1.8	92	SNP	Novel	2251	---
CDK4	chr12	58144453	C	T	Heterozygous	3.9	323	SNP	Novel	2305	---
CDK4	chr12	58144455	C	T	Heterozygous	3.4	253	SNP	Novel	2305	---
CDK4	chr12	58144473	C	T	Heterozygous	2.1	86	SNP	Novel	2299	---
CDK4	chr12	58144486	C	T	Heterozygous	2.3	105	SNP	Novel	2300	---
CDK4	chr12	58144578	C	T	Heterozygous	3.6	695	SNP	Novel	2029	---
CDK4	chr12	58144591	C	T	Heterozygous	3.1	187	SNP	Novel	2071	---
CDK4	chr12	58144600	C	A	Heterozygous	1.1	13	SNP	Novel	2075	---
CDK4	chr12	58144607	C	T	Heterozygous	2.9	163	SNP	Novel	2076	---
CDK4	chr12	58144610	G	A	Heterozygous	1.2	15	SNP	Novel	2077	---
CDK4	chr12	58144633	C	T	Heterozygous	1.4	30	SNP	Novel	2074	---
CDK4	chr12	58144665	C	T	Heterozygous	61.6	20686	SNP	Novel	2072	---
CDK4	chr12	58144669	C	T	Heterozygous	2.8	158	SNP	Novel	2071	---
CDK4	chr12	58144670	A	G	Heterozygous	2.1	82	SNP	Novel	2070	---
CDK4	chr12	58144900	C	T	Heterozygous	1	12	SNP	Novel	4000	---
CDK4	chr12	58144902	C	T	Heterozygous	2.9	312	SNP	Novel	4000	---
CDK4	chr12	58144914	C	T	Heterozygous	1.4	44	SNP	Novel	3997	---
CDK4	chr12	58144924	G	A	Heterozygous	2.1	148	SNP	Novel	3976	---
CDK4	chr12	58144943	C	T	Heterozygous	1.4	43	SNP	Novel	4000	---
CDK4	chr12	58144946	C	T	Heterozygous	1.3	30	SNP	Novel	3979	---

CDK4	chr12	58144959	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
CDK4	chr12	58144960	C	T	Heterozygous	2.7	261	SNP	Novel	4000	---
CDK4	chr12	58144976	C	T	Heterozygous	2.1	152	SNP	Novel	4000	---
CDK4	chr12	58145353	G	A	Heterozygous	2.1	79	SNP	Novel	2378	---
CDK4	chr12	58145357	G	A	Heterozygous	5.1	581	SNP	Novel	2478	---
CDK4	chr12	58145361	C	T	Heterozygous	3.7	325	SNP	Novel	2484	---
CDK4	chr12	58145368	C	T	Heterozygous	2.3	110	SNP	Novel	2382	---
CDK4	chr12	58145370	C	T	Heterozygous	3.4	266	SNP	Novel	2528	---
CDK4	chr12	58145376	C	T	Heterozygous	3.3	274	SNP	Novel	2643	---
CDK4	chr12	58145392	C	T	Heterozygous	1.5	43	SNP	Novel	2669	---
CDK4	chr12	58145411	G	A	Heterozygous	1.4	33	SNP	Novel	2610	---
CDK4	chr12	58145422	G	A	Heterozygous	2.3	762	SNP	Novel	2549	---
CDK4	chr12	58145445	G	A	Heterozygous	1.7	59	SNP	Novel	2524	---
CDK4	chr12	58145449	C	T	Heterozygous	1.9	121	SNP	Novel	2507	---
CDK4	chr12	58145455	C	T	Heterozygous	1.7	52	SNP	Novel	2520	---
CDK4	chr12	58145458	C	T	Heterozygous	1.8	63	SNP	Novel	2516	---
CDK4	chr12	58145474	C	T	Heterozygous	2.4	124	SNP	Novel	2500	---
CDK4	chr12	58145476	C	T	Heterozygous	2	79	SNP	Novel	2499	---
CDK4	chr12	58145710	G	A	Heterozygous	1.1	14	SNP	Novel	3062	---
CDK4	chr12	58145714	C	T	Heterozygous	1.6	54	SNP	Novel	3071	---
CDK4	chr12	58145719	C	T	Heterozygous	1.5	47	SNP	Novel	3081	---
CDK4	chr12	58145724	G	A	Heterozygous	1.4	33	SNP	Novel	3007	---
