

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202121

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

Tissue Type: Normal Adult Fetal Tumor Disease Cell line

Tissue Name: Lung

Donor Information:

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

Pathological Diagnosis: Adenocarcinoma

Tumor Size: diameter 5 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)

C202121

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174376	G	A	Heterozygous	1.6	11	SNP	Novel	183	---
MTOR	chr1	11174382	C	T	Heterozygous	7.1	78	SNP	Novel	184	---
MTOR	chr1	11174405	C	T	Heterozygous	1.6	11	SNP	Novel	187	---
MTOR	chr1	11174430	C	T	Heterozygous	1.5	11	SNP	Novel	194	---
MTOR	chr1	11174451	T	A	Heterozygous	3.6	33	SNP	Novel	197	---
MTOR	chr1	11188006	C	A	Heterozygous	2	22	SNP	Novel	396	---
MTOR	chr1	11188009	C	T	Heterozygous	1.5	38	SNP	Novel	398	---
MTOR	chr1	11188198	G	A	Heterozygous	10.2	28	SNP	Novel	49	---
MTOR	chr1	11217205	T	A	Heterozygous	3.7	53	SNP	Novel	353	---
MTOR	chr1	11217223	C	T	Heterozygous	1.6	14	SNP	Novel	364	---
MTOR	chr1	11217246	G	A	Heterozygous	2.9	38	SNP	Novel	384	---
MTOR	chr1	11217259	G	T	Heterozygous	1.6	14	SNP	Novel	372	---
MTOR	chr1	11217276	C	T	Heterozygous	2.1	23	SNP	Novel	381	---
MTOR	chr1	11217300	G	A	Heterozygous	2.1	23	SNP	Novel	381	---
JAK1	chr1	65310477	G	A	Heterozygous	1.8	13	SNP	Novel	164	---
JAK1	chr1	65310573	C	T	Heterozygous	3.6	31	SNP	Novel	166	---
NRAS	chr1	115256536	C	T	Heterozygous	1.3	13	SNP	Hotspot	776	COSM578
NRAS	chr1	115258724	T	C	Heterozygous	1.4	16	SNP	Novel	1035	---
NRAS	chr1	115258729	G	A	Heterozygous	1.8	34	SNP	Novel	1029	---
NRAS	chr1	115258752	T	G	Heterozygous	2.6	60	SNP	Novel	845	---
DDR2	chr1	162724592	T	C	Heterozygous	6.5	15	SNP	Novel	46	---
ALK	chr2	29416366	G	C	Homozygous	100	1454	SNP	Novel	78	---
ALK	chr2	29416458	G	C	Heterozygous	5.5	27	SNP	Novel	91	---
ALK	chr2	29416572	T	C	Homozygous	100	3397	SNP	Novel	177	---
ALK	chr2	29432734	C	T	Heterozygous	1.2	14	SNP	Novel	1200	---
ALK	chr2	29443617	C	T	Heterozygous	9.4	48	SNP	Novel	53	---
ALK	chr2	29445218	C	T	Heterozygous	2.2	19	SNP	Novel	223	---
ALK	chr2	29445275	C	T	Heterozygous	2.3	19	SNP	Novel	219	---
ALK	chr2	29445280	C	A	Heterozygous	4.9	71	SNP	Novel	205	---
ALK	chr2	29445312	C	T	Heterozygous	1.1	12	SNP	Novel	178	---
ALK	chr2	29445316	G	A	Heterozygous	1.6	11	SNP	Novel	187	---
ALK	chr2	29445423	C	T	Heterozygous	1.8	14	SNP	Novel	219	---
ALK	chr2	29445446	C	T	Heterozygous	2.6	21	SNP	Novel	194	---
ALK	chr2	29445452	A	G	Heterozygous	3.5	32	SNP	Novel	199	---
ALK	chr2	29445458	G	T	Homozygous	100	3859	SNP	Novel	197	---

