BioChain®
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Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC **Lot No.:** C201056

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

Pathological Diagnosis: Adenocarcinoma, Entity

Tumor Size: diameter 5 cm

Location: right lower lobe

Components:
1. 5 curls per package
2. Certificate of Analysis

FOR IN VITRO RESEARCH USE ONLY APPROVED BY: _____

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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)

C201056

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11174391	G	A	Heterozygous	3.2	13	SNP	Novel	869	---
MTOR	chr1	11174479	G	A	Heterozygous	4.8	46	SNP	Novel	868	---
MTOR	chr1	11184567	C	T	Heterozygous	3.5	14	SNP	Novel	680	---
MTOR	chr1	11184620	C	T	Heterozygous	5	41	SNP	Novel	685	---
MTOR	chr1	11184643	G	A	Heterozygous	3.8	19	SNP	Novel	683	---
MTOR	chr1	11188228	G	A	Heterozygous	3.9	14	SNP	Novel	360	---
MTOR	chr1	11188279	G	A	Heterozygous	4.2	17	SNP	Novel	354	---
MTOR	chr1	11189786	C	T	Heterozygous	5.2	37	SNP	Novel	496	---
MTOR	chr1	11189799	G	A	Heterozygous	4	18	SNP	Novel	497	---
MTOR	chr1	11189833	G	A	Heterozygous	3.4	12	SNP	Novel	502	---
MTOR	chr1	11189867	G	A	Heterozygous	5.6	45	SNP	Novel	500	---
MTOR	chr1	11189875	C	T	Heterozygous	3.6	13	SNP	Novel	498	---
MTOR	chr1	11190768	G	A	Heterozygous	3.2	12	SNP	Novel	832	---
MTOR	chr1	11190787	G	A	Heterozygous	3.5	16	SNP	Novel	858	---
MTOR	chr1	11190820	C	T	Heterozygous	4.2	29	SNP	Novel	858	---
MTOR	chr1	11190843	G	A	Heterozygous	3.5	16	SNP	Novel	861	---
MTOR	chr1	11190856	G	A	Heterozygous	3.5	15	SNP	Novel	868	---
MTOR	chr1	11190874	G	A	Heterozygous	3.5	17	SNP	Novel	874	---
DDR2	chr1	162724511	C	T	Heterozygous	4.6	20	SNP	Novel	304	---
DDR2	chr1	162724601	G	A	Heterozygous	4	14	SNP	Novel	303	---
DDR2	chr1	162724612	C	T	Heterozygous	3.7	11	SNP	Novel	301	---
ALK	chr2	29416572	T	C	Homozygous	100	17524	SNP	Novel	1104	---
ALK	chr2	29436968	G	A	Heterozygous	3.6	14	SNP	Novel	580	---
ALK	chr2	29443675	C	T	Heterozygous	3.3	12	SNP	Novel	755	---
CTNNB1	chr3	41266041	C	T	Heterozygous	3.8	16	SNP	Novel	468	---
CTNNB1	chr3	41266061	G	A	Heterozygous	5.3	37	SNP	Novel	470	---
CTNNB1	chr3	41266096	G	A	Heterozygous	5.9	49	SNP	Novel	471	---
CTNNB1	chr3	41266097	G	A	Heterozygous	4.5	10	SNP	Hotspot	471	COSM5672
CTNNB1	chr3	41266128	C	G	Heterozygous	4.5	24	SNP	Novel	467	---
CTNNB1	chr3	41266146	G	A	Heterozygous	3.7	14	SNP	Novel	456	---
PIK3CA	chr3	178916728	G	A	Heterozygous	6.2	17	SNP	Hotspot	192	COSM30625
PIK3CA	chr3	178922278	T	-	Heterozygous	11.1	37	DEL	Novel	144	---
PIK3CA	chr3	178927977	C	T	Heterozygous	3.4	10	SNP	Novel	413	---
PIK3CA	chr3	178927983	C	T	Heterozygous	5.6	38	SNP	Novel	413	---
PIK3CA	chr3	178928022	G	A	Heterozygous	6.9	61	SNP	Novel	407	---