CDK4	chr12	58145729	C	T	Heterozygous	2.7	197	SNP	Novel	3130	---
CDK4	chr12	58145731	C	T	Heterozygous	1.6	188	SNP	Novel	3094	---
CDK4	chr12	58145746	C	T	Heterozygous	1.6	58	SNP	Novel	3227	---
CDK4	chr12	58145758	G	A	Heterozygous	3.1	287	SNP	Novel	3235	---
CDK4	chr12	58145777	C	T	Heterozygous	3.1	299	SNP	Novel	3287	---
CDK4	chr12	58145804	C	T	Heterozygous	1.7	66	SNP	Novel	3273	---
CDK4	chr12	58145805	C	T	Heterozygous	4.2	537	SNP	Novel	3270	---
CDK4	chr12	58145812	C	T	Heterozygous	1.5	50	SNP	Novel	3265	---
CDK4	chr12	58145973	G	A	Heterozygous	1	35	SNP	Novel	3977	---
CDK4	chr12	58146003	C	T	Heterozygous	1.1	264	SNP	Novel	3893	---
CDK4	chr12	58146016	C	T	Heterozygous	1.6	63	SNP	Novel	3999	---
AKT1	chr14	105246449	G	A	Heterozygous	2.1	58	SNP	Novel	1599	---
AKT1	chr14	105246457	C	T	Heterozygous	1.4	24	SNP	Novel	1626	---
AKT1	chr14	105246462	G	A	Heterozygous	2.4	87	SNP	Novel	1638	---
AKT1	chr14	105246474	C	A	Heterozygous	2.7	114	SNP	Novel	1685	---
AKT1	chr14	105246479	G	A	Heterozygous	2.7	93	SNP	Novel	1715	---

AKT1	chr14	105246495	G	A	Heterozygous	1.4	27	SNP	Novel	1977	---
AKT1	chr14	105246506	C	T	Heterozygous	2.2	89	SNP	Novel	2039	---
AKT1	chr14	105246526	C	T	Heterozygous	1.7	52	SNP	Novel	2276	---
AKT1	chr14	105246577	G	A	Heterozygous	1.2	20	SNP	Novel	2265	---
MAP2K1	chr15	66727429	C	T	Heterozygous	1	14	SNP	Novel	3916	---
MAP2K1	chr15	66727458	G	A	Heterozygous	1	10	SNP	Novel	3943	---
MAP2K1	chr15	66727466	G	A	Heterozygous	1	14	SNP	Novel	3947	---
MAP2K1	chr15	66727473	G	A	Heterozygous	1.3	143	SNP	Novel	3931	---
MAP2K1	chr15	66727515	C	T	Heterozygous	2.3	184	SNP	Novel	3942	---
MAP2K1	chr15	66727519	G	A	Heterozygous	1	14	SNP	Novel	3960	---
MAP2K1	chr15	66727523	G	A	Heterozygous	1.2	27	SNP	Novel	3956	---
MAP2K1	chr15	66729109	C	T	Heterozygous	2.3	184	SNP	Novel	3999	---
MAP2K1	chr15	66729122	G	A	Heterozygous	1.3	32	SNP	Novel	3999	---
MAP2K1	chr15	66729131	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
MAP2K1	chr15	66729132	G	A	Heterozygous	2.2	156	SNP	Novel	4000	---
MAP2K1	chr15	66729158	C	T	Heterozygous	1.6	74	SNP	Novel	4000	---
MAP2K1	chr15	66729171	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
MAP2K1	chr15	66729183	G	A	Heterozygous	1.4	49	SNP	Novel	4000	---
MAP2K1	chr15	66729194	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
MAP2K1	chr15	66729197	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
MAP2K1	chr15	66729203	C	G	Heterozygous	1	12	SNP	Novel	3997	---
MAP2K1	chr15	66729217	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MAP2K1	chr15	66774087	C	T	Heterozygous	1.3	36	SNP	Novel	3991	---
MAP2K1	chr15	66774105	C	T	Heterozygous	1.2	23	SNP	Novel	4000	---
MAP2K1	chr15	66774113	C	T	Heterozygous	1	10	SNP	Novel	4000	---
