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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Sample Details

Cancer Type:	**Non-small Cell Lung Cancer**	Ordering Physician:	**Dr. Jane Smith**	Sample Type:	**FFPE,Block**
Patient ID:	**James Snow**	%Necrosis:		Sample ID:	**ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2**
Gender:	**Male**	%Cellularity:			
Date Of Birth:	**01 JAN 1980**	Reference Interval:		Collection Date:	**01 JUL 2016**
Sample Condition:	**Good**			Created On:	**01 SEP 2021 17:43**
				Sample Source:	**Tissue**

Results for Sequence Variations for Therapeutic Use

Gene Fusions (RNA) for Therapeutic Use

Gene	Display Name	Test Result	Read Count	Therapy
ROS1	ROS1 Fusion	**PRESENT**	1235	XALKORI® (crizotinib)

Gene	Display Name	Test Result	Read Count	Therapy
RET	RET Fusion	**ABSENT**	0	None Indicated

DNA Sequence Variants for Therapeutic Use

Note: Results for positive variants are listed first to provide therapy information, followed by variants with no calls, followed by variants that were reported as negative results.

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
BRAF	BRAF V600E	p.Val600Glu	c.1799T>A	**NEGATIVE**	0	COSM476	chr7:140453135	snv/mnv	None Indicated
BRAF	BRAF V600E	p.Val600Glu	c.1799_1800delTGinsAA	**NEGATIVE**	0	COSM475	chr7:140453135	snv/mnv	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2235_2249delGGAATTAAGAGAAGC	**NEGATIVE**	0	COSM6223	chr7:55242464	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2236_2250delGAATTAAGAGAAGCA	**NEGATIVE**	0.014	COSM6225	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Arg748del	c.2239_2247delTTAAGAGAA	**NEGATIVE**	0	COSM6218	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Glu749del	c.2235_2246delGGAATTAAGAGA	**NEGATIVE**	0	COSM28517	chr7:55242463	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsAsp	c.2238_2255delATTAAGAGAAGCAACATC	**NEGATIVE**	0	COSM6220	chr7:55242467	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsVal	c.2237_2255delAATTAAGAGAAGCAACATCinsT	**NEGATIVE**	0	COSM12384	chr7:55242467	del	None Indicated

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751del	c.2236_2253delGAATTAAGAGAAGCAACA	**NEGATIVE**	0	COSM12728	chr7:55242465	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsAla	c.2237_2251delAATTAAGAGAAGCAA	**NEGATIVE**	0	COSM12678	chr7:55242466	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsIle	c.2235_2252delGGAATTAAGAGAAGCAACinsAAT	**NEGATIVE**	0	COSM13551	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsValAla	c.2237_2253delAATTAAGAGAAGCAACAinsTTGCT	**NEGATIVE**	0	COSM12416	chr7:55242467	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2239_2248delTTAAGAGAAGinsC	**NEGATIVE**	0	COSM12382	chr7:55242466	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2238_2248delATTAAGAGAAGinsGC	**NEGATIVE**	0	COSM12422	chr7:55242468	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsGln	c.2239_2258delTTAAGAGAAGCAACATCTCCinsCA	**NEGATIVE**	0	COSM12387	chr7:55242469	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsSer	c.2240_2257delTAAGAGAAGCAACATCTC	**NEGATIVE**	0	COSM12370	chr7:55242469	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ser752del	c.2239_2256delTTAAGAGAAGCAACATCT	**NEGATIVE**	0	COSM6255	chr7:55242468	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751del	c.2240_2254delTAAGAGAAGCAACAT	**NEGATIVE**	0	COSM12369	chr7:55242467	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsGln	c.2238_2252delATTAAGAGAAGCAACinsGCA	**NEGATIVE**	0	COSM12419	chr7:55242468	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsPro	c.2239_2251delTTAAGAGAAGCAAinsC	**NEGATIVE**	0	COSM12383	chr7:55242466	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsSer	c.2240_2251delTAAGAGAAGCAA	**NEGATIVE**	0	COSM6210	chr7:55242469	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Ala750delinsThr	c.2234_2248delAGGAATTAAGAGAAG	**NEGATIVE**	0	COSM1190791	chr7:55242463	del	None Indicated

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EGFR	EGFR Exon 19 deletion	p.Lys745_Glu749del	c.2233_2247delAAGGAATTAAGAGAA	**NEGATIVE**	0	COSM26038	chr7:55242462	del	None Indicated
EGFR	EGFR Exon 20 Insertion	NA	NA	**NEGATIVE**	0	COSM26720	chr7:55248980	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValAsp	c.2311_2312insGCGTGGACA	**NEGATIVE**	0	COSM13428	chr7:55249002	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGCAGCGTGG	**NEGATIVE**	0	COSM18429	chr7:55249002	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGGAGCGTGG	**NEGATIVE**	0	COSM1235344	chr7:55249003	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insTyrValMet	c.2301_2302insTACGTGATG	**NEGATIVE**	0	COSM1651740	chr7:55249003	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Val769dup	c.2309_2310delACinsCCAGCGTGGAT	**NEGATIVE**	0	COSM13558	chr7:55249011	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insArgHis	c.2314_2315insGGCACC	**NEGATIVE**	0	COSM166390	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insHis	c.2314_2315insACC	**NEGATIVE**	0	COSM1238031	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHis	c.2319_2320insCCCCAC	**NEGATIVE**	0	COSM12380	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProThrHis	c.2315_2316insGACACACCC	**NEGATIVE**	0	COSM48923	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysLeu	c.2312_2313insACT	**NEGATIVE**	0	COSM6438147	chr7:55249014	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerGlyHis	c.2311_2312insGTGGCC	**NEGATIVE**	0	COSM1651744	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsThrHis	c.2311_2312insCAC	**NEGATIVE**	0	COSM22946	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsValHis	c.2311_2311delAinsGTCC	**NEGATIVE**	0	COSM5023007	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771delinsAlaGlyGly	c.2309_2312delACAAinsCTGGTGG	**NEGATIVE**	0	COSM12737	chr7:55249011	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAlaProTrp	c.2310_2311insGCACCGTGG	**NEGATIVE**	0	COSM20886	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsn	c.2313_2314insAAC	**NEGATIVE**	0	COSM13003	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnPro	c.2316_2317insAACCCC	**NEGATIVE**	0	MAN123	chr7:55249011	ins	None Indicated

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EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHis	c.2319_2320insAACCCCCAC	**NEGATIVE**	0	COSM12381	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHisGly	c.2320_2321insGCAACCCCCACG	**NEGATIVE**	0	COSM51544	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlnArgGly	c.2310_2311insCAGCGTGGC	**NEGATIVE**	0	COSM4970107	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGC	**NEGATIVE**	0	COSM13004	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGT	**NEGATIVE**	0	COSM12378	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyLeu	c.2310_2311insGGGTTA	**NEGATIVE**	0	COSM48921	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyPhe	c.2310_2311insGGGTTT	**NEGATIVE**	0	COSM655155	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyThr	c.2310_2311insGGCACA	**NEGATIVE**	0	COSM1238029	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insMetAlaThrPro	c.2311_2312insTGGCCACCCCCA	**NEGATIVE**	0	COSM26719	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insSerValGlu	c.2311_2312insGCGTCGAAA	**NEGATIVE**	0	COSM1651743	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insThr	c.2311_2312insCCA	**NEGATIVE**	0	COSM5023008	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insTyr	c.2310_2311insTAC	**NEGATIVE**	0	COSM1238030	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770delinsGlyTyr	c.2308_2309insGTT	**NEGATIVE**	0	COSM12427	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insGln	c.2319_2320insCAG	**NEGATIVE**	0	COSM131552	chr7:55249021	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insThrGlnProPro	c.2319_2320insACACAACCCCCC	**NEGATIVE**	0	COSM3727813	chr7:55249020	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773delinsProAsnProTyr	c.2317_2318insCTAACCCCT	**NEGATIVE**	0	COSM1735761	chr7:55249019	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaIle	c.2302_2303insTAGCCA	**NEGATIVE**	0	COSM13559	chr7:55249000	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaSerVal	c.2308_2309insCCAGCGTGG	**NEGATIVE**	0	COSM12376	chr7:55248998	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaThrLeu	c.2302_2303insCGCTGGCCA	**NEGATIVE**	0	COSM12425	chr7:55248998	ins	None Indicated

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EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHis	c.2319_2320insCAC	**NEGATIVE**	0	COSM12377	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAla	c.2320_2321insCCCACG	**NEGATIVE**	0	COSM1238028	chr7:55249016	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAsn	c.2319_2320insAACCAC	**NEGATIVE**	0	COSM5023006	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2321_2322insCCACGT	**NEGATIVE**	0	COSM18432	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2322_2323insCACGTG	**NEGATIVE**	0	COSM22948	chr7:55249018	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insThrPro	c.2316_2316delCinsAACCCCT	**NEGATIVE**	0	COSM12388	chr7:55249018	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insVal	c.2316_2317insGTT	**NEGATIVE**	0	COSM255205	chr7:55249018	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insVal	c.2308_2309insTGG	**NEGATIVE**	0	COSM6506514	chr7:55249006	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAlaAsn	c.2303_2304insTGTGGCCAA	**NEGATIVE**	0	COSM1651741	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAspAsn	c.2313_2314insGTGGACAAC	**NEGATIVE**	0	COSM20885	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValCys	c.2307_2308insTGCGTG	**NEGATIVE**	0	COSM12379	chr7:55249004	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValGlyVal	c.2308_2309insGGGTCGTGG	**NEGATIVE**	0	COSM18430	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspAsnPro	c.2316_2317insGACAACCCC	**NEGATIVE**	0	COSM1651745	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGGGAC	**NEGATIVE**	0	COSM85795	chr7:55249008	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGCGAC	**NEGATIVE**	0	COSM22955	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGluArgGly	c.2309_2310insGCGTGGAGA	**NEGATIVE**	0	COSM1651742	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insMetAlaSerValAsp	c.2307_2308insATGGCCAGCGTGGAC	**NEGATIVE**	0	COSM28638	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val774_Cys775insProArg	c.2322_2323insCCACGT	**NEGATIVE**	0	COSM4170223	chr7:55249024	ins	None Indicated
EGFR	EGFR L858R	p.Leu858Arg	c.2573T>G	**NEGATIVE**	0	COSM6224	chr7:55259515	snv/mnv	None Indicated

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The following reference files are used:hg19, Oncomine™ Dx Target Panel US v3.2 Fusion Reference. Associated therapy is within Non-Small Cell Lung Carcinoma (NSCLC).

Due to the nature of hotspot calling when several variants are in the same genomic region in close proximity to each other the presence of a positive variant can sometimes result in a "no call" for the neighboring variant instead of a negative call. The reason for such "no call" can be determined by investigating the FR tag value for the variant in VCF file. When the reason reported is "REJECTION", the positive variant call is correct and repeat testing of sample is not needed due to the "no call".

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Results for Analytical Sequence Variations Detected

Analytical DNA Sequence Variants Detected

No Analytical DNA sequence variations detected

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Intended Use

The Oncomine™ Dx Target Test is a qualitative in vitro diagnostic test that uses targeted high throughput, parallel-sequencing technology to detect single nucleotide variants (SNVs), deletions, and insertions in 23 genes from DNA and fusions in ROS1 and RET from RNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumor tissue samples from patients with non-small cell lung cancer (NSCLC), and IDH1 SNVs from FFPE tumor tissue samples from patients with cholangiocarcinoma (CC) using the Ion PGM™ Dx System.

The test is indicated to aid in selecting NSCLC and CC patients for treatment with the targeted therapies listed in Table 1 in accordance with the approved therapeutic product labeling.

Table 1. List of Variants for Therapeutic Use

Tissue Type	Gene	Variant	Targeted Therapy
Non-small Cell Lung Cancer (NSCLC)	BRAF	BRAF V600E mutation	TAFINLAR® (dabrafenib) in combination with MEKINIST® (trametinib)
	EGFR	EGFR L858R mutation, EGFR Exon 19 deletions	IRESSA® (gefitinib)
	EGFR	EGFR Exon 20 Insertions	EXKIVITY™ (mobocertinib)
	RET	RET fusions	GAVRETO™ (pralsetinib)
	ROS1	ROS1 fusions	XALKORI® (crizotinib)
Cholangiocarcinoma (CC)	IDH1	IDH1 R132C, IDH1 R132G, IDH1 R132H, IDH1 R132L, IDH1 R132S	TIBSOVO® (ivosidenib)

Safe and effective use has not been established for selecting therapies using this device for the variants other than those in Table 1.

Results other than those listed in Table 1 are indicated for use only in patients who have already been considered for all appropriate therapies (including those listed in Table 1). Analytical performance using NSCLC specimens has been established for the variants listed in Table 2.

Table 2. List of Variants with Established Analytical Performance Only

Gene	Variant ID/ Type	Amino Acid Change	Nucleotide Change
KRAS	COSM512	p.Gly12Phe	c.34_35delGGinsTT
KRAS	COSM516	p.Gly12Cys	c.34G>T
MET	COSM707	p.Thr1010Ile	c.3029C>T
PIK3CA	COSM754	p.Asn345Lys	c.1035T>A

The test is not indicated to be used for standalone diagnostic purposes, screening, monitoring, risk assessment, or prognosis.

Warnings and Precautions

For NSCLC, the Oncomine Dx Target Test assay definition file includes prevalent but not all rare or newly identified RET isoforms, ROS1 isoforms, and EGFR exon 20 insertions. The Oncomine Dx Target Test may miss rare or newly identified:

- RET isoforms carried by a subset of patients who may derive benefit from GAVRETO™ (pralsetinib)
- ROS1 isoforms carried by a subset of patients who may derive benefit from XALKORI® (crizotinib)
- EGFR exon 20 insertions carried by a subset of patients who may derive benefit from EXKIVITY™ (mobocertinib)

Limitations

- The Oncomine™ Dx Target Test has only been validated for use with FFPE tumor slide specimens.
- DNA and/or RNA from a single sample extraction must meet the concentration requirements specified in the procedure. Do not use DNA from one extraction with RNA from a different extraction.
- The effects of potential variations in FFPE specimen fixation have not been evaluated.
- Extraction from FFPE sample curls has not been evaluated.
- A potential source of contamination in the procedure is nucleic acid from previous sample processing steps. Follow good laboratory practices and all precautions and guidelines in these user guides to avoid cross-contamination between samples.
- The Oncomine™ Dx Target Test is a qualitative test. The test is not for quantitative measurements of percent mutation.

