

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202101

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: 57 year(s) old

Pathological Diagnosis: Adenocarcinoma

Tumor Size: 5 x 5 x 5 cm

Location: lung

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)

C202101

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11188015	G	A	Heterozygous	5.2	20	SNP	Novel	77	---
MTOR	chr1	11188024	C	A	Heterozygous	5.1	20	SNP	Novel	78	---
MTOR	chr1	11188028	G	A	Heterozygous	3.8	15	SNP	Novel	78	---
MTOR	chr1	11188058	C	T	Heterozygous	5.1	20	SNP	Novel	78	---
MTOR	chr1	11188083	G	A	Heterozygous	6.4	27	SNP	Novel	78	---
MTOR	chr1	11217288	C	T	Heterozygous	7.3	15	SNP	Novel	41	---
JAK1	chr1	65311176	G	A	Heterozygous	1.7	21	SNP	Novel	722	---
JAK1	chr1	65311187	C	T	Heterozygous	2.2	39	SNP	Novel	723	---
JAK1	chr1	65311196	C	T	Heterozygous	2.7	59	SNP	Novel	729	---
JAK1	chr1	65311199	G	A	Heterozygous	4.3	131	SNP	Novel	729	---
JAK1	chr1	65311209	G	A	Heterozygous	3.5	97	SNP	Novel	770	---
JAK1	chr1	65311219	G	A	Heterozygous	1.7	23	SNP	Novel	768	---
JAK1	chr1	65311231	C	T	Heterozygous	2.9	64	SNP	Novel	769	---
JAK1	chr1	65311232	T	C	Heterozygous	2.6	55	SNP	Novel	769	---
JAK1	chr1	65311242	C	T	Heterozygous	2.6	56	SNP	Novel	768	---
JAK1	chr1	65311246	G	A	Heterozygous	2.2	41	SNP	Novel	763	---
JAK1	chr1	65311251	G	A	Heterozygous	1.6	20	SNP	Novel	758	---
JAK1	chr1	65312347	C	T	Heterozygous	15.8	15	SNP	Novel	19	---
NRAS	chr1	115256517	C	T	Heterozygous	6.1	60	SNP	Novel	165	---
NRAS	chr1	115256532	C	T	Heterozygous	6.7	68	SNP	Novel	165	---
NRAS	chr1	115256536	C	T	Heterozygous	4.2	38	SNP	Hotspot	165	COSM578
NRAS	chr1	115256562	G	A	Heterozygous	7.7	81	SNP	Novel	155	---
ALK	chr2	29420425	C	T	Heterozygous	4.5	20	SNP	Novel	88	---
ALK	chr2	29420432	G	A	Heterozygous	5.6	27	SNP	Novel	89	---
ALK	chr2	29420443	G	A	Heterozygous	2.2	10	SNP	Novel	89	---
ALK	chr2	29420453	G	A	Heterozygous	4.5	20	SNP	Novel	89	---
ALK	chr2	29432668	C	T	Heterozygous	1.9	22	SNP	Novel	463	---
ALK	chr2	29432678	G	A	Heterozygous	1.5	14	SNP	Novel	466	---
ALK	chr2	29432682	CC	TT	Heterozygous	1.7	17	MNP	Novel	475	---
ALK	chr2	29432705	G	A	Heterozygous	1.5	14	SNP	Novel	474	---
ALK	chr2	29432707	C	T	Heterozygous	2.5	37	SNP	Novel	474	---
ALK	chr2	29445220	G	A	Heterozygous	9.1	21	SNP	Novel	44	---
ALK	chr2	29445227	C	T	Heterozygous	15.9	45	SNP	Novel	44	---
ALK	chr2	29445248	C	T	Heterozygous	15.9	45	SNP	Novel	44	---
ALK	chr2	29445423	C	T	Heterozygous	6.4	15	SNP	Novel	47	---