PIK3CA	chr3	178936152	C	-	Heterozygous	8.1	69	DEL	Novel	260	---
PIK3CA	chr3	178938845	G	A	Heterozygous	7.7	70	SNP	Novel	366	---
PIK3CA	chr3	178938959	G	A	Heterozygous	8	78	SNP	Novel	376	---
FGFR3	chr4	1797257	G	A	Heterozygous	3.8	12	SNP	Novel	288	---
FGFR3	chr4	1797334	C	T	Heterozygous	6.7	47	SNP	Novel	314	---
FGFR3	chr4	1807894	G	A	Homozygous	100	52634	SNP	Novel	3291	---
FGFR3	chr4	1809246	C	T	Heterozygous	5.9	59	SNP	Novel	613	---
FGFR3	chr4	1809317	G	A	Heterozygous	4.6	36	SNP	Novel	787	---
FGFR3	chr4	1809319	G	A	Heterozygous	3.9	22	SNP	Novel	791	---
FGFR3	chr4	1809321	G	A	Heterozygous	4.1	25	SNP	Novel	789	---
FGFR3	chr4	1809323	C	T	Heterozygous	7.5	130	SNP	Novel	790	---
FGFR3	chr4	1809525	T	G	Heterozygous	4.9	45	SNP	Novel	791	---
PDGFRA	chr4	55097782	C	T	Heterozygous	3.6	16	SNP	Novel	689	---
PDGFRA	chr4	55104304	C	T	Heterozygous	4	21	SNP	Novel	621	---
PDGFRA	chr4	55104355	C	T	Heterozygous	4.1	22	SNP	Novel	640	---
PDGFRA	chr4	55123760	C	T	Heterozygous	4	19	SNP	Novel	519	---
PDGFRA	chr4	55133675	C	T	Heterozygous	4.2	27	SNP	Novel	738	---
PDGFRA	chr4	55133759	G	A	Heterozygous	5.3	53	SNP	Novel	730	---
PDGFRA	chr4	55141055	A	G	Heterozygous	95.7	4961	SNP	Novel	322	---
PDGFRA	chr4	55141054	CA	TG	Heterozygous	4.3	4961	MNP	Novel	322	---
KIT	chr4	55529152	C	T	Heterozygous	5.2	18	SNP	Novel	174	---
KIT	chr4	55529200	-	A	Heterozygous	70.1	1513	INS	Novel	184	---
KIT	chr4	55566266	G	A	Heterozygous	68.6	1227	SNP	Novel	156	---
KIT	chr4	55573070	G	A	Heterozygous	4	12	SNP	Novel	199	---
KIT	chr4	55573099	T	C	Heterozygous	7.5	42	SNP	Novel	199	---
KIT	chr4	55589801	G	A	Heterozygous	3.2	25	SNP	Novel	3587	---
KIT	chr4	55593481	A	G	Heterozygous	53.3	8935	SNP	Novel	1590	---
KIT	chr4	55593609	G	A	Heterozygous	4.5	11	SNP	Hotspot	691	COSM1251
KIT	chr4	55593639	GTTTACATA	ATTTACATA	Heterozygous	4.3	68	MNP	Novel	673	---
KIT	chr4	55594236	C	T	Heterozygous	5	47	SNP	Novel	776	---
ROS1	chr6	117638342	G	A	Heterozygous	3.3	12	SNP	Novel	784	---
ROS1	chr6	117638389	G	A	Heterozygous	4.6	36	SNP	Novel	787	---
ROS1	chr6	117641039	C	T	Heterozygous	4	22	SNP	Novel	733	---
ROS1	chr6	117641078	C	T	Heterozygous	6.5	90	SNP	Novel	753	---
ROS1	chr6	117641101	C	T	Heterozygous	3.2	10	SNP	Novel	759	---
EGFR	chr7	55221842	C	T	Heterozygous	4.1	22	SNP	Novel	715	---
EGFR	chr7	55221901	C	T	Heterozygous	4.6	34	SNP	Novel	725	---
EGFR	chr7	55228016	G	A	Heterozygous	4.6	25	SNP	Novel	432	---