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

- The safe and effective use of the variants reported in the Analytical Sequence Variations Detected section has not been established for selecting therapy using this device. The variants for KRAS (COSM512/p.Gly12Phe/c.34_35delGGinsTT and COSM516/p.Gly12Cys/c.34G>T), MET (COSM707/p.Thr1010Ile/c.3029C>T) and PIK3CA (COSM754/p.Asn345Lys/c.1035T>A) have been analytically validated. Performance of all other variants identified by the test, other than clinically validated therapeutic variants and analytically validated variants, has not been directly demonstrated.

Test Description

The Oncomine™ Dx Target Test reports the following genes in each indication:

Non-small cell lung cancer (NSCLC):

- Single nucleotide variants (SNVs), deletions, and insertions from DNA: AKT1, ALK, BRAF, CDK4, DDR2, EGFR, ERBB2, ERBB3, FGFR2, FGFR3, HRAS, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET and ROS1.
- Fusions from RNA: RET and ROS1.

Cholangiocarcinoma (CC):
• Single nucleotide variants (SNVs) from DNA: IDH1.

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Results for Analytical Sequence Variations Not Detected

Analytical DNA Sequence Variants Not Detected

Note: Results for no calls are listed first, followed by variants that were reported as negative results.

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
KRAS	p.Gly12Arg	c.34G>C	**NO CALL**	0	COSM518	chr12:25398285	snv/mnv
KRAS	p.Gly12Cys	c.34G>T	**NO CALL**	0.031	COSM516	chr12:25398285	snv/mnv
KRAS	p.Gly12Ser	c.34G>A	**NO CALL**	0	COSM517	chr12:25398285	snv/mnv

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
AKT1	p.Glu17Lys	c.49G>A	**NEGATIVE**	0	COSM33765	chr14:105246551	snv/mnv
ALK	p.Arg1275Gln	c.3824G>A	**NEGATIVE**	0	COSM28056	chr2:29432664	snv/mnv
ALK	p.Arg1275Leu	c.3824G>T	**NEGATIVE**	0	COSM28060	chr2:29432664	snv/mnv
ALK	p.Cys1156Tyr	c.3467G>A	**NEGATIVE**	0	COSM99136	chr2:29445258	snv/mnv
ALK	p.Gly1128Ala	c.3383G>C	**NEGATIVE**	0	COSM98475	chr2:29445450	snv/mnv
ALK	p.Gly1202Arg	c.3604G>A	**NEGATIVE**	0	COSM144250	chr2:29443613	snv/mnv
ALK	p.Ile1171Asn	c.3512T>A	**NEGATIVE**	0	COSM28498	chr2:29445213	snv/mnv
ALK	p.Ile1171Thr	c.3512T>C	**NEGATIVE**	0	COSM4381100	chr2:29445213	snv/mnv
ALK	p.Leu1152Arg	c.3455T>G	**NEGATIVE**	0	COSM97185	chr2:29445270	snv/mnv
ALK	p.Leu1152Pro	c.3455T>C	**NEGATIVE**	0	COSM1407659	chr2:29445270	snv/mnv
ALK	p.Leu1196Gln	c.3587T>A	**NEGATIVE**	0	COSM1169447	chr2:29443630	snv/mnv
ALK	p.Leu1196Met	c.3586C>A	**NEGATIVE**	0	COSM99137	chr2:29443631	snv/mnv
ALK	p.Phe1174Cys	c.3521T>G	**NEGATIVE**	0	COSM28059	chr2:29443696	snv/mnv
ALK	p.Phe1174Ile	c.3520T>A	**NEGATIVE**	0	COSM28491	chr2:29443697	snv/mnv
ALK	p.Phe1174Leu	c.3522C>G	**NEGATIVE**	0	COSM28061	chr2:29443695	snv/mnv
ALK	p.Phe1174Leu	c.3522C>A	**NEGATIVE**	0	COSM28055	chr2:29443695	snv/mnv
ALK	p.Phe1174Leu	c.3520T>C	**NEGATIVE**	0	COSM28057	chr2:29443697	snv/mnv
ALK	p.Phe1174Ser	c.3521T>C	**NEGATIVE**	0	COSM53063	chr2:29443696	snv/mnv
ALK	p.Phe1174Val	c.3520T>G	**NEGATIVE**	0	COSM28054	chr2:29443697	snv/mnv
ALK	p.Phe1245Cys	c.3734T>G	**NEGATIVE**	0	COSM28500	chr2:29436859	snv/mnv
ALK	p.Phe1245Ile	c.3733T>A	**NEGATIVE**	0	COSM28492	chr2:29436860	snv/mnv
ALK	p.Phe1245Leu	c.3735C>G	**NEGATIVE**	0	COSM28062	chr2:29436858	snv/mnv
ALK	p.Phe1245Leu	c.3735C>A	**NEGATIVE**	0	COSM28493	chr2:29436858	snv/mnv
ALK	p.Phe1245Val	c.3733T>G	**NEGATIVE**	0	COSM28499	chr2:29436860	snv/mnv
ALK	p.Ser1206Tyr	c.3617C>A	**NEGATIVE**	0	COSM144251	chr2:29443600	snv/mnv
ALK	p.Val1180Leu	c.3538G>C	**NEGATIVE**	0	COSM4381101	chr2:29443679	snv/mnv
BRAF	p.Asp594Asn	c.1780G>A	**NEGATIVE**	0	COSM27639	chr7:140453155	snv/mnv
BRAF	p.Asp594Gly	c.1781A>G	**NEGATIVE**	0	COSM467	chr7:140453154	snv/mnv
BRAF	p.Gly466Glu	c.1397G>A	**NEGATIVE**	0	COSM453	chr7:140481411	snv/mnv
BRAF	p.Gly466Val	c.1397G>T	**NEGATIVE**	0	COSM451	chr7:140481411	snv/mnv
BRAF	p.Gly469Ala	c.1406G>C	**NEGATIVE**	0	COSM460	chr7:140481402	snv/mnv
BRAF	p.Gly469Arg	c.1405G>A	**NEGATIVE**	0	COSM457	chr7:140481403	snv/mnv
BRAF	p.Gly469Val	c.1406G>T	**NEGATIVE**	0	COSM459	chr7:140481402	snv/mnv
BRAF	p.Lys601Glu	c.1801A>G	**NEGATIVE**	0	COSM478	chr7:140453134	snv/mnv
BRAF	p.Val600_Lys601delinsGlu	c.1799_1801delTGA	**NEGATIVE**	0	COSM1133	chr7:140453133	del

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BRAF	p.Val600Arg	c.1798_1799delGTinsAG	**NEGATIVE**	0	COSM474	chr7:140453136	snv/mnv
BRAF	p.Val600Lys	c.1798_1799delGTinsAA	**NEGATIVE**	0	COSM473	chr7:140453136	snv/mnv
CDK4	p.Arg24Cys	c.70C>T	**NEGATIVE**	0	COSM1677139	chr12:58145431	snv/mnv
CDK4	p.Arg24His	c.71G>A	**NEGATIVE**	0	COSM1989836	chr12:58145430	snv/mnv
CDK4	p.Arg24Leu	c.71G>T	**NEGATIVE**	0	COSM363684	chr12:58145430	snv/mnv
CDK4	p.Arg24Ser	c.70C>A	**NEGATIVE**	0	COSM3463914	chr12:58145431	snv/mnv
CDK4	p.Lys22Arg	c.65A>G	**NEGATIVE**	0	COSM232013	chr12:58145436	snv/mnv
CDK4	p.Lys22Gln	c.64A>C	**NEGATIVE**	0	OM3153	chr12:58145437	snv/mnv
CDK4	p.Lys22Met	c.65A>T	**NEGATIVE**	0	COSM3463915	chr12:58145436	snv/mnv
DDR2	p.Arg124Leu	c.371G>T	**NEGATIVE**	0	COSM400880	chr1:162724599	snv/mnv
DDR2	p.Arg124Trp	c.370C>T	**NEGATIVE**	0	COSM4024594	chr1:162724598	snv/mnv
EGFR	p.Ala289Asp	c.866C>A	**NEGATIVE**	0	COSM21685	chr7:55221822	snv/mnv
EGFR	p.Ala289Thr	c.865G>A	**NEGATIVE**	0	COSM21686	chr7:55221821	snv/mnv
EGFR	p.Ala289Val	c.866C>T	**NEGATIVE**	0	COSM21687	chr7:55221822	snv/mnv
EGFR	p.Arg108Gly	c.322A>G	**NEGATIVE**	0	COSM1451536	chr7:55211079	snv/mnv
EGFR	p.Arg108Lys	c.323G>A	**NEGATIVE**	0	COSM21683	chr7:55211080	snv/mnv
EGFR	p.Cys797Ser	c.2389T>A	**NEGATIVE**	0	COSM6493937	chr7:55249091	snv/mnv
EGFR	p.Cys797Ser	c.2390G>C	**NEGATIVE**	0	COSM5945664	chr7:55249092	snv/mnv
EGFR	p.Glu709Ala	c.2126A>C	**NEGATIVE**	0	COSM13427	chr7:55241678	snv/mnv
EGFR	p.Glu709Gly	c.2126A>G	**NEGATIVE**	0	COSM13009	chr7:55241678	snv/mnv
EGFR	p.Glu709Lys	c.2125G>A	**NEGATIVE**	0	COSM12988	chr7:55241677	snv/mnv
EGFR	p.Glu709Val	c.2126A>T	**NEGATIVE**	0	COSM12371	chr7:55241678	snv/mnv
EGFR	p.Gly598Ala	c.1793G>C	**NEGATIVE**	0	COSM3412196	chr7:55233043	snv/mnv
EGFR	p.Gly598Val	c.1793G>T	**NEGATIVE**	0	COSM21690	chr7:55233043	snv/mnv
EGFR	p.Gly719Ala	c.2156G>C	**NEGATIVE**	0	COSM6239	chr7:55241708	snv/mnv
EGFR	p.Gly719Asp	c.2156G>A	**NEGATIVE**	0	COSM18425	chr7:55241708	snv/mnv
EGFR	p.Gly719Cys	c.2155G>T	**NEGATIVE**	0	COSM6253	chr7:55241707	snv/mnv
EGFR	p.Gly719Ser	c.2155G>A	**NEGATIVE**	0	COSM6252	chr7:55241707	snv/mnv
EGFR	p.Leu858Met	c.2572C>A	**NEGATIVE**	0	COSM12366	chr7:55259514	snv/mnv
EGFR	p.Leu861Arg	c.2582T>G	**NEGATIVE**	0	COSM12374	chr7:55259524	snv/mnv
EGFR	p.Leu861Gln	c.2582T>A	**NEGATIVE**	0	COSM6213	chr7:55259524	snv/mnv
EGFR	p.Ser492Arg	c.1474A>C	**NEGATIVE**	0	COSM236671	chr7:55228007	snv/mnv
EGFR	p.Ser492Arg	c.1476C>A	**NEGATIVE**	0	COSM236670	chr7:55228009	snv/mnv
EGFR	p.Ser768Ile	c.2303G>T	**NEGATIVE**	0	COSM6241	chr7:55249005	snv/mnv
ERBB2	p.Arg678Gln	c.2033G>A	**NEGATIVE**	0	COSM436498	chr17:37879658	snv/mnv
ERBB2	p.Arg896Cys	c.2686C>T	**NEGATIVE**	0	COSM14066	chr17:37881616	snv/mnv
ERBB2	p.Arg896His	c.2687G>A	**NEGATIVE**	0	COSM119971	chr17:37881617	snv/mnv
ERBB2	p.Asp769His	c.2305G>C	**NEGATIVE**	0	COSM13170	chr17:37880261	snv/mnv
ERBB2	p.Asp769Tyr	c.2305G>T	**NEGATIVE**	0	COSM1251412	chr17:37880261	snv/mnv
ERBB2	p.Gly776Val	c.2327G>T	**NEGATIVE**	0	COSM18609	chr17:37880998	snv/mnv
ERBB2	p.Leu755Met	c.2263T>A	**NEGATIVE**	0	COSM1205571	chr17:37880219	snv/mnv
ERBB2	p.Leu755Pro	c.2263_2264delTTinsCC	**NEGATIVE**	0	COSM683	chr17:37880219	snv/mnv
ERBB2	p.Ser310Phe	c.929C>T	**NEGATIVE**	0	COSM48358	chr17:37868208	snv/mnv
ERBB2	p.Ser310Tyr	c.929C>A	**NEGATIVE**	0	COSM94225	chr17:37868208	snv/mnv

