BioChain®
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Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC **Lot No.:** C201096

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

Pathological Diagnosis: Squamous cell carcinoma, central type. Grade 2-3. No pleural invasion.

Tumor Size: 3 x 3 x 2.5 cm

Location: right upper 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)

C201096

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11184545	T	C	Heterozygous	5.5	21	SNP	Novel	181	---
MTOR	chr1	11184592	G	A	Heterozygous	33.3	487	SNP	Novel	183	---
JAK1	chr1	65310558	C	T	Heterozygous	45.9	372	SNP	Novel	85	---
JAK1	chr1	65310564	T	C	Heterozygous	27.1	165	SNP	Novel	85	---
JAK1	chr1	65311191	C	T	Heterozygous	7.2	129	SNP	Novel	862	---
JAK1	chr1	65311199	G	A	Heterozygous	7.6	145	SNP	Novel	860	---
JAK1	chr1	65311231	C	T	Heterozygous	7.1	133	SNP	Novel	915	---
NRAS	chr1	115258694	C	T	Heterozygous	29.2	224	SNP	Novel	106	---
NRAS	chr1	115258753	C	T	Heterozygous	37.4	328	SNP	Novel	107	---
ALK	chr2	29416418	G	A	Heterozygous	46.4	548	SNP	Novel	125	---
ALK	chr2	29416543	G	A	Heterozygous	34.6	551	SNP	Novel	191	---
ALK	chr2	29416572	T	C	Homozygous	100	3156	SNP	Novel	197	---
ALK	chr2	29416615	G	A	Heterozygous	34.8	577	SNP	Novel	207	---
ALK	chr2	29420401	G	A	Heterozygous	60.9	637	SNP	Novel	92	---
ALK	chr2	29432720	G	A	Heterozygous	8.7	137	SNP	Novel	572	---
ERBB4	chr2	212488727	C	T	Heterozygous	24.2	480	SNP	Novel	297	---
RAF1	chr3	12632344	C	T	Heterozygous	5.5	15	SNP	Novel	91	---
RAF1	chr3	12632370	G	A	Heterozygous	4.4	11	SNP	Novel	91	---
RAF1	chr3	12645648	C	T	Heterozygous	23.3	235	SNP	Novel	150	---
RAF1	chr3	12645662	G	A	Heterozygous	43	591	SNP	Novel	151	---
RAF1	chr3	12645688	G	A	Heterozygous	43.7	605	SNP	Novel	151	---
RAF1	chr3	12645690	G	A	Heterozygous	43.7	605	SNP	Novel	151	---
RAF1	chr3	12645693	G	A	Heterozygous	43	591	SNP	Novel	151	---
PIK3CA	chr3	178922274	C	A	Homozygous	100	520	SNP	Novel	35	---
PIK3CA	chr3	178928113	C	T	Heterozygous	9.5	65	SNP	Novel	199	---
PIK3CA	chr3	178936097	G	A	Heterozygous	89.7	334	SNP	Hotspot	29	COSM29315
PIK3CA	chr3	178947891	G	A	Heterozygous	14.2	329	SNP	Novel	528	---
PIK3CA	chr3	178947894	G	A	Heterozygous	7	79	SNP	Novel	525	---
FGFR3	chr4	1797303	G	A	Heterozygous	18.1	85	SNP	Novel	83	---
FGFR3	chr4	1797693	C	T	Heterozygous	10.4	137	SNP	Novel	394	---
FGFR3	chr4	1797705	G	A	Heterozygous	10.6	146	SNP	Novel	397	---
FGFR3	chr4	1797708	C	T	Heterozygous	8.5	95	SNP	Novel	398	---
FGFR3	chr4	1797723	G	A	Heterozygous	10.6	145	SNP	Novel	398	---
FGFR3	chr4	1797736	G	A	Heterozygous	8.8	101	SNP	Novel	398	---
FGFR3	chr4	1797748	C	T	Heterozygous	11.1	159	SNP	Novel	398	---

