

# Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202097

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: 59 year(s) old  
Female: \_\_\_\_\_ year(s) old

Pathological Diagnosis: Squamous Epithelial Cancer

Tumor Size: N/A

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
<b>Gene ID</b>	The Gene symbol for the gene located at this position
<b>Chrom</b>	The chromosome where the target region is located
<b>Position</b>	The genomic position of the variant in the build of the genome database
<b>Ref</b>	The reference allele of the variation
<b>Variant</b>	The alternate allele of the variation
<b>Allele Call</b>	The type of variation, either heterozygous or homozygous
<b>Frequency</b>	The percentage of reads for the sample that includes the variant
<b>Quality</b>	The quality score of the variant
<b>Type</b>	The variant type, which can be SNP, MNP, Ins, Del, and Complex
<b>Allele Source</b>	Listed as Hotspot for alleles found within the hotspots sequencing file and Novel for all other alleles
<b>Coverage</b>	The number of reads that cover the region
<b>Allele Name</b>	The allele name that is defined within the hotspots sequencing file (if Novel allele, then there is no name)

C202097

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174448	C	T	Heterozygous	1	12	SNP	Novel	4000	---
MTOR	chr1	11184559	G	A	Heterozygous	1.1	20	SNP	Novel	4000	---
MTOR	chr1	11188006	C	T	Heterozygous	1.2	23	SNP	Novel	3997	---
MTOR	chr1	11188041	C	T	Heterozygous	0.9	36	SNP	Novel	3927	---
MTOR	chr1	11188049	G	A	Heterozygous	1	10	SNP	Novel	3997	---
MTOR	chr1	11188178	G	A	Heterozygous	1.4	34	SNP	Novel	3320	---
MTOR	chr1	11188201	G	A	Heterozygous	1.2	23	SNP	Novel	3324	---
MTOR	chr1	11188224	G	A	Heterozygous	1.1	15	SNP	Novel	3401	---
MTOR	chr1	11188228	G	A	Heterozygous	1.1	17	SNP	Novel	3334	---
MTOR	chr1	11189809	G	A	Heterozygous	1	10	SNP	Novel	3995	---
MTOR	chr1	11190783	G	A	Heterozygous	1.3	29	SNP	Novel	3419	---
JAK1	chr1	65310475	C	T	Heterozygous	1	12	SNP	Novel	3998	---
JAK1	chr1	65310507	G	A	Heterozygous	1.2	25	SNP	Novel	3998	---
NRAS	chr1	115258774	T	C	Heterozygous	1.3	22	SNP	Novel	2185	---
DDR2	chr1	162724530	G	A	Heterozygous	1.1	124	SNP	Novel	2470	---
ALK	chr2	29416366	G	C	Heterozygous	49.8	19399	SNP	Novel	2622	---
ALK	chr2	29416416	C	T	Heterozygous	1	10	SNP	Novel	2776	---
ALK	chr2	29416444	C	T	Heterozygous	1.2	51	SNP	Novel	2672	---
ALK	chr2	29416572	T	C	Homozygous	100	83691	SNP	Novel	3996	---
ALK	chr2	29416586	G	A	Heterozygous	0.8	39	SNP	Novel	3932	---
ALK	chr2	29443642	C	T	Heterozygous	1	89	SNP	Novel	3947	---
ALK	chr2	29445298	GGA	-	Heterozygous	1.1	221	DEL	Novel	3789	---
ALK	chr2	29445458	G	T	Heterozygous	45.5	26078	SNP	Novel	3971	---
IDH1	chr2	209113135	C	T	Heterozygous	1.1	16	SNP	Novel	4000	---
CTNNB1	chr3	41266108	C	T	Heterozygous	1	10	SNP	Novel	2735	---
CTNNB1	chr3	41266122	C	T	Heterozygous	1.1	16	SNP	Novel	2731	---
PIK3CA	chr3	178922274	C	A	Heterozygous	50.1	21835	SNP	Novel	2924	---
PIK3CA	chr3	178952039	G	A	Heterozygous	1	13	SNP	Novel	3874	---
FGFR3	chr4	1797330	G	A	Heterozygous	1.1	12	SNP	Novel	2045	---
FGFR3	chr4	1797700	C	T	Heterozygous	1	11	SNP	Novel	3960	---
FGFR3	chr4	1801110	G	A	Heterozygous	1.1	16	SNP	Novel	3997	---
FGFR3	chr4	1805788	C	T	Heterozygous	1.1	14	SNP	Novel	3998	---
FGFR3	chr4	1805862	G	A	Heterozygous	0.8	21	SNP	Novel	3967	---
FGFR3	chr4	1805875	C	T	Heterozygous	1	12	SNP	Novel	3997	---
FGFR3	chr4	1806143	C	T	Heterozygous	1	12	SNP	Novel	3999	---