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Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
ERBB2	p.Thr733Ile	c.2198C>T	**NEGATIVE**	0	COSM14059	chr17:37879903	snv/mnv
ERBB2	p.Val777Leu	c.2329G>T	**NEGATIVE**	0	COSM14062	chr17:37881000	snv/mnv
ERBB2	p.Val842Ile	c.2524G>A	**NEGATIVE**	0	COSM14065	chr17:37881332	snv/mnv
ERBB3	p.Ala232Thr	c.694G>A	**NEGATIVE**	0	COSM4043440	chr12:56481659	snv/mnv
ERBB3	p.Ala232Val	c.695C>T	**NEGATIVE**	0	COSM1242239	chr12:56481660	snv/mnv
ERBB3	p.Asp297Tyr	c.889G>T	**NEGATIVE**	0	COSM160822	chr12:56482341	snv/mnv
ERBB3	p.Asp297Val	c.890A>T	**NEGATIVE**	0	COSM941490	chr12:56482342	snv/mnv
ERBB3	p.Glu332Lys	c.994G>A	**NEGATIVE**	0	COSM254677	chr12:56482537	snv/mnv
ERBB3	p.Met60Arg	c.179T>G	**NEGATIVE**	0	COSM941484	chr12:56477631	snv/mnv
ERBB3	p.Met60Leu	c.178A>T	**NEGATIVE**	0	COSM1606366	chr12:56477630	snv/mnv
ERBB3	p.Met60Lys	c.179T>A	**NEGATIVE**	0	COSM254678	chr12:56477631	snv/mnv
ERBB3	p.Met91Ile	c.273G>A	**NEGATIVE**	0	COSM122890	chr12:56478817	snv/mnv
ERBB3	p.Met91Ile	c.273G>C	**NEGATIVE**	0	COSM1299636	chr12:56478817	snv/mnv
ERBB3	p.Val104Leu	c.310G>C	**NEGATIVE**	0	COSM160824	chr12:56478854	snv/mnv
ERBB3	p.Val104Leu	c.310G>T	**NEGATIVE**	0	COSM191840	chr12:56478854	snv/mnv
ERBB3	p.Val104Met	c.310G>A	**NEGATIVE**	0	COSM172423	chr12:56478854	snv/mnv
FGFR2	p.Ala314Asp	c.941C>A	**NEGATIVE**	0	COSM49171	chr10:123276976	snv/mnv
FGFR2	p.Asn549His	c.1645A>C	**NEGATIVE**	0	COSM250083	chr10:123258036	snv/mnv
FGFR2	p.Asn549Lys	c.1647T>G	**NEGATIVE**	0	COSM36902	chr10:123258034	snv/mnv
FGFR2	p.Asn549Lys	c.1647T>A	**NEGATIVE**	0	COSM36912	chr10:123258034	snv/mnv
FGFR2	p.Asn549Ser	c.1646A>G	**NEGATIVE**	0	COSM3665553	chr10:123258035	snv/mnv
FGFR2	p.Cys382Arg	c.1144T>C	**NEGATIVE**	0	COSM36906	chr10:123274774	snv/mnv
FGFR2	p.Cys382Tyr	c.1145G>A	**NEGATIVE**	0	COSM915493	chr10:123274773	snv/mnv
FGFR2	p.Lys659Asn	c.1977G>T	**NEGATIVE**	0	COSM49173	chr10:123247514	snv/mnv
FGFR2	p.Lys659Asn	c.1977G>C	**NEGATIVE**	0	COSM683054	chr10:123247514	snv/mnv
FGFR2	p.Lys659Glu	c.1975A>G	**NEGATIVE**	0	COSM36909	chr10:123247516	snv/mnv
FGFR2	p.Lys659Met	c.1976A>T	**NEGATIVE**	0	COSM49175	chr10:123247515	snv/mnv
FGFR2	p.Pro253Arg	c.758C>G	**NEGATIVE**	0	COSM49170	chr10:123279674	snv/mnv
FGFR2	p.Pro253Leu	c.758C>T	**NEGATIVE**	0	COSM537801	chr10:123279674	snv/mnv
FGFR2	p.Ser252Trp	c.755C>G	**NEGATIVE**	0	COSM36903	chr10:123279677	snv/mnv
FGFR2	p.Tyr375Cys	c.1124A>G	**NEGATIVE**	0	COSM36904	chr10:123274794	snv/mnv
FGFR2	p.Tyr375His	c.1123T>C	**NEGATIVE**	0	COSM1560916	chr10:123274795	snv/mnv
FGFR3	p.Arg248Cys	c.742C>T	**NEGATIVE**	0	COSM714	chr4:1803564	snv/mnv
FGFR3	p.Gly697Cys	c.2089G>T	**NEGATIVE**	0	COSM24802	chr4:1808331	snv/mnv
FGFR3	p.Lys650Asn	c.1950G>T	**NEGATIVE**	0	COSM1428730	chr4:1807891	snv/mnv
FGFR3	p.Lys650Gln	c.1948A>C	**NEGATIVE**	0	COSM726	chr4:1807889	snv/mnv
FGFR3	p.Lys650Glu	c.1948A>G	**NEGATIVE**	0	COSM719	chr4:1807889	snv/mnv
FGFR3	p.Ser249Cys	c.746C>G	**NEGATIVE**	0	COSM715	chr4:1803568	snv/mnv
HRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM499	chr11:533874	snv/mnv
HRAS	p.Gln61His	c.183G>T	**NEGATIVE**	0	COSM502	chr11:533873	snv/mnv
HRAS	p.Gln61His	c.183G>C	**NEGATIVE**	0	COSM503	chr11:533873	snv/mnv
HRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM498	chr11:533874	snv/mnv
HRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM496	chr11:533875	snv/mnv
HRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM500	chr11:533874	snv/mnv
HRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM485	chr11:534288	snv/mnv
HRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	0	COSM482	chr11:534289	snv/mnv
HRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0	COSM484	chr11:534288	snv/mnv
HRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	0	COSM481	chr11:534289	snv/mnv