EGFR	chr7	55228036	G	A	Heterozygous	4.2	19	SNP	Novel	432	---
EGFR	chr7	55242434	G	A	Heterozygous	6.3	61	SNP	Novel	504	---
EGFR	chr7	55242436	G	A	Heterozygous	8.5	117	SNP	Novel	504	---
EGFR	chr7	55242455	T	C	Heterozygous	5.2	38	SNP	Novel	502	---
EGFR	chr7	55242507	C	T	Heterozygous	7.1	77	SNP	Novel	492	---
EGFR	chr7	55249063	G	A	Heterozygous	55.3	5373	SNP	Novel	911	---
EGFR	chr7	55259534	G	A	Heterozygous	4.8	62	SNP	Novel	1318	---
MET	chr7	116313483	C	T	Heterozygous	5	21	SNP	Novel	262	---
MET	chr7	116313569	G	A	Heterozygous	4.6	18	SNP	Novel	260	---
MET	chr7	116339335	C	T	Heterozygous	7.5	142	SNP	Novel	851	---
MET	chr7	116339408	G	A	Heterozygous	4.3	32	SNP	Novel	859	---
MET	chr7	116339443	G	A	Heterozygous	3.5	16	SNP	Novel	849	---
MET	chr7	116339446	G	A	Heterozygous	3.7	18	SNP	Novel	848	---
MET	chr7	116403153	C	T	Heterozygous	5	27	SNP	Novel	358	---
MET	chr7	116403172	G	A	Heterozygous	6.1	42	SNP	Novel	361	---
MET	chr7	116403180	C	T	Heterozygous	4.2	17	SNP	Novel	356	---
MET	chr7	116411971	G	A	Heterozygous	6	33	SNP	Novel	265	---
MET	chr7	116411987	C	T	Heterozygous	8.7	69	SNP	Novel	265	---
MET	chr7	116412052	C	T	Heterozygous	6.3	37	SNP	Novel	254	---
MET	chr7	116415138	G	A	Heterozygous	3.4	11	SNP	Novel	505	---
MET	chr7	116417428	C	T	Heterozygous	4	33	SNP	Novel	349	---
MET	chr7	116417516	C	T	Heterozygous	5	26	SNP	Novel	363	---
SMO	chr7	128845510	C	T	Heterozygous	4.7	41	SNP	Novel	857	---
SMO	chr7	128845513	C	T	Heterozygous	4.1	26	SNP	Novel	861	---
SMO	chr7	128849191	C	T	Heterozygous	3.3	15	SNP	Novel	1136	---
BRAF	chr7	140453128	G	A	Heterozygous	4.2	13	SNP	Novel	192	---
BRAF	chr7	140453169	G	A	Heterozygous	4.7	16	SNP	Novel	192	---
BRAF	chr7	140453213	G	A	Heterozygous	4.4	14	SNP	Novel	183	---
BRAF	chr7	140476698	C	T	Heterozygous	3.7	17	SNP	Novel	673	---
BRAF	chr7	140501253	A	G	Heterozygous	3.3	30	SNP	Novel	3999	---
JAK2	chr9	5073761	G	A	Heterozygous	12.2	128	SNP	Novel	263	---
JAK2	chr9	5073799	C	T	Heterozygous	26.9	493	SNP	Novel	264	---
JAK2	chr9	5073820	C	T	Heterozygous	10.1	90	SNP	Novel	258	---
GNAQ	chr9	80409495	C	T	Heterozygous	7.4	59	SNP	Novel	324	---
GNAQ	chr9	80409498	C	T	Heterozygous	3.7	12	SNP	Novel	323	---
RET	chr10	43609974	C	T	Heterozygous	3.3	16	SNP	Novel	1264	---
RET	chr10	43609989	C	T	Heterozygous	3.9	30	SNP	Novel	1260	---
RET	chr10	43615574	G	A	Heterozygous	7.9	106	SNP	Novel	543	---

