

Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C201080

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

Pathological Diagnosis: Adenocarcinoma

Tumor Size: 3 x 3 x 2 cm

Location: right middle 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)

C201080

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174420	C	T	Heterozygous	3.6	19	SNP	Novel	994	---
MTOR	chr1	11174460	C	T	Heterozygous	3.3	13	SNP	Novel	983	---
MTOR	chr1	11184590	C	T	Heterozygous	3.7	16	SNP	Novel	620	---
MTOR	chr1	11184616	G	A	Heterozygous	3.7	16	SNP	Novel	621	---
MTOR	chr1	11184638	G	A	Heterozygous	3.9	19	SNP	Novel	620	---
MTOR	chr1	11188182	G	A	Heterozygous	22.4	190	SNP	Novel	134	---
MTOR	chr1	11188201	G	-	Heterozygous	12.5	180	DEL	Novel	136	---
MTOR	chr1	11188215	G	A	Heterozygous	14	89	SNP	Novel	136	---
MTOR	chr1	11188223	G	A	Heterozygous	12.5	74	SNP	Novel	136	---
MTOR	chr1	11188239	G	A	Heterozygous	10.9	60	SNP	Novel	138	---
MTOR	chr1	11189819	C	T	Heterozygous	5.8	30	SNP	Novel	257	---
MTOR	chr1	11190770	G	A	Heterozygous	3.7	15	SNP	Novel	568	---
MTOR	chr1	11190803	T	C	Heterozygous	3.7	16	SNP	Novel	593	---
MTOR	chr1	11190874	G	A	Heterozygous	3.6	14	SNP	Novel	615	---
MTOR	chr1	11190888	C	T	Heterozygous	4.2	24	SNP	Novel	615	---
MTOR	chr1	11190898	C	T	Heterozygous	4.4	28	SNP	Novel	608	---
JAK1	chr1	65310491	G	A	Heterozygous	4.4	38	SNP	Novel	1005	---
JAK1	chr1	65312304	C	T	Heterozygous	6.4	69	SNP	Novel	576	---
JAK1	chr1	65312360	G	A	Heterozygous	4.2	24	SNP	Novel	614	---
JAK1	chr1	65312399	G	A	Heterozygous	10.2	197	SNP	Novel	599	---
DDR2	chr1	162724508	C	T	Heterozygous	4.4	25	SNP	Novel	545	---
DDR2	chr1	162724528	G	A	Heterozygous	3.5	12	SNP	Novel	547	---
DDR2	chr1	162724631	C	T	Heterozygous	4.8	30	SNP	Novel	499	---
ALK	chr2	29416098	C	T	Heterozygous	5.4	23	SNP	Novel	224	---
ALK	chr2	29416132	G	A	Heterozygous	7.6	46	SNP	Novel	225	---
ALK	chr2	29416195	G	A	Heterozygous	5.3	21	SNP	Novel	208	---
ALK	chr2	29416337	C	T	Heterozygous	3.3	11	SNP	Novel	646	---
ALK	chr2	29416368	C	T	Heterozygous	3.8	18	SNP	Novel	663	---
ALK	chr2	29416424	C	T	Heterozygous	3.3	11	SNP	Novel	676	---
ALK	chr2	29416444	C	T	Heterozygous	3.3	11	SNP	Novel	670	---
ALK	chr2	29416572	T	C	Homozygous	100	19671	SNP	Novel	1235	---
ALK	chr2	29436911	G	A	Heterozygous	3.8	19	SNP	Novel	745	---
ALK	chr2	29436966	G	A	Heterozygous	6.2	79	SNP	Novel	745	---
ALK	chr2	29443607	G	A	Heterozygous	3.6	17	SNP	Novel	842	---
ALK	chr2	29443634	G	A	Heterozygous	3.2	11	SNP	Novel	856	---