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HRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	0	COSM480	chr11:534289	snv/mnv
HRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0	COSM483	chr11:534288	snv/mnv
HRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM486	chr11:534286	snv/mnv
HRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM490	chr11:534285	snv/mnv
HRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0	COSM488	chr11:534286	snv/mnv
HRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM487	chr11:534286	snv/mnv
HRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM489	chr11:534285	snv/mnv
KIT	p.Arg796Lys	c.2387G>A	**NEGATIVE**	0	COSM1600411	chr4:55599261	snv/mnv
KIT	p.Asn822Lys	c.2466T>A	**NEGATIVE**	0	COSM1321	chr4:55599340	snv/mnv
KIT	p.Asn822Lys	c.2466T>G	**NEGATIVE**	0	COSM1322	chr4:55599340	snv/mnv
KIT	p.Asp419_Arg420del	c.1255_1260delGACAGG	**NEGATIVE**	0	COSM1578132	chr4:55589772	del
KIT	p.Asp419del	c.1255_1257delGAC	**NEGATIVE**	0	COSM29014	chr4:55589770	del
KIT	p.Asp579del	c.1735_1737delGAT	**NEGATIVE**	0	COSM1294	chr4:55593666	del
KIT	p.Asp816His	c.2446G>C	**NEGATIVE**	0	COSM1311	chr4:55599320	snv/mnv
KIT	p.Asp816Tyr	c.2446G>T	**NEGATIVE**	0	COSM1310	chr4:55599320	snv/mnv
KIT	p.Asp816Val	c.2447A>T	**NEGATIVE**	0	COSM1314	chr4:55599321	snv/mnv
KIT	p.Leu576Pro	c.1727T>C	**NEGATIVE**	0	COSM1290	chr4:55593661	snv/mnv
KIT	p.Lys642Glu	c.1924A>G	**NEGATIVE**	0	COSM1304	chr4:55594221	snv/mnv
KIT	p.Trp557_Lys558del	c.1669_1674delTGGAAG	**NEGATIVE**	0	COSM1217	chr4:55593600	del
KIT	p.Trp557_Val559delinsPhe	c.1670_1675delGGAAGG	**NEGATIVE**	0	COSM1226	chr4:55593603	del
KIT	p.Trp557Arg	c.1669T>A	**NEGATIVE**	0	COSM1216	chr4:55593603	snv/mnv
KIT	p.Trp557Arg	c.1669T>C	**NEGATIVE**	0	COSM1219	chr4:55593603	snv/mnv
KIT	p.Trp557Gly	c.1669T>G	**NEGATIVE**	0	COSM1221	chr4:55593603	snv/mnv
KIT	p.Val559Ala	c.1676T>C	**NEGATIVE**	0	COSM1255	chr4:55593610	snv/mnv
KIT	p.Val559Asp	c.1676T>A	**NEGATIVE**	0	COSM1252	chr4:55593610	snv/mnv
KIT	p.Val559del	c.1679_1681delTTG	**NEGATIVE**	0	COSM1247	chr4:55593608	del
KIT	p.Val559Gly	c.1676T>G	**NEGATIVE**	0	COSM1253	chr4:55593610	snv/mnv
KIT	p.Val560Asp	c.1679T>A	**NEGATIVE**	0	COSM1257	chr4:55593613	snv/mnv
KIT	p.Val654Ala	c.1961T>C	**NEGATIVE**	0	COSM12706	chr4:55594258	snv/mnv
KIT	p.Val825Ala	c.2474T>C	**NEGATIVE**	0	COSM1323	chr4:55599348	snv/mnv
KRAS	p.Ala146Pro	c.436G>C	**NEGATIVE**	0	COSM19905	chr12:25378562	snv/mnv
KRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	0	COSM19404	chr12:25378562	snv/mnv
KRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	0	COSM19900	chr12:25378561	snv/mnv
KRAS	p.Ala59Glu	c.176C>A	**NEGATIVE**	0	COSM547	chr12:25380282	snv/mnv
KRAS	p.Ala59Gly	c.176C>G	**NEGATIVE**	0	COSM28518	chr12:25380282	snv/mnv
KRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	0	COSM546	chr12:25380283	snv/mnv
KRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM552	chr12:25380276	snv/mnv
KRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	0	COSM550	chr12:25380277	snv/mnv
KRAS	p.Gln61His	c.183A>T	**NEGATIVE**	0	COSM555	chr12:25380275	snv/mnv
KRAS	p.Gln61His	c.183A>C	**NEGATIVE**	0	COSM554	chr12:25380275	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
KRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM553	chr12:25380276	snv/mnv
KRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM549	chr12:25380277	snv/mnv
KRAS	p.Gln61Lys	c.180_181delTCinsAA	**NEGATIVE**	0	COSM87298	chr12:25380277	snv/mnv
KRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM551	chr12:25380276	snv/mnv
KRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM522	chr12:25398284	snv/mnv
KRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0	COSM521	chr12:25398284	snv/mnv
KRAS	p.Gly12Phe	c.34_35delGGinsTT	**NEGATIVE**	0	COSM512	chr12:25398284	snv/mnv
KRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0.022	COSM520	chr12:25398284	snv/mnv
KRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	0	COSM533	chr12:25398281	snv/mnv
KRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM529	chr12:25398282	snv/mnv
KRAS	p.Gly13Asp	c.38_39delGCinsAT	**NEGATIVE**	0	COSM531	chr12:25398280	snv/mnv
KRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM532	chr12:25398281	snv/mnv
KRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0.01	COSM527	chr12:25398282	snv/mnv
KRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM528	chr12:25398282	snv/mnv
KRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM534	chr12:25398281	snv/mnv
KRAS	p.Lys117Asn	c.351A>T	**NEGATIVE**	0	COSM28519	chr12:25378647	snv/mnv
KRAS	p.Lys117Asn	c.351A>C	**NEGATIVE**	0	COSM19940	chr12:25378647	snv/mnv
MAP2K1	p.Glu203Lys	c.607G>A	**NEGATIVE**	0	COSM232755	chr15:66774131	snv/mnv
MAP2K1	p.Glu203Val	c.608A>T	**NEGATIVE**	0	COSM3386991	chr15:66774132	snv/mnv
MAP2K1	p.Lys57Asn	c.171G>C	**NEGATIVE**	0	COSM5520914	chr15:66727455	snv/mnv
MAP2K1	p.Lys57Asn	c.171G>T	**NEGATIVE**	0	COSM1235478	chr15:66727455	snv/mnv
MAP2K1	p.Lys57Met	c.170A>T	**NEGATIVE**	0	MAN124	chr15:66727454	snv/mnv
MAP2K1	p.Lys57Thr	c.170A>C	**NEGATIVE**	0	COSM4756761	chr15:66727454	snv/mnv
MAP2K1	p.Phe53Ile	c.157T>A	**NEGATIVE**	0	COSM3503329	chr15:66727441	snv/mnv
MAP2K1	p.Phe53Leu	c.157T>C	**NEGATIVE**	0	COSM555604	chr15:66727441	snv/mnv
MAP2K1	p.Phe53Leu	c.159T>A	**NEGATIVE**	0	COSM1725008	chr15:66727443	snv/mnv
MAP2K1	p.Phe53Leu	c.159T>G	**NEGATIVE**	0	COSM2257208	chr15:66727443	snv/mnv
MAP2K1	p.Phe53Val	c.157T>G	**NEGATIVE**	0	COSM1562837	chr15:66727441	snv/mnv
MAP2K1	p.Pro124Gln	c.371C>A	**NEGATIVE**	0	COSM1167912	chr15:66729163	snv/mnv
MAP2K1	p.Pro124Leu	c.371C>T	**NEGATIVE**	0	COSM1315861	chr15:66729163	snv/mnv
MAP2K1	p.Pro124Ser	c.370C>T	**NEGATIVE**	0	COSM235614	chr15:66729162	snv/mnv
MAP2K2	p.Gln60Pro	c.179A>C	**NEGATIVE**	0	COSM145610	chr19:4117541	snv/mnv
MAP2K2	p.Phe57Leu	c.171T>G	**NEGATIVE**	0	OM3158	chr19:4117549	snv/mnv
MAP2K2	p.Phe57Leu	c.171T>A	**NEGATIVE**	0	COSM3389034	chr19:4117549	snv/mnv
MAP2K2	p.Phe57Leu	c.169T>C	**NEGATIVE**	0	COSM1235618	chr19:4117551	snv/mnv
MAP2K2	p.Phe57Val	c.169T>G	**NEGATIVE**	0	COSM3534171	chr19:4117551	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM29633	chr7:116412044	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM24687	chr7:116412044	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM35468	chr7:116412045	snv/mnv
MET	p.His1112Arg	c.3335A>G	**NEGATIVE**	0	COSM703	chr7:116417464	snv/mnv
MET	p.His1112Leu	c.3335A>T	**NEGATIVE**	0	COSM698	chr7:116417464	snv/mnv
MET	p.His1112Tyr	c.3334C>T	**NEGATIVE**	0	COSM696	chr7:116417463	snv/mnv
MET	p.Met1268Ile	c.3804G>A	**NEGATIVE**	0	COSM694	chr7:116423475	snv/mnv
MET	p.Met1268Thr	c.3803T>C	**NEGATIVE**	0	COSM691	chr7:116423474	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
MET	p.Thr1010Ile	c.3029C>T	**NEGATIVE**	0	COSM707	chr7:116411990	snv/mnv
MET	p.Tyr1021Asn	c.3061T>A	**NEGATIVE**	0	COSM48564	chr7:116412022	snv/mnv
MET	p.Tyr1021Phe	c.3062A>T	**NEGATIVE**	0	COSM339515	chr7:116412023	snv/mnv
MET	p.Tyr1248Cys	c.3743A>G	**NEGATIVE**	0	COSM699	chr7:116423414	snv/mnv
MET	p.Tyr1248His	c.3742T>C	**NEGATIVE**	0	COSM690	chr7:116423413	snv/mnv
MET	p.Tyr1253Asp	c.3757T>G	**NEGATIVE**	0	COSM700	chr7:116423428	snv/mnv
MTOR	p.Cys1483Arg	c.4447T>C	**NEGATIVE**	0	COSM3747775	chr1:11217231	snv/mnv
MTOR	p.Cys1483Phe	c.4448G>T	**NEGATIVE**	0	COSM462616	chr1:11217230	snv/mnv
MTOR	p.Cys1483Trp	c.4449C>G	**NEGATIVE**	0	OM3149	chr1:11217229	snv/mnv
MTOR	p.Cys1483Tyr	c.4448G>A	**NEGATIVE**	0	COSM462615	chr1:11217230	snv/mnv
MTOR	p.Glu1799Lys	c.5395G>A	**NEGATIVE**	0	COSM180789	chr1:11190804	snv/mnv
MTOR	p.Leu2427Arg	c.7280T>G	**NEGATIVE**	0	COSM2119114	chr1:11174395	snv/mnv
MTOR	p.Leu2427Gln	c.7280T>A	**NEGATIVE**	0	COSM1185313	chr1:11174395	snv/mnv
MTOR	p.Phe1888Ile	c.5662T>A	**NEGATIVE**	0	COSM3358968	chr1:11189847	snv/mnv
MTOR	p.Phe1888Leu	c.5664C>G	**NEGATIVE**	0	COSM462604	chr1:11189845	snv/mnv
MTOR	p.Phe1888Leu	c.5664C>A	**NEGATIVE**	0	COSM893813	chr1:11189845	snv/mnv
MTOR	p.Phe1888Leu	c.5662T>C	**NEGATIVE**	0	COSM3358967	chr1:11189847	snv/mnv
MTOR	p.Phe1888Val	c.5662T>G	**NEGATIVE**	0	COSM893814	chr1:11189847	snv/mnv
MTOR	p.Ser2215Phe	c.6644C>T	**NEGATIVE**	0	COSM1686998	chr1:11184573	snv/mnv
MTOR	p.Ser2215Pro	c.6643T>C	**NEGATIVE**	0	COSM1560108	chr1:11184574	snv/mnv
MTOR	p.Ser2215Tyr	c.6644C>A	**NEGATIVE**	0	COSM20417	chr1:11184573	snv/mnv
MTOR	p.Thr1977Arg	c.5930C>G	**NEGATIVE**	0	COSM462602	chr1:11188164	snv/mnv
MTOR	p.Thr1977Lys	c.5930C>A	**NEGATIVE**	0	COSM462601	chr1:11188164	snv/mnv
MTOR	p.Thr1977Ser	c.5929A>T	**NEGATIVE**	0	COSM1289945	chr1:11188165	snv/mnv
MTOR	p.Val2006Ile	c.6016G>A	**NEGATIVE**	0	COSM893804	chr1:11188078	snv/mnv
MTOR	p.Val2006Leu	c.6016G>C	**NEGATIVE**	0	COSM1134662	chr1:11188078	snv/mnv
MTOR	p.Val2006Phe	c.6016G>T	**NEGATIVE**	0	COSM249481	chr1:11188078	snv/mnv
NRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	0	COSM27174	chr1:115252204	snv/mnv
NRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	0	COSM4170228	chr1:115252203	snv/mnv
NRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	0	COSM578	chr1:115256536	snv/mnv
NRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM584	chr1:115256529	snv/mnv
NRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	0	COSM581	chr1:115256530	snv/mnv
NRAS	p.Gln61His	c.183A>T	**NEGATIVE**	0	COSM585	chr1:115256528	snv/mnv
NRAS	p.Gln61His	c.183A>C	**NEGATIVE**	0	COSM586	chr1:115256528	snv/mnv
NRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM583	chr1:115256529	snv/mnv
NRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM580	chr1:115256530	snv/mnv
NRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM582	chr1:115256529	snv/mnv
NRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM565	chr1:115258747	snv/mnv
NRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	0	COSM561	chr1:115258748	snv/mnv
NRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0	COSM564	chr1:115258747	snv/mnv
NRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	0	COSM562	chr1:115258748	snv/mnv
NRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	0	COSM563	chr1:115258748	snv/mnv
NRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0	COSM566	chr1:115258747	snv/mnv
NRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	0	COSM575	chr1:115258744	snv/mnv
NRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM569	chr1:115258745	snv/mnv
NRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM573	chr1:115258744	snv/mnv
NRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0	COSM570	chr1:115258745	snv/mnv
NRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM571	chr1:115258745	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
NRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM574	chr1:115258744	snv/mnv
NRAS	p.Lys117Asn	c.351G>T	**NEGATIVE**	0	MAN13	chr1:115252289	snv/mnv
PDGFRA	p.Asn659Lys	c.1977C>A	**NEGATIVE**	0	COSM22415	chr4:55144148	snv/mnv
PDGFRA	p.Asn659Lys	c.1977C>G	**NEGATIVE**	0	COSM22414	chr4:55144148	snv/mnv
PDGFRA	p.Asn659Tyr	c.1975A>T	**NEGATIVE**	0	COSM22416	chr4:55144146	snv/mnv
PDGFRA	p.Asp842_His845del	c.2526_2537delCATCATGCATGA	**NEGATIVE**	0	COSM737	chr4:55152091	del
PDGFRA	p.Asp842_Met844del	c.2524_2532delGACATCATG	**NEGATIVE**	0	COSM12401	chr4:55152091	del
PDGFRA	p.Asp842Tyr	c.2524G>T	**NEGATIVE**	0	COSM12396	chr4:55152092	snv/mnv
PDGFRA	p.Asp842Val	c.2525A>T	**NEGATIVE**	0	COSM736	chr4:55152093	snv/mnv
PDGFRA	p.Ile843_Asp846del	c.2527_2538delATCATGCATGAT	**NEGATIVE**	0	COSM12400	chr4:55152094	del
PDGFRA	p.Ile843_Ser847delinsThr	c.2528_2539delTCATGCATGATT	**NEGATIVE**	0	COSM12407	chr4:55152095	del
PDGFRA	p.Val561Asp	c.1682T>A	**NEGATIVE**	0	COSM739	chr4:55141036	snv/mnv
PIK3CA	p.Arg108His	c.323G>A	**NEGATIVE**	0	COSM27497	chr3:178916936	snv/mnv
PIK3CA	p.Arg38Cys	c.112C>T	**NEGATIVE**	0	COSM744	chr3:178916725	snv/mnv
PIK3CA	p.Arg38Gly	c.112C>G	**NEGATIVE**	0	COSM40945	chr3:178916725	snv/mnv
PIK3CA	p.Arg38His	c.113G>A	**NEGATIVE**	0	COSM745	chr3:178916726	snv/mnv
PIK3CA	p.Arg38Ser	c.112C>A	**NEGATIVE**	0	COSM87310	chr3:178916725	snv/mnv
PIK3CA	p.Arg88Gln	c.263G>A	**NEGATIVE**	0	COSM746	chr3:178916876	snv/mnv
PIK3CA	p.Arg93Gln	c.278G>A	**NEGATIVE**	0	COSM86041	chr3:178916891	snv/mnv
PIK3CA	p.Arg93Trp	c.277C>T	**NEGATIVE**	0	COSM27493	chr3:178916890	snv/mnv
PIK3CA	p.Asn1044Lys	c.3132T>A	**NEGATIVE**	0	COSM12592	chr3:178952077	snv/mnv
PIK3CA	p.Asn345Ile	c.1034A>T	**NEGATIVE**	0	COSM94978	chr3:178921552	snv/mnv
PIK3CA	p.Asn345Lys	c.1035T>A	**NEGATIVE**	0	COSM754	chr3:178921553	snv/mnv
PIK3CA	p.Cys378Arg	c.1132T>C	**NEGATIVE**	0	COSM756	chr3:178922363	snv/mnv
PIK3CA	p.Cys378Phe	c.1133G>T	**NEGATIVE**	0	COSM21450	chr3:178922364	snv/mnv
PIK3CA	p.Cys378Tyr	c.1133G>A	**NEGATIVE**	0	COSM1041478	chr3:178922364	snv/mnv
PIK3CA	p.Cys420Arg	c.1258T>C	**NEGATIVE**	0	COSM757	chr3:178927980	snv/mnv
PIK3CA	p.Cys901Arg	c.2701T>C	**NEGATIVE**	0	COSM1420899	chr3:178947826	snv/mnv
PIK3CA	p.Cys901Phe	c.2702G>T	**NEGATIVE**	0	COSM769	chr3:178947827	snv/mnv
PIK3CA	p.Cys901Tyr	c.2702G>A	**NEGATIVE**	0	COSM1420901	chr3:178947827	snv/mnv
PIK3CA	p.Gln546Arg	c.1637A>G	**NEGATIVE**	0	COSM12459	chr3:178936095	snv/mnv
PIK3CA	p.Gln546Glu	c.1636C>G	**NEGATIVE**	0	COSM6147	chr3:178936094	snv/mnv
PIK3CA	p.Gln546Lys	c.1636C>A	**NEGATIVE**	0	COSM766	chr3:178936094	snv/mnv
PIK3CA	p.Gln546Pro	c.1637A>C	**NEGATIVE**	0	COSM767	chr3:178936095	snv/mnv
PIK3CA	p.Glu365Gly	c.1094A>G	**NEGATIVE**	0	COSM1420797	chr3:178922325	snv/mnv
PIK3CA	p.Glu365Lys	c.1093G>A	**NEGATIVE**	0	COSM86044	chr3:178922324	snv/mnv
PIK3CA	p.Glu365Val	c.1094A>T	**NEGATIVE**	0	COSM1484860	chr3:178922325	snv/mnv
PIK3CA	p.Glu39Lys	c.115G>A	**NEGATIVE**	0	COSM30625	chr3:178916728	snv/mnv
PIK3CA	p.Glu542Lys	c.1624G>A	**NEGATIVE**	0	COSM760	chr3:178936082	snv/mnv
PIK3CA	p.Glu542Val	c.1625A>T	**NEGATIVE**	0	COSM762	chr3:178936083	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
PIK3CA	p.Glu545Ala	c.1634A>C	**NEGATIVE**	0	COSM12458	chr3:178936092	snv/mnv
PIK3CA	p.Glu545Asp	c.1635G>C	**NEGATIVE**	0	COSM27374	chr3:178936093	snv/mnv
PIK3CA	p.Glu545Asp	c.1635G>T	**NEGATIVE**	0	COSM765	chr3:178936093	snv/mnv
PIK3CA	p.Glu545Gln	c.1633G>C	**NEGATIVE**	0	COSM27133	chr3:178936091	snv/mnv
PIK3CA	p.Glu545Gly	c.1634A>G	**NEGATIVE**	0	COSM764	chr3:178936092	snv/mnv
PIK3CA	p.Glu545Lys	c.1633G>A	**NEGATIVE**	0.018	COSM763	chr3:178936091	snv/mnv
PIK3CA	p.Glu547Lys	c.1639G>A	**NEGATIVE**	0	COSM29315	chr3:178936097	snv/mnv
PIK3CA	p.Glu726Gly	c.2177A>G	**NEGATIVE**	0	COSM1420887	chr3:178938935	snv/mnv
PIK3CA	p.Glu726Lys	c.2176G>A	**NEGATIVE**	0	COSM87306	chr3:178938934	snv/mnv
PIK3CA	p.Glu81Lys	c.241G>A	**NEGATIVE**	0	COSM27502	chr3:178916854	snv/mnv
PIK3CA	p.Gly1049Arg	c.3145G>C	**NEGATIVE**	0	COSM12597	chr3:178952090	snv/mnv
PIK3CA	p.Gly1049Ser	c.3145G>A	**NEGATIVE**	0	COSM777	chr3:178952090	snv/mnv
PIK3CA	p.Gly106Val	c.317G>T	**NEGATIVE**	0	COSM748	chr3:178916930	snv/mnv
PIK3CA	p.His1047Arg	c.3140A>G	**NEGATIVE**	0.016	COSM775	chr3:178952085	snv/mnv
PIK3CA	p.His1047Leu	c.3140A>T	**NEGATIVE**	0	COSM776	chr3:178952085	snv/mnv
PIK3CA	p.His1047Tyr	c.3139C>T	**NEGATIVE**	0	COSM774	chr3:178952084	snv/mnv
PIK3CA	p.His701Arg	c.2102A>G	**NEGATIVE**	0	COSM1420881	chr3:178938860	snv/mnv
PIK3CA	p.His701Pro	c.2102A>C	**NEGATIVE**	0	COSM778	chr3:178938860	snv/mnv
PIK3CA	p.Lys111Glu	c.331A>G	**NEGATIVE**	0	COSM13570	chr3:178916944	snv/mnv
PIK3CA	p.Met1043Ile	c.3129G>A	**NEGATIVE**	0	COSM29313	chr3:178952074	snv/mnv
PIK3CA	p.Met1043Ile	c.3129G>T	**NEGATIVE**	0	COSM773	chr3:178952074	snv/mnv
PIK3CA	p.Met1043Val	c.3127A>G	**NEGATIVE**	0	COSM12591	chr3:178952072	snv/mnv
PIK3CA	p.Pro539Arg	c.1616C>G	**NEGATIVE**	0	COSM759	chr3:178936074	snv/mnv
PIK3CA	p.Thr1025Ala	c.3073A>G	**NEGATIVE**	0	COSM771	chr3:178952018	snv/mnv
PIK3CA	p.Tyr1021Cys	c.3062A>G	**NEGATIVE**	0	COSM12461	chr3:178952007	snv/mnv
PIK3CA	p.Val344Ala	c.1031T>C	**NEGATIVE**	0	COSM86951	chr3:178921549	snv/mnv
PIK3CA	p.Val344Gly	c.1031T>G	**NEGATIVE**	0	COSM22540	chr3:178921549	snv/mnv
RAF1	p.Ser257Leu	c.770C>T	**NEGATIVE**	0	COSM181063	chr3:12645699	snv/mnv
RAF1	p.Ser257Trp	c.770C>G	**NEGATIVE**	0	COSM581519	chr3:12645699	snv/mnv
RAF1	p.Thr421Met	c.1262_1263delCCinsTG	**NEGATIVE**	0	MAN9	chr3:12632404	snv/mnv
RET	p.Ala883Phe	c.2646_2648delAGCinsTTT	**NEGATIVE**	0	COSM981	chr10:43615567	snv/mnv
RET	p.Ala883Ser	c.2647G>T	**NEGATIVE**	0	COSM133167	chr10:43615568	snv/mnv
RET	p.Asp898_Glu901del	c.2694_2705delTGTTTATGAAGA	**NEGATIVE**	0	COSM962	chr10:43615611	del
RET	p.Cys618Arg	c.1852T>C	**NEGATIVE**	0	COSM29803	chr10:43609096	snv/mnv
RET	p.Cys618Tyr	c.1853G>A	**NEGATIVE**	0	COSM980	chr10:43609097	snv/mnv
RET	p.Cys620Arg	c.1858T>C	**NEGATIVE**	0	COSM29804	chr10:43609102	snv/mnv
RET	p.Cys634Arg	c.1900T>C	**NEGATIVE**	0	COSM966	chr10:43609948	snv/mnv
RET	p.Glu768Asp	c.2304G>C	**NEGATIVE**	0	COSM21338	chr10:43613840	snv/mnv
RET	p.Glu768Gly	c.2303A>G	**NEGATIVE**	0	COSM1347811	chr10:43613839	snv/mnv
RET	p.Met918Thr	c.2753T>C	**NEGATIVE**	0	COSM965	chr10:43617416	snv/mnv
ROS1	p.Gly2032Arg	c.6094G>C	**NEGATIVE**	0	MAN11	chr6:117638347	snv/mnv
ROS1	p.Gly2032Arg	c.6094G>A	**NEGATIVE**	0	MAN10	chr6:117638347	snv/mnv
ROS1	p.Leu1951Met	c.5851C>A	**NEGATIVE**	0	COSM1072521	chr6:117641120	snv/mnv

