

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202117

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: 59 year(s) old

Pathological Diagnosis: Adenocarcinoma

Tumor Size: diameter 3 cm

Location: left lower 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)

C202117

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174385	C	T	Heterozygous	1.4	45	SNP	Novel	3974	---
MTOR	chr1	11174447	G	A	Heterozygous	1	13	SNP	Novel	3997	---
MTOR	chr1	11184595	G	A	Heterozygous	1.3	37	SNP	Novel	4000	---
MTOR	chr1	11184620	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
MTOR	chr1	11184639	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
MTOR	chr1	11188028	G	A	Heterozygous	0.8	21	SNP	Novel	3965	---
MTOR	chr1	11188070	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
MTOR	chr1	11188170	G	A	Heterozygous	1.2	27	SNP	Novel	3803	---
MTOR	chr1	11188234	G	A	Heterozygous	1.2	28	SNP	Novel	3903	---
MTOR	chr1	11188239	G	A	Heterozygous	1.1	19	SNP	Novel	3913	---
MTOR	chr1	11188254	G	A	Heterozygous	1.1	20	SNP	Novel	3886	---
MTOR	chr1	11189795	C	T	Heterozygous	1	10	SNP	Novel	4000	---
MTOR	chr1	11189849	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
MTOR	chr1	11189862	G	A	Heterozygous	1.1	19	SNP	Novel	4000	---
MTOR	chr1	11189866	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
MTOR	chr1	11189890	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
MTOR	chr1	11189901	G	A	Heterozygous	1.5	51	SNP	Novel	4000	---
MTOR	chr1	11190832	G	A	Heterozygous	1.3	31	SNP	Novel	3998	---
MTOR	chr1	11190838	G	A	Heterozygous	1	107	SNP	Novel	3959	---
MTOR	chr1	11190842	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
MTOR	chr1	11190860	G	A	Heterozygous	1.3	32	SNP	Novel	3999	---
MTOR	chr1	11190862	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
MTOR	chr1	11190872	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
MTOR	chr1	11190876	C	T	Heterozygous	1.1	20	SNP	Novel	3999	---
MTOR	chr1	11190887	G	A	Heterozygous	1.4	49	SNP	Novel	4000	---
MTOR	chr1	11217204	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
MTOR	chr1	11217213	C	T	Heterozygous	1.2	138	SNP	Novel	3984	---
MTOR	chr1	11217229	G	A	Heterozygous	1	12	SNP	Novel	4000	---
JAK1	chr1	65310489	T	C	Heterozygous	50.3	30235	SNP	Novel	3994	---
JAK1	chr1	65310498	C	T	Heterozygous	1	13	SNP	Novel	4000	---
JAK1	chr1	65310572	C	T	Heterozygous	1	10	SNP	Novel	3998	---
JAK1	chr1	65311203	C	T	Heterozygous	1.2	23	SNP	Novel	3996	---
JAK1	chr1	65311215	G	A	Heterozygous	1.3	34	SNP	Novel	4000	---
JAK1	chr1	65312278	G	A	Heterozygous	1	10	SNP	Novel	3988	---
JAK1	chr1	65312283	C	T	Heterozygous	0.9	41	SNP	Novel	3979	---

JAK1	chr1	65312292	C	T	Heterozygous	1.1	89	SNP	Novel	3948	---
JAK1	chr1	65312303	C	T	Heterozygous	0.9	84	SNP	Novel	3885	---
JAK1	chr1	65312338	C	T	Heterozygous	1.1	18	SNP	Novel	3996	---
JAK1	chr1	65312354	G	A	Heterozygous	1.2	21	SNP	Novel	3910	---
JAK1	chr1	65312355	C	T	Heterozygous	1.2	23	SNP	Novel	3997	---
JAK1	chr1	65312391	C	T	Heterozygous	1.2	23	SNP	Novel	3997	---
NRAS	chr1	115252204	C	T	Heterozygous	1	10	SNP	Hotspot	3998	COSM27174
NRAS	chr1	115252271	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
NRAS	chr1	115252280	C	T	Heterozygous	1.1	15	SNP	Novel	3983	---
NRAS	chr1	115252287	C	T	Heterozygous	1	12	SNP	Novel	3999	---
NRAS	chr1	115256572	C	T	Heterozygous	1.2	22	SNP	Novel	3996	---
NRAS	chr1	115258773	C	T	Heterozygous	1.2	25	SNP	Novel	4000	---
NRAS	chr1	115258774	T	C	Heterozygous	1.4	28	SNP	Novel	2153	---
DDR2	chr1	162724537	G	A	Heterozygous	1.3	30	SNP	Novel	3952	---
DDR2	chr1	162724582	C	T	Heterozygous	1	12	SNP	Novel	4000	---
DDR2	chr1	162724605	G	A	Heterozygous	1.4	44	SNP	Novel	3998	---
DDR2	chr1	162724611	G	A	Heterozygous	1.4	42	SNP	Novel	3994	---
DDR2	chr1	162724625	C	T	Heterozygous	1.1	15	SNP	Novel	3999	---
ALK	chr2	29416084	C	T	Heterozygous	1.1	14	SNP	Novel	3074	---
ALK	chr2	29416094	G	A	Heterozygous	1	121	SNP	Novel	3106	---
ALK	chr2	29416141	G	A	Heterozygous	1.4	38	SNP	Novel	3178	---
ALK	chr2	29416160	G	A	Heterozygous	0.8	58	SNP	Novel	3133	---
ALK	chr2	29416163	G	A	Heterozygous	1.2	24	SNP	Novel	3151	---
ALK	chr2	29416192	C	T	Heterozygous	1.3	32	SNP	Novel	3128	---
ALK	chr2	29416332	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
ALK	chr2	29416337	C	T	Heterozygous	1.3	34	SNP	Novel	4000	---
ALK	chr2	29416345	C	T	Heterozygous	1.2	22	SNP	Novel	4000	---
ALK	chr2	29416348	C	T	Heterozygous	1	12	SNP	Novel	4000	---
ALK	chr2	29416362	C	T	Heterozygous	1.2	205	SNP	Novel	3985	---
ALK	chr2	29416366	G	C	Heterozygous	57.6	36283	SNP	Novel	3966	---
ALK	chr2	29416368	C	T	Heterozygous	1.6	67	SNP	Novel	4000	---
ALK	chr2	29416435	C	T	Heterozygous	1.8	153	SNP	Novel	3940	---
ALK	chr2	29416453	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
ALK	chr2	29416572	T	C	Homozygous	100	83586	SNP	Novel	3993	---
ALK	chr2	29416583	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
ALK	chr2	29416620	G	A	Heterozygous	1	13	SNP	Novel	3998	---
ALK	chr2	29416638	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
ALK	chr2	29436863	G	A	Heterozygous	1.7	77	SNP	Novel	3998	---