FGFR3	chr4	1807850	G	A	Heterozygous	1.1	50	SNP	Novel	3963	---
FGFR3	chr4	1807894	G	A	Homozygous	99.8	83400	SNP	Novel	3996	---
FGFR3	chr4	1809233	C	T	Heterozygous	1.4	39	SNP	Novel	3698	---
FGFR3	chr4	1809274	G	A	Heterozygous	1.1	11	SNP	Novel	3654	---
FGFR3	chr4	1809289	G	A	Heterozygous	1	11	SNP	Novel	4000	---
FGFR3	chr4	1809298	C	T	Heterozygous	1.4	394	SNP	Novel	3687	---
FGFR3	chr4	1809319	G	A	Heterozygous	1.4	91	SNP	Novel	3913	---
FGFR3	chr4	1809492	C	T	Heterozygous	1.1	17	SNP	Novel	3743	---
PDGFRA	chr4	55097740	C	T	Heterozygous	1	14	SNP	Novel	3265	---
PDGFRA	chr4	55097769	C	T	Heterozygous	1.3	27	SNP	Novel	3427	---
PDGFRA	chr4	55097774	C	T	Heterozygous	1	13	SNP	Novel	3367	---
PDGFRA	chr4	55097780	C	T	Heterozygous	1.2	23	SNP	Novel	3476	---
PDGFRA	chr4	55097784	C	T	Heterozygous	1	13	SNP	Novel	3491	---
PDGFRA	chr4	55097797	C	T	Heterozygous	0.9	10	SNP	Novel	3416	---
PDGFRA	chr4	55097835	G	C	Heterozygous	59.3	32258	SNP	Novel	3389	---
PDGFRA	chr4	55104297	C	T	Heterozygous	1.1	187	SNP	Novel	3186	---
PDGFRA	chr4	55104307	C	T	Heterozygous	1	147	SNP	Novel	3261	---
PDGFRA	chr4	55104354	C	T	Heterozygous	0.8	32	SNP	Novel	3266	---
PDGFRA	chr4	55123730	G	A	Heterozygous	1.2	128	SNP	Novel	2486	---
PDGFRA	chr4	55123753	C	T	Heterozygous	0.8	90	SNP	Novel	2520	---
PDGFRA	chr4	55133726	T	G	Heterozygous	46.2	26639	SNP	Novel	3984	---
PDGFRA	chr4	55141055	A	G	Homozygous	99	82145	SNP	Novel	3963	---
PDGFRA	chr4	55152039	-	T	Heterozygous	47.4	9810	INS	Novel	3989	---
PDGFRA	chr4	55152040	C	T	Heterozygous	47.2	27590	SNP	Novel	3996	---
KIT	chr4	55529197	C	T	Heterozygous	1.1	11	SNP	Novel	2164	---
KIT	chr4	55529200	-	A	Heterozygous	47.1	13523	INS	Novel	2149	---
KIT	chr4	55566266	G	A	Heterozygous	52.2	7399	SNP	Novel	948	---
KIT	chr4	55573049	G	A	Heterozygous	1.1	18	SNP	Novel	2967	---
KIT	chr4	55573132	G	A	Heterozygous	1	11	SNP	Novel	2961	---
KIT	chr4	55599322	C	T	Heterozygous	1	27	SNP	Novel	3994	---
ROS1	chr6	117641034	C	T	Heterozygous	1.4	42	SNP	Novel	3485	---
ROS1	chr6	117641053	C	T	Heterozygous	1.1	15	SNP	Novel	3552	---
ESR1	chr6	152419955	C	T	Heterozygous	1.5	51	SNP	Novel	3960	---
EGFR	chr7	55198979	T	C	Heterozygous	1.2	23	SNP	Novel	3999	---
EGFR	chr7	55199007	C	T	Heterozygous	1.1	16	SNP	Novel	3981	---
EGFR	chr7	55221797	C	T	Heterozygous	0.8	31	SNP	Novel	3836	---
EGFR	chr7	55228053	A	-	Homozygous	100	51033	DEL	Novel	2557	---
EGFR	chr7	55241636	G	A	Heterozygous	1	12	SNP	Novel	3999	---