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Sequencing Run Details

Assay

Name:	Oncomine™ Dx Target Test US v3.2
Panel:	Oncomine™ Dx Target Panel US v3.2 Regions, Oncomine™ Dx Target Panel US v3.2 Fusions

Analysis

Date:	02 SEP 2021
Operator:	Auto

Run Details

Metric Name	Value
Panel Kit Name:	Oncomine™ Dx Target Test DNA and RNA Panel
Panel Kit Barcode:	91A32441101212-123456817371122210010230 1
Panel Kit Part Number:	A32441
Panel Kit Expiry Date:	22 NOV 2022
Panel Kit Lot Number:	1212-1234568
Control Kit Name:	Oncomine™ Dx Target DNA Control v2.0
Control Kit Barcode:	011019030200584517370831101234562 40A44913
Control Kit Part Number:	A44913
Control Kit Expiry Date:	31 AUG 2022
Control Kit Lot Number:	123456
Extraction Kit Name:	Ion Torrent Dx Total NA Isolation Kit
Extraction Kit Barcode:	91A32434101212-123456817371122210010130 1
Extraction Kit Part Number:	A32434
Extraction Kit Expiry Date:	22 NOV 2022
Extraction Kit Lot Number:	1212-1234568
Library Kit Name:	Ion PGM Dx Library
Library Kit Barcode:	91A18928101212-123456817371122210010230 1
Library Kit Part Number:	A18928
Library Kit Expiry Date:	22 NOV 2022
Library Kit Lot Number:	1212-1234568
Templating Kit Name:	Ion OneTouch Dx Template
Templating Kit Barcode:	91A18930101212-123456817371122210010130 1
Templating Instrument Serial Number:	
Operator:	
Start Date:	
Completion Date:	
Templating Kit Part Number:	A18930
Templating Kit Expiry Date:	22 NOV 2022
Templating Kit Lot Number:	1212-1234568
Sequencing Kit Name:	Ion PGM Dx Sequencing
Sequencing Kit Barcode:	
Sequencing Instrument Serial	

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Number:	
Operator:	fp1234
Start Date:	
Completion Date:	

Chip Kit Name:	Ion 318™ DX Chip
Chip top barcode:	
Chip bottom barcode:	
Chip Manufacturing date:	

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Control QC Evaluation Metrics

Ion Dx CF-1

Metric Name	Value	Reference Range	QC Status
Mean AQ20 Read Length (bp)	140	>=131	Passed
Percent Reads	0.06	>=0.03	Passed

DNA Control

Metric Name	Value	Reference Range	QC Status
COSM12558	PRESENT	PRESENT	Passed
COSM12558_AF	0.076	>=0.05	Passed
COSM476	PRESENT	PRESENT	Passed
COSM476_AF	0.114	>=0.05	Passed
COSM521	PRESENT	PRESENT	Passed
COSM521_AF	0.12	>=0.05	Passed
COSM6223	PRESENT	PRESENT	Passed
COSM6223_AF	0.11	>=0.05	Passed
COSM6224	PRESENT	PRESENT	Passed
COSM6224_AF	0.093	>=0.05	Passed
COSM760	PRESENT	PRESENT	Passed
COSM760_AF	0.121	>=0.05	Passed
Mean AQ20 Read Length (bp)	103	>=98	Passed
Percent Reads	2.59	>=0.7	Passed

RNA Control

Metric Name	Value	Reference Range	QC Status
ROS1 Fusion Reads	599	>=349	Passed
Total Mappable Reads	25439	>=18164	Passed

DNA NTC Control

Metric Name	Value	Reference Range	QC Status
Hotspot Calls	0	<=0	Passed

RNA NTC Control

Metric Name	Value	Reference Range	QC Status
Total Fusion Calls	0	<=0	Passed
Total Mappable Reads	0	<=4999	Passed

Sample QC Evaluation Metrics

DNA Sample

Metric Name	Value	Reference Range	QC Status
Mean AQ20 Read Length (bp)	99	>=90	Passed
Percent Reads	2.72	>=0.7	Passed

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RNA Sample

Metric Name	Value	Reference Range	QC Status
Total Mappable Reads	50793	>=5000	Passed

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Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

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Sample Details

Cancer Type:	**Non-small Cell Lung Cancer**	Ordering Physician:	**Dr. Jane Smith**	Sample Type:	**FFPE,Block**
Patient ID:	**James Snow**	%Necrosis:		Sample ID:	**ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2**
Gender:	**Male**	%Cellularity:			
Date Of Birth:	**01 JAN 1980**	Reference Interval:		Collection Date:	**01 JUL 2016**
Sample Condition:	**Good**			Created On:	**01 SEP 2021 17:43**
				Sample Source:	**Tissue**

Results for Sequence Variations for Therapeutic Use

Gene Fusions (RNA) for Therapeutic Use

Gene	Display Name	Test Result	Therapy
ROS1	ROS1 Fusion	**PRESENT**	XALKORI® (crizotinib)

Gene	Display Name	Test Result	Therapy
RET	RET Fusion	**ABSENT**	None Indicated

DNA Sequence Variants for Therapeutic Use

Note: Results for positive variants are listed first to provide therapy information, followed by variants with no calls, followed by variants that were reported as negative results.

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
BRAF	BRAF V600E	p.Val600Glu	c.1799T>A	**NEGATIVE**	COSM476	None Indicated
BRAF	BRAF V600E	p.Val600Glu	c.1799_1800delTGinsAA	**NEGATIVE**	COSM475	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2235_2249delGGAATTAAGAGAAGC	**NEGATIVE**	COSM6223	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2236_2250delGAATTAAGAGAAGCA	**NEGATIVE**	COSM6225	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Arg748del	c.2239_2247delTTAAGAGAA	**NEGATIVE**	COSM6218	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Glu749del	c.2235_2246delGGAATTAAGAGA	**NEGATIVE**	COSM28517	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsAsp	c.2238_2255delATTAAGAGAAGCAACATC	**NEGATIVE**	COSM6220	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsVal	c.2237_2255delAATTAAGAGAAGCAACATCinsT	**NEGATIVE**	COSM12384	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751del	c.2236_2253delGAATTAAGAGAAGCAACA	**NEGATIVE**	COSM12728	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsAla	c.2237_2251delAATTAAGAGAAGCAA	**NEGATIVE**	COSM12678	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsIle	c.2235_2252delGGAATTAAGAGAAGCAACinsAAT	**NEGATIVE**	COSM13551	None Indicated

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsValAla	c.2237_2253delAATTAAGAGAAGCAACAinsTTGCT	**NEGATIVE**	COSM12416	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2239_2248delTTAAGAGAAGinsC	**NEGATIVE**	COSM12382	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2238_2248delATTAAGAGAAGinsGC	**NEGATIVE**	COSM12422	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsGln	c.2239_2258delTTAAGAGAAGCAACATCTCCinsCA	**NEGATIVE**	COSM12387	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsSer	c.2240_2257delTAAGAGAAGCAACATCTC	**NEGATIVE**	COSM12370	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ser752del	c.2239_2256delTTAAGAGAAGCAACATCT	**NEGATIVE**	COSM6255	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751del	c.2240_2254delTAAGAGAAGCAACAT	**NEGATIVE**	COSM12369	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsGln	c.2238_2252delATTAAGAGAAGCAACinsGCA	**NEGATIVE**	COSM12419	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsPro	c.2239_2251delTTAAGAGAAGCAAinsC	**NEGATIVE**	COSM12383	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsSer	c.2240_2251delTAAGAGAAGCAA	**NEGATIVE**	COSM6210	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Ala750delinsThr	c.2234_2248delAGGAATTAAGAGAAG	**NEGATIVE**	COSM1190791	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Glu749del	c.2233_2247delAAGGAATTAAGAGAA	**NEGATIVE**	COSM26038	None Indicated
EGFR	EGFR Exon 20 Insertion	NA	NA	**NEGATIVE**	COSM26720	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValAsp	c.2311_2312insGCGTGGACA	**NEGATIVE**	COSM13428	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGCAGCGTGG	**NEGATIVE**	COSM18429	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGGAGCGTGG	**NEGATIVE**	COSM1235344	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insTyrValMet	c.2301_2302insTACGTGATG	**NEGATIVE**	COSM1651740	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Val769dup	c.2309_2310delACinsCCAGCGTGGAT	**NEGATIVE**	COSM13558	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insArgHis	c.2314_2315insGGCACC	**NEGATIVE**	COSM166390	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insHis	c.2314_2315insACC	**NEGATIVE**	COSM1238031	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHis	c.2319_2320insCCCCAC	**NEGATIVE**	COSM12380	None Indicated

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EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProThrHis	c.2315_2316insGACACACCC	**NEGATIVE**	COSM48923	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysLeu	c.2312_2313insACT	**NEGATIVE**	COSM6438147	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerGlyHis	c.2311_2312insGTGGCC	**NEGATIVE**	COSM1651744	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsThrHis	c.2311_2312insCAC	**NEGATIVE**	COSM22946	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsValHis	c.2311_2311delAinsGTCC	**NEGATIVE**	COSM5023007	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771delinsAlaGlyGly	c.2309_2312delACAAinsCTGGTGG	**NEGATIVE**	COSM12737	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAlaProTrp	c.2310_2311insGCACCGTGG	**NEGATIVE**	COSM20886	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsn	c.2313_2314insAAC	**NEGATIVE**	COSM13003	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnPro	c.2316_2317insAACCCC	**NEGATIVE**	MAN123	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHis	c.2319_2320insAACCCCCAC	**NEGATIVE**	COSM12381	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHisGly	c.2320_2321insGCAACCCCCACG	**NEGATIVE**	COSM51544	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlnArgGly	c.2310_2311insCAGCGTGGC	**NEGATIVE**	COSM4970107	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGC	**NEGATIVE**	COSM13004	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGT	**NEGATIVE**	COSM12378	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyLeu	c.2310_2311insGGGTTA	**NEGATIVE**	COSM48921	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyPhe	c.2310_2311insGGGTTT	**NEGATIVE**	COSM655155	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyThr	c.2310_2311insGGCACA	**NEGATIVE**	COSM1238029	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insMetAlaThrPro	c.2311_2312insTGGCCACCCCCA	**NEGATIVE**	COSM26719	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insSerValGlu	c.2311_2312insGCGTCGAAA	**NEGATIVE**	COSM1651743	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insThr	c.2311_2312insCCA	**NEGATIVE**	COSM5023008	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insTyr	c.2310_2311insTAC	**NEGATIVE**	COSM1238030	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770delinsGlyTyr	c.2308_2309insGTT	**NEGATIVE**	COSM12427	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insGln	c.2319_2320insCAG	**NEGATIVE**	COSM131552	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insThrGlnProPro	c.2319_2320insACACAACCCCCC	**NEGATIVE**	COSM3727813	None Indicated

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
EGFR	EGFR Exon 20 Insertion	p.His773delinsProAsnProTyr	c.2317_2318insCTAACCCCT	**NEGATIVE**	COSM1735761	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaIle	c.2302_2303insTAGCCA	**NEGATIVE**	COSM13559	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaSerVal	c.2308_2309insCCAGCGTGG	**NEGATIVE**	COSM12376	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaThrLeu	c.2302_2303insCGCTGGCCA	**NEGATIVE**	COSM12425	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHis	c.2319_2320insCAC	**NEGATIVE**	COSM12377	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAla	c.2320_2321insCCCACG	**NEGATIVE**	COSM1238028	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAsn	c.2319_2320insAACCAC	**NEGATIVE**	COSM5023006	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2321_2322insCCACGT	**NEGATIVE**	COSM18432	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2322_2323insCACGTG	**NEGATIVE**	COSM22948	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insThrPro	c.2316_2316delCinsAACCCCT	**NEGATIVE**	COSM12388	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insVal	c.2316_2317insGTT	**NEGATIVE**	COSM255205	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insVal	c.2308_2309insTGG	**NEGATIVE**	COSM6506514	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAlaAsn	c.2303_2304insTGTGGCCAA	**NEGATIVE**	COSM1651741	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAspAsn	c.2313_2314insGTGGACAAC	**NEGATIVE**	COSM20885	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValCys	c.2307_2308insTGCGTG	**NEGATIVE**	COSM12379	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValGlyVal	c.2308_2309insGGGTCGTGG	**NEGATIVE**	COSM18430	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspAsnPro	c.2316_2317insGACAACCCC	**NEGATIVE**	COSM1651745	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGGGAC	**NEGATIVE**	COSM85795	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGCGAC	**NEGATIVE**	COSM22955	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGluArgGly	c.2309_2310insGCGTGGAGA	**NEGATIVE**	COSM1651742	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insMetAlaSerValAsp	c.2307_2308insATGGCCAGCGTGGAC	**NEGATIVE**	COSM28638	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val774_Cys775insProArg	c.2322_2323insCCACGT	**NEGATIVE**	COSM4170223	None Indicated
EGFR	EGFR L858R	p.Leu858Arg	c.2573T>G	**NEGATIVE**	COSM6224	None Indicated

The following reference files are used:hg19, Oncomine™ Dx Target Panel US v3.2 Fusion Reference. Associated therapy is within Non-Small Cell Lung Carcinoma (NSCLC).