ALK	chr2	29445425	G	A	Heterozygous	6.4	15	SNP	Novel	47	---
ALK	chr2	29445458	G	T	Heterozygous	36.6	137	SNP	Novel	41	---
ERBB4	chr2	212488736	G	A	Heterozygous	4.9	41	SNP	Novel	144	---
ERBB4	chr2	212488760	G	A	Heterozygous	5.8	50	SNP	Novel	137	---
RAF1	chr3	12632440	C	T	Heterozygous	12.5	28	SNP	Novel	40	---
RAF1	chr3	12645677	G	A	Heterozygous	4.6	94	SNP	Novel	438	---
RAF1	chr3	12645701	CC	TT	Heterozygous	3	46	MNP	Novel	436	---
RAF1	chr3	12645708	C	T	Heterozygous	1.4	12	SNP	Novel	435	---
RAF1	chr3	12645712	G	C	Heterozygous	4.8	103	SNP	Novel	434	---
RAF1	chr3	12645718	G	A	Heterozygous	1.8	20	SNP	Novel	433	---
RAF1	chr3	12645734	G	A	Heterozygous	2.6	35	SNP	Novel	419	---
PIK3CA	chr3	178947824	C	T	Heterozygous	1.2	10	SNP	Novel	566	---
PIK3CA	chr3	178947839	G	A	Heterozygous	2.6	45	SNP	Novel	569	---
PIK3CA	chr3	178947874	C	T	Heterozygous	4.1	97	SNP	Novel	564	---
PIK3CA	chr3	178947881	G	A	Heterozygous	3.2	63	SNP	Novel	562	---
PIK3CA	chr3	178947885	C	T	Heterozygous	2.5	40	SNP	Novel	562	---
PIK3CA	chr3	178947891	G	A	Heterozygous	2.1	51	SNP	Novel	560	---
FGFR3	chr4	1797672	G	A	Heterozygous	3.3	59	SNP	Novel	480	---
FGFR3	chr4	1797695	C	T	Heterozygous	4.6	320	SNP	Novel	482	---
FGFR3	chr4	1797702	C	T	Heterozygous	1.8	21	SNP	Novel	487	---
FGFR3	chr4	1797708	C	T	Heterozygous	3.3	91	SNP	Novel	488	---
FGFR3	chr4	1797715	C	A	Heterozygous	1.7	17	SNP	Novel	480	---
FGFR3	chr4	1797747	C	T	Heterozygous	3.8	73	SNP	Novel	470	---
FGFR3	chr4	1797748	C	T	Heterozygous	2.3	32	SNP	Novel	470	---
FGFR3	chr4	1803564	C	T	Heterozygous	1.2	9	SNP	Hotspot	243	COSM714
FGFR3	chr4	1803568	C	T	Heterozygous	2.1	17	SNP	Novel	243	---
FGFR3	chr4	1803577	G	A	Heterozygous	2.9	28	SNP	Novel	244	---
FGFR3	chr4	1803587	G	A	Heterozygous	4.5	54	SNP	Novel	244	---
FGFR3	chr4	1803606	A	T	Heterozygous	1.6	12	SNP	Novel	251	---
FGFR3	chr4	1803615	G	A	Heterozygous	5.1	68	SNP	Novel	253	---
FGFR3	chr4	1803626	C	T	Heterozygous	2.4	21	SNP	Novel	255	---
FGFR3	chr4	1803647	C	T	Heterozygous	1.6	12	SNP	Novel	248	---
FGFR3	chr4	1805822	C	T	Heterozygous	5.3	34	SNP	Novel	114	---
FGFR3	chr4	1805832	G	C	Heterozygous	4.3	27	SNP	Novel	115	---
FGFR3	chr4	1805864	C	T	Heterozygous	4.2	20	SNP	Novel	96	---
FGFR3	chr4	1806112	C	T	Heterozygous	3.8	15	SNP	Novel	79	---
FGFR3	chr4	1806136	G	A	Heterozygous	5.1	20	SNP	Novel	79	---
FGFR3	chr4	1806148	G	A	Heterozygous	4.1	15	SNP	Novel	73	---