MAP2K1	chr15	66774121	C	T	Heterozygous	2.7	255	SNP	Novel	3999	---
MAP2K1	chr15	66774125	C	T	Heterozygous	3.4	427	SNP	Novel	4000	---
MAP2K1	chr15	66774169	C	T	Heterozygous	1	13	SNP	Novel	3999	---
MAP2K1	chr15	66774177	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
IDH2	chr15	90631827	C	T	Heterozygous	2.1	100	SNP	Novel	2743	---
IDH2	chr15	90631838	C	T	Heterozygous	2.4	138	SNP	Hotspot	2749	COSM33733
IDH2	chr15	90631841	C	T	Heterozygous	2.6	169	SNP	Novel	2749	---
IDH2	chr15	90631846	G	A	Heterozygous	4.3	464	SNP	Novel	2764	---
IDH2	chr15	90631851	T	C	Heterozygous	1.2	18	SNP	Novel	2755	---
IDH2	chr15	90631862	C	T	Heterozygous	2.1	106	SNP	Novel	2773	---
IDH2	chr15	90631864	G	A	Heterozygous	1.8	66	SNP	Novel	2773	---
IDH2	chr15	90631866	C	T	Heterozygous	1.3	29	SNP	Novel	2763	---
IDH2	chr15	90631903	C	T	Heterozygous	1.3	30	SNP	Novel	2759	---

IDH2	chr15	90631909	G	A	Heterozygous	1.8	67	SNP	Novel	2763	---
IDH2	chr15	90631922	C	T	Heterozygous	2.3	629	SNP	Novel	2688	---
IDH2	chr15	90631952	C	T	Heterozygous	1	11	SNP	Novel	2708	---
ERBB2	chr17	37868129	G	A	Heterozygous	4	369	SNP	Novel	2524	---
ERBB2	chr17	37868146	C	T	Heterozygous	5.3	624	SNP	Novel	2528	---
ERBB2	chr17	37868173	C	T	Heterozygous	3.5	290	SNP	Novel	2536	---
ERBB2	chr17	37868198	G	A	Heterozygous	1.5	35	SNP	Novel	2550	---
ERBB2	chr17	37868205	G	A	Heterozygous	2.9	199	SNP	Novel	2560	---
ERBB2	chr17	37868216	C	T	Heterozygous	2.2	93	SNP	Novel	2564	---
ERBB2	chr17	37868218	C	T	Heterozygous	2.4	134	SNP	Novel	2565	---
ERBB2	chr17	37868219	G	A	Heterozygous	1.2	19	SNP	Novel	2566	---
ERBB2	chr17	37868221	C	T	Heterozygous	2.5	145	SNP	Novel	2565	---
ERBB2	chr17	37868227	C	T	Heterozygous	2.2	114	SNP	Novel	2547	---
ERBB2	chr17	37868236	C	T	Heterozygous	2.3	115	SNP	Novel	2569	---
ERBB2	chr17	37868240	G	A	Heterozygous	2.1	94	SNP	Novel	2567	---
ERBB2	chr17	37868255	G	A	Heterozygous	2.5	146	SNP	Novel	2533	---
ERBB2	chr17	37872380	G	A	Heterozygous	1.8	82	SNP	Novel	3712	---
ERBB2	chr17	37872381	C	T	Heterozygous	1.3	33	SNP	Novel	3764	---
ERBB2	chr17	37872385	C	T	Heterozygous	2.7	244	SNP	Novel	3752	---
ERBB2	chr17	37872388	C	T	Heterozygous	2.7	240	SNP	Novel	3750	---
ERBB2	chr17	37872389	C	T	Heterozygous	1.5	49	SNP	Novel	3750	---
ERBB2	chr17	37872394	C	T	Heterozygous	1.6	142	SNP	Novel	3683	---
ERBB2	chr17	37872404	C	T	Heterozygous	1.2	30	SNP	Novel	3685	---
ERBB2	chr17	37872411	C	T	Heterozygous	1.1	20	SNP	Novel	3670	---
ERBB2	chr17	37872426	C	T	Heterozygous	4.7	686	SNP	Novel	3493	---
ERBB2	chr17	37872429	C	T	Heterozygous	1.1	16	SNP	Novel	3479	---
ERBB2	chr17	37872440	C	T	Heterozygous	1.7	66	SNP	Novel	2924	---
ERBB2	chr17	37872452	C	T	Heterozygous	1.6	111	SNP	Novel	2879	---