IDH1	chr2	209113139	C	T	Heterozygous	3.3	25	SNP	Novel	152	---
ERBB4	chr2	212488762	T	C	Heterozygous	1.2	10	SNP	Novel	758	---
RAF1	chr3	12632420	T	C	Heterozygous	4.3	65	SNP	Novel	323	---
RAF1	chr3	12632424	C	T	Heterozygous	7.4	145	SNP	Novel	323	---
CTNNB1	chr3	41266050	C	T	Heterozygous	13.6	15	SNP	Novel	22	---
PIK3CA	chr3	178921483	C	T	Heterozygous	3.8	15	SNP	Novel	78	---
PIK3CA	chr3	178928070	C	T	Heterozygous	29.2	281	SNP	Novel	89	---
PIK3CA	chr3	178928107	C	T	Heterozygous	4.4	20	SNP	Novel	90	---
PIK3CA	chr3	178947841	G	A	Heterozygous	1.7	59	SNP	Novel	2687	---
FGFR3	chr4	1797669	C	A	Heterozygous	1.4	15	SNP	Novel	1168	---
FGFR3	chr4	1803571	C	T	Heterozygous	2.1	29	SNP	Novel	512	---
FGFR3	chr4	1803606	A	G	Heterozygous	10.4	513	SNP	Novel	662	---
FGFR3	chr4	1803616	C	T	Heterozygous	1.3	13	SNP	Novel	677	---
FGFR3	chr4	1803620	G	A	Heterozygous	1.3	13	SNP	Novel	687	---
FGFR3	chr4	1803625	G	A	Heterozygous	1.5	16	SNP	Novel	687	---
FGFR3	chr4	1803629	C	T	Heterozygous	1.5	16	SNP	Novel	686	---
FGFR3	chr4	1803647	C	T	Heterozygous	1.2	10	SNP	Novel	670	---
FGFR3	chr4	1805818	C	T	Heterozygous	1.5	12	SNP	Novel	260	---
FGFR3	chr4	1805857	T	-	Heterozygous	0.8	11	DEL	Novel	255	---
FGFR3	chr4	1805886	C	T	Heterozygous	3.6	36	SNP	Novel	220	---
FGFR3	chr4	1806093	G	A	Heterozygous	1.8	12	SNP	Novel	169	---
FGFR3	chr4	1806125	G	T	Heterozygous	2.8	39	SNP	Novel	181	---
FGFR3	chr4	1806136	G	A	Heterozygous	2.2	17	SNP	Novel	180	---
FGFR3	chr4	1806171	G	A	Heterozygous	4.8	45	SNP	Novel	167	---
FGFR3	chr4	1807877	G	A	Heterozygous	2.6	26	SNP	Novel	270	---
FGFR3	chr4	1807894	G	A	Homozygous	100	5535	SNP	Novel	267	---
FGFR3	chr4	1807896	C	T	Heterozygous	1.5	11	SNP	Novel	268	---
FGFR3	chr4	1807901	G	A	Heterozygous	2.6	26	SNP	Novel	270	---
FGFR3	chr4	1808356	A	C	Heterozygous	2.1	64	SNP	Novel	1636	---
PDGFRA	chr4	55104340	T	G	Heterozygous	13.8	21	SNP	Novel	29	---
PDGFRA	chr4	55121540	G	T	Heterozygous	9.2	162	SNP	Novel	249	---
PDGFRA	chr4	55121606	T	A	Heterozygous	1.7	13	SNP	Novel	233	---
PDGFRA	chr4	55133747	C	T	Heterozygous	3.8	15	SNP	Novel	80	---
PDGFRA	chr4	55144119	C	T	Heterozygous	1.5	14	SNP	Novel	460	---
PDGFRA	chr4	55144121	C	T	Heterozygous	1.3	11	SNP	Novel	459	---
PDGFRA	chr4	55144157	A	C	Heterozygous	2	26	SNP	Novel	557	---
PDGFRA	chr4	55144165	C	T	Heterozygous	1.3	11	SNP	Novel	556	---
PDGFRA	chr4	55144178	G	A	Heterozygous	3.3	64	SNP	Novel	548	---