FGFR3	chr4	1806153	C	T	Heterozygous	5.6	20	SNP	Hotspot	72	COSM1737909
FGFR3	chr4	1806176	C	T	Heterozygous	4.1	15	SNP	Novel	73	---
FGFR3	chr4	1807834	G	A	Heterozygous	7.1	75	SNP	Novel	168	---
FGFR3	chr4	1807851	G	A	Heterozygous	7.5	81	SNP	Novel	173	---
FGFR3	chr4	1807858	C	T	Heterozygous	1.7	12	SNP	Novel	173	---
FGFR3	chr4	1807867	G	A	Heterozygous	4.6	43	SNP	Novel	175	---
FGFR3	chr4	1807874	C	T	Heterozygous	1.7	12	SNP	Novel	172	---
FGFR3	chr4	1807894	G	A	Homozygous	100	3283	SNP	Novel	172	---
FGFR3	chr4	1807901	G	A	Heterozygous	8.1	90	SNP	Novel	173	---
FGFR3	chr4	1807910	G	A	Heterozygous	2.3	17	SNP	Novel	175	---
FGFR3	chr4	1807916	G	A	Heterozygous	1.7	12	SNP	Novel	175	---
FGFR3	chr4	1808315	G	A	Heterozygous	2.9	49	SNP	Novel	517	---
FGFR3	chr4	1808320	CCC	TCT	Heterozygous	1.3	12	MNP	Novel	520	---
FGFR3	chr4	1808337	C	T	Heterozygous	1.9	23	SNP	Novel	525	---
FGFR3	chr4	1808343	G	A	Heterozygous	2.5	37	SNP	Novel	528	---
FGFR3	chr4	1808363	G	A	Heterozygous	2.4	37	SNP	Novel	537	---
FGFR3	chr4	1808367	G	A	Heterozygous	2	27	SNP	Novel	537	---
FGFR3	chr4	1808385	A	G	Heterozygous	1.7	18	SNP	Novel	538	---
FGFR3	chr4	1808388	C	T	Heterozygous	4.1	93	SNP	Novel	537	---
FGFR3	chr4	1808399	C	T	Heterozygous	1.5	15	SNP	Novel	537	---
PDGFRA	chr4	55144117	C	T	Heterozygous	3.1	14	SNP	Novel	97	---
PDGFRA	chr4	55144122	C	T	Heterozygous	9.1	61	SNP	Novel	99	---
PDGFRA	chr4	55144163	C	T	Heterozygous	3.4	20	SNP	Novel	117	---
PDGFRA	chr4	55144179	C	T	Heterozygous	3.4	20	SNP	Novel	117	---
KIT	chr4	55589756	C	T	Heterozygous	5.1	34	SNP	Novel	117	---
KIT	chr4	55589763	C	T	Heterozygous	2.6	14	SNP	Novel	117	---
KIT	chr4	55589777	G	A	Heterozygous	3.4	20	SNP	Novel	118	---
KIT	chr4	55589806	G	A	Heterozygous	6.8	51	SNP	Novel	117	---
KIT	chr4	55589812	G	A	Heterozygous	4.3	27	SNP	Novel	117	---
KIT	chr4	55592225	C	-	Heterozygous	7.3	15	DEL	Novel	41	---
ESR1	chr6	152419917	C	T	Heterozygous	20	29	SNP	Novel	25	---
ESR1	chr6	152419994	G	A	Heterozygous	8.7	10	SNP	Novel	23	---
EGFR	chr7	55198969	C	-	Heterozygous	10	11	DEL	Novel	20	---
EGFR	chr7	55211050	G	A	Heterozygous	1.9	16	SNP	Novel	270	---
EGFR	chr7	55211111	C	T	Heterozygous	2.3	21	SNP	Novel	264	---
EGFR	chr7	55211118	G	A	Heterozygous	2	17	SNP	Novel	251	---
EGFR	chr7	55221825	C	T	Heterozygous	9.4	15	SNP	Novel	32	---
EGFR	chr7	55221856	C	T	Heterozygous	6.5	10	SNP	Novel	31	---