EGFR	chr7	55242488	C	T	Heterozygous	0.9	51	SNP	Novel	3573	---
EGFR	chr7	55249078	C	T	Heterozygous	1	10	SNP	Novel	3325	---
EGFR	chr7	55259477	G	A	Heterozygous	1.2	26	SNP	Novel	3961	---
EGFR	chr7	55259486	G	A	Heterozygous	1.2	30	SNP	Novel	4000	---
MET	chr7	116398763	C	T	Heterozygous	51.1	30878	SNP	Novel	3998	---
MET	chr7	116417484	G	A	Heterozygous	1.4	30	SNP	Novel	2557	---
SMO	chr7	128845553	C	T	Heterozygous	1.1	18	SNP	Novel	3980	---
SMO	chr7	128845588	C	T	Heterozygous	1.2	24	SNP	Novel	4000	---
SMO	chr7	128845599	G	A	Heterozygous	1	12	SNP	Novel	4000	---
SMO	chr7	128849117	C	T	Heterozygous	1.2	66	SNP	Novel	3958	---
SMO	chr7	128850324	C	T	Heterozygous	1.1	18	SNP	Novel	3998	---
BRAF	chr7	140476704	G	A	Heterozygous	1	11	SNP	Novel	3999	---
BRAF	chr7	140476936	G	A	Heterozygous	48.1	28350	SNP	Novel	3992	---
BRAF	chr7	140501253	A	G	Heterozygous	2.1	139	SNP	Novel	4000	---
GNAQ	chr9	80409408	C	T	Heterozygous	1.1	20	SNP	Novel	3999	---
GNAQ	chr9	80409433	C	T	Heterozygous	1.7	84	SNP	Novel	3999	---
GNAQ	chr9	80409488	T	G	Heterozygous	1.5	39	SNP	Hotspot	3962	COSM28758
RET	chr10	43609910	C	T	Heterozygous	1	11	SNP	Novel	2962	---
RET	chr10	43609919	C	T	Heterozygous	1	14	SNP	Novel	2830	---
RET	chr10	43609980	C	T	Heterozygous	1.1	17	SNP	Novel	3313	---
RET	chr10	43609989	C	T	Heterozygous	1.3	30	SNP	Novel	3331	---
RET	chr10	43613843	G	T	Homozygous	100	83058	SNP	Novel	3962	---
RET	chr10	43615551	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
RET	chr10	43615577	C	T	Heterozygous	1.1	85	SNP	Novel	3957	---
RET	chr10	43615582	G	A	Heterozygous	1.1	20	SNP	Novel	3999	---
RET	chr10	43615616	G	A	Heterozygous	0.8	48	SNP	Novel	3907	---
RET	chr10	43615678	G	A	Heterozygous	1	53	SNP	Novel	3344	---
FGFR2	chr10	123247555	C	T	Heterozygous	1	10	SNP	Novel	3983	---
FGFR2	chr10	123312174	C	T	Heterozygous	0.9	26	SNP	Novel	2531	---
FGFR2	chr10	123312200	C	T	Heterozygous	1	10	SNP	Novel	2570	---
FGFR2	chr10	123350073	C	T	Heterozygous	1.2	15	SNP	Novel	1646	---
FGFR2	chr10	123350124	C	T	Heterozygous	0.8	16	SNP	Novel	1619	---
HRAS	chr11	533834	G	A	Heterozygous	0.9	50	SNP	Novel	3903	---
KRAS	chr12	25364764	G	A	Heterozygous	1.1	15	SNP	Novel	2679	---
KRAS	chr12	25364794	C	T	Heterozygous	1.1	13	SNP	Novel	2699	---
KRAS	chr12	25380271	C	T	Heterozygous	1	10	SNP	Novel	4000	---
KRAS	chr12	25386063	C	A	Heterozygous	93.2	26346	SNP	Novel	1332	---
KRAS	chr12	25386060	CCAC	TCAA	Heterozygous	1.3	26346	MNP	Novel	1332	---