PDGFRA	chr4	55152067	G	A	Heterozygous	6.5	35	SNP	Novel	93	---
PDGFRA	chr4	55161942	C	T	Heterozygous	23.6	723	SNP	Novel	292	---
KIT	chr4	55566266	G	A	Heterozygous	81.6	574	SNP	Novel	49	---
KIT	chr4	55589731	C	T	Heterozygous	1.4	14	SNP	Novel	643	---
KIT	chr4	55589749	G	A	Heterozygous	1.2	11	SNP	Novel	654	---
KIT	chr4	55589790	C	T	Heterozygous	1.2	10	SNP	Novel	667	---
KIT	chr4	55589796	C	T	Heterozygous	1.2	10	SNP	Novel	666	---
KIT	chr4	55598880	T	C	Heterozygous	2.5	18	SNP	Novel	158	---
KIT	chr4	55598903	A	T	Heterozygous	3.1	25	SNP	Novel	159	---
ROS1	chr6	117638353	C	T	Heterozygous	3.3	14	SNP	Novel	90	---
ROS1	chr6	117638411	C	T	Heterozygous	2.8	14	SNP	Novel	106	---
ROS1	chr6	117641030	C	G	Heterozygous	9.1	15	SNP	Novel	33	---
ROS1	chr6	117641075	C	T	Heterozygous	4.9	10	SNP	Novel	41	---
ESR1	chr6	152419964	G	A	Heterozygous	2.2	20	SNP	Novel	275	---
ESR1	chr6	152419969	C	T	Heterozygous	21.2	618	SNP	Novel	274	---
EGFR	chr7	55199018	G	A	Heterozygous	4.1	15	SNP	Novel	74	---
EGFR	chr7	55219909	G	A	Heterozygous	1.6	43	SNP	Novel	307	---
EGFR	chr7	55219929	C	T	Heterozygous	14	368	SNP	Novel	322	---
EGFR	chr7	55219937	C	T	Heterozygous	1.5	13	SNP	Novel	326	---
EGFR	chr7	55219970	T	C	Heterozygous	1.4	10	SNP	Novel	288	---
EGFR	chr7	55219978	G	A	Heterozygous	6.1	112	SNP	Novel	277	---
EGFR	chr7	55221822	C	T	Heterozygous	3.4	20	SNP	Hotspot	119	COSM21687
EGFR	chr7	55221829	C	T	Heterozygous	3.7	20	SNP	Novel	109	---
EGFR	chr7	55221863	G	T	Heterozygous	19.8	179	SNP	Novel	96	---
EGFR	chr7	55221867	C	T	Heterozygous	20.8	185	SNP	Novel	96	---
EGFR	chr7	55221893	C	T	Heterozygous	2.8	10	SNP	Novel	72	---
EGFR	chr7	55228043	C	T	Heterozygous	85.4	494	SNP	Novel	41	---
EGFR	chr7	55233011	C	T	Heterozygous	1.1	11	SNP	Novel	1851	---
EGFR	chr7	55233017	C	T	Heterozygous	3	164	SNP	Novel	1812	---
EGFR	chr7	55241710	T	G	Heterozygous	6.4	206	SNP	Novel	580	---
EGFR	chr7	55241728	G	A	Heterozygous	1.7	21	SNP	Novel	575	---
EGFR	chr7	55249071	C	T	Heterozygous	6.6	21	SNP	Hotspot	61	COSM6240
EGFR	chr7	55249099	G	T	Heterozygous	10	35	SNP	Novel	60	---
EGFR	chr7	55259469	G	T	Heterozygous	4.6	27	SNP	Novel	109	---
MET	chr7	116340224	G	A	Heterozygous	1.7	14	SNP	Novel	292	---
MET	chr7	116340262	A	G	Heterozygous	27.9	883	SNP	Novel	287	---
MET	chr7	116340271	T	G	Heterozygous	1.7	14	SNP	Novel	294	---
MET	chr7	116340285	G	A	Heterozygous	1.4	11	SNP	Novel	276	---

