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Data Sheet

Product Name: CancerSeq AMS Paraffin Tissue Curl

Catalog No.: T2235152-AC

Lot No.: C202122

 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: <u>58</u> year(s) old Female: year(s) old

Pathological Diagnosis: Adenocarcinoma, Mixed

Tumor Size: diameter 3 cm

Location: left upper lobe

Components:

- 1. 5 curls per package
- 2. Certificate of Analysis

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	КІТ	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
Туре	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)

C202122

Gene ID	Chrom	Position	Ref	Variant	Allele Call	Frequency	Quality	Туре	Allele Source	Coverage	Allele Name
MTOR	chr1	11188040	С	Т	Heterozygous	1.9	13	SNP	Novel	161	
MTOR	chr1	11188060	С	Т	Heterozygous	1.9	13	SNP	Novel	159	
MTOR	chr1	11217223	С	Т	Heterozygous	2.7	19	SNP	Novel	150	
JAK1	chr1	65310489	Т	С	Heterozygous	66.1	531	SNP	Novel	59	
NRAS	chr1	115258738	С	Т	Heterozygous	1.9	20	SNP	Novel	420	
NRAS	chr1	115258747	С	Т	Heterozygous	2.4	26	SNP	Hotspot	332	COSM564
NRAS	chr1	115258748	С	Т	Heterozygous	1.5	12	SNP	Hotspot	329	COSM563
ALK	chr2	29420405	Т	А	Heterozygous	4	20	SNP	Novel	101	
ALK	chr2	29445409	G	A	Heterozygous	2.7	10	SNP	Novel	73	
ALK	chr2	29445423	С	Т	Heterozygous	2.7	10	SNP	Novel	74	
ALK	chr2	29445458	G	Т	Heterozygous	44.1	294	SNP	Novel	59	
ALK	chr2	29445469	G	A	Heterozygous	7	21	SNP	Novel	57	
IDH1	chr2	209113142	С	Т	Heterozygous	8.8	15	SNP	Novel	34	
IDH1	chr2	209113146	С	Т	Heterozygous	8.8	15	SNP	Novel	34	
RAF1	chr3	12632354	G	A	Heterozygous	3.5	15	SNP	Novel	86	
RAF1	chr3	12632407	С	Т	Heterozygous	3.4	15	SNP	Novel	88	
RAF1	chr3	12632422	G	A	Heterozygous	3.4	14	SNP	Novel	89	
RAF1	chr3	12632424	С	Т	Heterozygous	4.5	20	SNP	Novel	89	
RAF1	chr3	12645690	G	A	Heterozygous	1.4	15	SNP	Novel	877	
RAF1	chr3	12645712	G	A	Heterozygous	1.6	22	SNP	Novel	878	
RAF1	chr3	12645716	G	A	Heterozygous	1.3	12	SNP	Novel	878	
RAF1	chr3	12645719	G	A	Heterozygous	1.7	26	SNP	Novel	877	
RAF1	chr3	12645729	G	A	Heterozygous	1.6	21	SNP	Novel	865	
PIK3CA	chr3	178947820	С	Т	Heterozygous	1.4	19	SNP	Novel	1232	
PIK3CA	chr3	178952030	G	A	Heterozygous	19.2	29	SNP	Novel	26	
FGFR3	chr4	1797676	С	Т	Heterozygous	1.6	16	SNP	Novel	516	
FGFR3	chr4	1797688	С	A	Heterozygous	2.4	36	SNP	Novel	545	
FGFR3	chr4	1797695	С	Т	Heterozygous	1.7	66	SNP	Novel	537	
FGFR3	chr4	1797748	С	Т	Heterozygous	0.8	21	SNP	Novel	523	
FGFR3	chr4	1803555	С	Т	Heterozygous	1.1	15	SNP	Novel	455	
FGFR3	chr4	1803592	С	Т	Heterozygous	1.9	22	SNP	Novel	467	
FGFR3	chr4	1803606	A	G	Heterozygous	4.1	88	SNP	Novel	518	
FGFR3	chr4	1805822	С	Т	Heterozygous	2.9	14	SNP	Novel	103	
FGFR3	chr4	1805826	С	Т	Heterozygous	4	20	SNP	Novel	100	
FGFR3	chr4	1806104	G	Α	Heterozygous	3.2	20	SNP	Novel	126	