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For additional questions on "no call" results please contact testing service laboratory.

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Results for Analytical Sequence Variations Detected

Analytical DNA Sequence Variants Detected

No Analytical DNA sequence variations detected

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Intended Use

The Oncomine™ Dx Target Test is a qualitative in vitro diagnostic test that uses targeted high throughput, parallel-sequencing technology to detect single nucleotide variants (SNVs), deletions, and insertions in 23 genes from DNA and fusions in ROS1 and RET from RNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumor tissue samples from patients with non-small cell lung cancer (NSCLC), and IDH1 SNVs from FFPE tumor tissue samples from patients with cholangiocarcinoma (CC) using the Ion PGM™ Dx System.

The test is indicated to aid in selecting NSCLC and CC patients for treatment with the targeted therapies listed in Table 1 in accordance with the approved therapeutic product labeling.

Table 1. List of Variants for Therapeutic Use

Tissue Type	Gene	Variant	Targeted Therapy
Non-small Cell Lung Cancer (NSCLC)	BRAF	BRAF V600E mutation	TAFINLAR® (dabrafenib) in combination with MEKINIST® (trametinib)
	EGFR	EGFR L858R mutation, EGFR Exon 19 deletions	IRESSA® (gefitinib)
	EGFR	EGFR Exon 20 Insertions	EXKIVITY™ (mobocertinib)
	RET	RET fusions	GAVRETO™ (pralsetinib)
	ROS1	ROS1 fusions	XALKORI® (crizotinib)
Cholangiocarcinoma (CC)	IDH1	IDH1 R132C, IDH1 R132G, IDH1 R132H, IDH1 R132L, IDH1 R132S	TIBSOVO® (ivosidenib)

Safe and effective use has not been established for selecting therapies using this device for the variants other than those in Table 1.

Results other than those listed in Table 1 are indicated for use only in patients who have already been considered for all appropriate therapies (including those listed in Table 1). Analytical performance using NSCLC specimens has been established for the variants listed in Table 2.

Table 2. List of Variants with Established Analytical Performance Only

Gene	Variant ID/ Type	Amino Acid Change	Nucleotide Change
KRAS	COSM512	p.Gly12Phe	c.34_35delGGinsTT
KRAS	COSM516	p.Gly12Cys	c.34G>T
MET	COSM707	p.Thr1010Ile	c.3029C>T
PIK3CA	COSM754	p.Asn345Lys	c.1035T>A

The test is not indicated to be used for standalone diagnostic purposes, screening, monitoring, risk assessment, or prognosis.

Warnings and Precautions

For NSCLC, the Oncomine Dx Target Test assay definition file includes prevalent but not all rare or newly identified RET isoforms, ROS1 isoforms, and EGFR exon 20 insertions. The Oncomine Dx Target Test may miss rare or newly identified:

- RET isoforms carried by a subset of patients who may derive benefit from GAVRETO™ (pralsetinib)
- ROS1 isoforms carried by a subset of patients who may derive benefit from XALKORI® (crizotinib)
- EGFR exon 20 insertions carried by a subset of patients who may derive benefit from EXKIVITY™ (mobocertinib)

Limitations

- The Oncomine™ Dx Target Test has only been validated for use with FFPE tumor slide specimens.
- DNA and/or RNA from a single sample extraction must meet the concentration requirements specified in the procedure. Do not use DNA from one extraction with RNA from a different extraction.
- The effects of potential variations in FFPE specimen fixation have not been evaluated.
- Extraction from FFPE sample curls has not been evaluated.
- A potential source of contamination in the procedure is nucleic acid from previous sample processing steps. Follow good laboratory practices and all precautions and guidelines in these user guides to avoid cross-contamination between samples.
- The Oncomine™ Dx Target Test is a qualitative test. The test is not for quantitative measurements of percent mutation.

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- The safe and effective use of the variants reported in the Analytical Sequence Variations Detected section has not been established for selecting therapy using this device. The variants for KRAS (COSM512/p.Gly12Phe/c.34_35delGGinsTT and COSM516/p.Gly12Cys/c.34G>T), MET (COSM707/p.Thr1010Ile/c.3029C>T) and PIK3CA (COSM754/p.Asn345Lys/c.1035T>A) have been analytically validated. Performance of all other variants identified by the test, other than clinically validated therapeutic variants and analytically validated variants, has not been directly demonstrated.

Test Description

The Oncomine™ Dx Target Test reports the following genes in each indication:

Non-small cell lung cancer (NSCLC):

- Single nucleotide variants (SNVs), deletions, and insertions from DNA: AKT1, ALK, BRAF, CDK4, DDR2, EGFR, ERBB2, ERBB3, FGFR2, FGFR3, HRAS, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET and ROS1.
- Fusions from RNA: RET and ROS1.

Cholangiocarcinoma (CC):
• Single nucleotide variants (SNVs) from DNA: IDH1.

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Results for Analytical Sequence Variations Not Detected

Analytical DNA Sequence Variants Not Detected

Note: Results for no calls are listed first, followed by variants that were reported as negative results.

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
KRAS	p.Gly12Arg	c.34G>C	**NO CALL**	COSM518
KRAS	p.Gly12Cys	c.34G>T	**NO CALL**	COSM516
KRAS	p.Gly12Ser	c.34G>A	**NO CALL**	COSM517

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
AKT1	p.Glu17Lys	c.49G>A	**NEGATIVE**	COSM33765
ALK	p.Arg1275Gln	c.3824G>A	**NEGATIVE**	COSM28056
ALK	p.Arg1275Leu	c.3824G>T	**NEGATIVE**	COSM28060
ALK	p.Cys1156Tyr	c.3467G>A	**NEGATIVE**	COSM99136
ALK	p.Gly1128Ala	c.3383G>C	**NEGATIVE**	COSM98475
ALK	p.Gly1202Arg	c.3604G>A	**NEGATIVE**	COSM144250
ALK	p.Ile1171Asn	c.3512T>A	**NEGATIVE**	COSM28498
ALK	p.Ile1171Thr	c.3512T>C	**NEGATIVE**	COSM4381100
ALK	p.Leu1152Arg	c.3455T>G	**NEGATIVE**	COSM97185
ALK	p.Leu1152Pro	c.3455T>C	**NEGATIVE**	COSM1407659
ALK	p.Leu1196Gln	c.3587T>A	**NEGATIVE**	COSM1169447
ALK	p.Leu1196Met	c.3586C>A	**NEGATIVE**	COSM99137
ALK	p.Phe1174Cys	c.3521T>G	**NEGATIVE**	COSM28059
ALK	p.Phe1174Ile	c.3520T>A	**NEGATIVE**	COSM28491
ALK	p.Phe1174Leu	c.3522C>G	**NEGATIVE**	COSM28061
ALK	p.Phe1174Leu	c.3522C>A	**NEGATIVE**	COSM28055
ALK	p.Phe1174Leu	c.3520T>C	**NEGATIVE**	COSM28057
ALK	p.Phe1174Ser	c.3521T>C	**NEGATIVE**	COSM53063
ALK	p.Phe1174Val	c.3520T>G	**NEGATIVE**	COSM28054
ALK	p.Phe1245Cys	c.3734T>G	**NEGATIVE**	COSM28500
ALK	p.Phe1245Ile	c.3733T>A	**NEGATIVE**	COSM28492
ALK	p.Phe1245Leu	c.3735C>G	**NEGATIVE**	COSM28062
ALK	p.Phe1245Leu	c.3735C>A	**NEGATIVE**	COSM28493
ALK	p.Phe1245Val	c.3733T>G	**NEGATIVE**	COSM28499
ALK	p.Ser1206Tyr	c.3617C>A	**NEGATIVE**	COSM144251
ALK	p.Val1180Leu	c.3538G>C	**NEGATIVE**	COSM4381101
BRAF	p.Asp594Asn	c.1780G>A	**NEGATIVE**	COSM27639
BRAF	p.Asp594Gly	c.1781A>G	**NEGATIVE**	COSM467
BRAF	p.Gly466Glu	c.1397G>A	**NEGATIVE**	COSM453
BRAF	p.Gly466Val	c.1397G>T	**NEGATIVE**	COSM451
BRAF	p.Gly469Ala	c.1406G>C	**NEGATIVE**	COSM460
BRAF	p.Gly469Arg	c.1405G>A	**NEGATIVE**	COSM457
BRAF	p.Gly469Val	c.1406G>T	**NEGATIVE**	COSM459
BRAF	p.Lys601Glu	c.1801A>G	**NEGATIVE**	COSM478
BRAF	p.Val600_Lys601delinsGlu	c.1799_1801delTGA	**NEGATIVE**	COSM1133
BRAF	p.Val600Arg	c.1798_1799delGTinsAG	**NEGATIVE**	COSM474
BRAF	p.Val600Lys	c.1798_1799delGTinsAA	**NEGATIVE**	COSM473

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Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
CDK4	p.Arg24Cys	c.70C>T	**NEGATIVE**	COSM1677139
CDK4	p.Arg24His	c.71G>A	**NEGATIVE**	COSM1989836
CDK4	p.Arg24Leu	c.71G>T	**NEGATIVE**	COSM363684
CDK4	p.Arg24Ser	c.70C>A	**NEGATIVE**	COSM3463914
CDK4	p.Lys22Arg	c.65A>G	**NEGATIVE**	COSM232013
CDK4	p.Lys22Gln	c.64A>C	**NEGATIVE**	OM3153
CDK4	p.Lys22Met	c.65A>T	**NEGATIVE**	COSM3463915
DDR2	p.Arg124Leu	c.371G>T	**NEGATIVE**	COSM400880
DDR2	p.Arg124Trp	c.370C>T	**NEGATIVE**	COSM4024594
EGFR	p.Ala289Asp	c.866C>A	**NEGATIVE**	COSM21685
EGFR	p.Ala289Thr	c.865G>A	**NEGATIVE**	COSM21686
EGFR	p.Ala289Val	c.866C>T	**NEGATIVE**	COSM21687
EGFR	p.Arg108Gly	c.322A>G	**NEGATIVE**	COSM1451536
EGFR	p.Arg108Lys	c.323G>A	**NEGATIVE**	COSM21683
EGFR	p.Cys797Ser	c.2389T>A	**NEGATIVE**	COSM6493937
EGFR	p.Cys797Ser	c.2390G>C	**NEGATIVE**	COSM5945664
EGFR	p.Glu709Ala	c.2126A>C	**NEGATIVE**	COSM13427
EGFR	p.Glu709Gly	c.2126A>G	**NEGATIVE**	COSM13009
EGFR	p.Glu709Lys	c.2125G>A	**NEGATIVE**	COSM12988
EGFR	p.Glu709Val	c.2126A>T	**NEGATIVE**	COSM12371
EGFR	p.Gly598Ala	c.1793G>C	**NEGATIVE**	COSM3412196
EGFR	p.Gly598Val	c.1793G>T	**NEGATIVE**	COSM21690
EGFR	p.Gly719Ala	c.2156G>C	**NEGATIVE**	COSM6239
EGFR	p.Gly719Asp	c.2156G>A	**NEGATIVE**	COSM18425
EGFR	p.Gly719Cys	c.2155G>T	**NEGATIVE**	COSM6253
EGFR	p.Gly719Ser	c.2155G>A	**NEGATIVE**	COSM6252
EGFR	p.Leu858Met	c.2572C>A	**NEGATIVE**	COSM12366
EGFR	p.Leu861Arg	c.2582T>G	**NEGATIVE**	COSM12374
EGFR	p.Leu861Gln	c.2582T>A	**NEGATIVE**	COSM6213
EGFR	p.Ser492Arg	c.1474A>C	**NEGATIVE**	COSM236671
EGFR	p.Ser492Arg	c.1476C>A	**NEGATIVE**	COSM236670
EGFR	p.Ser768Ile	c.2303G>T	**NEGATIVE**	COSM6241
ERBB2	p.Arg678Gln	c.2033G>A	**NEGATIVE**	COSM436498
ERBB2	p.Arg896Cys	c.2686C>T	**NEGATIVE**	COSM14066
ERBB2	p.Arg896His	c.2687G>A	**NEGATIVE**	COSM119971
ERBB2	p.Asp769His	c.2305G>C	**NEGATIVE**	COSM13170
ERBB2	p.Asp769Tyr	c.2305G>T	**NEGATIVE**	COSM1251412
ERBB2	p.Gly776Val	c.2327G>T	**NEGATIVE**	COSM18609
ERBB2	p.Leu755Met	c.2263T>A	**NEGATIVE**	COSM1205571
ERBB2	p.Leu755Pro	c.2263_2264delTTinsCC	**NEGATIVE**	COSM683
ERBB2	p.Ser310Phe	c.929C>T	**NEGATIVE**	COSM48358
ERBB2	p.Ser310Tyr	c.929C>A	**NEGATIVE**	COSM94225
ERBB2	p.Thr733Ile	c.2198C>T	**NEGATIVE**	COSM14059
ERBB2	p.Val777Leu	c.2329G>T	**NEGATIVE**	COSM14062
ERBB2	p.Val842Ile	c.2524G>A	**NEGATIVE**	COSM14065
ERBB3	p.Ala232Thr	c.694G>A	**NEGATIVE**	COSM4043440
ERBB3	p.Ala232Val	c.695C>T	**NEGATIVE**	COSM1242239
ERBB3	p.Asp297Tyr	c.889G>T	**NEGATIVE**	COSM160822