EGFR	chr7	55221862	G	A	Heterozygous	32.3	78	SNP	Novel	31	---
EGFR	chr7	55221863	G	T	Heterozygous	9.7	15	SNP	Novel	31	---
EGFR	chr7	55221867	C	T	Heterozygous	9.7	15	SNP	Novel	31	---
EGFR	chr7	55232966	G	A	Heterozygous	1.9	22	SNP	Novel	472	---
EGFR	chr7	55232970	C	T	Heterozygous	4.4	93	SNP	Novel	477	---
EGFR	chr7	55232972	G	A	Heterozygous	2.9	47	SNP	Novel	477	---
EGFR	chr7	55232977	C	T	Heterozygous	2.1	26	SNP	Novel	482	---
EGFR	chr7	55232990	C	T	Heterozygous	1.9	24	SNP	Novel	588	---
EGFR	chr7	55232995	G	A	Heterozygous	2.2	34	SNP	Novel	585	---
EGFR	chr7	55241648	C	T	Heterozygous	3.2	20	SNP	Novel	124	---
EGFR	chr7	55241664	G	A	Heterozygous	5.8	50	SNP	Novel	137	---
EGFR	chr7	55241701	G	A	Heterozygous	4	26	SNP	Novel	124	---
EGFR	chr7	55241703	G	A	Heterozygous	4.8	34	SNP	Novel	124	---
EGFR	chr7	55259437	G	A	Heterozygous	10	15	SNP	Novel	30	---
EGFR	chr7	55259505	G	A	Heterozygous	17.1	37	SNP	Novel	35	---
EGFR	chr7	55259515	T	G	Heterozygous	25.7	66	SNP	Hotspot	35	COSM6224
EGFR	chr7	55259525	G	A	Heterozygous	17.1	37	SNP	Novel	35	---
EGFR	chr7	55259527	T	C	Heterozygous	17.1	37	SNP	Novel	35	---
MET	chr7	116340224	G	A	Heterozygous	8.3	60	SNP	Novel	109	---
MET	chr7	116340239	C	T	Heterozygous	5.5	34	SNP	Novel	109	---
MET	chr7	116340297	C	T	Heterozygous	2.9	14	SNP	Novel	105	---
MET	chr7	116398763	C	T	Heterozygous	37.9	274	SNP	Novel	66	---
MET	chr7	116423412	G	A	Heterozygous	4.7	55	SNP	Novel	232	---
MET	chr7	116423442	C	T	Heterozygous	6.4	89	SNP	Novel	236	---
MET	chr7	116423461	C	A	Heterozygous	1.6	12	SNP	Novel	247	---
MET	chr7	116423472	G	A	Heterozygous	1.6	12	SNP	Novel	246	---
MET	chr7	116423476	G	A	Heterozygous	2	17	SNP	Novel	245	---
SMO	chr7	128846341	G	A	Heterozygous	3.4	47	SNP	Novel	358	---
SMO	chr7	128846342	G	A	Heterozygous	2	20	SNP	Novel	358	---
SMO	chr7	128846343	C	T	Heterozygous	2.5	29	SNP	Novel	358	---
SMO	chr7	128846352	C	T	Heterozygous	1.5	14	SNP	Novel	391	---
SMO	chr7	128846373	C	T	Heterozygous	2.1	23	SNP	Novel	390	---
SMO	chr7	128846388	C	T	Heterozygous	3.9	63	SNP	Novel	389	---
SMO	chr7	128846395	G	C	Heterozygous	4.9	92	SNP	Novel	390	---
SMO	chr7	128846403	C	T	Heterozygous	2	20	SNP	Novel	348	---
SMO	chr7	128846412	C	T	Heterozygous	3.1	41	SNP	Novel	351	---
SMO	chr7	128846418	C	T	Heterozygous	2.3	25	SNP	Novel	351	---
SMO	chr7	128849164	C	T	Heterozygous	14.3	15	SNP	Novel	21	---