FGFR3	chr4	1803552	G	A	Heterozygous	8.8	159	SNP	Novel	645	---
FGFR3	chr4	1803577	G	A	Heterozygous	9.2	175	SNP	Novel	664	---
FGFR3	chr4	1803590	G	A	Heterozygous	7.1	99	SNP	Novel	662	---
FGFR3	chr4	1803651	G	A	Heterozygous	9.4	183	SNP	Novel	659	---
FGFR3	chr4	1805820	C	T	Heterozygous	56.9	686	SNP	Novel	116	---
FGFR3	chr4	1805872	C	T	Heterozygous	15.4	90	SNP	Novel	117	---
FGFR3	chr4	1806163	G	A	Heterozygous	22.2	257	SNP	Novel	185	---
FGFR3	chr4	1807834	G	A	Heterozygous	7.8	28	SNP	Novel	102	---
FGFR3	chr4	1807894	G	A	Homozygous	100	1526	SNP	Novel	102	---
FGFR3	chr4	1807926	G	A	Heterozygous	12.5	56	SNP	Novel	96	---
FGFR3	chr4	1807929	G	A	Heterozygous	31.2	240	SNP	Novel	96	---
FGFR3	chr4	1808333	C	T	Heterozygous	22.6	372	SNP	Novel	266	---
FGFR3	chr4	1808338	C	T	Heterozygous	17.3	238	SNP	Novel	266	---
FGFR3	chr4	1809499	C	T	Heterozygous	92.2	622	SNP	Novel	51	---
FGFR3	chr4	1809504	C	T	Heterozygous	97.9	734	SNP	Novel	48	---
PDGFRA	chr4	55097835	G	C	Heterozygous	57.9	234	SNP	Novel	38	---
PDGFRA	chr4	55123767	C	T	Heterozygous	55.8	259	SNP	Novel	43	---
PDGFRA	chr4	55126213	C	T	Heterozygous	8.5	33	SNP	Novel	106	---
PDGFRA	chr4	55126236	G	A	Heterozygous	33.6	279	SNP	Novel	107	---
PDGFRA	chr4	55133720	G	A	Homozygous	100	290	SNP	Novel	22	---
PDGFRA	chr4	55133726	T	G	Heterozygous	95.5	263	SNP	Novel	22	---
KIT	chr4	55592204	G	A	Heterozygous	20.1	250	SNP	Novel	219	---
KIT	chr4	55592209	C	T	Heterozygous	16.4	181	SNP	Novel	219	---
KIT	chr4	55593496	C	T	Heterozygous	14.1	135	SNP	Novel	205	---
KIT	chr4	55599257	G	A	Heterozygous	57	528	SNP	Novel	86	---
ROS1	chr6	117638404	G	A	Heterozygous	9.6	24	SNP	Novel	52	---
ESR1	chr6	152419998	A	G	Heterozygous	41.9	109	SNP	Novel	31	---
EGFR	chr7	55199003	A	G	Heterozygous	4.2	14	SNP	Novel	236	---
EGFR	chr7	55199027	C	T	Heterozygous	15.7	182	SNP	Novel	235	---
EGFR	chr7	55199045	T	-	Heterozygous	18.4	230	DEL	Novel	228	---
EGFR	chr7	55211111	C	T	Heterozygous	3.8	14	SNP	Novel	426	---
EGFR	chr7	55228049	G	A	Heterozygous	11.9	26	SNP	Novel	42	---
EGFR	chr7	55233015	C	T	Heterozygous	14.3	266	SNP	Novel	419	---
EGFR	chr7	55233037	C	T	Heterozygous	7.2	69	SNP	Novel	415	---
EGFR	chr7	55233047	C	T	Heterozygous	7.3	71	SNP	Novel	409	---
MET	chr7	116340214	G	A	Heterozygous	9.7	189	SNP	Novel	642	---
MET	chr7	116340262	A	G	Heterozygous	49	3207	SNP	Novel	659	---
MET	chr7	116340266	G	A	Heterozygous	12.9	340	SNP	Novel	658	---