ALK	chr2	29436904	G	A	Heterozygous	1.4	49	SNP	Novel	4000	---
ALK	chr2	29436909	G	A	Heterozygous	1	12	SNP	Novel	3998	---
ALK	chr2	29436952	G	A	Heterozygous	1	13	SNP	Novel	4000	---
ALK	chr2	29443573	G	A	Heterozygous	1.2	22	SNP	Novel	3905	---
ALK	chr2	29443577	G	A	Heterozygous	1.4	41	SNP	Novel	3998	---
ALK	chr2	29443583	G	A	Heterozygous	1.4	47	SNP	Novel	4000	---
ALK	chr2	29443595	G	A	Heterozygous	1.6	61	SNP	Novel	3999	---
ALK	chr2	29443617	C	G	Heterozygous	54.6	32233	SNP	Novel	3827	---
ALK	chr2	29443625	G	A	Heterozygous	1	10	SNP	Novel	4000	---
ALK	chr2	29443692	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
ALK	chr2	29445222	G	A	Heterozygous	1	89	SNP	Novel	3965	---
ALK	chr2	29445232	G	A	Heterozygous	1.1	15	SNP	Novel	3999	---
ALK	chr2	29445284	G	A	Heterozygous	1.1	20	SNP	Novel	3997	---
ALK	chr2	29445296	G	A	Heterozygous	0.9	190	SNP	Novel	3817	---
ALK	chr2	29445388	C	T	Heterozygous	1	13	SNP	Novel	4000	---
ALK	chr2	29445391	C	T	Heterozygous	1.1	20	SNP	Novel	3958	---
ALK	chr2	29445418	G	A	Heterozygous	1	67	SNP	Novel	3963	---
ALK	chr2	29445450	C	T	Heterozygous	1	13	SNP	Novel	3925	---
ALK	chr2	29445458	G	T	Heterozygous	54.9	34099	SNP	Novel	3989	---
ALK	chr2	29497939	C	T	Heterozygous	1.1	20	SNP	Novel	3952	---
ALK	chr2	29497995	G	A	Heterozygous	1.2	28	SNP	Novel	3958	---
ALK	chr2	29498005	C	T	Heterozygous	1.4	109	SNP	Novel	3873	---
ALK	chr2	29498019	C	T	Heterozygous	1.1	17	SNP	Novel	3956	---
ALK	chr2	29498020	C	T	Heterozygous	1.3	38	SNP	Novel	3946	---
IDH1	chr2	209113154	G	A	Heterozygous	0.8	23	SNP	Novel	3939	---
IDH1	chr2	209113176	C	T	Heterozygous	1	12	SNP	Novel	4000	---
RAF1	chr3	12632386	G	A	Heterozygous	1	12	SNP	Novel	3998	---
RAF1	chr3	12645727	C	T	Heterozygous	1	10	SNP	Novel	4000	---
CTNNB1	chr3	41266045	G	A	Heterozygous	1	12	SNP	Novel	3999	---
CTNNB1	chr3	41266063	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
CTNNB1	chr3	41266067	G	A	Heterozygous	1.3	32	SNP	Novel	3998	---
CTNNB1	chr3	41266082	C	T	Heterozygous	1.3	34	SNP	Novel	3998	---
CTNNB1	chr3	41266101	C	T	Heterozygous	1	16	SNP	Hotspot	3998	COSM5669
CTNNB1	chr3	41266108	C	T	Heterozygous	1	11	SNP	Novel	3998	---
PIK3CA	chr3	178916716	G	A	Heterozygous	1.2	22	SNP	Novel	3994	---
PIK3CA	chr3	178916735	C	T	Heterozygous	1	10	SNP	Novel	4000	---
PIK3CA	chr3	178916770	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
PIK3CA	chr3	178916873	G	A	Heterozygous	1.1	18	SNP	Novel	3771	---

PIK3CA	chr3	178916882	G	A	Heterozygous	1.4	39	SNP	Novel	3772	---
PIK3CA	chr3	178916941	G	A	Heterozygous	0.8	45	SNP	Novel	3638	---
PIK3CA	chr3	178921479	G	A	Heterozygous	1.2	26	SNP	Novel	3983	---
PIK3CA	chr3	178922274	C	A	Heterozygous	2.2	157	SNP	Novel	3985	---
PIK3CA	chr3	178922304	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
PIK3CA	chr3	178922338	C	T	Heterozygous	1.1	15	SNP	Novel	3999	---
PIK3CA	chr3	178922357	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
PIK3CA	chr3	178927945	C	T	Heterozygous	1	13	SNP	Novel	3999	---
PIK3CA	chr3	178927983	C	T	Heterozygous	1	12	SNP	Novel	4000	---
PIK3CA	chr3	178936068	G	A	Heterozygous	1.1	14	SNP	Novel	3997	---
PIK3CA	chr3	178936082	G	A	Heterozygous	1.9	104	SNP	Hotspot	3972	COSM760
PIK3CA	chr3	178936089	C	T	Heterozygous	1	12	SNP	Novel	4000	---
PIK3CA	chr3	178936114	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
PIK3CA	chr3	178936137	G	A	Heterozygous	1	12	SNP	Novel	3997	---
PIK3CA	chr3	178938864	G	A	Heterozygous	1.1	17	SNP	Novel	3966	---
PIK3CA	chr3	178938956	C	T	Heterozygous	1.1	17	SNP	Novel	3949	---
PIK3CA	chr3	178952081	G	A	Heterozygous	1	10	SNP	Hotspot	3969	COSM27273
PIK3CA	chr3	178952093	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
FGFR3	chr4	1797219	C	T	Heterozygous	1.1	20	SNP	Novel	3998	---
FGFR3	chr4	1797226	C	T	Heterozygous	1	12	SNP	Novel	3999	---
FGFR3	chr4	1797235	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
FGFR3	chr4	1797250	G	A	Heterozygous	1.2	21	SNP	Novel	3992	---
FGFR3	chr4	1797257	G	A	Heterozygous	1	57	SNP	Novel	3940	---
FGFR3	chr4	1797269	C	T	Heterozygous	1.2	28	SNP	Novel	3957	---
FGFR3	chr4	1797678	C	T	Heterozygous	1	12	SNP	Novel	4000	---
FGFR3	chr4	1797692	C	T	Heterozygous	1.1	64	SNP	Novel	3900	---
FGFR3	chr4	1797741	T	C	Heterozygous	31.1	15456	SNP	Novel	3998	---
FGFR3	chr4	1797747	C	T	Heterozygous	1	61	SNP	Novel	3974	---
FGFR3	chr4	1801110	G	A	Heterozygous	1	13	SNP	Novel	4000	---
FGFR3	chr4	1801112	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
FGFR3	chr4	1801119	C	T	Heterozygous	1	59	SNP	Novel	3961	---
FGFR3	chr4	1801184	G	A	Heterozygous	1	176	SNP	Novel	3938	---
FGFR3	chr4	1803617	G	A	Heterozygous	1	10	SNP	Novel	3999	---
FGFR3	chr4	1803632	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
FGFR3	chr4	1805800	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
FGFR3	chr4	1805822	C	T	Heterozygous	1.6	61	SNP	Novel	3999	---
FGFR3	chr4	1806083	G	A	Heterozygous	1	10	SNP	Novel	3998	---
FGFR3	chr4	1806090	G	A	Heterozygous	0.9	64	SNP	Novel	3955	---