SMO	chr7	128850271	C	T	Heterozygous	5.5	42	SNP	Novel	127	---
SMO	chr7	128850297	C	T	Heterozygous	5.2	42	SNP	Novel	134	---
SMO	chr7	128850300	C	T	Heterozygous	5.2	42	SNP	Novel	134	---
SMO	chr7	128850327	C	T	Heterozygous	2.5	18	SNP	Novel	161	---
SMO	chr7	128850331	A	G	Heterozygous	5	46	SNP	Novel	161	---
SMO	chr7	128850333	G	A	Heterozygous	1.9	13	SNP	Novel	161	---
SMO	chr7	128850345	C	T	Heterozygous	5.8	56	SNP	Novel	156	---
SMO	chr7	128850359	C	T	Heterozygous	5.1	47	SNP	Novel	157	---
SMO	chr7	128850361	C	T	Heterozygous	4.5	40	SNP	Novel	156	---
SMO	chr7	128850363	G	A	Heterozygous	3.8	32	SNP	Novel	156	---
BRAF	chr7	140476907	C	T	Heterozygous	5.1	27	SNP	Novel	98	---
BRAF	chr7	140481397	C	T	Heterozygous	12.3	72	SNP	Novel	81	---
BRAF	chr7	140481408	G	T	Heterozygous	4.9	20	SNP	Novel	81	---
BRAF	chr7	140481431	C	T	Heterozygous	4	15	SNP	Novel	75	---
BRAF	chr7	140481433	C	T	Heterozygous	13.5	73	SNP	Novel	74	---
BRAF	chr7	140481438	A	G	Heterozygous	2.7	10	SNP	Novel	74	---
BRAF	chr7	140481448	C	T	Heterozygous	10.9	44	SNP	Novel	64	---
BRAF	chr7	140494206	G	A	Heterozygous	6.2	21	SNP	Novel	65	---
BRAF	chr7	140494232	G	A	Heterozygous	4.5	15	SNP	Novel	67	---
BRAF	chr7	140494242	G	A	Heterozygous	8.3	35	SNP	Novel	72	---
BRAF	chr7	140494252	G	A	Heterozygous	7.2	27	SNP	Novel	69	---
BRAF	chr7	140494255	G	A	Heterozygous	7.4	27	SNP	Novel	68	---
BRAF	chr7	140500217	C	T	Heterozygous	2.7	22	SNP	Novel	188	---
BRAF	chr7	140500229	C	A	Heterozygous	1.6	11	SNP	Novel	190	---
BRAF	chr7	140500238	G	A	Heterozygous	3.7	34	SNP	Novel	188	---
BRAF	chr7	140500253	G	A	Heterozygous	4.4	44	SNP	Novel	206	---
BRAF	chr7	140500277	G	A	Heterozygous	6.9	83	SNP	Novel	203	---
BRAF	chr7	140500286	G	A	Heterozygous	3.5	32	SNP	Novel	201	---
BRAF	chr7	140500288	G	A	Heterozygous	2.5	21	SNP	Novel	200	---
BRAF	chr7	140501264	G	A	Heterozygous	2.3	17	SNP	Novel	171	---
BRAF	chr7	140501294	G	A	Heterozygous	2.8	23	SNP	Novel	176	---
BRAF	chr7	140501299	C	T	Heterozygous	2.3	17	SNP	Novel	176	---
BRAF	chr7	140501301	C	T	Heterozygous	1.7	12	SNP	Novel	176	---
BRAF	chr7	140501309	G	A	Heterozygous	1.7	18	SNP	Novel	176	---
BRAF	chr7	140501327	C	T	Heterozygous	1.7	12	SNP	Novel	175	---
BRAF	chr7	140507810	C	T	Heterozygous	3.3	20	SNP	Novel	121	---
GNAQ	chr9	80412463	G	A	Heterozygous	11.5	82	SNP	Novel	96	---
GNAQ	chr9	80412516	C	T	Heterozygous	8.1	52	SNP	Novel	99	---