ERBB2	chr17	37872459	C	T	Heterozygous	1.7	62	SNP	Novel	2991	---
ERBB2	chr17	37872460	C	T	Heterozygous	1.8	79	SNP	Novel	2983	---
ERBB2	chr17	37872467	C	T	Heterozygous	1.1	14	SNP	Novel	2979	---
ERBB2	chr17	37872479	C	T	Heterozygous	1.7	56	SNP	Novel	2904	---
ERBB2	chr17	37879623	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
ERBB2	chr17	37879647	C	T	Heterozygous	1.6	61	SNP	Novel	3999	---
ERBB2	chr17	37879658	G	A	Heterozygous	1.7	77	SNP	Hotspot	4000	COSM436498
ERBB2	chr17	37879683	G	A	Heterozygous	1.1	18	SNP	Novel	3991	---
ERBB2	chr17	37879696	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
ERBB2	chr17	37879832	G	A	Heterozygous	1.8	99	SNP	Novel	3997	---

ERBB2	chr17	37879848	C	T	Heterozygous	1	13	SNP	Novel	4000	---
ERBB2	chr17	37879871	G	A	Heterozygous	1.8	98	SNP	Novel	4000	---
ERBB2	chr17	37879872	G	A	Heterozygous	1.1	20	SNP	Novel	3998	---
ERBB2	chr17	37879878	G	A	Heterozygous	1.4	42	SNP	Novel	3998	---
ERBB2	chr17	37879880	G	A	Heterozygous	1	12	SNP	Novel	3999	---
ERBB2	chr17	37879900	G	A	Heterozygous	1.4	42	SNP	Novel	3996	---
ERBB2	chr17	37879905	G	A	Heterozygous	1.1	15	SNP	Novel	3999	---
ERBB2	chr17	37880264	G	A	Heterozygous	3.9	386	SNP	Novel	2721	---
ERBB2	chr17	37880272	C	T	Heterozygous	1.8	247	SNP	Novel	2691	---
ERBB2	chr17	37880274	C	T	Heterozygous	2.1	106	SNP	Novel	2716	---
ERBB2	chr17	37880278	C	T	Heterozygous	2.5	153	SNP	Novel	2719	---
ERBB2	chr17	37880291	G	A	Heterozygous	2.3	128	SNP	Novel	2725	---
ERBB2	chr17	37880294	G	A	Heterozygous	1.4	35	SNP	Novel	2725	---
ERBB2	chr17	37880308	C	T	Heterozygous	1.9	82	SNP	Novel	2703	---
ERBB2	chr17	37880321	C	G	Heterozygous	1.5	43	SNP	Novel	2761	---
ERBB2	chr17	37880328	C	T	Heterozygous	2.4	133	SNP	Novel	2761	---
ERBB2	chr17	37880340	C	T	Heterozygous	1.4	31	SNP	Novel	2699	---
ERBB2	chr17	37880955	C	T	Heterozygous	1.3	34	SNP	Novel	3999	---
ERBB2	chr17	37880959	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
ERBB2	chr17	37880967	C	T	Heterozygous	1.1	14	SNP	Novel	4000	---
ERBB2	chr17	37880974	C	T	Heterozygous	1.7	202	SNP	Novel	3971	---
ERBB2	chr17	37880987	C	T	Heterozygous	1	12	SNP	Novel	4000	---
ERBB2	chr17	37881019	C	T	Heterozygous	2.7	261	SNP	Novel	3999	---
ERBB2	chr17	37881047	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
ERBB2	chr17	37881049	C	T	Heterozygous	1.4	44	SNP	Novel	4000	---
ERBB2	chr17	37881325	G	A	Heterozygous	1	11	SNP	Novel	3923	---
ERBB2	chr17	37881332	G	A	Heterozygous	1.7	76	SNP	Hotspot	3938	COSM14065
ERBB2	chr17	37881335	C	T	Heterozygous	1.3	36	SNP	Novel	3941	---
ERBB2	chr17	37881337	C	T	Heterozygous	1.9	105	SNP	Novel	3941	---
ERBB2	chr17	37881350	G	A	Heterozygous	1.6	73	SNP	Novel	3951	---