RET	chr10	43617397	C	T	Heterozygous	4.3	8	SNP	Hotspot	468	COSM3415038
RET	chr10	43617424	G	A	Heterozygous	3.6	13	SNP	Novel	440	---
FGFR2	chr10	123258006	C	T	Heterozygous	4.4	55	SNP	Novel	1653	---
FGFR2	chr10	123274733	G	A	Heterozygous	4	22	SNP	Novel	728	---
FGFR2	chr10	123274790	C	T	Heterozygous	3.5	15	SNP	Novel	735	---
FGFR2	chr10	123279645	G	A	Heterozygous	3.3	18	SNP	Novel	1807	---
HRAS	chr11	533819	C	T	Heterozygous	3.3	12	SNP	Novel	723	---
HRAS	chr11	533831	C	T	Heterozygous	4.5	34	SNP	Novel	749	---
HRAS	chr11	533864	G	A	Heterozygous	3.2	10	SNP	Novel	755	---
KRAS	chr12	25364811	C	T	Heterozygous	3.5	11	SNP	Novel	427	---
KRAS	chr12	25378611	C	T	Heterozygous	4.7	22	SNP	Novel	317	---
KRAS	chr12	25378643	C	T	Heterozygous	3.8	12	SNP	Novel	318	---
KRAS	chr12	25386052	C	T	Heterozygous	4.6	17	SNP	Novel	238	---
KRAS	chr12	25386062	-	A	Homozygous	100	1947	INS	Novel	229	---
KRAS	chr12	25386063	C	A	Heterozygous	94.1	3618	SNP	Novel	239	---
KRAS	chr12	25386063	CC	AT	Heterozygous	5	3618	MNP	Novel	239	---
KRAS	chr12	25387194	G	A	Heterozygous	9.8	103	SNP	Novel	328	---
KRAS	chr12	25391158	G	A	Heterozygous	6.4	45	SNP	Novel	345	---
KRAS	chr12	25391167	C	T	Heterozygous	4.3	18	SNP	Novel	345	---
KRAS	chr12	25398201	G	T	Heterozygous	3.6	11	SNP	Novel	361	---
KRAS	chr12	25398208	C	T	Heterozygous	5.2	30	SNP	Novel	362	---
KRAS	chr12	25398241	A	G	Heterozygous	3.5	10	SNP	Novel	373	---
KRAS	chr12	25398262	C	T	Heterozygous	4.9	25	SNP	Novel	371	---
KRAS	chr12	25398300	C	T	Heterozygous	4.2	17	SNP	Novel	361	---
KRAS	chr12	25400196	C	T	Heterozygous	5.7	28	SNP	Novel	245	---
KRAS	chr12	25400208	C	T	Heterozygous	8.5	63	SNP	Novel	247	---
KRAS	chr12	25400215	C	T	Heterozygous	6.1	32	SNP	Novel	246	---
ERBB3	chr12	56477694	A	T	Homozygous	100	14654	SNP	Novel	921	---
ERBB3	chr12	56477702	C	T	Heterozygous	5.4	64	SNP	Novel	915	---
ERBB3	chr12	56481664	G	A	Heterozygous	3.1	15	SNP	Novel	881	---
ERBB3	chr12	56482563	C	T	Heterozygous	3.4	12	SNP	Novel	798	---
ERBB3	chr12	56482578	G	A	Heterozygous	3.8	20	SNP	Novel	797	---
ERBB3	chr12	56482604	G	A	Heterozygous	3.4	13	SNP	Novel	799	---
ERBB3	chr12	56482633	C	T	Heterozygous	5.3	55	SNP	Novel	798	---
ERBB3	chr12	56482649	A	G	Heterozygous	3.9	22	SNP	Novel	795	---
ERBB3	chr12	56482652	G	A	Heterozygous	3.8	20	SNP	Novel	794	---
CDK4	chr12	58142155	G	A	Heterozygous	5.1	26	SNP	Novel	336	---
CDK4	chr12	58142296	C	T	Heterozygous	3.8	17	SNP	Novel	580	---