GNAQ	chr9	80412534	G	A	Heterozygous	4.3	20	SNP	Novel	92	---
RET	chr10	43613796	C	T	Heterozygous	5.6	42	SNP	Novel	125	---
RET	chr10	43613813	C	T	Heterozygous	5.5	42	SNP	Novel	127	---
RET	chr10	43613832	C	T	Heterozygous	4.7	34	SNP	Novel	129	---
RET	chr10	43613849	C	T	Heterozygous	6.2	51	SNP	Novel	129	---
RET	chr10	43613857	C	T	Heterozygous	5.4	41	SNP	Novel	129	---
RET	chr10	43613870	C	T	Heterozygous	3.1	20	SNP	Novel	128	---
RET	chr10	43613883	A	G	Heterozygous	2.4	14	SNP	Novel	124	---
RET	chr10	43613885	C	T	Heterozygous	4	26	SNP	Novel	124	---
FGFR2	chr10	123279618	C	T	Heterozygous	5	10	SNP	Novel	40	---
FGFR2	chr10	123279645	G	A	Heterozygous	12.2	28	SNP	Novel	41	---
FGFR2	chr10	123354461	G	A	Heterozygous	4.1	26	SNP	Novel	122	---
FGFR2	chr10	123354463	T	C	Heterozygous	3.3	20	SNP	Novel	122	---
HRAS	chr11	534248	C	T	Heterozygous	3.7	15	SNP	Novel	81	---
HRAS	chr11	534270	G	A	Heterozygous	3.8	15	SNP	Novel	80	---
HRAS	chr11	534290	G	A	Heterozygous	5.1	20	SNP	Novel	79	---
HRAS	chr11	534300	A	T	Heterozygous	4.1	15	SNP	Novel	73	---
HRAS	chr11	534317	C	T	Heterozygous	4.6	15	SNP	Novel	65	---
HRAS	chr11	534345	C	T	Heterozygous	8.5	21	SNP	Novel	47	---
KRAS	chr12	25380279	C	T	Heterozygous	13.8	53	SNP	Novel	58	---
KRAS	chr12	25380298	C	T	Heterozygous	3.3	10	SNP	Novel	61	---
KRAS	chr12	25380299	C	T	Heterozygous	4.9	15	SNP	Novel	61	---
KRAS	chr12	25380337	T	G	Heterozygous	6.8	21	SNP	Novel	59	---
KRAS	chr12	25380358	G	A	Heterozygous	5.6	15	SNP	Novel	54	---
ERBB3	chr12	56477608	C	T	Heterozygous	12.3	44	SNP	Novel	57	---
ERBB3	chr12	56477680	C	T	Heterozygous	18.6	85	SNP	Novel	59	---
ERBB3	chr12	56477694	A	T	Homozygous	100	906	SNP	Novel	53	---
ERBB3	chr12	56478853	C	T	Heterozygous	4.2	15	SNP	Novel	72	---
ERBB3	chr12	56482312	C	T	Heterozygous	7.6	51	SNP	Novel	105	---
ERBB3	chr12	56482315	C	T	Heterozygous	6.7	42	SNP	Novel	105	---
ERBB3	chr12	56482322	C	T	Heterozygous	9.4	71	SNP	Novel	106	---
ERBB3	chr12	56482364	C	T	Heterozygous	5.7	27	SNP	Novel	87	---
ERBB3	chr12	56482376	C	T	Heterozygous	9.3	52	SNP	Novel	86	---
CDK4	chr12	58142939	C	T	Heterozygous	7.4	35	SNP	Novel	81	---
CDK4	chr12	58145948	C	T	Heterozygous	2.6	26	SNP	Novel	272	---
CDK4	chr12	58145971	G	A	Heterozygous	2.2	32	SNP	Novel	272	---
CDK4	chr12	58145986	C	T	Heterozygous	2.2	29	SNP	Novel	269	---
CDK4	chr12	58145989	C	T	Heterozygous	4.4	58	SNP	Novel	275	---