ALK	chr2	29443659	G	A	Heterozygous	3.8	22	SNP	Novel	864	---
ALK	chr2	29443692	G	A	Heterozygous	4.8	46	SNP	Novel	867	---
ALK	chr2	29497964	C	T	Heterozygous	5.1	36	SNP	Novel	533	---
ALK	chr2	29497978	G	A	Heterozygous	4.2	21	SNP	Novel	530	---
IDH1	chr2	209113107	C	T	Heterozygous	3.2	12	SNP	Novel	1171	---
IDH1	chr2	209113192	G	A	Heterozygous	35.7	3434	SNP	Novel	1160	---
RAF1	chr3	12632434	G	A	Heterozygous	3.6	33	SNP	Novel	2316	---
PIK3CA	chr3	178916920	G	A	Heterozygous	3.5	10	SNP	Novel	344	---
PIK3CA	chr3	178921503	G	A	Heterozygous	5.5	34	SNP	Novel	384	---
PIK3CA	chr3	178921522	G	A	Heterozygous	9.1	107	SNP	Novel	396	---
PIK3CA	chr3	178922297	G	A	Heterozygous	24.5	92	SNP	Novel	53	---
PIK3CA	chr3	178922361	C	T	Heterozygous	33.3	140	SNP	Novel	54	---
PIK3CA	chr3	178936087	C	T	Heterozygous	6.9	34	SNP	Novel	189	---
PIK3CA	chr3	178938924	G	A	Heterozygous	6.7	31	SNP	Novel	178	---
PIK3CA	chr3	178938952	G	A	Heterozygous	21.3	231	SNP	Novel	178	---
FGFR3	chr4	1797219	C	T	Heterozygous	5	21	SNP	Novel	240	---
FGFR3	chr4	1807894	G	A	Homozygous	100	63469	SNP	Novel	3982	---
PDGFRA	chr4	55097717	C	T	Heterozygous	3.2	15	SNP	Novel	1678	---
PDGFRA	chr4	55097835	G	C	Homozygous	100	27020	SNP	Novel	1697	---
PDGFRA	chr4	55104325	C	T	Heterozygous	3.6	15	SNP	Novel	642	---
PDGFRA	chr4	55121550	G	A	Heterozygous	9.4	69	SNP	Novel	224	---
PDGFRA	chr4	55123697	C	T	Heterozygous	4.6	27	SNP	Novel	497	---
PDGFRA	chr4	55123783	G	A	Heterozygous	4.1	20	SNP	Novel	512	---
PDGFRA	chr4	55133700	G	A	Heterozygous	3.6	14	SNP	Novel	560	---
PDGFRA	chr4	55133726	T	G	Heterozygous	39.2	1903	SNP	Novel	559	---
PDGFRA	chr4	55133738	C	T	Heterozygous	3.4	11	SNP	Novel	564	---
PDGFRA	chr4	55133759	G	A	Heterozygous	3.4	11	SNP	Novel	562	---
PDGFRA	chr4	55133760	G	A	Heterozygous	6.4	68	SNP	Novel	562	---
PDGFRA	chr4	55140982	C	T	Heterozygous	13.2	157	SNP	Novel	281	---
PDGFRA	chr4	55141003	T	C	Heterozygous	3.8	12	SNP	Novel	287	---
PDGFRA	chr4	55141055	A	G	Homozygous	100	4431	SNP	Novel	280	---
PDGFRA	chr4	55152040	C	T	Heterozygous	41.9	3717	SNP	Novel	971	---
KIT	chr4	55529200	-	A	Heterozygous	10.7	62	INS	Novel	159	---
KIT	chr4	55566182	C	T	Heterozygous	5.1	14	SNP	Novel	99	---
KIT	chr4	55566266	G	A	Homozygous	100	1494	SNP	Novel	100	---
KIT	chr4	55592195	G	A	Heterozygous	4.7	70	SNP	Novel	1583	---
KIT	chr4	55592205	G	A	Heterozygous	3.2	14	SNP	Novel	1584	---
KIT	chr4	55593454	C	T	Heterozygous	3	11	SNP	Novel	1786	---