MET	chr7	116398763	C	T	Heterozygous	22.1	648	SNP	Novel	272	---
MET	chr7	116398769	C	T	Heterozygous	1.4	17	SNP	Novel	277	---
MET	chr7	116423439	C	T	Heterozygous	1.3	12	SNP	Novel	614	---
MET	chr7	116423449	G	A	Heterozygous	1.9	26	SNP	Novel	630	---
MET	chr7	116434499	T	G	Heterozygous	8.7	22	SNP	Novel	46	---
MET	chr7	116434504	T	C	Heterozygous	23.1	98	SNP	Novel	52	---
SMO	chr7	128845502	C	T	Heterozygous	3.9	15	SNP	Novel	77	---
SMO	chr7	128846393	-	G	Heterozygous	1.4	28	INS	Novel	2020	---
SMO	chr7	128846395	G	C	Heterozygous	9.5	1334	SNP	Novel	2014	---
SMO	chr7	128849129	G	A	Heterozygous	2.8	10	SNP	Novel	71	---
SMO	chr7	128850363	G	A	Heterozygous	1.3	11	SNP	Novel	633	---
BRAF	chr7	140434402	G	A	Heterozygous	8.9	98	SNP	Novel	146	---
BRAF	chr7	140434416	C	T	Heterozygous	3.4	26	SNP	Novel	147	---
BRAF	chr7	140434448	A	G	Heterozygous	2.5	48	SNP	Novel	160	---
BRAF	chr7	140434452	G	A	Heterozygous	1.7	12	SNP	Novel	172	---
BRAF	chr7	140434483	G	T	Heterozygous	1.9	11	SNP	Novel	160	---
BRAF	chr7	140476936	G	A	Heterozygous	43.6	4697	SNP	Novel	775	---
BRAF	chr7	140481389	C	T	Heterozygous	0.8	25	SNP	Novel	724	---
BRAF	chr7	140481438	A	G	Heterozygous	1.9	27	SNP	Novel	616	---
BRAF	chr7	140494244	G	A	Heterozygous	2.5	25	SNP	Novel	277	---
BRAF	chr7	140494255	G	A	Heterozygous	1.2	18	SNP	Novel	252	---
BRAF	chr7	140500238	G	A	Heterozygous	1.3	17	SNP	Novel	1483	---
BRAF	chr7	140501253	A	G	Heterozygous	4.3	134	SNP	Novel	720	---
BRAF	chr7	140507801	C	T	Heterozygous	1.3	10	SNP	Novel	388	---
GNAQ	chr9	80412481	G	A	Heterozygous	1.3	11	SNP	Novel	546	---
GNAQ	chr9	80412496	A	G	Heterozygous	1.3	11	SNP	Novel	556	---
RET	chr10	43609124	G	T	Heterozygous	14.4	228	SNP	Novel	194	---
RET	chr10	43609150	A	G	Heterozygous	33.2	758	SNP	Novel	196	---
RET	chr10	43609917	C	T	Heterozygous	3.6	22	SNP	Novel	83	---
RET	chr10	43609941	C	T	Heterozygous	4.8	20	SNP	Novel	84	---
RET	chr10	43613809	G	A	Heterozygous	6.5	207	SNP	Novel	552	---
RET	chr10	43613871	C	T	Heterozygous	2	26	SNP	Novel	545	---
RET	chr10	43613873	G	A	Heterozygous	1.8	22	SNP	Novel	542	---
RET	chr10	43617360	T	G	Heterozygous	6.1	15	SNP	Novel	49	---
FGFR2	chr10	123247528	C	T	Heterozygous	1.5	10	SNP	Novel	202	---
FGFR2	chr10	123257997	C	T	Heterozygous	4.4	44	SNP	Novel	204	---
FGFR2	chr10	123274771	T	A	Heterozygous	5.2	20	SNP	Novel	77	---
FGFR2	chr10	123274819	T	C	Heterozygous	6.8	27	SNP	Novel	73	---