CDK4	chr12	58145990	C	G	Heterozygous	2.2	20	SNP	Novel	274	---
CDK4	chr12	58145992	G	A	Heterozygous	3.6	44	SNP	Novel	275	---
CDK4	chr12	58146013	G	A	Heterozygous	3.2	37	SNP	Novel	277	---
CDK4	chr12	58146016	C	T	Heterozygous	2.5	25	SNP	Novel	277	---
MAP2K1	chr15	66727450	C	A	Heterozygous	20	44	SNP	Novel	35	---
MAP2K1	chr15	66727476	G	A	Heterozygous	10.8	21	SNP	Novel	37	---
MAP2K1	chr15	66774109	C	T	Heterozygous	12	15	SNP	Novel	25	---
MAP2K1	chr15	66774113	C	T	Heterozygous	16	22	SNP	Novel	25	---
MAP2K1	chr15	66774125	C	T	Heterozygous	20	29	SNP	Novel	25	---
ERBB2	chr17	37879620	G	A	Heterozygous	1.5	112	SNP	Novel	988	---
ERBB2	chr17	37879628	G	A	Heterozygous	3	312	SNP	Novel	990	---
ERBB2	chr17	37879633	G	T	Heterozygous	1.6	24	SNP	Novel	999	---
ERBB2	chr17	37879639	G	A	Heterozygous	1.4	17	SNP	Novel	1008	---
ERBB2	chr17	37879645	C	T	Heterozygous	1.2	12	SNP	Novel	1007	---
ERBB2	chr17	37879653	G	A	Heterozygous	1.2	12	SNP	Novel	1008	---
ERBB2	chr17	37879654	C	T	Heterozygous	1.4	17	SNP	Novel	1008	---
ERBB2	chr17	37879658	G	A	Heterozygous	2.2	48	SNP	Hotspot	1010	COSM436498
ERBB2	chr17	37879663	C	G	Heterozygous	1.6	24	SNP	Novel	1010	---
ERBB2	chr17	37879673	G	A	Heterozygous	2.7	74	SNP	Novel	1011	---
ERBB2	chr17	37879674	G	A	Heterozygous	1.5	20	SNP	Novel	1011	---
ERBB2	chr17	37879684	A	G	Heterozygous	1.4	17	SNP	Novel	1004	---
ERBB2	chr17	37879686	G	A	Heterozygous	2.4	59	SNP	Novel	1002	---
ERBB2	chr17	37879695	G	A	Heterozygous	2.5	61	SNP	Novel	961	---
ERBB2	chr17	37879829	C	T	Heterozygous	5.5	90	SNP	Novel	289	---
ERBB2	chr17	37879833	G	A	Heterozygous	2.1	19	SNP	Novel	291	---
ERBB2	chr17	37879835	G	A	Heterozygous	2.7	30	SNP	Novel	291	---
ERBB2	chr17	37879838	G	A	Heterozygous	1.7	14	SNP	Novel	292	---
ERBB2	chr17	37879860	G	A	Heterozygous	2.8	33	SNP	Novel	319	---
ERBB2	chr17	37879865	G	A	Heterozygous	5.9	107	SNP	Novel	339	---
ERBB2	chr17	37879871	G	A	Heterozygous	3.5	48	SNP	Novel	346	---
ERBB2	chr17	37879872	G	A	Heterozygous	2.9	36	SNP	Novel	345	---
ERBB2	chr17	37879874	G	A	Heterozygous	1.8	18	SNP	Novel	327	---
ERBB2	chr17	37879878	G	A	Heterozygous	3.6	50	SNP	Novel	332	---
ERBB2	chr17	37879883	T	A	Heterozygous	3.9	57	SNP	Novel	331	---
ERBB2	chr17	37879893	G	T	Heterozygous	1.9	18	SNP	Novel	313	---
ERBB2	chr17	37879901	C	T	Heterozygous	4.2	61	SNP	Novel	307	---
ERBB2	chr17	37879905	G	A	Heterozygous	6.9	125	SNP	Novel	305	---
ERBB2	chr17	37881002	G	A	Heterozygous	11.8	38	SNP	Novel	51	---