KIT	chr4	55593620	G	A	Heterozygous	4.9	11	SNP	Novel	245	---
KIT	chr4	55593672	C	T	Heterozygous	5.9	31	SNP	Novel	254	---
KIT	chr4	55593688	C	T	Heterozygous	8.3	61	SNP	Novel	254	---
KIT	chr4	55594178	G	A	Heterozygous	3.3	11	SNP	Novel	632	---
KIT	chr4	55594231	G	A	Heterozygous	8.1	130	SNP	Novel	641	---
KIT	chr4	55598903	A	T	Heterozygous	34.7	269	SNP	Novel	95	---
KIT	chr4	55599328	G	A	Heterozygous	5.5	38	SNP	Novel	416	---
KIT	chr4	55599336	C	T	Heterozygous	4.3	20	SNP	Novel	416	---
KIT	chr4	55599346	G	A	Heterozygous	4.1	17	SNP	Novel	416	---
ROS1	chr6	117638346	C	T	Heterozygous	4.4	20	SNP	Novel	361	---
ROS1	chr6	117641042	C	T	Heterozygous	6.2	51	SNP	Novel	455	---
ROS1	chr6	117641078	C	T	Heterozygous	3.9	16	SNP	Novel	463	---
ROS1	chr6	117641136	C	T	Heterozygous	5.1	33	SNP	Novel	473	---
ROS1	chr6	117641145	C	T	Heterozygous	4.3	21	SNP	Novel	466	---
EGFR	chr7	55221825	C	T	Heterozygous	5.1	43	SNP	Novel	642	---
EGFR	chr7	55221826	C	T	Heterozygous	3.9	19	SNP	Novel	643	---
EGFR	chr7	55221893	C	T	Heterozygous	7.2	101	SNP	Novel	652	---
EGFR	chr7	55242478	G	A	Heterozygous	5.9	19	SNP	Novel	305	---
EGFR	chr7	55242510	C	A	Heterozygous	5.8	34	SNP	Novel	310	---
EGFR	chr7	55242525	C	T	Heterozygous	7.1	53	SNP	Novel	308	---
MET	chr7	116313486	G	A	Heterozygous	4	14	SNP	Novel	272	---
MET	chr7	116313524	G	A	Heterozygous	5.9	32	SNP	Novel	273	---
MET	chr7	116313529	G	A	Heterozygous	5.1	24	SNP	Novel	273	---
MET	chr7	116313572	C	T	Heterozygous	4.8	20	SNP	Novel	271	---
MET	chr7	116339387	G	A	Heterozygous	3.6	18	SNP	Novel	801	---
MET	chr7	116339413	A	G	Heterozygous	3.4	13	SNP	Novel	798	---
MET	chr7	116403141	G	A	Heterozygous	12.2	101	SNP	Novel	196	---
MET	chr7	116403176	C	T	Heterozygous	8.7	54	SNP	Novel	196	---
MET	chr7	116403195	C	T	Heterozygous	11.2	86	SNP	Novel	196	---
MET	chr7	116411992	A	G	Heterozygous	8.1	38	SNP	Novel	148	---
MET	chr7	116412010	G	A	Heterozygous	8.8	44	SNP	Novel	147	---
MET	chr7	116412026	G	A	Heterozygous	5.5	19	SNP	Novel	146	---
MET	chr7	116415127	G	A	Heterozygous	3.7	13	SNP	Novel	376	---
MET	chr7	116415134	G	A	Heterozygous	5	28	SNP	Novel	377	---
MET	chr7	116417428	C	T	Heterozygous	4.4	16	SNP	Novel	228	---
MET	chr7	116417444	G	A	Heterozygous	3.7	13	SNP	Novel	377	---
MET	chr7	116417539	T	C	Heterozygous	5.1	28	SNP	Novel	374	---
MET	chr7	116434478	C	T	Heterozygous	4.3	18	SNP	Novel	347	---