FGFR3	chr4	1806119	G	А	Heterozygous	1.6	10	SNP	Hotspot	126	COSM24842
FGFR3	chr4	1806136	G	А	Heterozygous	8.1	70	SNP	Novel	123	
FGFR3	chr4	1807857	С	A	Heterozygous	1.5	11	SNP	Novel	200	
FGFR3	chr4	1807888	G	A	Heterozygous	2.7	22	SNP	Novel	187	
FGFR3	chr4	1807891	G	A	Heterozygous	2.1	16	SNP	Novel	191	
FGFR3	chr4	1807894	G	A	Heterozygous	99.5	3653	SNP	Novel	190	
FGFR3	chr4	1807910	G	A	Heterozygous	3.1	27	SNP	Novel	192	
FGFR3	chr4	1807915	G	A	Heterozygous	2.1	16	SNP	Novel	192	
FGFR3	chr4	1808356	A	С	Heterozygous	0.9	24	SNP	Novel	739	
FGFR3	chr4	1808376	С	Т	Heterozygous	1.2	10	SNP	Novel	759	
FGFR3	chr4	1808387	G	A	Heterozygous	2.4	99	SNP	Novel	753	
FGFR3	chr4	1808393	С	Т	Heterozygous	1.2	10	SNP	Novel	757	
FGFR3	chr4	1808399	С	Т	Heterozygous	1.3	13	SNP	Novel	758	
FGFR3	chr4	1809483	С	Т	Heterozygous	9.1	10	SNP	Novel	22	
FGFR3	chr4	1809493	С	Т	Heterozygous	9.5	10	SNP	Novel	21	
PDGFRA	chr4	55097835	G	С	Heterozygous	77.3	187	SNP	Novel	22	
PDGFRA	chr4	55126221	G	А	Heterozygous	7.3	15	SNP	Novel	41	
PDGFRA	chr4	55133710	С	Т	Heterozygous	15	15	SNP	Novel	20	
PDGFRA	chr4	55144139	С	Т	Heterozygous	1.8	26	SNP	Novel	224	
PDGFRA	chr4	55144173	G	А	Heterozygous	3.2	30	SNP	Novel	217	
PDGFRA	chr4	55144191	G	А	Heterozygous	1.8	14	SNP	Novel	217	
КІТ	chr4	55589766	G	А	Heterozygous	4.8	41	SNP	Novel	146	
КІТ	chr4	55589789	G	А	Heterozygous	5.2	48	SNP	Novel	153	
КІТ	chr4	55593427	Т	G	Heterozygous	3.5	14	SNP	Novel	85	
КІТ	chr4	55593473	А	С	Heterozygous	3.5	13	SNP	Novel	86	
EGFR	chr7	55198974	С	Т	Heterozygous	5	10	SNP	Novel	40	
EGFR	chr7	55211078	С	Т	Heterozygous	1.3	11	SNP	Novel	461	
EGFR	chr7	55219910	G	A	Heterozygous	3	16	SNP	Novel	99	
EGFR	chr7	55219951	Т	С	Heterozygous	2.2	11	SNP	Novel	90	
EGFR	chr7	55221804	G	A	Heterozygous	3	10	SNP	Novel	66	
EGFR	chr7	55221825	С	Т	Heterozygous	2.9	10	SNP	Novel	68	
EGFR	chr7	55221863	G	Т	Heterozygous	7.3	21	SNP	Novel	55	
EGFR	chr7	55221867	С	Т	Heterozygous	7.3	19	SNP	Novel	55	
EGFR	chr7	55228053	A	-	Homozygous	100	363	DEL	Novel	26	
EGFR	chr7	55233015	С	Т	Heterozygous	1	27	SNP	Novel	1339	
EGFR	chr7	55233037	С	Т	Heterozygous	1.7	35	SNP	Novel	1328	
EGFR	chr7	55241662	Т	A	Heterozygous	3.7	40	SNP	Novel	242	
EGFR	chr7	55241710	Т	G	Heterozygous	11.1	92	SNP	Novel	108	