FGFR3	chr4	1806169	C	T	Heterozygous	1	10	SNP	Novel	4000	---
FGFR3	chr4	1806186	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
FGFR3	chr4	1807844	G	A	Heterozygous	1	12	SNP	Novel	4000	---
FGFR3	chr4	1807862	G	A	Heterozygous	1.1	18	SNP	Novel	3985	---
FGFR3	chr4	1807891	G	A	Heterozygous	1.4	41	SNP	Novel	4000	---
FGFR3	chr4	1807894	G	A	Homozygous	99.8	83363	SNP	Novel	3998	---
FGFR3	chr4	1807916	G	A	Heterozygous	0.8	91	SNP	Novel	3913	---
FGFR3	chr4	1808391	G	A	Heterozygous	1	47	SNP	Novel	3950	---
FGFR3	chr4	1809246	C	T	Heterozygous	1.2	22	SNP	Novel	3057	---
FGFR3	chr4	1809257	G	A	Heterozygous	1.3	59	SNP	Novel	3046	---
FGFR3	chr4	1809273	G	A	Heterozygous	2	405	SNP	Novel	3061	---
FGFR3	chr4	1809302	C	T	Heterozygous	1.7	571	SNP	Novel	3578	---
FGFR3	chr4	1809317	G	A	Heterozygous	0.9	141	SNP	Novel	3613	---
FGFR3	chr4	1809319	G	A	Heterozygous	1.5	108	SNP	Novel	3646	---
FGFR3	chr4	1809348	C	T	Heterozygous	1.1	18	SNP	Novel	3672	---
FGFR3	chr4	1809459	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
FGFR3	chr4	1809480	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
FGFR3	chr4	1809481	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
FGFR3	chr4	1809493	C	T	Heterozygous	1.3	98	SNP	Novel	3904	---
FGFR3	chr4	1809510	C	T	Heterozygous	1.2	66	SNP	Novel	3916	---
FGFR3	chr4	1809521	G	A	Heterozygous	1.6	68	SNP	Novel	3989	---
FGFR3	chr4	1809534	C	T	Heterozygous	1.4	39	SNP	Novel	4000	---
FGFR3	chr4	1809543	G	A	Heterozygous	0.8	24	SNP	Novel	3977	---
PDGFRA	chr4	55097740	C	T	Heterozygous	1.1	76	SNP	Novel	3982	---
PDGFRA	chr4	55097755	C	T	Heterozygous	1	177	SNP	Novel	3967	---
PDGFRA	chr4	55097766	C	T	Heterozygous	1.1	16	SNP	Novel	3993	---
PDGFRA	chr4	55097774	C	T	Heterozygous	1.3	31	SNP	Novel	3951	---
PDGFRA	chr4	55097782	C	T	Heterozygous	2.1	144	SNP	Novel	3997	---
PDGFRA	chr4	55097801	G	A	Heterozygous	1.4	44	SNP	Novel	3999	---
PDGFRA	chr4	55097808	C	T	Heterozygous	1.3	36	SNP	Novel	3999	---
PDGFRA	chr4	55097836	C	T	Heterozygous	1.1	20	SNP	Novel	3998	---
PDGFRA	chr4	55104299	C	T	Heterozygous	1.2	144	SNP	Novel	3938	---
PDGFRA	chr4	55104349	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
PDGFRA	chr4	55121525	G	A	Heterozygous	1.2	27	SNP	Novel	3999	---
PDGFRA	chr4	55121604	G	A	Heterozygous	1.3	32	SNP	Novel	3982	---
PDGFRA	chr4	55123732	G	A	Heterozygous	0.9	162	SNP	Novel	3875	---
PDGFRA	chr4	55123749	G	A	Heterozygous	0.9	47	SNP	Novel	3936	---
PDGFRA	chr4	55123755	C	T	Heterozygous	1.4	47	SNP	Novel	3988	---