BRAF	chr7	140453137	C	T	Heterozygous	5.8	12	SNP	Hotspot	139	COSM1130
BRAF	chr7	140476699	G	A	Heterozygous	4.5	13	SNP	Novel	155	---
BRAF	chr7	140476724	G	A	Heterozygous	5.8	22	SNP	Novel	155	---
BRAF	chr7	140476936	G	A	Heterozygous	37.8	7316	SNP	Novel	2256	---
BRAF	chr7	140482833	G	A	Heterozygous	7.9	65	SNP	Novel	303	---
BRAF	chr7	140482876	G	A	Heterozygous	4	14	SNP	Novel	302	---
BRAF	chr7	140501253	A	G	Heterozygous	4.1	94	SNP	Novel	4000	---
JAK2	chr9	5073779	G	A	Heterozygous	16.2	127	SNP	Novel	148	---
GNAQ	chr9	80409381	C	T	Heterozygous	15.9	151	SNP	Novel	189	---
GNAQ	chr9	80409433	C	T	Heterozygous	11.6	88	SNP	Novel	189	---
RET	chr10	43609110	C	T	Heterozygous	3.1	14	SNP	Novel	1866	---
RET	chr10	43609931	C	T	Heterozygous	3.3	16	SNP	Novel	1507	---
RET	chr10	43609953	C	T	Heterozygous	3.5	21	SNP	Novel	1536	---
RET	chr10	43609986	C	T	Heterozygous	3.3	18	SNP	Novel	1534	---
RET	chr10	43609989	C	T	Heterozygous	5.4	104	SNP	Novel	1528	---
RET	chr10	43615594	G	A	Heterozygous	3.7	15	SNP	Novel	567	---
RET	chr10	43615644	G	A	Heterozygous	3.6	14	SNP	Novel	561	---
RET	chr10	43615647	G	A	Heterozygous	3.6	14	SNP	Novel	561	---
RET	chr10	43615664	G	A	Heterozygous	4.3	23	SNP	Novel	533	---
RET	chr10	43615667	G	A	Heterozygous	3.4	11	SNP	Novel	531	---
RET	chr10	43617363	C	T	Heterozygous	14.1	110	SNP	Novel	170	---
FGFR2	chr10	123247554	C	T	Heterozygous	3.4	18	SNP	Novel	1219	---
FGFR2	chr10	123274802	G	A	Heterozygous	3.6	13	SNP	Novel	497	---
FGFR2	chr10	123274817	C	T	Heterozygous	3.4	11	SNP	Novel	496	---
FGFR2	chr10	123276972	G	A	Heterozygous	6.4	57	SNP	Novel	453	---
FGFR2	chr10	123312187	C	T	Heterozygous	5.3	29	SNP	Novel	340	---
FGFR2	chr10	123312267	C	T	Heterozygous	3.6	11	SNP	Novel	334	---
FGFR2	chr10	123350083	C	T	Heterozygous	13.8	47	SNP	Novel	65	---
HRAS	chr11	533854	G	A	Heterozygous	3.8	27	SNP	Novel	1323	---
HRAS	chr11	533924	C	T	Heterozygous	3.1	11	SNP	Novel	1239	---
HRAS	chr11	533926	C	T	Heterozygous	3.3	16	SNP	Novel	1234	---
KRAS	chr12	25364800	C	G	Heterozygous	6.4	34	SNP	Novel	235	---
KRAS	chr12	25364805	G	A	Heterozygous	4.3	14	SNP	Novel	234	---
KRAS	chr12	25378597	G	A	Heterozygous	10.1	61	SNP	Novel	169	---
KRAS	chr12	25378598	C	T	Heterozygous	5.9	24	SNP	Novel	169	---
KRAS	chr12	25380319	C	T	Heterozygous	4.2	27	SNP	Novel	736	---
KRAS	chr12	25386063	C	A	Homozygous	99	1488	SNP	Novel	102	---
KRAS	chr12	25387226	G	A	Heterozygous	5.3	24	SNP	Novel	243	---