FGFR2	chr10	123274826	T	C	Heterozygous	4.5	15	SNP	Novel	66	---
FGFR2	chr10	123276936	G	A	Heterozygous	4.5	10	SNP	Novel	44	---
FGFR2	chr10	123279608	T	C	Heterozygous	1.5	12	SNP	Novel	263	---
FGFR2	chr10	123279644	G	A	Heterozygous	1.9	16	SNP	Novel	270	---
FGFR2	chr10	123279684	-	C	Heterozygous	5.5	102	INS	Novel	327	---
FGFR2	chr10	123279711	G	A	Heterozygous	3.4	42	SNP	Novel	292	---
FGFR2	chr10	123284074	C	T	Heterozygous	3.8	20	SNP	Novel	104	---
FGFR2	chr10	123284085	G	A	Heterozygous	2.9	14	SNP	Novel	105	---
FGFR2	chr10	123284129	C	T	Heterozygous	7.4	35	SNP	Novel	81	---
FGFR2	chr10	123312192	T	G	Heterozygous	3.8	15	SNP	Novel	78	---
FGFR2	chr10	123354411	G	A	Heterozygous	6.8	444	SNP	Novel	1135	---
HRAS	chr11	534270	G	A	Heterozygous	1.9	16	SNP	Novel	269	---
HRAS	chr11	534289	C	T	Heterozygous	2.3	23	SNP	Hotspot	258	COSM480
HRAS	chr11	534300	A	T	Heterozygous	5.7	77	SNP	Novel	246	---
HRAS	chr11	534304	C	T	Heterozygous	2.4	22	SNP	Novel	248	---
KRAS	chr12	25380277	G	A	Heterozygous	1.3	11	SNP	Novel	528	---
KRAS	chr12	25380289	C	T	Heterozygous	1.2	11	SNP	Novel	560	---
KRAS	chr12	25380337	T	G	Heterozygous	7.4	239	SNP	Novel	528	---
KRAS	chr12	25380362	C	T	Heterozygous	2.1	27	SNP	Novel	469	---
KRAS	chr12	25386049	T	C	Heterozygous	13.5	105	SNP	Novel	96	---
KRAS	chr12	25386054	C	G	Heterozygous	20.6	286	SNP	Novel	131	---
KRAS	chr12	25386060	C	T	Heterozygous	2.1	14	SNP	Novel	143	---
KRAS	chr12	25386063	C	A	Homozygous	100	1484	SNP	Novel	77	---
KRAS	chr12	25386069	T	A	Heterozygous	2.7	22	SNP	Novel	187	---
KRAS	chr12	25386128	A	C	Heterozygous	13.8	236	SNP	Novel	210	---
KRAS	chr12	25387265	A	G	Heterozygous	26.8	228	SNP	Novel	82	---
KRAS	chr12	25387273	C	T	Heterozygous	5.9	27	SNP	Novel	85	---
KRAS	chr12	25391189	-	AT	Heterozygous	2	12	INS	Novel	147	---
KRAS	chr12	25398208	C	T	Heterozygous	6.6	118	SNP	Novel	302	---
KRAS	chr12	25398228	C	T	Heterozygous	1.7	15	SNP	Novel	357	---
KRAS	chr12	25398241	A	G	Heterozygous	7.7	206	SNP	Novel	415	---
KRAS	chr12	25398259	C	T	Heterozygous	5.3	114	SNP	Novel	414	---
ERBB3	chr12	56477609	T	C	Heterozygous	1.6	15	SNP	Novel	450	---
ERBB3	chr12	56477681	C	A	Heterozygous	3.4	63	SNP	Novel	502	---
ERBB3	chr12	56477694	A	T	Heterozygous	33.6	1873	SNP	Novel	458	---
ERBB3	chr12	56477698	C	A	Heterozygous	4.3	84	SNP	Novel	444	---
ERBB3	chr12	56478844	C	T	Heterozygous	2.3	36	SNP	Novel	618	---
ERBB3	chr12	56478860	C	T	Heterozygous	1.8	22	SNP	Novel	626	---