ERBB2	chr17	37881359	G	A	Heterozygous	1.8	90	SNP	Novel	3960	---
ERBB2	chr17	37881365	G	A	Heterozygous	1.2	26	SNP	Novel	3962	---
ERBB2	chr17	37881374	C	T	Heterozygous	1.3	30	SNP	Novel	3967	---
ERBB2	chr17	37881401	G	A	Heterozygous	2.6	245	SNP	Novel	3994	---
ERBB2	chr17	37881402	G	A	Heterozygous	1.7	81	SNP	Novel	3995	---
ERBB2	chr17	37881428	G	A	Heterozygous	2.5	229	SNP	Novel	4000	---
ERBB2	chr17	37881434	G	A	Heterozygous	1.5	58	SNP	Novel	4000	---
ERBB2	chr17	37881522	C	T	Heterozygous	1.3	35	SNP	Novel	3955	---

ERBB2	chr17	37881539	C	T	Heterozygous	1.9	322	SNP	Novel	3954	---
ERBB2	chr17	37881541	C	T	Heterozygous	1.6	67	SNP	Novel	4000	---
ERBB2	chr17	37881550	G	A	Heterozygous	1.2	125	SNP	Novel	3987	---
ERBB2	chr17	37881554	G	A	Heterozygous	1.6	64	SNP	Novel	3998	---
ERBB2	chr17	37881568	C	T	Heterozygous	1.2	23	SNP	Novel	3996	---
ERBB2	chr17	37881577	C	T	Heterozygous	1.7	303	SNP	Novel	3788	---
ERBB2	chr17	37881588	C	T	Heterozygous	1.9	108	SNP	Novel	3818	---
ERBB2	chr17	37881591	G	A	Heterozygous	1.6	61	SNP	Novel	3821	---
ERBB2	chr17	37881594	G	A	Heterozygous	2.4	197	SNP	Novel	3807	---
ERBB2	chr17	37881599	C	T	Heterozygous	1.7	74	SNP	Novel	3773	---
ERBB2	chr17	37881606	G	A	Heterozygous	2.5	203	SNP	Novel	3726	---
ERBB2	chr17	37881609	C	T	Heterozygous	2.6	209	SNP	Novel	3592	---
ERBB2	chr17	37882850	C	T	Heterozygous	1.7	79	SNP	Novel	3871	---
ERBB2	chr17	37882851	G	A	Heterozygous	1.5	52	SNP	Novel	3998	---
ERBB2	chr17	37882852	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
ERBB2	chr17	37882859	G	A	Heterozygous	1.1	18	SNP	Novel	3999	---
ERBB2	chr17	37882892	C	T	Heterozygous	1.3	124	SNP	Novel	3960	---
ERBB2	chr17	37882895	C	T	Heterozygous	1.4	47	SNP	Novel	3998	---
ERBB2	chr17	37882901	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---
ERBB2	chr17	37882910	C	T	Heterozygous	1.2	29	SNP	Novel	3987	---
ERBB2	chr17	37882921	C	T	Heterozygous	0.9	52	SNP	Novel	3956	---
ERBB2	chr17	37882935	C	T	Heterozygous	1.4	50	SNP	Novel	4000	---
ERBB2	chr17	37882936	C	T	Heterozygous	1.3	34	SNP	Novel	4000	---
ERBB2	chr17	37883141	G	A	Heterozygous	1.3	152	SNP	Novel	2772	---
ERBB2	chr17	37883148	G	A	Heterozygous	1.3	23	SNP	Novel	2792	---
ERBB2	chr17	37883156	C	A	Heterozygous	1.5	42	SNP	Novel	2791	---
ERBB2	chr17	37883158	G	A	Heterozygous	1.3	27	SNP	Novel	2852	---
ERBB2	chr17	37883160	G	A	Heterozygous	1.3	24	SNP	Novel	2902	---
ERBB2	chr17	37883169	G	A	Heterozygous	2.8	209	SNP	Novel	2937	---
ERBB2	chr17	37883187	C	T	Heterozygous	3.1	257	SNP	Novel	2910	---
ERBB2	chr17	37883206	C	T	Heterozygous	2.9	674	SNP	Novel	2733	---
ERBB2	chr17	37883215	G	A	Heterozygous	1.9	87	SNP	Novel	2818	---
ERBB2	chr17	37883226	C	T	Heterozygous	1.6	218	SNP	Novel	2989	---