ERBB2	chr17	37881004	G	A	Heterozygous	7.3	21	SNP	Novel	55	---
ERBB2	chr17	37881021	C	T	Heterozygous	12.7	44	SNP	Novel	55	---
ERBB2	chr17	37881054	C	T	Heterozygous	10.9	36	SNP	Novel	55	---
ERBB2	chr17	37882851	G	A	Heterozygous	5.3	27	SNP	Novel	95	---
ERBB2	chr17	37882868	T	C	Heterozygous	3.8	20	SNP	Novel	106	---
ERBB2	chr17	37882882	C	T	Heterozygous	6.7	43	SNP	Novel	104	---
ERBB2	chr17	37882928	G	A	Heterozygous	4	20	SNP	Novel	100	---
GNA11	chr19	3118895	C	T	Heterozygous	1.7	16	SNP	Novel	175	---
GNA11	chr19	3118904	G	A	Heterozygous	2.8	23	SNP	Novel	176	---
GNA11	chr19	3118914	C	T	Heterozygous	3.9	35	SNP	Novel	181	---
GNA11	chr19	3118926	G	C	Heterozygous	1.8	12	SNP	Novel	171	---
GNA11	chr19	3118972	G	A	Heterozygous	2.7	19	SNP	Novel	148	---
JAK3	chr19	17949137	G	A	Heterozygous	1.5	15	SNP	Novel	619	---
JAK3	chr19	17949144	C	T	Heterozygous	1.3	11	SNP	Novel	632	---
JAK3	chr19	17949170	C	T	Heterozygous	1.4	14	SNP	Novel	637	---
JAK3	chr19	17949172	C	T	Heterozygous	2.5	45	SNP	Novel	637	---
JAK3	chr19	17949174	C	T	Heterozygous	2.7	50	SNP	Novel	638	---
JAK3	chr19	17949182	C	T	Heterozygous	2.4	39	SNP	Novel	638	---
AR	chrX	66799220	C	T	Heterozygous	7.1	10	SNP	Novel	28	---
AR	chrX	66799262	G	A	Heterozygous	21.1	55	SNP	Novel	38	---
AR	chrX	66799284	G	A	Heterozygous	20.5	55	SNP	Novel	39	---
AR	chrX	66906915	G	A	Heterozygous	2.6	25	SNP	Novel	273	---
AR	chrX	66906916	A	T	Heterozygous	2.6	26	SNP	Novel	272	---
AR	chrX	66943531	G	A	Heterozygous	3.2	54	SNP	Novel	468	---
AR	chrX	66943542	G	A	Heterozygous	1.5	14	SNP	Novel	466	---
AR	chrX	66943546	C	T	Heterozygous	2.6	37	SNP	Novel	467	---
AR	chrX	66943551	C	T	Heterozygous	3	46	SNP	Novel	470	---
AR	chrX	66943561	C	T	Heterozygous	2.5	37	SNP	Novel	472	---