PDGFRA	chr4	55123759	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
PDGFRA	chr4	55123773	G	A	Heterozygous	1	13	SNP	Novel	3999	---
PDGFRA	chr4	55123785	G	A	Heterozygous	1.1	15	SNP	Novel	3999	---
PDGFRA	chr4	55133720	G	A	Heterozygous	1	12	SNP	Novel	3967	---
PDGFRA	chr4	55133750	C	T	Heterozygous	1	12	SNP	Novel	3990	---
PDGFRA	chr4	55133754	C	T	Heterozygous	1.1	16	SNP	Novel	3990	---
PDGFRA	chr4	55141012	C	T	Heterozygous	1.5	52	SNP	Novel	4000	---
PDGFRA	chr4	55141055	A	G	Heterozygous	97.1	80816	SNP	Novel	3977	---
PDGFRA	chr4	55141053	CCA	TCG	Heterozygous	0.9	80816	MNP	Novel	3977	---
PDGFRA	chr4	55152038	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
PDGFRA	chr4	55152108	C	T	Heterozygous	1.3	35	SNP	Novel	4000	---
PDGFRA	chr4	55152118	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
PDGFRA	chr4	55152120	C	T	Heterozygous	1.1	14	SNP	Novel	4000	---
PDGFRA	chr4	55152121	G	A	Heterozygous	1.1	63	SNP	Novel	3924	---
PDGFRA	chr4	55152126	G	A	Heterozygous	1.3	32	SNP	Novel	3998	---
PDGFRA	chr4	55152131	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
PDGFRA	chr4	55152145	C	T	Heterozygous	1.2	25	SNP	Novel	3995	---
KIT	chr4	55529126	G	A	Heterozygous	1.2	21	SNP	Novel	2522	---
KIT	chr4	55529160	GAA	-	Heterozygous	81.1	30812	DEL	Novel	2055	---
KIT	chr4	55529160	GAAA	-	Heterozygous	9.4	30812	DEL	Novel	2055	---
KIT	chr4	55529175	C	T	Heterozygous	1.2	23	SNP	Novel	3295	---
KIT	chr4	55529200	-	A	Heterozygous	37.8	15424	INS	Novel	3284	---
KIT	chr4	55566199	C	T	Heterozygous	1.2	13	SNP	Novel	1733	---
KIT	chr4	55566266	G	A	Homozygous	100	35305	SNP	Novel	1697	---
KIT	chr4	55592181	C	T	Heterozygous	1	13	SNP	Novel	4000	---
KIT	chr4	55593430	C	T	Heterozygous	1.3	36	SNP	Novel	4000	---
KIT	chr4	55593590	G	A	Heterozygous	1.4	39	SNP	Novel	3900	---
KIT	chr4	55593602	G	A	Heterozygous	1.2	23	SNP	Novel	3896	---
KIT	chr4	55593691	G	A	Heterozygous	1.2	21	SNP	Novel	3997	---
KIT	chr4	55594197	C	T	Heterozygous	1.2	27	SNP	Novel	3932	---
KIT	chr4	55594220	C	T	Heterozygous	1.1	21	SNP	Novel	3959	---
KIT	chr4	55599314	G	A	Heterozygous	1.2	23	SNP	Novel	3990	---
KIT	chr4	55599359	G	A	Heterozygous	1	12	SNP	Novel	3999	---
ROS1	chr6	117638359	G	A	Heterozygous	1.2	25	SNP	Novel	4000	---
ROS1	chr6	117638435	G	A	Heterozygous	1.4	47	SNP	Novel	3991	---
ROS1	chr6	117638438	G	A	Heterozygous	1	48	SNP	Novel	3973	---
ROS1	chr6	117641034	C	T	Heterozygous	1.1	18	SNP	Novel	3996	---
ROS1	chr6	117641042	C	T	Heterozygous	1.1	18	SNP	Novel	3988	---

ROS1	chr6	117641075	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
ROS1	chr6	117641094	C	T	Heterozygous	1	13	SNP	Novel	4000	---
ROS1	chr6	117641118	C	T	Heterozygous	1.2	21	SNP	Novel	3999	---
ROS1	chr6	117641145	C	T	Heterozygous	1.1	15	SNP	Novel	3999	---
ESR1	chr6	152419945	G	A	Heterozygous	1.7	81	SNP	Novel	3993	---
ESR1	chr6	152419976	C	T	Heterozygous	1.4	42	SNP	Novel	3963	---
ESR1	chr6	152419983	G	A	Heterozygous	0.9	190	SNP	Novel	3964	---
ESR1	chr6	152419989	C	T	Heterozygous	1.1	14	SNP	Novel	4000	---
EGFR	chr7	55198974	C	T	Heterozygous	1.4	43	SNP	Novel	4000	---
EGFR	chr7	55221805	C	T	Heterozygous	1.4	47	SNP	Novel	3964	---
EGFR	chr7	55221811	C	T	Heterozygous	1	12	SNP	Novel	4000	---
EGFR	chr7	55221892	C	T	Heterozygous	1	106	SNP	Novel	3942	---
EGFR	chr7	55221895	C	T	Heterozygous	1.2	28	SNP	Novel	3999	---
EGFR	chr7	55221903	C	T	Heterozygous	1.1	19	SNP	Novel	3999	---
EGFR	chr7	55227987	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
EGFR	chr7	55228041	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
EGFR	chr7	55228053	A	-	Homozygous	100	79349	DEL	Novel	3979	---
EGFR	chr7	55241694	G	A	Heterozygous	1	44	SNP	Novel	3970	---
EGFR	chr7	55242475	G	A	Heterozygous	1	58	SNP	Novel	3862	---
EGFR	chr7	55242487	C	T	Heterozygous	1	88	SNP	Novel	3857	---
EGFR	chr7	55242511	G	A	Heterozygous	1.6	64	SNP	Novel	3992	---
EGFR	chr7	55249016	C	T	Heterozygous	1	127	SNP	Novel	3869	---
EGFR	chr7	55249046	C	T	Heterozygous	1	11	SNP	Novel	4000	---
EGFR	chr7	55249056	C	T	Heterozygous	1	11	SNP	Novel	4000	---
EGFR	chr7	55249057	C	T	Heterozygous	1	10	SNP	Novel	4000	---
EGFR	chr7	55249071	C	T	Heterozygous	1.1	15	SNP	Hotspot	4000	COSM6240
EGFR	chr7	55249087	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
EGFR	chr7	55249088	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
EGFR	chr7	55259444	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
EGFR	chr7	55259468	C	T	Heterozygous	1	10	SNP	Novel	3999	---
MET	chr7	116313486	G	A	Heterozygous	1	12	SNP	Novel	3995	---
MET	chr7	116313537	G	A	Heterozygous	1.1	15	SNP	Novel	3996	---
MET	chr7	116313545	G	A	Heterozygous	1.1	19	SNP	Novel	3930	---
MET	chr7	116313546	T	C	Heterozygous	1.2	23	SNP	Novel	3993	---
MET	chr7	116313562	C	T	Heterozygous	1.4	47	SNP	Novel	3994	---
MET	chr7	116339428	C	T	Heterozygous	1.2	25	SNP	Novel	3997	---
MET	chr7	116340262	A	G	Heterozygous	46	26663	SNP	Novel	3999	---
MET	chr7	116340299	G	A	Heterozygous	1	13	SNP	Novel	3997	---