KRAS	chr12	25389151	C	T	Heterozygous	1.3	20	SNP	Novel	2048	---
KRAS	chr12	25391158	G	A	Heterozygous	1.2	21	SNP	Novel	2715	---
KRAS	chr12	25398303	G	A	Heterozygous	1.2	21	SNP	Novel	3997	---
KRAS	chr12	25400199	C	T	Heterozygous	1.3	20	SNP	Novel	1754	---
KRAS	chr12	25400215	C	T	Heterozygous	1.2	15	SNP	Novel	1746	---
KRAS	chr12	25400231	G	A	Heterozygous	1.1	13	SNP	Novel	1740	---
ERBB3	chr12	56477694	A	T	Homozygous	99.4	83323	SNP	Novel	3994	---
ERBB3	chr12	56481597	C	T	Heterozygous	1	10	SNP	Novel	4000	---
ERBB3	chr12	56482331	C	T	Heterozygous	1	12	SNP	Novel	3980	---
CDK4	chr12	58142085	G	A	Heterozygous	1	11	SNP	Novel	2226	---
CDK4	chr12	58142114	G	A	Heterozygous	1.2	18	SNP	Novel	2704	---
CDK4	chr12	58142299	C	T	Heterozygous	1.1	20	SNP	Novel	4000	---
CDK4	chr12	58142316	G	A	Heterozygous	1.1	15	SNP	Novel	3993	---
CDK4	chr12	58142934	C	T	Heterozygous	0.9	54	SNP	Novel	3895	---
CDK4	chr12	58144430	G	A	Heterozygous	1.3	78	SNP	Novel	3037	---
CDK4	chr12	58144665	C	T	Heterozygous	46.9	27391	SNP	Novel	3997	---
CDK4	chr12	58144899	G	A	Heterozygous	1.1	18	SNP	Novel	3999	---
CDK4	chr12	58145449	C	T	Heterozygous	0.8	32	SNP	Novel	3326	---
CDK4	chr12	58145779	C	T	Heterozygous	1	12	SNP	Novel	3969	---
AKT1	chr14	105246506	C	T	Heterozygous	1.2	13	SNP	Novel	1533	---
AKT1	chr14	105246532	C	T	Heterozygous	1.2	20	SNP	Novel	2260	---
MAP2K1	chr15	66727522	G	A	Heterozygous	1	10	SNP	Novel	4000	---
IDH2	chr15	90631903	C	T	Heterozygous	0.8	36	SNP	Novel	3676	---
ERBB2	chr17	37868219	G	A	Heterozygous	1.1	15	SNP	Novel	3212	---
ERBB2	chr17	37872395	C	T	Heterozygous	0.8	75	SNP	Novel	2424	---
ERBB2	chr17	37872424	C	T	Heterozygous	0.9	25	SNP	Novel	2163	---
ERBB2	chr17	37872428	C	T	Heterozygous	0.9	20	SNP	Novel	2105	---
ERBB2	chr17	37872440	C	T	Heterozygous	1.4	71	SNP	Novel	1553	---
ERBB2	chr17	37872450	C	T	Heterozygous	1.6	162	SNP	Novel	1528	---
ERBB2	chr17	37872483	C	T	Heterozygous	1.4	20	SNP	Novel	1477	---
ERBB2	chr17	37879859	G	A	Heterozygous	1	13	SNP	Novel	3995	---
ERBB2	chr17	37880279	C	T	Heterozygous	1.1	18	SNP	Novel	3757	---
ERBB2	chr17	37880284	C	T	Heterozygous	1.1	20	SNP	Novel	3757	---
ERBB2	chr17	37880955	C	T	Heterozygous	1.1	18	SNP	Novel	4000	---
ERBB2	chr17	37880987	C	T	Heterozygous	1.3	32	SNP	Novel	4000	---
ERBB2	chr17	37881380	C	T	Heterozygous	1	13	SNP	Novel	4000	---
ERBB2	chr17	37881385	C	T	Heterozygous	1	11	SNP	Novel	3993	---
ERBB2	chr17	37883139	G	A	Heterozygous	1.2	23	SNP	Novel	2441	---