EGFR	chr7	55241728	G	А	Heterozygous	2.9	14	SNP	Novel	102	
EGFR	chr7	55249022	G	A	Heterozygous	9.5	21	SNP	Novel	42	
EGFR	chr7	55249034	С	Т	Heterozygous	7.1	15	SNP	Novel	42	
EGFR	chr7	55249063	G	A	Heterozygous	11.9	28	SNP	Novel	42	
MET	chr7	116340301	A	G	Heterozygous	2.2	16	SNP	Novel	138	
MET	chr7	116340309	G	А	Heterozygous	4.4	34	SNP	Novel	137	
MET	chr7	116398818	G	А	Heterozygous	1.7	10	SNP	Novel	119	
MET	chr7	116423412	G	А	Heterozygous	2.1	20	SNP	Novel	282	
MET	chr7	116423445	А	G	Heterozygous	2.4	59	SNP	Novel	288	
MET	chr7	116423472	G	А	Heterozygous	2	19	SNP	Novel	296	
SMO	chr7	128846341	G	А	Heterozygous	1.6	46	SNP	Novel	548	
SMO	chr7	128846361	С	Т	Heterozygous	1.5	15	SNP	Novel	616	
SMO	chr7	128846366	С	Т	Heterozygous	2.6	48	SNP	Novel	608	
SMO	chr7	128846377	С	Т	Heterozygous	1.3	12	SNP	Novel	615	
SMO	chr7	128846384	С	Т	Heterozygous	1	36	SNP	Novel	607	
SMO	chr7	128846395	G	С	Heterozygous	10.1	434	SNP	Novel	602	
SMO	chr7	128846403	С	Т	Heterozygous	2	25	SNP	Novel	500	
SMO	chr7	128850297	С	Т	Heterozygous	3.1	29	SNP	Novel	227	
SMO	chr7	128850329	С	Т	Heterozygous	1.9	17	SNP	Novel	320	
BRAF	chr7	140476866	G	A	Heterozygous	2.4	17	SNP	Novel	168	
BRAF	chr7	140476925	G	А	Heterozygous	1.8	12	SNP	Novel	170	
BRAF	chr7	140476936	G	А	Heterozygous	37	701	SNP	Novel	162	
BRAF	chr7	140481371	С	Т	Heterozygous	2.7	24	SNP	Novel	225	
BRAF	chr7	140481438	A	G	Heterozygous	4	39	SNP	Novel	199	
BRAF	chr7	140494214	G	А	Heterozygous	3.5	10	SNP	Novel	57	
BRAF	chr7	140500238	G	А	Heterozygous	1.4	11	SNP	Novel	442	
BRAF	chr7	140500266	G	А	Heterozygous	2.6	40	SNP	Novel	491	
BRAF	chr7	140500284	G	А	Heterozygous	1.3	10	SNP	Novel	471	
BRAF	chr7	140501312	G	А	Heterozygous	2.1	16	SNP	Novel	187	
BRAF	chr7	140501318	G	А	Heterozygous	3.3	28	SNP	Novel	183	
GNAQ	chr9	80412457	Т	А	Heterozygous	1.7	12	SNP	Novel	176	
GNAQ	chr9	80412483	G	А	Heterozygous	1.6	11	SNP	Novel	184	
RET	chr10	43609142	G	А	Heterozygous	4.4	15	SNP	Novel	68	
RET	chr10	43609155	С	Т	Heterozygous	3	10	SNP	Novel	67	
RET	chr10	43609167	С	Т	Heterozygous	3	10	SNP	Novel	67	
RET	chr10	43609175	Т	С	Heterozygous	9	35	SNP	Novel	67	
RET	chr10	43613822	G	A	Heterozygous	1.8	12	SNP	Novel	169	
RET	chr10	43613833	С	Т	Heterozygous	1.2	17	SNP	Novel	168	