MET	chr7	116398763	C	T	Heterozygous	49	28686	SNP	Novel	3953	---
MET	chr7	116403173	C	T	Heterozygous	1.4	47	SNP	Novel	3983	---
MET	chr7	116403182	C	T	Heterozygous	0.9	68	SNP	Novel	3916	---
MET	chr7	116403229	C	T	Heterozygous	1.5	119	SNP	Novel	3971	---
MET	chr7	116412021	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MET	chr7	116412052	C	T	Heterozygous	1.3	33	SNP	Novel	3998	---
MET	chr7	116415146	C	T	Heterozygous	1.6	61	SNP	Novel	4000	---
MET	chr7	116415163	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
MET	chr7	116415176	C	T	Heterozygous	1.4	44	SNP	Novel	4000	---
MET	chr7	116415177	C	T	Heterozygous	1	13	SNP	Novel	4000	---
MET	chr7	116417428	C	T	Heterozygous	0.7	45	SNP	Novel	3956	---
MET	chr7	116417455	G	A	Heterozygous	1.8	91	SNP	Novel	4000	---
MET	chr7	116417457	G	A	Heterozygous	1	12	SNP	Novel	4000	---
MET	chr7	116417484	G	A	Heterozygous	1	13	SNP	Novel	3998	---
MET	chr7	116417489	C	T	Heterozygous	1	13	SNP	Novel	3993	---
MET	chr7	116417499	C	T	Heterozygous	1.2	21	SNP	Novel	3999	---
MET	chr7	116417522	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MET	chr7	116423432	G	A	Heterozygous	1.1	18	SNP	Novel	3999	---
MET	chr7	116434469	C	T	Heterozygous	1.2	24	SNP	Novel	3953	---
MET	chr7	116434516	G	A	Heterozygous	1.3	35	SNP	Novel	3957	---
SMO	chr7	128845513	C	T	Heterozygous	1.5	56	SNP	Novel	4000	---
SMO	chr7	128845534	C	T	Heterozygous	0.9	39	SNP	Novel	3982	---
SMO	chr7	128845546	G	A	Heterozygous	1.3	30	SNP	Novel	3999	---
SMO	chr7	128845571	C	T	Heterozygous	1.3	318	SNP	Hotspot	3943	OM3152
SMO	chr7	128845619	C	T	Heterozygous	0.9	30	SNP	Novel	3980	---
SMO	chr7	128846346	C	T	Heterozygous	1	12	SNP	Novel	3998	---
SMO	chr7	128849125	C	T	Heterozygous	1.4	49	SNP	Novel	4000	---
SMO	chr7	128849162	C	T	Heterozygous	1.9	106	SNP	Novel	4000	---
SMO	chr7	128849180	C	T	Heterozygous	1	13	SNP	Novel	3998	---
SMO	chr7	128849200	C	T	Heterozygous	1.3	37	SNP	Novel	4000	---
SMO	chr7	128849224	C	T	Heterozygous	1	12	SNP	Novel	4000	---
SMO	chr7	128849225	C	T	Heterozygous	1.3	37	SNP	Novel	3989	---
SMO	chr7	128849237	C	T	Heterozygous	1.1	18	SNP	Novel	3999	---
SMO	chr7	128850283	C	T	Heterozygous	1.1	15	SNP	Novel	3994	---
SMO	chr7	128850309	C	T	Heterozygous	1.3	30	SNP	Novel	3996	---
SMO	chr7	128850312	G	A	Heterozygous	1	10	SNP	Novel	3999	---
BRAF	chr7	140453114	G	A	Heterozygous	1.4	39	SNP	Novel	3999	---
BRAF	chr7	140453127	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---

BRAF	chr7	140453174	G	A	Heterozygous	1.7	81	SNP	Novel	4000	---
BRAF	chr7	140476734	G	A	Heterozygous	1	13	SNP	Novel	4000	---
BRAF	chr7	140481383	C	T	Heterozygous	1	10	SNP	Novel	4000	---
BRAF	chr7	140481423	C	T	Heterozygous	0.9	43	SNP	Novel	3975	---
BRAF	chr7	140481443	C	T	Heterozygous	1.1	167	SNP	Novel	3978	---
BRAF	chr7	140494265	G	A	Heterozygous	1.1	21	SNP	Novel	4000	---
BRAF	chr7	140494278	G	A	Heterozygous	1.4	39	SNP	Novel	3995	---
BRAF	chr7	140500286	G	A	Heterozygous	1	13	SNP	Novel	4000	---
BRAF	chr7	140507834	C	T	Heterozygous	1.2	25	SNP	Novel	3999	---
JAK2	chr9	5073749	G	A	Heterozygous	1.1	22	SNP	Novel	3978	---
JAK2	chr9	5073777	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
JAK2	chr9	5073790	G	A	Heterozygous	1	10	SNP	Novel	3999	---
JAK2	chr9	5073825	C	T	Heterozygous	1.2	30	SNP	Novel	4000	---
GNAQ	chr9	80409379	C	T	Heterozygous	1	10	SNP	Novel	4000	---
GNAQ	chr9	80409478	C	T	Heterozygous	1.2	25	SNP	Novel	3998	---
RET	chr10	43609087	G	A	Heterozygous	1.2	27	SNP	Novel	4000	---
RET	chr10	43609161	G	A	Heterozygous	0.8	37	SNP	Novel	3974	---
RET	chr10	43609179	C	T	Heterozygous	1.4	39	SNP	Novel	3995	---
RET	chr10	43609884	C	T	Heterozygous	1.1	144	SNP	Novel	3989	---
RET	chr10	43609908	C	T	Heterozygous	1.8	95	SNP	Novel	3999	---
RET	chr10	43609915	C	T	Heterozygous	0.8	79	SNP	Novel	3893	---
RET	chr10	43609937	G	A	Heterozygous	1.2	25	SNP	Novel	3999	---
RET	chr10	43609942	G	A	Heterozygous	1.1	17	SNP	Novel	3937	---
RET	chr10	43609968	C	T	Heterozygous	1.2	25	SNP	Novel	3981	---
RET	chr10	43609992	C	T	Heterozygous	1.2	21	SNP	Novel	3999	---
RET	chr10	43613843	G	T	Homozygous	100	83210	SNP	Novel	3967	---
RET	chr10	43613849	C	T	Heterozygous	1	12	SNP	Novel	4000	---
RET	chr10	43613853	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
RET	chr10	43613867	C	T	Heterozygous	1	12	SNP	Novel	3999	---
RET	chr10	43613880	G	A	Heterozygous	1	10	SNP	Novel	4000	---
RET	chr10	43615564	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
RET	chr10	43615571	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
RET	chr10	43615574	G	A	Heterozygous	1	51	SNP	Novel	3946	---
RET	chr10	43615578	G	A	Heterozygous	1.6	71	SNP	Novel	4000	---
RET	chr10	43615594	G	A	Heterozygous	1	10	SNP	Novel	4000	---
RET	chr10	43615602	G	A	Heterozygous	1.5	54	SNP	Novel	4000	---
RET	chr10	43615610	C	T	Heterozygous	1.1	15	SNP	Novel	4000	---
RET	chr10	43615633	C	G	Heterozygous	1.4	44	SNP	Novel	3986	---