ERBB3	chr12	56478861	G	A	Heterozygous	2.2	36	SNP	Novel	625	---
ERBB3	chr12	56478871	G	A	Heterozygous	1.5	15	SNP	Novel	620	---
ERBB3	chr12	56478890	G	A	Heterozygous	2.1	30	SNP	Novel	565	---
ERBB3	chr12	56478899	G	T	Heterozygous	1.3	11	SNP	Novel	551	---
ERBB3	chr12	56481638	C	T	Heterozygous	3.2	14	SNP	Novel	95	---
ERBB3	chr12	56481667	C	T	Heterozygous	2.9	23	SNP	Novel	102	---
ERBB3	chr12	56481693	G	A	Heterozygous	3.8	20	SNP	Novel	106	---
ERBB3	chr12	56482315	C	T	Heterozygous	8.5	782	SNP	Novel	1403	---
ERBB3	chr12	56482323	C	T	Heterozygous	1.5	25	SNP	Novel	1412	---
ERBB3	chr12	56482351	C	T	Heterozygous	1.4	19	SNP	Novel	1400	---
ERBB3	chr12	56482528	G	A	Heterozygous	4.1	20	SNP	Novel	97	---
ERBB3	chr12	56482556	G	A	Heterozygous	3.1	14	SNP	Novel	98	---
ERBB3	chr12	56482581	C	T	Heterozygous	8.1	51	SNP	Novel	99	---
CDK4	chr12	58142123	G	A	Heterozygous	31	67	SNP	Novel	29	---
CDK4	chr12	58142245	C	T	Heterozygous	2.6	23	SNP	Novel	231	---
CDK4	chr12	58142283	C	T	Heterozygous	2.1	18	SNP	Novel	238	---
CDK4	chr12	58142918	T	A	Heterozygous	1.2	11	SNP	Novel	827	---
CDK4	chr12	58142947	C	T	Heterozygous	1.7	72	SNP	Novel	885	---
CDK4	chr12	58142949	C	T	Heterozygous	1.2	12	SNP	Novel	892	---
CDK4	chr12	58142959	C	T	Heterozygous	1.6	22	SNP	Novel	885	---
CDK4	chr12	58142964	C	T	Heterozygous	1.1	10	SNP	Novel	870	---
CDK4	chr12	58142965	C	T	Heterozygous	1.2	10	SNP	Novel	869	---
CDK4	chr12	58143297	G	A	Heterozygous	1.4	13	SNP	Novel	417	---
CDK4	chr12	58143328	G	A	Heterozygous	1.2	19	SNP	Novel	323	---
CDK4	chr12	58144456	T	C	Heterozygous	3.6	26	SNP	Novel	137	---
CDK4	chr12	58144632	A	G	Heterozygous	4.3	20	SNP	Novel	93	---
CDK4	chr12	58144921	C	T	Heterozygous	3.7	70	SNP	Novel	490	---
CDK4	chr12	58144940	C	T	Heterozygous	3.4	61	SNP	Novel	465	---
CDK4	chr12	58144946	C	T	Heterozygous	3.4	61	SNP	Novel	466	---
CDK4	chr12	58144956	A	C	Heterozygous	1.8	19	SNP	Novel	443	---
CDK4	chr12	58144962	C	T	Heterozygous	3.9	73	SNP	Novel	431	---
CDK4	chr12	58144972	C	T	Heterozygous	4.2	81	SNP	Novel	426	---
CDK4	chr12	58145383	G	A	Heterozygous	2.4	18	SNP	Novel	164	---
CDK4	chr12	58145472	G	A	Heterozygous	1.9	13	SNP	Novel	162	---
CDK4	chr12	58145715	C	T	Heterozygous	12.3	62	SNP	Novel	73	---
CDK4	chr12	58145763	A	C	Heterozygous	6.7	42	SNP	Novel	105	---
CDK4	chr12	58145973	G	A	Heterozygous	1.1	51	SNP	Novel	802	---
CDK4	chr12	58146005	C	T	Heterozygous	1.7	51	SNP	Novel	781	---

