BioChain®
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Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC **Lot No.: C201041**

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: 49 year(s) old

Pathological Diagnosis: Adenocarcinoma

Tumor Size: N/A

Location: left 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)

C201041

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Type	Allele Source	Coverage	Allele Name
MTOR	chr1	11190867	G	A	Heterozygous	3.2	14	SNP	Novel	1273	---
MTOR	chr1	11190872	G	A	Heterozygous	3.4	17	SNP	Novel	1277	---
JAK1	chr1	65310489	T	C	Heterozygous	50.1	12753	SNP	Novel	2512	---
ALK	chr2	29416366	G	C	Homozygous	100	24748	SNP	Novel	1551	---
ALK	chr2	29416378	C	T	Heterozygous	3.5	23	SNP	Novel	1596	---
ALK	chr2	29416572	T	C	Homozygous	100	33840	SNP	Novel	2121	---
ALK	chr2	29445458	G	T	Homozygous	100	63755	SNP	Novel	3983	---
PIK3CA	chr3	178922274	C	A	Heterozygous	57.8	2869	SNP	Novel	448	---
PIK3CA	chr3	178922318	G	A	Heterozygous	5.6	45	SNP	Novel	498	---
PIK3CA	chr3	178938959	G	A	Heterozygous	3.8	22	SNP	Novel	986	---
FGFR3	chr4	1797275	C	T	Heterozygous	44.9	2879	SNP	Novel	675	---
FGFR3	chr4	1797303	G	A	Heterozygous	3.4	12	SNP	Novel	684	---
FGFR3	chr4	1797741	T	C	Heterozygous	46.5	18117	SNP	Novel	3996	---
FGFR3	chr4	1801219	C	T	Heterozygous	44	10690	SNP	Novel	2580	---
FGFR3	chr4	1807894	G	A	Homozygous	100	63869	SNP	Novel	3993	---
FGFR3	chr4	1809494	C	T	Heterozygous	4.2	44	SNP	Novel	1508	---
PDGFRA	chr4	55097760	C	T	Heterozygous	3	10	SNP	Novel	1403	---
PDGFRA	chr4	55104344	C	T	Heterozygous	3.1	10	SNP	Novel	1009	---
PDGFRA	chr4	55121553	C	T	Heterozygous	3.7	20	SNP	Novel	948	---
PDGFRA	chr4	55121569	G	A	Heterozygous	5	54	SNP	Novel	944	---
PDGFRA	chr4	55140997	G	A	Heterozygous	3.4	15	SNP	Novel	1103	---
PDGFRA	chr4	55141055	A	G	Homozygous	98.1	16454	SNP	Novel	1077	---
PDGFRA	chr4	55141077	G	A	Heterozygous	3.4	15	SNP	Novel	1071	---
PDGFRA	chr4	55152101	C	T	Heterozygous	3.8	36	SNP	Novel	1969	---
KIT	chr4	55529200	-	A	Heterozygous	56.7	2500	INS	Novel	430	---
KIT	chr4	55529202	C	T	Heterozygous	3.4	10	SNP	Novel	447	---
KIT	chr4	55566266	G	A	Heterozygous	50.5	1508	SNP	Novel	295	---
KIT	chr4	55594266	C	T	Heterozygous	3.5	23	SNP	Novel	1758	---
KIT	chr4	55598935	G	A	Heterozygous	5.2	52	SNP	Novel	834	---
ROS1	chr6	117641121	C	T	Heterozygous	3.3	16	SNP	Novel	1268	---
EGFR	chr7	55242433	G	A	Heterozygous	3.8	26	SNP	Novel	1264	---
EGFR	chr7	55242434	G	A	Heterozygous	3.4	17	SNP	Novel	1264	---
BRAF	chr7	140476936	G	A	Homozygous	100	63907	SNP	Novel	3992	---
JAK2	chr9	5073748	G	A	Heterozygous	4.5	32	SNP	Novel	713	---
GNAQ	chr9	80409421	C	T	Heterozygous	4.2	35	SNP	Novel	1101	---

GNAQ	chr9	80409494	C	T	Heterozygous	3.8	24	SNP	Novel	1057	---
RET	chr10	43615578	G	A	Heterozygous	3.2	13	SNP	Novel	1211	---
RET	chr10	43617336	C	T	Heterozygous	3.8	19	SNP	Novel	816	---
FGFR2	chr10	123350040	G	A	Heterozygous	3.8	14	SNP	Novel	392	---
FGFR2	chr10	123350088	G	A	Heterozygous	4.2	18	SNP	Novel	409	---
KRAS	chr12	25386063	C	A	Heterozygous	48.4	2105	SNP	Novel	436	---
KRAS	chr12	25386107	C	T	Heterozygous	3.9	17	SNP	Novel	515	---
KRAS	chr12	25386966	C	T	Heterozygous	3.5	16	SNP	Novel	794	---
KRAS	chr12	25391239	G	C	Heterozygous	55.1	5002	SNP	Novel	853	---
KRAS	chr12	25398246	G	A	Heterozygous	3	10	SNP	Novel	1214	---
KRAS	chr12	25400180	C	T	Heterozygous	3.6	13	SNP	Novel	535	---
KRAS	chr12	25400206	G	T	Heterozygous	61.5	3778	SNP	Novel	538	---
KRAS	chr12	25400268	G	A	Heterozygous	3.3	11	SNP	Novel	540	---
ERBB3	chr12	56477694	A	T	Homozygous	100	37113	SNP	Novel	2320	---
CDK4	chr12	58142094	G	A	Heterozygous	3.2	10	SNP	Novel	651	---
CDK4	chr12	58142337	G	A	Heterozygous	3.2	16	SNP	Novel	1559	---
CDK4	chr12	58144390	C	T	Heterozygous	3.4	15	SNP	Novel	1133	---
CDK4	chr12	58144665	C	T	Homozygous	100	16384	SNP	Novel	1028	---
CDK4	chr12	58145458	C	T	Heterozygous	4.5	57	SNP	Novel	1453	---
CDK4	chr12	58145744	G	A	Heterozygous	3.4	16	SNP	Novel	1097	---
CDK4	chr12	58145795	G	A	Heterozygous	3.4	17	SNP	Novel	1144	---
CDK4	chr12	58145807	C	T	Heterozygous	4	30	SNP	Novel	1137	---
AKT1	chr14	105246467	C	T	Heterozygous	3.5	14	SNP	Novel	623	---
AKT1	chr14	105246532	C	T	Heterozygous	5.7	74	SNP	Novel	898	---
ERBB2	chr17	37868236	C	T	Heterozygous	3.4	18	SNP	Novel	1254	---
BRCA1	chr17	41203149	G	A	Heterozygous	3.1	11	SNP	Novel	1242	---
GNA11	chr19	3114999	C	T	Heterozygous	3.5	20	SNP	Novel	1253	---
GNA11	chr19	3115035	C	T	Heterozygous	4.6	54	SNP	Novel	1253	---
MAP2K2	chr19	4117581	C	T	Heterozygous	3.3	14	SNP	Novel	1226	---
MAP2K2	chr19	4117593	C	T	Heterozygous	4.5	49	SNP	Novel	1213	---
JAK3	chr19	17948774	C	T	Heterozygous	3.2	13	SNP	Novel	1294	---
JAK3	chr19	17948853	C	T	Heterozygous	3	10	SNP	Novel	1259	---