MET	chr7	116340275	C	T	Heterozygous	9.9	197	SNP	Novel	647	---
MET	chr7	116340310	G	A	Heterozygous	3.6	15	SNP	Novel	632	---
MET	chr7	116398763	C	T	Heterozygous	38	715	SNP	Novel	221	---
MET	chr7	116398798	C	T	Heterozygous	9.9	76	SNP	Novel	222	---
MET	chr7	116415096	C	T	Heterozygous	17.3	78	SNP	Novel	81	---
MET	chr7	116415181	C	T	Heterozygous	17.3	78	SNP	Novel	81	---
MET	chr7	116423439	C	T	Heterozygous	18.9	356	SNP	Novel	338	---
MET	chr7	116423453	C	T	Heterozygous	7	53	SNP	Novel	330	---
MET	chr7	116434471	C	T	Heterozygous	97.6	601	SNP	Novel	41	---
MET	chr7	116434524	C	T	Heterozygous	97.6	601	SNP	Novel	41	---
MET	chr7	116434544	C	T	Homozygous	100	613	SNP	Novel	40	---
MET	chr7	116434553	C	T	Homozygous	100	613	SNP	Novel	40	---
SMO	chr7	128846361	C	T	Heterozygous	4.6	31	SNP	Novel	581	---
SMO	chr7	128846392	C	T	Heterozygous	8.8	141	SNP	Novel	579	---
SMO	chr7	128846419	C	T	Heterozygous	9	148	SNP	Novel	575	---
SMO	chr7	128850271	C	T	Heterozygous	28.8	389	SNP	Novel	184	---
SMO	chr7	128850315	T	C	Heterozygous	4.9	17	SNP	Novel	185	---
SMO	chr7	128850340	T	C	Heterozygous	18.1	180	SNP	Novel	182	---
BRAF	chr7	140453128	G	A	Heterozygous	34.3	187	SNP	Novel	70	---
BRAF	chr7	140453155	C	T	Heterozygous	57.7	372	SNP	Hotspot	71	COSM27639
BRAF	chr7	140476942	C	T	Heterozygous	12.1	150	SNP	Novel	313	---
BRAF	chr7	140494270	G	A	Heterozygous	5	17	SNP	Novel	160	---
BRAF	chr7	140500219	G	A	Heterozygous	16.2	252	SNP	Novel	314	---
BRAF	chr7	140500230	C	T	Heterozygous	11.7	141	SNP	Novel	317	---
BRAF	chr7	140500235	C	T	Heterozygous	11.6	140	SNP	Novel	319	---
BRAF	chr7	140501254	C	T	Heterozygous	6	72	SNP	Novel	733	---
BRAF	chr7	140501263	T	C	Heterozygous	4.5	32	SNP	Novel	740	---
BRAF	chr7	140501264	G	A	Heterozygous	4.9	41	SNP	Novel	740	---
BRAF	chr7	140501284	G	A	Heterozygous	4.8	41	SNP	Novel	744	---
BRAF	chr7	140501294	G	A	Heterozygous	4	24	SNP	Novel	745	---
BRAF	chr7	140507789	CC	TT	Heterozygous	7	59	MNP	Novel	383	---
BRAF	chr7	140507813	C	T	Heterozygous	7	61	SNP	Novel	383	---
JAK2	chr9	5073795	A	G	Heterozygous	20.5	51	SNP	Novel	39	---
RET	chr10	43613843	G	T	Heterozygous	48.5	1775	SNP	Novel	371	---
FGFR2	chr10	123247593	A	G	Heterozygous	4.1	12	SNP	Novel	193	---
FGFR2	chr10	123274787	C	T	Heterozygous	76.2	167	SNP	Novel	21	---
FGFR2	chr10	123274807	C	T	Heterozygous	76.2	167	SNP	Novel	21	---
FGFR2	chr10	123276885	C	T	Heterozygous	52.2	732	SNP	Novel	136	---