AKT1	chr14	105246522	G	A	Heterozygous	2.6	14	SNP	Novel	117	---
AKT1	chr14	105246561	C	T	Heterozygous	2.3	14	SNP	Novel	128	---
AKT1	chr14	105246563	T	C	Heterozygous	20.3	271	SNP	Novel	128	---
MAP2K1	chr15	66727450	C	A	Heterozygous	26.3	416	SNP	Novel	137	---
MAP2K1	chr15	66727473	G	A	Heterozygous	1.9	13	SNP	Novel	154	---
MAP2K1	chr15	66727475	A	G	Heterozygous	11.2	132	SNP	Novel	161	---
MAP2K1	chr15	66727483	G	A	Heterozygous	4.8	45	SNP	Novel	166	---
MAP2K1	chr15	66727491	G	A	Heterozygous	3.6	30	SNP	Novel	167	---
MAP2K1	chr15	66727520	G	A	Heterozygous	3.2	25	SNP	Novel	155	---
MAP2K1	chr15	66729174	G	T	Heterozygous	7.3	35	SNP	Novel	82	---
MAP2K1	chr15	66729179	-	C	Heterozygous	7.3	33	INS	Novel	82	---
MAP2K1	chr15	66729193	A	T	Heterozygous	18.7	229	SNP	Novel	123	---
MAP2K1	chr15	66774105	C	T	Heterozygous	3.6	26	SNP	Novel	137	---
MAP2K1	chr15	66774154	G	T	Heterozygous	19.6	266	SNP	Novel	148	---
ERBB2	chr17	37868233	C	T	Heterozygous	4.4	20	SNP	Novel	90	---
ERBB2	chr17	37872426	C	T	Heterozygous	3.3	25	SNP	Novel	153	---
ERBB2	chr17	37872433	C	T	Heterozygous	22.1	320	SNP	Novel	154	---
ERBB2	chr17	37872464	C	T	Heterozygous	2	15	SNP	Novel	198	---
ERBB2	chr17	37872476	C	T	Heterozygous	17.3	298	SNP	Novel	179	---
ERBB2	chr17	37879621	G	T	Heterozygous	2.4	139	SNP	Novel	2639	---
ERBB2	chr17	37879630	G	T	Heterozygous	1.1	16	SNP	Novel	2576	---
ERBB2	chr17	37879672	C	A	Heterozygous	1.3	28	SNP	Novel	2611	---
ERBB2	chr17	37879684	A	G	Heterozygous	1.1	14	SNP	Novel	2635	---
ERBB2	chr17	37879860	G	A	Heterozygous	1.1	11	SNP	Novel	1142	---
ERBB2	chr17	37879883	T	A	Heterozygous	6.1	389	SNP	Novel	1217	---
ERBB2	chr17	37880321	C	G	Heterozygous	16.7	45	SNP	Novel	42	---
ERBB2	chr17	37880968	C	T	Heterozygous	6	207	SNP	Novel	645	---
ERBB2	chr17	37881004	G	T	Heterozygous	1.3	11	SNP	Novel	628	---
ERBB2	chr17	37881021	C	T	Heterozygous	2	30	SNP	Novel	636	---
ERBB2	chr17	37881056	G	A	Heterozygous	4.2	109	SNP	Novel	618	---
ERBB2	chr17	37881537	C	T	Heterozygous	1.6	11	SNP	Novel	186	---
ERBB2	chr17	37881544	C	T	Heterozygous	1.6	11	SNP	Novel	187	---
ERBB2	chr17	37883151	G	C	Heterozygous	4.8	15	SNP	Novel	63	---
GNA11	chr19	3115099	G	T	Heterozygous	23.8	76	SNP	Novel	42	---
GNA11	chr19	3118912	G	A	Heterozygous	2.1	25	SNP	Novel	429	---
GNA11	chr19	3118932	G	A	Heterozygous	1.9	20	SNP	Novel	429	---
GNA11	chr19	3118935	G	A	Heterozygous	5.9	137	SNP	Novel	404	---
GNA11	chr19	3118964	G	A	Heterozygous	2.6	35	SNP	Novel	419	---

JAK3	chr19	17945920	C	T	Heterozygous	38.5	274	SNP	Novel	65	---
JAK3	chr19	17948823	C	T	Heterozygous	5.2	15	SNP	Novel	58	---
JAK3	chr19	17948842	T	A	Heterozygous	21.8	96	SNP	Novel	55	---
JAK3	chr19	17949164	T	A	Heterozygous	2.5	164	SNP	Hotspot	2850	COSM48455
AR	chrX	66776209	G	A	Heterozygous	2.4	14	SNP	Novel	125	---
AR	chrX	66906875	G	-	Heterozygous	3.1	52	DEL	Novel	482	---
AR	chrX	66906916	A	T	Heterozygous	2.2	29	SNP	Novel	501	---
AR	chrX	66939027	C	T	Heterozygous	8.7	10	SNP	Novel	23	---
AR	chrX	66943574	C	T	Heterozygous	1.2	13	SNP	Novel	966	---