RET	chr10	43613877	С	Т	Heterozygous	2.3	17	SNP	Novel	174	
FGFR2	chr10	123274771	Т	A	Heterozygous	12.5	15	SNP	Novel	24	
FGFR2	chr10	123279684	-	С	Heterozygous	8.2	51	INS	Novel	98	
FGFR2	chr10	123279706	G	A	Heterozygous	4.7	20	SNP	Novel	86	
HRAS	chr11	534248	С	-	Heterozygous	3.2	13	DEL	Novel	94	
HRAS	chr11	534273	С	Т	Heterozygous	3.2	14	SNP	Novel	94	
HRAS	chr11	534300	A	Т	Heterozygous	3.3	15	SNP	Novel	90	
KRAS	chr12	25380279	С	Т	Heterozygous	3.4	15	SNP	Novel	88	
KRAS	chr12	25398285	С	A	Heterozygous	16.7	21	SNP	Hotspot	24	COSM516
ERBB3	chr12	56477635	G	A	Heterozygous	5.5	27	SNP	Novel	55	
ERBB3	chr12	56477694	А	Т	Heterozygous	46.9	252	SNP	Novel	49	
ERBB3	chr12	56478842	С	Т	Heterozygous	3.7	20	SNP	Novel	108	
ERBB3	chr12	56478860	С	Т	Heterozygous	5.3	34	SNP	Novel	114	
ERBB3	chr12	56478863	G	A	Heterozygous	2.6	14	SNP	Novel	115	
ERBB3	chr12	56482297	С	Т	Heterozygous	2	15	SNP	Novel	201	
ERBB3	chr12	56482305	G	A	Heterozygous	1.5	10	SNP	Novel	204	
ERBB3	chr12	56482315	С	Т	Heterozygous	9.6	155	SNP	Novel	229	
ERBB3	chr12	56482379	G	А	Heterozygous	3.5	30	SNP	Novel	173	
CDK4	chr12	58142920	С	Т	Heterozygous	2.3	19	SNP	Novel	217	
CDK4	chr12	58142926	С	Т	Heterozygous	2.3	19	SNP	Novel	218	
CDK4	chr12	58142965	С	Т	Heterozygous	1.5	10	SNP	Novel	202	
CDK4	chr12	58145960	С	Т	Heterozygous	1.9	14	SNP	Novel	156	
MAP2K1	chr15	66727450	С	A	Heterozygous	24.3	151	SNP	Novel	70	
MAP2K1	chr15	66727475	А	G	Heterozygous	17.4	140	SNP	Novel	92	
MAP2K1	chr15	66729193	A	Т	Heterozygous	10.8	44	SNP	Novel	65	
MAP2K1	chr15	66774154	G	Т	Heterozygous	15.9	45	SNP	Novel	44	
ERBB2	chr17	37872429	С	Т	Heterozygous	8.3	15	SNP	Novel	36	
ERBB2	chr17	37872474	G	A	Heterozygous	10.5	36	SNP	Novel	57	
ERBB2	chr17	37879611	G	A	Heterozygous	1.5	26	SNP	Novel	1393	
ERBB2	chr17	37879621	G	Т	Heterozygous	1.9	46	SNP	Novel	1425	
ERBB2	chr17	37879626	G	A	Heterozygous	1.1	93	SNP	Novel	1409	
ERBB2	chr17	37879665	G	A	Heterozygous	1.1	12	SNP	Novel	1410	
ERBB2	chr17	37879684	А	G	Heterozygous	1.8	39	SNP	Novel	1419	
ERBB2	chr17	37879823	G	A	Heterozygous	1.8	19	SNP	Novel	440	
ERBB2	chr17	37879851	A	G	Heterozygous	1.4	13	SNP	Novel	486	
ERBB2	chr17	37879860	G	А	Heterozygous	1.3	10	SNP	Novel	470	
ERBB2	chr17	37879866	A	-	Heterozygous	1.4	21	DEL	Novel	513	
ERBB2	chr17	37879872	G	A	Heterozygous	1.5	15	SNP	Novel	533	

ERBB2	chr17	37879883	Т	А	Heterozygous	6.1	168	SNP	Novel	506	
ERBB2	chr17	37879890	G	A	Heterozygous	2.4	44	SNP	Novel	468	
ERBB2	chr17	37880321	С	G	Heterozygous	15.4	21	SNP	Novel	26	
ERBB2	chr17	37880959	С	Т	Heterozygous	2.9	26	SNP	Novel	206	
ERBB2	chr17	37880960	A	С	Heterozygous	1.9	15	SNP	Novel	206	
ERBB2	chr17	37881019	С	Т	Heterozygous	1.5	10	SNP	Novel	203	
ERBB2	chr17	37881038	С	Т	Heterozygous	2.5	21	SNP	Novel	199	
ERBB2	chr17	37882873	С	Т	Heterozygous	3	14	SNP	Novel	100	
GNA11	chr19	3118891	G	A	Heterozygous	1.5	11	SNP	Novel	275	
GNA11	chr19	3118907	G	A	Heterozygous	1.8	15	SNP	Novel	276	
GNA11	chr19	3118921	G	A	Heterozygous	1.4	17	SNP	Novel	281	
GNA11	chr19	3118935	G	A	Heterozygous	5.2	138	SNP	Novel	251	
GNA11	chr19	3118949	G	A	Heterozygous	1.8	15	SNP	Novel	273	
JAK3	chr19	17949136	G	A	Heterozygous	1.2	14	SNP	Novel	1065	
JAK3	chr19	17949162	GC	TA	Heterozygous	1.1	50	MNP	Novel	1155	
JAK3	chr19	17949164	Т	A	Heterozygous	1.2	13	SNP	Hotspot	1151	COSM48455
AR	chrX	66906916	A	Т	Heterozygous	3.6	39	SNP	Novel	251	