ERBB2	chr17	37883226	C	T	Heterozygous	1.1	14	SNP	Novel	2950	---
GNA11	chr19	3115006	C	T	Heterozygous	0.9	104	SNP	Novel	3276	---
GNA11	chr19	3115018	C	T	Heterozygous	1.1	76	SNP	Novel	3307	---
MAP2K2	chr19	4117558	C	T	Heterozygous	1.1	16	SNP	Novel	3999	---
MAP2K2	chr19	4117617	C	T	Heterozygous	1.2	23	SNP	Novel	3999	---
JAK3	chr19	17945909	G	A	Heterozygous	1.1	16	SNP	Novel	4000	---
JAK3	chr19	17948773	C	T	Heterozygous	1.2	27	SNP	Novel	3999	---
JAK3	chr19	17948785	C	T	Heterozygous	1	10	SNP	Novel	3998	---
JAK3	chr19	17948786	C	T	Heterozygous	1.1	15	SNP	Novel	3998	---
JAK3	chr19	17948831	C	T	Heterozygous	0.8	36	SNP	Novel	3938	---
JAK3	chr19	17948853	C	T	Heterozygous	1.2	27	SNP	Novel	3996	---
AR	chrX	66799287	C	T	Heterozygous	1.2	19	SNP	Novel	2893	---
AR	chrX	66866132	G	A	Heterozygous	1.1	13	SNP	Novel	2539	---
AR	chrX	66866175	G	A	Heterozygous	1.1	13	SNP	Novel	2687	---
AR	chrX	66866216	G	A	Heterozygous	1	60	SNP	Novel	2657	---
AR	chrX	66915240	C	T	Heterozygous	1.4	27	SNP	Novel	2252	---
AR	chrX	66915242	C	T	Heterozygous	1.1	11	SNP	Novel	2281	---
AR	chrX	66917668	C	T	Heterozygous	1.1	12	SNP	Novel	1838	---
AR	chrX	66917729	C	T	Heterozygous	1.2	13	SNP	Novel	1877	---
AR	chrX	66938983	C	T	Heterozygous	1.1	18	SNP	Novel	2966	---
AR	chrX	66939005	G	A	Heterozygous	1.3	25	SNP	Novel	2917	---
AR	chrX	66939009	C	T	Heterozygous	1.8	67	SNP	Novel	2910	---
AR	chrX	66941742	G	A	Heterozygous	1.4	28	SNP	Novel	2336	---
AR	chrX	66941746	G	A	Heterozygous	1.3	22	SNP	Novel	2361	---
AR	chrX	66941833	C	T	Heterozygous	0.8	21	SNP	Novel	3351	---
AR	chrX	66945200	G	A	Heterozygous	1.2	18	SNP	Novel	2183	---