FGFR2	chr10	123279612	C	T	Heterozygous	75	237	SNP	Novel	28	---
FGFR2	chr10	123284091	C	T	Heterozygous	31.8	156	SNP	Novel	66	---
FGFR2	chr10	123284105	C	T	Heterozygous	48.4	285	SNP	Novel	64	---
FGFR2	chr10	123284115	C	T	Heterozygous	49.2	286	SNP	Novel	63	---
FGFR2	chr10	123306083	CC	TT	Heterozygous	24.2	98	MNP	Novel	62	---
FGFR2	chr10	123354419	G	A	Heterozygous	7	46	SNP	Novel	272	---
FGFR2	chr10	123354454	C	T	Heterozygous	4.9	21	SNP	Novel	267	---
FGFR2	chr10	123354464	C	T	Heterozygous	9.8	87	SNP	Novel	266	---
HRAS	chr11	533832	C	T	Heterozygous	23.6	390	SNP	Novel	250	---
HRAS	chr11	533846	C	T	Heterozygous	24.9	420	SNP	Novel	249	---
HRAS	chr11	533890	G	A	Heterozygous	20.7	308	SNP	Novel	246	---
HRAS	chr11	533913	C	T	Heterozygous	25.4	427	SNP	Novel	244	---
HRAS	chr11	534271	C	T	Heterozygous	8.5	181	SNP	Novel	823	---
HRAS	chr11	534292	C	T	Heterozygous	8.2	164	SNP	Novel	815	---
HRAS	chr11	534299	C	T	Heterozygous	13.6	344	SNP	Novel	596	---
KRAS	chr12	25380282	G	A	Homozygous	100	768	SNP	Novel	55	---
KRAS	chr12	25389166	C	T	Heterozygous	10.7	39	SNP	Novel	84	---
ERBB3	chr12	56478828	C	T	Heterozygous	60	562	SNP	Novel	85	---
ERBB3	chr12	56481637	C	T	Heterozygous	8.1	31	SNP	Novel	111	---
ERBB3	chr12	56481698	G	A	Heterozygous	11.7	57	SNP	Novel	111	---
ERBB3	chr12	56482548	C	T	Heterozygous	14.6	41	SNP	Novel	48	---
ERBB3	chr12	56482580	G	A	Heterozygous	6.2	13	SNP	Novel	48	---
ERBB3	chr12	56482647	C	T	Heterozygous	15.2	41	SNP	Novel	46	---
CDK4	chr12	58142304	T	C	Heterozygous	5	11	SNP	Novel	60	---
CDK4	chr12	58142921	C	T	Heterozygous	18.5	379	SNP	Novel	379	---
CDK4	chr12	58142947	C	T	Heterozygous	18.1	369	SNP	Novel	381	---
CDK4	chr12	58144665	C	T	Homozygous	100	1117	SNP	Novel	74	---
CDK4	chr12	58144675	G	A	Heterozygous	69	558	SNP	Novel	71	---
CDK4	chr12	58144902	C	T	Heterozygous	61.6	709	SNP	Novel	99	---
CDK4	chr12	58144909	C	T	Heterozygous	28.3	214	SNP	Novel	99	---
CDK4	chr12	58144931	C	T	Heterozygous	60.6	692	SNP	Novel	99	---
CDK4	chr12	58145945	G	A	Heterozygous	4.6	56	SNP	Novel	1349	---
CDK4	chr12	58145957	CC	TT	Heterozygous	7.1	325	MNP	Novel	1369	---
CDK4	chr12	58146007	G	A	Heterozygous	3.9	33	SNP	Novel	1343	---
CDK4	chr12	58146026	C	T	Heterozygous	5	71	SNP	Novel	1319	---
ERBB2	chr17	37872445	C	T	Homozygous	100	379	SNP	Novel	27	---
ERBB2	chr17	37872453	A	G	Heterozygous	7.1	10	SNP	Novel	28	---
ERBB2	chr17	37879627	G	A	Heterozygous	4.2	57	SNP	Novel	1966	---

ERBB2	chr17	37879644	C	T	Heterozygous	3.5	26	SNP	Novel	1971	---
ERBB2	chr17	37879685	T	C	Heterozygous	3	13	SNP	Novel	1977	---
ERBB2	chr17	37879865	G	A	Heterozygous	9.2	140	SNP	Novel	522	---
ERBB2	chr17	37879878	G	A	Heterozygous	9.2	140	SNP	Novel	522	---
ERBB2	chr17	37879913	G	A	Heterozygous	4.7	28	SNP	Novel	513	---
ERBB2	chr17	37880303	G	A	Heterozygous	96.2	697	SNP	Novel	53	---
ERBB2	chr17	37880321	C	G	Heterozygous	43.5	378	SNP	Novel	92	---
ERBB2	chr17	37881057	C	T	Heterozygous	21	236	SNP	Novel	186	---
ERBB2	chr17	37881360	T	C	Heterozygous	9.8	33	SNP	Novel	82	---
ERBB2	chr17	37882878	T	C	Heterozygous	4.9	12	SNP	Novel	81	---
GNA11	chr19	3118939	G	A	Heterozygous	5.3	27	SNP	Novel	228	---
GNA11	chr19	3118958	G	A	Heterozygous	18.5	244	SNP	Novel	238	---
GNA11	chr19	3118973	C	T	Heterozygous	8.3	56	SNP	Novel	229	---
JAK3	chr19	17949144	C	T	Heterozygous	7.1	106	SNP	Novel	721	---
JAK3	chr19	17949170	C	T	Heterozygous	4.2	25	SNP	Novel	721	---
AR	chrX	66945138	G	A	Homozygous	100	323	SNP	Novel	24	---