ERBB2	chr17	37883232	C	T	Heterozygous	1.4	35	SNP	Novel	3190	---
ERBB2	chr17	37883235	G	A	Heterozygous	1.4	42	SNP	Novel	3344	---
ERBB2	chr17	37883236	C	T	Heterozygous	1.6	54	SNP	Novel	3330	---
ERBB2	chr17	37883243	G	A	Heterozygous	1.5	52	SNP	Novel	3311	---
GNA11	chr19	3114975	G	A	Heterozygous	1.4	38	SNP	Novel	3300	---

GNA11	chr19	3114986	C	T	Heterozygous	1.1	15	SNP	Novel	3331	---
GNA11	chr19	3115000	G	A	Heterozygous	1.6	56	SNP	Novel	3368	---
GNA11	chr19	3115009	G	A	Heterozygous	1.5	112	SNP	Novel	3368	---
GNA11	chr19	3115019	C	T	Heterozygous	1.6	226	SNP	Novel	3372	---
GNA11	chr19	3115032	C	T	Heterozygous	1.1	15	SNP	Novel	3422	---
GNA11	chr19	3115038	G	A	Heterozygous	1.2	19	SNP	Novel	3434	---
GNA11	chr19	3115062	C	T	Heterozygous	1	11	SNP	Novel	3608	---
GNA11	chr19	3115080	G	A	Heterozygous	1.8	643	SNP	Novel	3516	---
GNA11	chr19	3115089	C	T	Heterozygous	1.7	76	SNP	Novel	3604	---
GNA11	chr19	3115096	G	A	Heterozygous	1.4	168	SNP	Novel	3565	---
GNA11	chr19	3118914	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MAP2K2	chr19	4117524	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
MAP2K2	chr19	4117525	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---
MAP2K2	chr19	4117526	C	T	Heterozygous	1.6	68	SNP	Novel	3999	---
MAP2K2	chr19	4117536	C	T	Heterozygous	1.3	32	SNP	Novel	3994	---
MAP2K2	chr19	4117567	C	T	Heterozygous	3.6	492	SNP	Novel	4000	---
MAP2K2	chr19	4117571	T	A	Heterozygous	1	10	SNP	Novel	3990	---
MAP2K2	chr19	4117578	C	T	Heterozygous	1.7	78	SNP	Novel	3992	---
MAP2K2	chr19	4117579	G	A	Heterozygous	1.6	68	SNP	Novel	4000	---
MAP2K2	chr19	4117593	C	T	Heterozygous	1.9	114	SNP	Novel	4000	---
MAP2K2	chr19	4117596	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
MAP2K2	chr19	4117606	C	T	Heterozygous	2.5	209	SNP	Novel	4000	---
MAP2K2	chr19	4117617	C	T	Heterozygous	4.5	739	SNP	Novel	4000	---
JAK3	chr19	17945900	C	T	Heterozygous	2	110	SNP	Novel	3677	---
JAK3	chr19	17945905	C	T	Heterozygous	1.6	61	SNP	Novel	3675	---
JAK3	chr19	17945909	G	A	Heterozygous	1.8	91	SNP	Novel	3701	---
JAK3	chr19	17945920	C	T	Heterozygous	2.1	544	SNP	Novel	3687	---
JAK3	chr19	17945932	C	T	Heterozygous	1.8	89	SNP	Novel	3720	---
JAK3	chr19	17945947	C	T	Heterozygous	1.1	14	SNP	Novel	3605	---
JAK3	chr19	17945948	G	A	Heterozygous	1.7	79	SNP	Novel	3711	---
JAK3	chr19	17945953	C	T	Heterozygous	2.1	135	SNP	Novel	3706	---
JAK3	chr19	17945954	C	T	Heterozygous	1	11	SNP	Novel	3706	---
JAK3	chr19	17945955	C	T	Heterozygous	2.1	135	SNP	Novel	3703	---
JAK3	chr19	17945969	C	T	Heterozygous	1.6	63	SNP	Hotspot	3676	COSM35864
JAK3	chr19	17945977	G	A	Heterozygous	1.4	41	SNP	Novel	3746	---
JAK3	chr19	17945987	C	T	Heterozygous	1.7	334	SNP	Novel	3732	---