KRAS	chr12	25387258	G	A	Heterozygous	4.9	19	SNP	Novel	225	---
KRAS	chr12	25387270	G	A	Heterozygous	5.2	21	SNP	Novel	210	---
KRAS	chr12	25389198	C	T	Heterozygous	4.7	18	SNP	Novel	233	---
KRAS	chr12	25389212	G	A	Heterozygous	5.2	22	SNP	Novel	233	---
KRAS	chr12	25389222	G	A	Heterozygous	8.2	55	SNP	Novel	232	---
KRAS	chr12	25391244	C	T	Heterozygous	6.1	29	SNP	Novel	213	---
KRAS	chr12	25398241	A	G	Heterozygous	11.7	189	SNP	Novel	437	---
KRAS	chr12	25400171	G	A	Heterozygous	5.2	14	SNP	Novel	97	---
KRAS	chr12	25400180	C	T	Heterozygous	13.4	64	SNP	Novel	97	---
KRAS	chr12	25400191	C	T	Heterozygous	10.4	42	SNP	Novel	96	---
KRAS	chr12	25400233	T	C	Heterozygous	6.3	19	SNP	Novel	95	---
KRAS	chr12	25400252	C	T	Heterozygous	5.2	14	SNP	Novel	97	---
ERBB3	chr12	56477694	A	T	Homozygous	100	18552	SNP	Novel	1162	---
ERBB3	chr12	56478853	C	T	Heterozygous	3.3	15	SNP	Novel	1220	---
ERBB3	chr12	56478860	C	T	Heterozygous	4	33	SNP	Novel	1221	---
ERBB3	chr12	56481599	C	T	Heterozygous	6	57	SNP	Novel	546	---
ERBB3	chr12	56481614	C	T	Heterozygous	5.1	38	SNP	Novel	545	---
ERBB3	chr12	56481678	C	T	Heterozygous	7.3	91	SNP	Novel	563	---
ERBB3	chr12	56481685	C	T	Heterozygous	4.6	29	SNP	Novel	562	---
ERBB3	chr12	56482547	G	A	Heterozygous	3.6	15	SNP	Novel	633	---
ERBB3	chr12	56482548	C	T	Heterozygous	5.4	48	SNP	Novel	633	---
ERBB3	chr12	56482563	C	T	Heterozygous	5.4	48	SNP	Novel	632	---
ERBB3	chr12	56482566	G	A	Heterozygous	4.4	28	SNP	Novel	633	---
CDK4	chr12	58142111	G	A	Heterozygous	5.7	24	SNP	Novel	194	---
CDK4	chr12	58142121	G	A	Heterozygous	5.7	24	SNP	Novel	194	---
CDK4	chr12	58142156	G	A	Heterozygous	4.3	13	SNP	Novel	184	---
CDK4	chr12	58142274	G	A	Heterozygous	6.2	51	SNP	Novel	437	---
CDK4	chr12	58142291	G	A	Heterozygous	4.6	24	SNP	Novel	439	---
CDK4	chr12	58142306	G	A	Heterozygous	5	30	SNP	Novel	440	---
CDK4	chr12	58142321	C	T	Heterozygous	5.5	38	SNP	Novel	440	---
CDK4	chr12	58143249	C	T	Heterozygous	3.3	14	SNP	Novel	931	---
CDK4	chr12	58143260	G	A	Heterozygous	3.2	11	SNP	Novel	941	---
CDK4	chr12	58144607	C	G	Heterozygous	3.7	12	SNP	Novel	354	---
CDK4	chr12	58144622	G	A	Heterozygous	4	15	SNP	Novel	354	---
CDK4	chr12	58144655	C	T	Heterozygous	4.2	17	SNP	Novel	354	---
CDK4	chr12	58144661	C	T	Heterozygous	4.2	17	SNP	Novel	354	---
CDK4	chr12	58144665	C	T	Heterozygous	52.5	1902	SNP	Novel	354	---
CDK4	chr12	58144668	C	T	Heterozygous	4.8	24	SNP	Novel	353	---