RET	chr10	43615637	G	A	Heterozygous	1.1	18	SNP	Novel	4000	---
RET	chr10	43615666	G	A	Heterozygous	1.1	121	SNP	Novel	3876	---
RET	chr10	43615670	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
RET	chr10	43617336	C	T	Heterozygous	0.8	24	SNP	Novel	3968	---
RET	chr10	43617372	C	T	Heterozygous	1.1	18	SNP	Novel	3999	---
RET	chr10	43617403	C	T	Heterozygous	1.1	14	SNP	Novel	4000	---
FGFR2	chr10	123247597	C	T	Heterozygous	1.4	103	SNP	Novel	3978	---
FGFR2	chr10	123274722	C	T	Heterozygous	1.8	87	SNP	Novel	3999	---
FGFR2	chr10	123274733	G	A	Heterozygous	1.4	44	SNP	Novel	4000	---
FGFR2	chr10	123274735	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
FGFR2	chr10	123274765	C	T	Heterozygous	1.1	171	SNP	Novel	3959	---
FGFR2	chr10	123274827	C	T	Heterozygous	1.1	20	SNP	Novel	3999	---
FGFR2	chr10	123276936	G	A	Heterozygous	1	12	SNP	Novel	4000	---
FGFR2	chr10	123276958	G	A	Heterozygous	1	12	SNP	Novel	4000	---
FGFR2	chr10	123276972	G	A	Heterozygous	1.7	84	SNP	Novel	4000	---
FGFR2	chr10	123279615	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
FGFR2	chr10	123279627	C	T	Heterozygous	1	10	SNP	Novel	3997	---
FGFR2	chr10	123279666	G	A	Heterozygous	1.1	20	SNP	Novel	3967	---
FGFR2	chr10	123279677	G	A	Heterozygous	1.6	64	SNP	Novel	3997	---
FGFR2	chr10	123279687	G	A	Heterozygous	1.2	21	SNP	Novel	3995	---
FGFR2	chr10	123279697	G	A	Heterozygous	0.8	33	SNP	Novel	3966	---
FGFR2	chr10	123312216	C	T	Heterozygous	0.8	27	SNP	Novel	3963	---
FGFR2	chr10	123312249	C	T	Heterozygous	1.1	15	SNP	Novel	3999	---
FGFR2	chr10	123312269	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
HRAS	chr11	533817	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
HRAS	chr11	533826	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
HRAS	chr11	533879	G	A	Heterozygous	1.2	21	SNP	Novel	3998	---
HRAS	chr11	533906	C	T	Heterozygous	1.2	27	SNP	Novel	3999	---
HRAS	chr11	533914	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
HRAS	chr11	534292	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
HRAS	chr11	534317	C	T	Heterozygous	1.6	67	SNP	Novel	3998	---
KRAS	chr12	25378562	C	T	Heterozygous	1.1	20	SNP	Hotspot	3998	COSM19404
KRAS	chr12	25386054	C	G	Heterozygous	2.6	125	SNP	Novel	2010	---
KRAS	chr12	25386062	-	A	Homozygous	100	19832	INS	Novel	2045	---
KRAS	chr12	25386063	C	A	Heterozygous	97	42066	SNP	Novel	2097	---
KRAS	chr12	25386074	C	T	Heterozygous	0.9	21	SNP	Novel	2063	---
KRAS	chr12	25386919	C	T	Heterozygous	1.2	25	SNP	Novel	3997	---
KRAS	chr12	25386940	C	T	Heterozygous	24.2	10733	SNP	Novel	3981	---

KRAS	chr12	25386986	G	A	Heterozygous	1	10	SNP	Novel	3997	---
KRAS	chr12	25387195	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
KRAS	chr12	25387258	G	A	Heterozygous	1.2	23	SNP	Novel	3990	---
KRAS	chr12	25389182	A	G	Heterozygous	42.1	22711	SNP	Novel	3901	---
KRAS	chr12	25389220	A	G	Heterozygous	40.6	22420	SNP	Novel	4000	---
KRAS	chr12	25391210	G	A	Heterozygous	1.1	20	SNP	Novel	3998	---
KRAS	chr12	25391220	G	A	Heterozygous	2	122	SNP	Novel	3999	---
KRAS	chr12	25391243	G	A	Heterozygous	1.2	27	SNP	Novel	3999	---
KRAS	chr12	25398253	C	T	Heterozygous	1.1	20	SNP	Novel	3998	---
KRAS	chr12	25398259	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
KRAS	chr12	25400195	G	A	Heterozygous	1.2	22	SNP	Novel	3992	---
KRAS	chr12	25400206	G	T	Heterozygous	30.8	15108	SNP	Novel	3983	---
ERBB3	chr12	56477617	G	A	Heterozygous	1	10	SNP	Novel	4000	---
ERBB3	chr12	56477666	G	A	Heterozygous	1	12	SNP	Novel	3999	---
ERBB3	chr12	56477683	G	A	Heterozygous	1	13	SNP	Novel	4000	---
ERBB3	chr12	56477694	A	T	Heterozygous	97	80711	SNP	Novel	3924	---
ERBB3	chr12	56477694	AGCC	TGCT	Heterozygous	0.9	80711	MNP	Novel	3924	---
ERBB3	chr12	56478878	G	A	Heterozygous	1.1	18	SNP	Novel	3998	---
ERBB3	chr12	56481573	C	T	Heterozygous	1.2	23	SNP	Novel	3998	---
ERBB3	chr12	56481597	C	T	Heterozygous	1.4	41	SNP	Novel	4000	---
ERBB3	chr12	56481604	G	A	Heterozygous	1.3	36	SNP	Novel	4000	---
ERBB3	chr12	56481632	C	T	Heterozygous	1.2	226	SNP	Novel	3958	---
ERBB3	chr12	56481643	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
ERBB3	chr12	56481647	C	T	Heterozygous	1.4	42	SNP	Novel	3966	---
ERBB3	chr12	56481660	C	T	Heterozygous	1.1	16	SNP	Hotspot	3995	COSM1242239
ERBB3	chr12	56481687	C	T	Heterozygous	1.8	91	SNP	Novel	4000	---
ERBB3	chr12	56482321	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
ERBB3	chr12	56482371	C	T	Heterozygous	1	12	SNP	Novel	4000	---
ERBB3	chr12	56482372	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
ERBB3	chr12	56482558	C	T	Heterozygous	1.1	21	SNP	Novel	4000	---
ERBB3	chr12	56482560	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
ERBB3	chr12	56482580	G	A	Heterozygous	1	10	SNP	Novel	4000	---
ERBB3	chr12	56482581	C	T	Heterozygous	1.2	24	SNP	Novel	3970	---
ERBB3	chr12	56482592	G	A	Heterozygous	1.3	32	SNP	Novel	4000	---
ERBB3	chr12	56482599	G	A	Heterozygous	1.4	43	SNP	Novel	4000	---
ERBB3	chr12	56482615	C	T	Heterozygous	1	12	SNP	Novel	3999	---
CDK4	chr12	58142126	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
CDK4	chr12	58142945	C	T	Heterozygous	0.8	35	SNP	Novel	3958	---