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ERBB3	p.Asp297Val	c.890A>T	**NEGATIVE**	COSM941490
ERBB3	p.Glu332Lys	c.994G>A	**NEGATIVE**	COSM254677
ERBB3	p.Met60Arg	c.179T>G	**NEGATIVE**	COSM941484
ERBB3	p.Met60Leu	c.178A>T	**NEGATIVE**	COSM1606366
ERBB3	p.Met60Lys	c.179T>A	**NEGATIVE**	COSM254678
ERBB3	p.Met91Ile	c.273G>A	**NEGATIVE**	COSM122890
ERBB3	p.Met91Ile	c.273G>C	**NEGATIVE**	COSM1299636
ERBB3	p.Val104Leu	c.310G>C	**NEGATIVE**	COSM160824
ERBB3	p.Val104Leu	c.310G>T	**NEGATIVE**	COSM191840
ERBB3	p.Val104Met	c.310G>A	**NEGATIVE**	COSM172423
FGFR2	p.Ala314Asp	c.941C>A	**NEGATIVE**	COSM49171
FGFR2	p.Asn549His	c.1645A>C	**NEGATIVE**	COSM250083
FGFR2	p.Asn549Lys	c.1647T>G	**NEGATIVE**	COSM36902
FGFR2	p.Asn549Lys	c.1647T>A	**NEGATIVE**	COSM36912
FGFR2	p.Asn549Ser	c.1646A>G	**NEGATIVE**	COSM3665553
FGFR2	p.Cys382Arg	c.1144T>C	**NEGATIVE**	COSM36906
FGFR2	p.Cys382Tyr	c.1145G>A	**NEGATIVE**	COSM915493
FGFR2	p.Lys659Asn	c.1977G>T	**NEGATIVE**	COSM49173
FGFR2	p.Lys659Asn	c.1977G>C	**NEGATIVE**	COSM683054
FGFR2	p.Lys659Glu	c.1975A>G	**NEGATIVE**	COSM36909
FGFR2	p.Lys659Met	c.1976A>T	**NEGATIVE**	COSM49175
FGFR2	p.Pro253Arg	c.758C>G	**NEGATIVE**	COSM49170
FGFR2	p.Pro253Leu	c.758C>T	**NEGATIVE**	COSM537801
FGFR2	p.Ser252Trp	c.755C>G	**NEGATIVE**	COSM36903
FGFR2	p.Tyr375Cys	c.1124A>G	**NEGATIVE**	COSM36904
FGFR2	p.Tyr375His	c.1123T>C	**NEGATIVE**	COSM1560916
FGFR3	p.Arg248Cys	c.742C>T	**NEGATIVE**	COSM714
FGFR3	p.Gly697Cys	c.2089G>T	**NEGATIVE**	COSM24802
FGFR3	p.Lys650Asn	c.1950G>T	**NEGATIVE**	COSM1428730
FGFR3	p.Lys650Gln	c.1948A>C	**NEGATIVE**	COSM726
FGFR3	p.Lys650Glu	c.1948A>G	**NEGATIVE**	COSM719
FGFR3	p.Ser249Cys	c.746C>G	**NEGATIVE**	COSM715
HRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM499
HRAS	p.Gln61His	c.183G>T	**NEGATIVE**	COSM502
HRAS	p.Gln61His	c.183G>C	**NEGATIVE**	COSM503
HRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM498
HRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM496
HRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM500
HRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM485
HRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	COSM482
HRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM484
HRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	COSM481
HRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	COSM480
HRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM483
HRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM486
HRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM490
HRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM488
HRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM487

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
HRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM489
KIT	p.Arg796Lys	c.2387G>A	**NEGATIVE**	COSM1600411
KIT	p.Asn822Lys	c.2466T>A	**NEGATIVE**	COSM1321
KIT	p.Asn822Lys	c.2466T>G	**NEGATIVE**	COSM1322
KIT	p.Asp419_Arg420del	c.1255_1260delGACAGG	**NEGATIVE**	COSM1578132
KIT	p.Asp419del	c.1255_1257delGAC	**NEGATIVE**	COSM29014
KIT	p.Asp579del	c.1735_1737delGAT	**NEGATIVE**	COSM1294
KIT	p.Asp816His	c.2446G>C	**NEGATIVE**	COSM1311
KIT	p.Asp816Tyr	c.2446G>T	**NEGATIVE**	COSM1310
KIT	p.Asp816Val	c.2447A>T	**NEGATIVE**	COSM1314
KIT	p.Leu576Pro	c.1727T>C	**NEGATIVE**	COSM1290
KIT	p.Lys642Glu	c.1924A>G	**NEGATIVE**	COSM1304
KIT	p.Trp557_Lys558del	c.1669_1674delTGGAAG	**NEGATIVE**	COSM1217
KIT	p.Trp557_Val559delinsPhe	c.1670_1675delGGAAGG	**NEGATIVE**	COSM1226
KIT	p.Trp557Arg	c.1669T>A	**NEGATIVE**	COSM1216
KIT	p.Trp557Arg	c.1669T>C	**NEGATIVE**	COSM1219
KIT	p.Trp557Gly	c.1669T>G	**NEGATIVE**	COSM1221
KIT	p.Val559Ala	c.1676T>C	**NEGATIVE**	COSM1255
KIT	p.Val559Asp	c.1676T>A	**NEGATIVE**	COSM1252
KIT	p.Val559del	c.1679_1681delTTG	**NEGATIVE**	COSM1247
KIT	p.Val559Gly	c.1676T>G	**NEGATIVE**	COSM1253
KIT	p.Val560Asp	c.1679T>A	**NEGATIVE**	COSM1257
KIT	p.Val654Ala	c.1961T>C	**NEGATIVE**	COSM12706
KIT	p.Val825Ala	c.2474T>C	**NEGATIVE**	COSM1323
KRAS	p.Ala146Pro	c.436G>C	**NEGATIVE**	COSM19905
KRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	COSM19404
KRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	COSM19900
KRAS	p.Ala59Glu	c.176C>A	**NEGATIVE**	COSM547
KRAS	p.Ala59Gly	c.176C>G	**NEGATIVE**	COSM28518
KRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	COSM546
KRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM552
KRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	COSM550
KRAS	p.Gln61His	c.183A>T	**NEGATIVE**	COSM555
KRAS	p.Gln61His	c.183A>C	**NEGATIVE**	COSM554
KRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM553
KRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM549
KRAS	p.Gln61Lys	c.180_181delTCinsAA	**NEGATIVE**	COSM87298
KRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM551
KRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM522
KRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM521
KRAS	p.Gly12Phe	c.34_35delGGinsTT	**NEGATIVE**	COSM512
KRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM520
KRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	COSM533
KRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM529
KRAS	p.Gly13Asp	c.38_39delGCinsAT	**NEGATIVE**	COSM531
KRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM532
KRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM527
KRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM528

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
KRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM534
KRAS	p.Lys117Asn	c.351A>T	**NEGATIVE**	COSM28519
KRAS	p.Lys117Asn	c.351A>C	**NEGATIVE**	COSM19940
MAP2K1	p.Glu203Lys	c.607G>A	**NEGATIVE**	COSM232755
MAP2K1	p.Glu203Val	c.608A>T	**NEGATIVE**	COSM3386991
MAP2K1	p.Lys57Asn	c.171G>C	**NEGATIVE**	COSM5520914
MAP2K1	p.Lys57Asn	c.171G>T	**NEGATIVE**	COSM1235478
MAP2K1	p.Lys57Met	c.170A>T	**NEGATIVE**	MAN124
MAP2K1	p.Lys57Thr	c.170A>C	**NEGATIVE**	COSM4756761
MAP2K1	p.Phe53Ile	c.157T>A	**NEGATIVE**	COSM3503329
MAP2K1	p.Phe53Leu	c.157T>C	**NEGATIVE**	COSM555604
MAP2K1	p.Phe53Leu	c.159T>A	**NEGATIVE**	COSM1725008
MAP2K1	p.Phe53Leu	c.159T>G	**NEGATIVE**	COSM2257208
MAP2K1	p.Phe53Val	c.157T>G	**NEGATIVE**	COSM1562837
MAP2K1	p.Pro124Gln	c.371C>A	**NEGATIVE**	COSM1167912
MAP2K1	p.Pro124Leu	c.371C>T	**NEGATIVE**	COSM1315861
MAP2K1	p.Pro124Ser	c.370C>T	**NEGATIVE**	COSM235614
MAP2K2	p.Gln60Pro	c.179A>C	**NEGATIVE**	COSM145610
MAP2K2	p.Phe57Leu	c.171T>G	**NEGATIVE**	OM3158
MAP2K2	p.Phe57Leu	c.171T>A	**NEGATIVE**	COSM3389034
MAP2K2	p.Phe57Leu	c.169T>C	**NEGATIVE**	COSM1235618
MAP2K2	p.Phe57Val	c.169T>G	**NEGATIVE**	COSM3534171
MET	NA	NA	**NEGATIVE**	COSM29633
MET	NA	NA	**NEGATIVE**	COSM24687
MET	NA	NA	**NEGATIVE**	COSM35468
MET	p.His1112Arg	c.3335A>G	**NEGATIVE**	COSM703
MET	p.His1112Leu	c.3335A>T	**NEGATIVE**	COSM698
MET	p.His1112Tyr	c.3334C>T	**NEGATIVE**	COSM696
MET	p.Met1268Ile	c.3804G>A	**NEGATIVE**	COSM694
MET	p.Met1268Thr	c.3803T>C	**NEGATIVE**	COSM691
MET	p.Thr1010Ile	c.3029C>T	**NEGATIVE**	COSM707
MET	p.Tyr1021Asn	c.3061T>A	**NEGATIVE**	COSM48564
MET	p.Tyr1021Phe	c.3062A>T	**NEGATIVE**	COSM339515
MET	p.Tyr1248Cys	c.3743A>G	**NEGATIVE**	COSM699
MET	p.Tyr1248His	c.3742T>C	**NEGATIVE**	COSM690
MET	p.Tyr1253Asp	c.3757T>G	**NEGATIVE**	COSM700
MTOR	p.Cys1483Arg	c.4447T>C	**NEGATIVE**	COSM3747775
MTOR	p.Cys1483Phe	c.4448G>T	**NEGATIVE**	COSM462616
MTOR	p.Cys1483Trp	c.4449C>G	**NEGATIVE**	OM3149
MTOR	p.Cys1483Tyr	c.4448G>A	**NEGATIVE**	COSM462615
MTOR	p.Glu1799Lys	c.5395G>A	**NEGATIVE**	COSM180789
MTOR	p.Leu2427Arg	c.7280T>G	**NEGATIVE**	COSM2119114
MTOR	p.Leu2427Gln	c.7280T>A	**NEGATIVE**	COSM1185313
MTOR	p.Phe1888Ile	c.5662T>A	**NEGATIVE**	COSM3358968
MTOR	p.Phe1888Leu	c.5664C>G	**NEGATIVE**	COSM462604
MTOR	p.Phe1888Leu	c.5664C>A	**NEGATIVE**	COSM893813
MTOR	p.Phe1888Leu	c.5662T>C	**NEGATIVE**	COSM3358967
MTOR	p.Phe1888Val	c.5662T>G	**NEGATIVE**	COSM893814

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
MTOR	p.Ser2215Phe	c.6644C>T	**NEGATIVE**	COSM1686998
MTOR	p.Ser2215Pro	c.6643T>C	**NEGATIVE**	COSM1560108
MTOR	p.Ser2215Tyr	c.6644C>A	**NEGATIVE**	COSM20417
MTOR	p.Thr1977Arg	c.5930C>G	**NEGATIVE**	COSM462602
MTOR	p.Thr1977Lys	c.5930C>A	**NEGATIVE**	COSM462601
MTOR	p.Thr1977Ser	c.5929A>T	**NEGATIVE**	COSM1289945
MTOR	p.Val2006Ile	c.6016G>A	**NEGATIVE**	COSM893804
MTOR	p.Val2006Leu	c.6016G>C	**NEGATIVE**	COSM1134662
MTOR	p.Val2006Phe	c.6016G>T	**NEGATIVE**	COSM249481
NRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	COSM27174
NRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	COSM4170228
NRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	COSM578
NRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM584
NRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	COSM581
NRAS	p.Gln61His	c.183A>T	**NEGATIVE**	COSM585
NRAS	p.Gln61His	c.183A>C	**NEGATIVE**	COSM586
NRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM583
NRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM580
NRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM582
NRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM565
NRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	COSM561
NRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM564
NRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	COSM562
NRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	COSM563
NRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM566
NRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	COSM575
NRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM569
NRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM573
NRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM570
NRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM571
NRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM574
NRAS	p.Lys117Asn	c.351G>T	**NEGATIVE**	MAN13
PDGFRA	p.Asn659Lys	c.1977C>A	**NEGATIVE**	COSM22415
PDGFRA	p.Asn659Lys	c.1977C>G	**NEGATIVE**	COSM22414
PDGFRA	p.Asn659Tyr	c.1975A>T	**NEGATIVE**	COSM22416
PDGFRA	p.Asp842_His845del	c.2526_2537delCATCATGCATGA	**NEGATIVE**	COSM737
PDGFRA	p.Asp842_Met844del	c.2524_2532delGACATCATG	**NEGATIVE**	COSM12401
PDGFRA	p.Asp842Tyr	c.2524G>T	**NEGATIVE**	COSM12396
PDGFRA	p.Asp842Val	c.2525A>T	**NEGATIVE**	COSM736
PDGFRA	p.Ile843_Asp846del	c.2527_2538delATCATGCATGAT	**NEGATIVE**	COSM12400
PDGFRA	p.Ile843_Ser847delinsThr	c.2528_2539delTCATGCATGATT	**NEGATIVE**	COSM12407
PDGFRA	p.Val561Asp	c.1682T>A	**NEGATIVE**	COSM739
PIK3CA	p.Arg108His	c.323G>A	**NEGATIVE**	COSM27497