JAK3	chr19	17948744	C	T	Heterozygous	1.1	18	SNP	Novel	3646	---
JAK3	chr19	17948753	C	T	Heterozygous	1.2	25	SNP	Novel	3623	---

JAK3	chr19	17948756	G	A	Heterozygous	1	12	SNP	Novel	3670	---
JAK3	chr19	17948758	G	A	Heterozygous	1.3	28	SNP	Novel	3675	---
JAK3	chr19	17948766	T	C	Heterozygous	1.1	16	SNP	Novel	3687	---
JAK3	chr19	17948774	C	T	Heterozygous	1.2	21	SNP	Novel	3690	---
JAK3	chr19	17948779	G	A	Heterozygous	2.5	207	SNP	Novel	3686	---
JAK3	chr19	17948786	C	T	Heterozygous	3.5	426	SNP	Novel	3674	---
JAK3	chr19	17948796	C	T	Heterozygous	1.5	181	SNP	Novel	3610	---
JAK3	chr19	17948797	G	C	Heterozygous	1.1	15	SNP	Novel	3668	---
JAK3	chr19	17948800	C	T	Heterozygous	1.7	80	SNP	Novel	3678	---
JAK3	chr19	17948810	C	T	Heterozygous	1.1	15	SNP	Novel	3671	---
JAK3	chr19	17948815	C	T	Heterozygous	2	111	SNP	Novel	3672	---
JAK3	chr19	17948816	C	T	Heterozygous	3	313	SNP	Novel	3674	---
JAK3	chr19	17948823	C	T	Heterozygous	1.3	35	SNP	Novel	3670	---
JAK3	chr19	17948833	G	A	Heterozygous	1.9	377	SNP	Novel	3628	---
JAK3	chr19	17948841	T	C	Heterozygous	1.3	28	SNP	Novel	3652	---
JAK3	chr19	17948852	C	T	Heterozygous	1.3	33	SNP	Novel	3644	---
JAK3	chr19	17948861	C	T	Heterozygous	1.5	47	SNP	Novel	3639	---
JAK3	chr19	17948864	G	A	Heterozygous	1.2	22	SNP	Novel	3640	---
JAK3	chr19	17948867	C	T	Heterozygous	2.6	216	SNP	Novel	3636	---
JAK3	chr19	17949130	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
AR	chrX	66776189	G	A	Heterozygous	1	10	SNP	Novel	3997	---
AR	chrX	66776204	C	T	Heterozygous	1.5	55	SNP	Novel	4000	---
AR	chrX	66776211	G	A	Heterozygous	1.2	30	SNP	Novel	4000	---
AR	chrX	66799231	C	T	Heterozygous	1.6	154	SNP	Novel	3956	---
AR	chrX	66799237	G	A	Heterozygous	1.9	106	SNP	Novel	4000	---
AR	chrX	66799240	T	C	Heterozygous	1.3	35	SNP	Novel	3964	---
AR	chrX	66799278	C	T	Heterozygous	1	10	SNP	Novel	4000	---
AR	chrX	66799307	G	A	Heterozygous	2	122	SNP	Novel	4000	---
AR	chrX	66866130	G	A	Heterozygous	2.9	157	SNP	Novel	1949	---
AR	chrX	66866159	G	A	Heterozygous	2.7	133	SNP	Novel	1981	---
AR	chrX	66866170	G	A	Heterozygous	2.7	138	SNP	Novel	1989	---
AR	chrX	66866173	G	A	Heterozygous	2.3	92	SNP	Novel	1988	---
AR	chrX	66866175	G	A	Heterozygous	3.2	197	SNP	Novel	1986	---
AR	chrX	66866184	G	A	Heterozygous	1.2	16	SNP	Novel	1987	---
AR	chrX	66866187	G	A	Heterozygous	1.6	41	SNP	Novel	1975	---
AR	chrX	66866193	G	A	Heterozygous	2.6	122	SNP	Novel	1989	---
AR	chrX	66866194	G	A	Heterozygous	2.5	117	SNP	Novel	1989	---
AR	chrX	66866215	G	A	Heterozygous	7.2	1163	SNP	Novel	1953	---

AR	chrX	66866223	G	A	Heterozygous	2.6	128	SNP	Novel	1984	---
AR	chrX	66874557	G	A	Heterozygous	3.7	191	SNP	Novel	1425	---
AR	chrX	66874563	C	T	Heterozygous	1.2	14	SNP	Novel	1430	---