CDK4	chr12	58142309	C	T	Heterozygous	3.3	10	SNP	Novel	581	---
CDK4	chr12	58142325	C	T	Heterozygous	4.1	21	SNP	Novel	585	---
CDK4	chr12	58142331	T	C	Heterozygous	5.3	43	SNP	Novel	588	---
CDK4	chr12	58142346	G	A	Heterozygous	4	19	SNP	Novel	581	---
CDK4	chr12	58142350	C	T	Heterozygous	3.6	14	SNP	Novel	580	---
CDK4	chr12	58142354	G	A	Heterozygous	4	20	SNP	Novel	576	---
CDK4	chr12	58142964	C	T	Heterozygous	4.3	87	SNP	Novel	3065	---
CDK4	chr12	58144429	G	A	Heterozygous	4.3	23	SNP	Novel	539	---
CDK4	chr12	58144450	C	T	Heterozygous	3.7	15	SNP	Novel	540	---
CDK4	chr12	58144453	C	T	Heterozygous	3.5	13	SNP	Novel	541	---
CDK4	chr12	58144469	C	T	Heterozygous	3.5	13	SNP	Novel	539	---
CDK4	chr12	58144665	C	T	Heterozygous	53.1	3746	SNP	Novel	676	---
CDK4	chr12	58145433	G	A	Heterozygous	4.7	32	SNP	Novel	593	---
CDK4	chr12	58145458	C	T	Heterozygous	5.8	54	SNP	Novel	590	---
CDK4	chr12	58145729	C	T	Heterozygous	5.6	47	SNP	Novel	521	---
CDK4	chr12	58145743	G	A	Heterozygous	4.4	24	SNP	Novel	527	---
AKT1	chr14	105246571	G	A	Heterozygous	4.1	17	SNP	Novel	392	---
AKT1	chr14	105246577	G	T	Heterozygous	3.9	14	SNP	Novel	389	---
AKT1	chr14	105246579	C	T	Heterozygous	6.4	51	SNP	Novel	388	---
AKT1	chr14	105246580	A	G	Heterozygous	7.7	75	SNP	Novel	388	---
MAP2K1	chr15	66774130	G	A	Heterozygous	3.6	18	SNP	Novel	884	---
IDH2	chr15	90631930	G	A	Heterozygous	3.5	12	SNP	Novel	512	---
ERBB2	chr17	37872413	C	T	Heterozygous	5	51	SNP	Novel	907	---
ERBB2	chr17	37872450	C	T	Heterozygous	5.6	64	SNP	Novel	753	---
ERBB2	chr17	37880313	C	T	Heterozygous	3.5	16	SNP	Novel	976	---
ERBB2	chr17	37881524	G	A	Heterozygous	3.1	10	SNP	Novel	967	---
ERBB2	chr17	37881573	CTC	TTT	Heterozygous	3.8	23	MNP	Novel	869	---
ERBB2	chr17	37881609	C	T	Heterozygous	5	50	SNP	Novel	834	---
ERBB2	chr17	37881631	C	T	Heterozygous	4.1	24	SNP	Novel	765	---
ERBB2	chr17	37883145	C	T	Heterozygous	3.1	11	SNP	Novel	995	---
ERBB2	chr17	37883184	C	T	Heterozygous	3.3	13	SNP	Novel	1042	---
ERBB2	chr17	37883218	G	A	Heterozygous	3.4	36	SNP	Novel	1018	---
GNA11	chr19	3115002	G	A	Heterozygous	3.9	23	SNP	Novel	872	---
GNA11	chr19	3115078	C	A	Heterozygous	3.6	18	SNP	Novel	884	---
GNA11	chr19	3115095	G	A	Heterozygous	3.4	15	SNP	Novel	874	---
GNA11	chr19	3115103	G	A	Heterozygous	3.8	23	SNP	Novel	859	---
JAK3	chr19	17945972	G	A	Heterozygous	6.6	127	SNP	Novel	1059	---
JAK3	chr19	17946019	G	A	Heterozygous	3.7	21	SNP	Novel	1066	---

JAK3	chr19	17948753	C	T	Heterozygous	3.5	17	SNP	Novel	1041	---
JAK3	chr19	17948810	C	T	Heterozygous	3.2	12	SNP	Novel	1037	---
JAK3	chr19	17948846	G	A	Heterozygous	4.8	50	SNP	Novel	1031	---
JAK3	chr19	17948852	C	T	Heterozygous	3.9	26	SNP	Novel	1028	---
JAK3	chr19	17948867	C	T	Heterozygous	3.2	13	SNP	Novel	1021	---
AR	chrX	66866162	G	A	Heterozygous	3.6	18	SNP	Novel	822	---
AR	chrX	66915200	C	T	Heterozygous	3.4	13	SNP	Novel	522	---
AR	chrX	66917768	G	A	Heterozygous	5.1	36	SNP	Novel	510	---
AR	chrX	66941760	C	T	Heterozygous	5.2	54	SNP	Novel	851	---
AR	chrX	66941780	G	A	Heterozygous	3	10	SNP	Novel	1150	---
AR	chrX	66941834	C	T	Heterozygous	3.6	23	SNP	Novel	1238	---
AR	chrX	66941841	G	A	Heterozygous	3	11	SNP	Novel	1247	---
AR	chrX	66945162	G	A	Heterozygous	4.5	26	SNP	Novel	556	---
AR	chrX	66945219	C	A	Heterozygous	4.5	26	SNP	Novel	561	---