CDK4	chr12	58145358	CCTCCTCCA	-	Heterozygous	4.2	70	DEL	Novel	472	---
CDK4	chr12	58145425	G	A	Heterozygous	6.6	70	SNP	Novel	548	---
CDK4	chr12	58145463	C	T	Heterozygous	5.3	42	SNP	Novel	543	---
CDK4	chr12	58145707	C	T	Heterozygous	4.3	26	SNP	Novel	671	---
CDK4	chr12	58145729	C	T	Heterozygous	6.2	76	SNP	Novel	696	---
CDK4	chr12	58145802	C	T	Heterozygous	5.5	58	SNP	Novel	750	---
AKT1	chr14	105246451	G	A	Heterozygous	3.9	15	SNP	Novel	383	---
AKT1	chr14	105246475	G	A	Heterozygous	5.8	40	SNP	Novel	400	---
AKT1	chr14	105246499	G	A	Heterozygous	5.7	43	SNP	Novel	458	---
AKT1	chr14	105246525	G	A	Heterozygous	4.1	21	SNP	Novel	541	---
AKT1	chr14	105246529	G	A	Heterozygous	5.5	45	SNP	Novel	547	---
AKT1	chr14	105246549	C	T	Heterozygous	4.9	34	SNP	Novel	549	---
MAP2K1	chr15	66729130	G	A	Heterozygous	4.2	29	SNP	Novel	806	---
MAP2K1	chr15	66729198	G	A	Heterozygous	3.3	13	SNP	Novel	1072	---
MAP2K1	chr15	66774142	C	T	Heterozygous	3.6	17	SNP	Novel	782	---
IDH2	chr15	90631906	C	T	Heterozygous	5.9	41	SNP	Novel	370	---
IDH2	chr15	90631907	C	T	Heterozygous	7	59	SNP	Novel	370	---
IDH2	chr15	90631922	C	T	Heterozygous	5.3	35	SNP	Novel	360	---
ERBB2	chr17	37868142	G	A	Heterozygous	3.3	11	SNP	Novel	604	---
ERBB2	chr17	37868146	C	T	Heterozygous	3.6	15	SNP	Novel	605	---
ERBB2	chr17	37868167	C	T	Heterozygous	5.4	48	SNP	Novel	608	---
ERBB2	chr17	37872367	C	T	Heterozygous	3.1	10	SNP	Novel	893	---
ERBB2	chr17	37872428	C	T	Heterozygous	4.1	25	SNP	Novel	850	---
ERBB2	chr17	37872450	C	T	Heterozygous	4	22	SNP	Novel	672	---
ERBB2	chr17	37872464	C	T	Heterozygous	3.2	10	SNP	Novel	824	---
ERBB2	chr17	37880238	C	T	Heterozygous	4.3	29	SNP	Novel	716	---
ERBB2	chr17	37880321	C	G	Heterozygous	4.9	45	SNP	Novel	789	---
ERBB2	chr17	37880337	C	T	Heterozygous	3.1	11	SNP	Novel	766	---
ERBB2	chr17	37881411	G	A	Heterozygous	4.7	53	SNP	Novel	1147	---
ERBB2	chr17	37881430	G	A	Heterozygous	3.5	20	SNP	Novel	1156	---
ERBB2	chr17	37881450	G	A	Heterozygous	3.2	12	SNP	Novel	1100	---
ERBB2	chr17	37881565	C	T	Heterozygous	5.1	56	SNP	Novel	925	---
ERBB2	chr17	37881615	C	T	Heterozygous	3.4	13	SNP	Novel	801	---
ERBB2	chr17	37883220	C	T	Heterozygous	3.1	23	SNP	Novel	716	---
MAP2K2	chr19	4117614	C	T	Heterozygous	4.8	49	SNP	Novel	981	---
JAK3	chr19	17945925	G	A	Heterozygous	3.3	14	SNP	Novel	988	---
JAK3	chr19	17945950	G	A	Heterozygous	3.7	20	SNP	Novel	982	---
JAK3	chr19	17945958	C	T	Heterozygous	4.1	30	SNP	Novel	980	---

JAK3	chr19	17948764	C	T	Heterozygous	4	25	SNP	Novel	794	---
JAK3	chr19	17948815	C	T	Heterozygous	4	25	SNP	Novel	791	---
AR	chrX	66866129	G	A	Heterozygous	3.9	16	SNP	Novel	489	---
AR	chrX	66866193	G	A	Heterozygous	6.5	65	SNP	Novel	506	---
AR	chrX	66866214	G	A	Heterozygous	4.2	21	SNP	Novel	505	---
AR	chrX	66915233	C	T	Heterozygous	7.5	41	SNP	Novel	214	---
AR	chrX	66938994	C	T	Heterozygous	5	42	SNP	Novel	707	---
AR	chrX	66938996	G	A	Heterozygous	7.4	114	SNP	Novel	706	---
AR	chrX	66939021	A	G	Heterozygous	5.6	58	SNP	Novel	694	---
AR	chrX	66945145	G	A	Heterozygous	4.3	14	SNP	Novel	235	---
AR	chrX	66945219	C	T	Heterozygous	5.3	24	SNP	Novel	245	---