CDK4	chr12	58144665	C	T	Homozygous	99.7	83139	SNP	Novel	3999	---
AKT1	chr14	105246465	C	T	Heterozygous	1.7	67	SNP	Novel	3337	---
AKT1	chr14	105246470	C	T	Heterozygous	1.1	17	SNP	Novel	3360	---
AKT1	chr14	105246479	G	A	Heterozygous	1.4	31	SNP	Novel	3429	---
AKT1	chr14	105246486	G	A	Heterozygous	1.5	50	SNP	Novel	3635	---
AKT1	chr14	105246501	G	A	Heterozygous	1.1	15	SNP	Novel	3874	---
AKT1	chr14	105246510	C	T	Heterozygous	1.4	38	SNP	Novel	3971	---
AKT1	chr14	105246553	C	T	Heterozygous	0.9	51	SNP	Novel	3949	---
MAP2K1	chr15	66727461	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MAP2K1	chr15	66727508	G	A	Heterozygous	0.8	27	SNP	Novel	3968	---
MAP2K1	chr15	66729141	G	A	Heterozygous	1.4	39	SNP	Novel	3982	---
MAP2K1	chr15	66729154	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
MAP2K1	chr15	66729173	G	A	Heterozygous	1.4	47	SNP	Novel	4000	---
MAP2K1	chr15	66729204	G	A	Heterozygous	1	13	SNP	Novel	4000	---
MAP2K1	chr15	66729206	G	A	Heterozygous	1.3	30	SNP	Novel	3998	---
MAP2K1	chr15	66729217	G	A	Heterozygous	1.2	24	SNP	Novel	3999	---
MAP2K1	chr15	66729224	G	A	Heterozygous	1.2	23	SNP	Novel	3999	---
MAP2K1	chr15	66774125	C	T	Heterozygous	1	14	SNP	Novel	3999	---
MAP2K1	chr15	66774131	G	A	Heterozygous	1	13	SNP	Hotspot	3996	COSM232755
MAP2K1	chr15	66774164	C	T	Heterozygous	1.3	175	SNP	Novel	3969	---
MAP2K1	chr15	66774193	C	T	Heterozygous	1.2	26	SNP	Novel	3956	---
IDH2	chr15	90631861	C	T	Heterozygous	1.4	50	SNP	Novel	4000	---
IDH2	chr15	90631864	G	A	Heterozygous	1	12	SNP	Novel	4000	---
IDH2	chr15	90631892	C	T	Heterozygous	1.5	58	SNP	Novel	4000	---
IDH2	chr15	90631903	C	T	Heterozygous	1.1	61	SNP	Novel	3958	---
IDH2	chr15	90631905	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
IDH2	chr15	90631907	C	T	Heterozygous	1.6	64	SNP	Novel	4000	---
IDH2	chr15	90631922	C	T	Heterozygous	1.3	301	SNP	Novel	3907	---
IDH2	chr15	90631934	C	T	Heterozygous	0.9	9	SNP	Hotspot	4000	COSM41590
IDH2	chr15	90631936	G	A	Heterozygous	1	10	SNP	Novel	4000	---
IDH2	chr15	90631950	G	A	Heterozygous	1.2	25	SNP	Novel	3996	---
ERBB2	chr17	37868189	C	T	Heterozygous	1.4	42	SNP	Novel	3988	---
ERBB2	chr17	37868197	G	A	Heterozygous	1.1	21	SNP	Novel	4000	---
ERBB2	chr17	37868223	G	A	Heterozygous	0.9	122	SNP	Novel	3957	---
ERBB2	chr17	37868240	G	A	Heterozygous	1	10	SNP	Novel	3999	---
ERBB2	chr17	37868255	G	A	Heterozygous	1	10	SNP	Novel	4000	---
ERBB2	chr17	37872393	C	T	Heterozygous	1.3	98	SNP	Novel	3919	---
ERBB2	chr17	37872411	C	T	Heterozygous	1.3	32	SNP	Novel	3985	---

ERBB2	chr17	37872423	C	T	Heterozygous	1	11	SNP	Novel	3981	---
ERBB2	chr17	37872428	C	T	Heterozygous	1.1	70	SNP	Novel	3948	---
ERBB2	chr17	37872441	C	T	Heterozygous	0.8	28	SNP	Novel	3872	---
ERBB2	chr17	37872450	C	T	Heterozygous	0.9	158	SNP	Novel	3882	---
ERBB2	chr17	37872463	C	T	Heterozygous	1.1	19	SNP	Novel	3975	---
ERBB2	chr17	37872476	C	T	Heterozygous	1	10	SNP	Novel	3893	---
ERBB2	chr17	37872482	C	T	Heterozygous	1.1	16	SNP	Novel	3976	---
ERBB2	chr17	37879672	C	T	Heterozygous	1	10	SNP	Novel	4000	---
ERBB2	chr17	37879680	C	T	Heterozygous	1	12	SNP	Novel	4000	---
ERBB2	chr17	37880284	C	T	Heterozygous	2.2	161	SNP	Novel	3995	---
ERBB2	chr17	37880308	C	T	Heterozygous	1	94	SNP	Novel	3969	---
ERBB2	chr17	37880326	C	T	Heterozygous	1	47	SNP	Novel	3964	---
ERBB2	chr17	37880967	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
ERBB2	chr17	37880974	C	T	Heterozygous	1.1	111	SNP	Novel	3961	---
ERBB2	chr17	37881031	G	A	Heterozygous	0.9	98	SNP	Novel	3980	---
ERBB2	chr17	37881039	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
ERBB2	chr17	37881354	G	A	Heterozygous	1.2	25	SNP	Novel	3999	---
ERBB2	chr17	37881416	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
ERBB2	chr17	37881418	G	A	Heterozygous	1.2	23	SNP	Novel	4000	---
ERBB2	chr17	37881446	G	A	Heterozygous	1.1	15	SNP	Novel	4000	---
ERBB2	chr17	37881453	G	A	Heterozygous	1.1	21	SNP	Novel	4000	---
ERBB2	chr17	37881533	C	T	Heterozygous	0.9	59	SNP	Novel	3930	---
ERBB2	chr17	37881541	C	T	Heterozygous	1.2	27	SNP	Novel	4000	---
ERBB2	chr17	37881599	C	T	Heterozygous	1.4	44	SNP	Novel	4000	---
ERBB2	chr17	37881601	C	T	Heterozygous	1	10	SNP	Novel	3998	---
ERBB2	chr17	37881608	C	T	Heterozygous	1	10	SNP	Novel	4000	---
ERBB2	chr17	37881634	C	T	Heterozygous	1	96	SNP	Novel	3951	---
ERBB2	chr17	37882845	G	A	Heterozygous	1	11	SNP	Novel	3995	---
ERBB2	chr17	37882895	C	T	Heterozygous	1	12	SNP	Novel	3998	---
ERBB2	chr17	37883216	G	A	Heterozygous	1.4	270	SNP	Novel	3938	---
ERBB2	chr17	37883240	G	A	Heterozygous	1	13	SNP	Novel	4000	---
GNA11	chr19	3114977	G	A	Heterozygous	2	231	SNP	Novel	3966	---
GNA11	chr19	3114996	G	A	Heterozygous	1.1	14	SNP	Novel	4000	---
GNA11	chr19	3115035	C	T	Heterozygous	1.2	25	SNP	Novel	3999	---
GNA11	chr19	3115078	C	T	Heterozygous	0.9	97	SNP	Novel	3923	---
MAP2K2	chr19	4117526	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MAP2K2	chr19	4117581	C	T	Heterozygous	1.1	16	SNP	Novel	3996	---
MAP2K2	chr19	4117603	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---