AR	chrX	66874574	G	A	Heterozygous	2.6	92	SNP	Novel	1440	---
AR	chrX	66874578	C	T	Heterozygous	3	126	SNP	Novel	1441	---
AR	chrX	66874585	C	T	Heterozygous	1.3	17	SNP	Novel	1443	---
AR	chrX	66874601	C	T	Heterozygous	1.5	27	SNP	Novel	1443	---
AR	chrX	66874627	G	A	Heterozygous	0.8	18	SNP	Novel	1418	---
AR	chrX	66906915	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
AR	chrX	66906920	C	T	Heterozygous	1	12	SNP	Novel	3999	---
AR	chrX	66915186	G	A	Heterozygous	4.9	276	SNP	Novel	1241	---
AR	chrX	66915216	A	G	Heterozygous	1.4	18	SNP	Novel	1259	---
AR	chrX	66915217	G	A	Heterozygous	3.4	143	SNP	Novel	1258	---
AR	chrX	66915219	C	T	Heterozygous	5.2	315	SNP	Novel	1260	---
AR	chrX	66915242	C	T	Heterozygous	3.8	183	SNP	Novel	1273	---
AR	chrX	66917702	C	T	Heterozygous	2.6	62	SNP	Novel	886	---
AR	chrX	66917704	T	C	Heterozygous	2.2	87	SNP	Novel	879	---
AR	chrX	66917721	C	T	Heterozygous	4.3	158	SNP	Novel	886	---
AR	chrX	66917728	T	C	Heterozygous	1.7	25	SNP	Novel	889	---
AR	chrX	66917742	C	T	Heterozygous	1.6	23	SNP	Novel	878	---
AR	chrX	66938947	C	T	Heterozygous	1.6	51	SNP	Novel	2636	---
AR	chrX	66938964	G	A	Heterozygous	3.9	382	SNP	Novel	2634	---
AR	chrX	66938972	C	T	Heterozygous	1.9	75	SNP	Novel	2613	---
AR	chrX	66939004	G	A	Heterozygous	1.1	13	SNP	Novel	2606	---
AR	chrX	66939010	C	T	Heterozygous	2.1	98	SNP	Novel	2577	---
AR	chrX	66939020	G	A	Heterozygous	1.2	16	SNP	Novel	2587	---
AR	chrX	66939026	C	T	Heterozygous	1.8	64	SNP	Novel	2579	---
AR	chrX	66939034	C	T	Heterozygous	2.7	164	SNP	Novel	2564	---
AR	chrX	66941750	C	T	Heterozygous	3.4	116	SNP	Novel	1037	---
AR	chrX	66941787	C	T	Heterozygous	4.8	341	SNP	Novel	1637	---
AR	chrX	66941823	C	A	Heterozygous	1.2	15	SNP	Novel	1678	---
AR	chrX	66941827	G	A	Heterozygous	4.7	335	SNP	Novel	1672	---
AR	chrX	66941833	C	T	Heterozygous	5.7	1044	SNP	Novel	1649	---
AR	chrX	66941838	G	A	Heterozygous	4.7	338	SNP	Novel	1656	---
AR	chrX	66941840	G	A	Heterozygous	2.5	102	SNP	Novel	1609	---
AR	chrX	66943521	C	T	Heterozygous	1.1	16	SNP	Novel	3998	---
AR	chrX	66943533	G	A	Heterozygous	1.2	27	SNP	Novel	3998	---
AR	chrX	66943558	G	A	Heterozygous	1.1	21	SNP	Novel	3957	---

AR	chrX	66943581	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
AR	chrX	66945146	A	G	Heterozygous	2.1	78	SNP	Novel	1913	---
AR	chrX	66945154	G	A	Heterozygous	2.2	122	SNP	Novel	1862	---
AR	chrX	66945170	G	A	Heterozygous	2	100	SNP	Novel	1728	---
AR	chrX	66945182	G	A	Heterozygous	2	62	SNP	Novel	1747	---
AR	chrX	66945187	G	A	Heterozygous	2.1	67	SNP	Novel	1744	---
AR	chrX	66945210	G	A	Heterozygous	2.7	124	SNP	Novel	1782	---
AR	chrX	66945213	G	A	Heterozygous	5.8	518	SNP	Novel	1787	---
AR	chrX	66945217	C	T	Heterozygous	2.3	86	SNP	Novel	1785	---