MAP2K2	chr19	4117608	G	A	Heterozygous	1.3	30	SNP	Novel	3999	---
JAK3	chr19	17945925	G	A	Heterozygous	1	91	SNP	Novel	3942	---
JAK3	chr19	17945960	G	A	Heterozygous	0.9	48	SNP	Novel	3944	---
JAK3	chr19	17945982	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
JAK3	chr19	17948753	C	T	Heterozygous	1.7	74	SNP	Novel	3997	---
JAK3	chr19	17948788	C	T	Heterozygous	1.5	52	SNP	Novel	3998	---
JAK3	chr19	17948813	C	T	Heterozygous	1.2	25	SNP	Novel	3997	---
JAK3	chr19	17948815	C	T	Heterozygous	1.3	30	SNP	Novel	3996	---
JAK3	chr19	17948818	C	T	Heterozygous	1.1	20	SNP	Novel	3997	---
JAK3	chr19	17948832	C	T	Heterozygous	1.3	246	SNP	Novel	3933	---
JAK3	chr19	17948849	G	A	Heterozygous	1.1	18	SNP	Novel	3983	---
JAK3	chr19	17948852	C	T	Heterozygous	1.4	47	SNP	Novel	3998	---
JAK3	chr19	17948859	C	T	Heterozygous	1.2	26	SNP	Novel	3953	---
JAK3	chr19	17948864	G	A	Heterozygous	1.1	18	SNP	Novel	3997	---
AR	chrX	66799227	G	A	Heterozygous	1.2	204	SNP	Novel	3947	---
AR	chrX	66799258	G	A	Heterozygous	1.1	18	SNP	Novel	3997	---
AR	chrX	66799285	C	T	Heterozygous	1.2	25	SNP	Novel	3999	---
AR	chrX	66866162	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
AR	chrX	66866172	G	A	Heterozygous	1.2	144	SNP	Novel	3965	---
AR	chrX	66866188	G	A	Heterozygous	1.5	174	SNP	Novel	3968	---
AR	chrX	66874550	C	T	Heterozygous	1.1	15	SNP	Novel	3421	---
AR	chrX	66874571	G	A	Heterozygous	1	12	SNP	Novel	3444	---
AR	chrX	66874579	C	T	Heterozygous	1	12	SNP	Novel	3448	---
AR	chrX	66874595	C	T	Heterozygous	1.2	24	SNP	Novel	3445	---
AR	chrX	66915231	C	T	Heterozygous	1.1	16	SNP	Novel	3998	---
AR	chrX	66915257	G	A	Heterozygous	1	10	SNP	Novel	3999	---
AR	chrX	66915260	C	T	Heterozygous	1.2	25	SNP	Novel	3999	---
AR	chrX	66915275	C	T	Heterozygous	1.6	62	SNP	Novel	3999	---
AR	chrX	66917683	C	T	Heterozygous	1	13	SNP	Novel	3253	---
AR	chrX	66917693	C	T	Heterozygous	1.3	26	SNP	Novel	3245	---
AR	chrX	66917696	C	T	Heterozygous	1.5	44	SNP	Novel	3245	---
AR	chrX	66917700	G	A	Heterozygous	1	10	SNP	Novel	3241	---
AR	chrX	66917729	C	T	Heterozygous	1	10	SNP	Novel	3239	---
AR	chrX	66938939	G	A	Heterozygous	1.1	16	SNP	Novel	3999	---
AR	chrX	66938974	C	T	Heterozygous	0.8	55	SNP	Novel	3973	---
AR	chrX	66938978	C	T	Heterozygous	1.5	55	SNP	Novel	3999	---
AR	chrX	66938987	C	T	Heterozygous	1	10	SNP	Novel	3999	---
AR	chrX	66939010	C	T	Heterozygous	1	12	SNP	Novel	3953	---

AR	chrX	66941729	C	T	Heterozygous	2.6	187	SNP	Novel	2997	---
AR	chrX	66941746	G	A	Heterozygous	1.2	25	SNP	Novel	3219	---
AR	chrX	66941759	C	T	Heterozygous	1.1	166	SNP	Novel	3554	---
AR	chrX	66941774	G	A	Heterozygous	1	13	SNP	Novel	3999	---
AR	chrX	66941784	G	A	Heterozygous	1.2	28	SNP	Novel	4000	---
AR	chrX	66941790	C	T	Heterozygous	1.1	15	SNP	Novel	3999	---
AR	chrX	66943521	C	T	Heterozygous	1	13	SNP	Novel	3998	---
AR	chrX	66945172	G	A	Heterozygous	1.1	15	SNP	Novel	3971	---
AR	chrX	66945213	G	A	Heterozygous	1.4	39	SNP	Novel	4000	---