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
PIK3CA	p.Arg38Cys	c.112C>T	**NEGATIVE**	COSM744
PIK3CA	p.Arg38Gly	c.112C>G	**NEGATIVE**	COSM40945
PIK3CA	p.Arg38His	c.113G>A	**NEGATIVE**	COSM745
PIK3CA	p.Arg38Ser	c.112C>A	**NEGATIVE**	COSM87310
PIK3CA	p.Arg88Gln	c.263G>A	**NEGATIVE**	COSM746
PIK3CA	p.Arg93Gln	c.278G>A	**NEGATIVE**	COSM86041
PIK3CA	p.Arg93Trp	c.277C>T	**NEGATIVE**	COSM27493
PIK3CA	p.Asn1044Lys	c.3132T>A	**NEGATIVE**	COSM12592
PIK3CA	p.Asn345Ile	c.1034A>T	**NEGATIVE**	COSM94978
PIK3CA	p.Asn345Lys	c.1035T>A	**NEGATIVE**	COSM754
PIK3CA	p.Cys378Arg	c.1132T>C	**NEGATIVE**	COSM756
PIK3CA	p.Cys378Phe	c.1133G>T	**NEGATIVE**	COSM21450
PIK3CA	p.Cys378Tyr	c.1133G>A	**NEGATIVE**	COSM1041478
PIK3CA	p.Cys420Arg	c.1258T>C	**NEGATIVE**	COSM757
PIK3CA	p.Cys901Arg	c.2701T>C	**NEGATIVE**	COSM1420899
PIK3CA	p.Cys901Phe	c.2702G>T	**NEGATIVE**	COSM769
PIK3CA	p.Cys901Tyr	c.2702G>A	**NEGATIVE**	COSM1420901
PIK3CA	p.Gln546Arg	c.1637A>G	**NEGATIVE**	COSM12459
PIK3CA	p.Gln546Glu	c.1636C>G	**NEGATIVE**	COSM6147
PIK3CA	p.Gln546Lys	c.1636C>A	**NEGATIVE**	COSM766
PIK3CA	p.Gln546Pro	c.1637A>C	**NEGATIVE**	COSM767
PIK3CA	p.Glu365Gly	c.1094A>G	**NEGATIVE**	COSM1420797
PIK3CA	p.Glu365Lys	c.1093G>A	**NEGATIVE**	COSM86044
PIK3CA	p.Glu365Val	c.1094A>T	**NEGATIVE**	COSM1484860
PIK3CA	p.Glu39Lys	c.115G>A	**NEGATIVE**	COSM30625
PIK3CA	p.Glu542Lys	c.1624G>A	**NEGATIVE**	COSM760
PIK3CA	p.Glu542Val	c.1625A>T	**NEGATIVE**	COSM762
PIK3CA	p.Glu545Ala	c.1634A>C	**NEGATIVE**	COSM12458
PIK3CA	p.Glu545Asp	c.1635G>C	**NEGATIVE**	COSM27374
PIK3CA	p.Glu545Asp	c.1635G>T	**NEGATIVE**	COSM765
PIK3CA	p.Glu545Gln	c.1633G>C	**NEGATIVE**	COSM27133
PIK3CA	p.Glu545Gly	c.1634A>G	**NEGATIVE**	COSM764
PIK3CA	p.Glu545Lys	c.1633G>A	**NEGATIVE**	COSM763
PIK3CA	p.Glu547Lys	c.1639G>A	**NEGATIVE**	COSM29315
PIK3CA	p.Glu726Gly	c.2177A>G	**NEGATIVE**	COSM1420887
PIK3CA	p.Glu726Lys	c.2176G>A	**NEGATIVE**	COSM87306
PIK3CA	p.Glu81Lys	c.241G>A	**NEGATIVE**	COSM27502
PIK3CA	p.Gly1049Arg	c.3145G>C	**NEGATIVE**	COSM12597
PIK3CA	p.Gly1049Ser	c.3145G>A	**NEGATIVE**	COSM777
PIK3CA	p.Gly106Val	c.317G>T	**NEGATIVE**	COSM748
PIK3CA	p.His1047Arg	c.3140A>G	**NEGATIVE**	COSM775
PIK3CA	p.His1047Leu	c.3140A>T	**NEGATIVE**	COSM776
PIK3CA	p.His1047Tyr	c.3139C>T	**NEGATIVE**	COSM774
PIK3CA	p.His701Arg	c.2102A>G	**NEGATIVE**	COSM1420881
PIK3CA	p.His701Pro	c.2102A>C	**NEGATIVE**	COSM778
PIK3CA	p.Lys111Glu	c.331A>G	**NEGATIVE**	COSM13570
PIK3CA	p.Met1043Ile	c.3129G>A	**NEGATIVE**	COSM29313
PIK3CA	p.Met1043Ile	c.3129G>T	**NEGATIVE**	COSM773

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Sample ID: **ADF100_PRZ_Run41_Sample3_20210901174337_R5EREML2** Date Of Birth: **01 JAN 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
PIK3CA	p.Met1043Val	c.3127A>G	**NEGATIVE**	COSM12591
PIK3CA	p.Pro539Arg	c.1616C>G	**NEGATIVE**	COSM759
PIK3CA	p.Thr1025Ala	c.3073A>G	**NEGATIVE**	COSM771
PIK3CA	p.Tyr1021Cys	c.3062A>G	**NEGATIVE**	COSM12461
PIK3CA	p.Val344Ala	c.1031T>C	**NEGATIVE**	COSM86951
PIK3CA	p.Val344Gly	c.1031T>G	**NEGATIVE**	COSM22540
RAF1	p.Ser257Leu	c.770C>T	**NEGATIVE**	COSM181063
RAF1	p.Ser257Trp	c.770C>G	**NEGATIVE**	COSM581519
RAF1	p.Thr421Met	c.1262_1263delCCinsTG	**NEGATIVE**	MAN9
RET	p.Ala883Phe	c.2646_2648delAGCinsTTT	**NEGATIVE**	COSM981
RET	p.Ala883Ser	c.2647G>T	**NEGATIVE**	COSM133167
RET	p.Asp898_Glu901del	c.2694_2705delTGTTTATGAAGA	**NEGATIVE**	COSM962
RET	p.Cys618Arg	c.1852T>C	**NEGATIVE**	COSM29803
RET	p.Cys618Tyr	c.1853G>A	**NEGATIVE**	COSM980
RET	p.Cys620Arg	c.1858T>C	**NEGATIVE**	COSM29804
RET	p.Cys634Arg	c.1900T>C	**NEGATIVE**	COSM966
RET	p.Glu768Asp	c.2304G>C	**NEGATIVE**	COSM21338
RET	p.Glu768Gly	c.2303A>G	**NEGATIVE**	COSM1347811
RET	p.Met918Thr	c.2753T>C	**NEGATIVE**	COSM965
ROS1	p.Gly2032Arg	c.6094G>C	**NEGATIVE**	MAN11
ROS1	p.Gly2032Arg	c.6094G>A	**NEGATIVE**	MAN10
ROS1	p.Leu1951Met	c.5851C>A	**NEGATIVE**	COSM1072521

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Sample Details

Cancer Type:	**Non-small Cell Lung Cancer**	Ordering Physician:	**Dr. Jane Smith**	Sample Type:	**FFPE,Block**
Patient ID:	**Steve Snow**	%Necrosis:		Sample ID:	**ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2**
Gender:	**Male**	%Cellularity:			
Date Of Birth:	**01 AUG 1980**	Reference Interval:		Collection Date:	**01 JUL 2016**
Sample Condition:	**Moderate**			Created On:	**01 SEP 2021 17:43**
				Sample Source:	**Tissue**

Results for Sequence Variations for Therapeutic Use

Gene Fusions (RNA) for Therapeutic Use

Gene	Display Name	Test Result	Read Count	Therapy
RET	RET Fusion	**ABSENT**	0	None Indicated
ROS1	ROS1 Fusion	**ABSENT**	0	None Indicated

DNA Sequence Variants for Therapeutic Use

Note: Results for positive variants are listed first to provide therapy information, followed by variants with no calls, followed by variants that were reported as negative results.

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGCAGCGTGG	**POSITIVE**	0.097	COSM18429	chr7:55249002	ins	EXKIVITY™ (mobocertinib)

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
BRAF	BRAF V600E	p.Val600Glu	c.1799T>A	**NEGATIVE**	0	COSM476	chr7:140453135	snv/mnv	None Indicated
BRAF	BRAF V600E	p.Val600Glu	c.1799_1800delTGinsAA	**NEGATIVE**	0	COSM475	chr7:140453135	snv/mnv	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2235_2249delGGAATTAAGAGAAGC	**NEGATIVE**	0	COSM6223	chr7:55242464	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2236_2250delGAATTAAGAGAAGCA	**NEGATIVE**	0.01	COSM6225	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Arg748del	c.2239_2247delTTAAGAGAA	**NEGATIVE**	0	COSM6218	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Glu749del	c.2235_2246delGGAATTAAGAGA	**NEGATIVE**	0	COSM28517	chr7:55242463	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsAsp	c.2238_2255delATTAAGAGAAGCAACATC	**NEGATIVE**	0	COSM6220	chr7:55242467	del	None Indicated

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsVal	c.2237_2255delAATTAAGAGAAGCAACATCinsT	**NEGATIVE**	0	COSM12384	chr7:55242467	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751del	c.2236_2253delGAATTAAGAGAAGCAACA	**NEGATIVE**	0	COSM12728	chr7:55242465	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsAla	c.2237_2251delAATTAAGAGAAGCAA	**NEGATIVE**	0	COSM12678	chr7:55242466	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsIle	c.2235_2252delGGAATTAAGAGAAGCAACinsAAT	**NEGATIVE**	0	COSM13551	chr7:55242465	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsValAla	c.2237_2253delAATTAAGAGAAGCAACAinsTTGCT	**NEGATIVE**	0	COSM12416	chr7:55242467	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2239_2248delTTAAGAGAAGinsC	**NEGATIVE**	0	COSM12382	chr7:55242466	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2238_2248delATTAAGAGAAGinsGC	**NEGATIVE**	0	COSM12422	chr7:55242468	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsGln	c.2239_2258delTTAAGAGAAGCAACATCTCCinsCA	**NEGATIVE**	0	COSM12387	chr7:55242469	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsSer	c.2240_2257delTAAGAGAAGCAACATCTC	**NEGATIVE**	0	COSM12370	chr7:55242469	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ser752del	c.2239_2256delTTAAGAGAAGCAACATCT	**NEGATIVE**	0	COSM6255	chr7:55242468	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751del	c.2240_2254delTAAGAGAAGCAACAT	**NEGATIVE**	0	COSM12369	chr7:55242467	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsGln	c.2238_2252delATTAAGAGAAGCAACinsGCA	**NEGATIVE**	0	COSM12419	chr7:55242468	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsPro	c.2239_2251delTTAAGAGAAGCAAinsC	**NEGATIVE**	0	COSM12383	chr7:55242466	complex	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsSer	c.2240_2251delTAAGAGAAGCAA	**NEGATIVE**	0	COSM6210	chr7:55242469	complex	None Indicated

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 19 deletion	p.Lys745_Ala750delinsThr	c.2234_2248delAGGAATTAAGAGAAG	**NEGATIVE**	0	COSM1190791	chr7:55242463	del	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Glu749del	c.2233_2247delAAGGAATTAAGAGAA	**NEGATIVE**	0	COSM26038	chr7:55242462	del	None Indicated
EGFR	EGFR Exon 20 Insertion	NA	NA	**NEGATIVE**	0	COSM26720	chr7:55248980	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValAsp	c.2311_2312insGCGTGGACA	**NEGATIVE**	0	COSM13428	chr7:55249002	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGGAGCGTGG	**NEGATIVE**	0	COSM1235344	chr7:55249003	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insTyrValMet	c.2301_2302insTACGTGATG	**NEGATIVE**	0	COSM1651740	chr7:55249003	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Val769dup	c.2309_2310delACinsCCAGCGTGGAT	**NEGATIVE**	0	COSM13558	chr7:55249011	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insArgHis	c.2314_2315insGGCACC	**NEGATIVE**	0	COSM166390	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insHis	c.2314_2315insACC	**NEGATIVE**	0	COSM1238031	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHis	c.2319_2320insCCCCAC	**NEGATIVE**	0	COSM12380	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProThrHis	c.2315_2316insGACACACCC	**NEGATIVE**	0	COSM48923	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysLeu	c.2312_2313insACT	**NEGATIVE**	0	COSM6438147	chr7:55249014	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerGlyHis	c.2311_2312insGTGGCC	**NEGATIVE**	0	COSM1651744	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsThrHis	c.2311_2312insCAC	**NEGATIVE**	0	COSM22946	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsValHis	c.2311_2311delAinsGTCC	**NEGATIVE**	0	COSM5023007	chr7:55249013	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771delinsAlaGlyGly	c.2309_2312delACAAinsCTGGTGG	**NEGATIVE**	0	COSM12737	chr7:55249011	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAlaProTrp	c.2310_2311insGCACCGTGG	**NEGATIVE**	0	COSM20886	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsn	c.2313_2314insAAC	**NEGATIVE**	0	COSM13003	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnPro	c.2316_2317insAACCCC	**NEGATIVE**	0	MAN123	chr7:55249011	ins	None Indicated

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHis	c.2319_2320insAACCCCCAC	**NEGATIVE**	0	COSM12381	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHisGly	c.2320_2321insGCAACCCCCACG	**NEGATIVE**	0	COSM51544	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlnArgGly	c.2310_2311insCAGCGTGGC	**NEGATIVE**	0	COSM4970107	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGC	**NEGATIVE**	0	COSM13004	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGT	**NEGATIVE**	0	COSM12378	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyLeu	c.2310_2311insGGGTTA	**NEGATIVE**	0	COSM48921	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyPhe	c.2310_2311insGGGTTT	**NEGATIVE**	0	COSM655155	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyThr	c.2310_2311insGGCACA	**NEGATIVE**	0	COSM1238029	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insMetAlaThrPro	c.2311_2312insTGGCCACCCCCA	**NEGATIVE**	0	COSM26719	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insSerValGlu	c.2311_2312insGCGTCGAAA	**NEGATIVE**	0	COSM1651743	chr7:55249012	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insThr	c.2311_2312insCCA	**NEGATIVE**	0	COSM5023008	chr7:55249011	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insTyr	c.2310_2311insTAC	**NEGATIVE**	0	COSM1238030	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770delinsGlyTyr	c.2308_2309insGTT	**NEGATIVE**	0	COSM12427	chr7:55249010	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insGln	c.2319_2320insCAG	**NEGATIVE**	0	COSM131552	chr7:55249021	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insThrGlnProPro	c.2319_2320insACACAACCCCCC	**NEGATIVE**	0	COSM3727813	chr7:55249020	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773delinsProAsnProTyr	c.2317_2318insCTAACCCCT	**NEGATIVE**	0	COSM1735761	chr7:55249019	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaIle	c.2302_2303insTAGCCA	**NEGATIVE**	0	COSM13559	chr7:55249000	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaSerVal	c.2308_2309insCCAGCGTGG	**NEGATIVE**	0	COSM12376	chr7:55248998	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaThrLeu	c.2302_2303insCGCTGGCCA	**NEGATIVE**	0	COSM12425	chr7:55248998	ins	None Indicated

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Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type	Therapy
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHis	c.2319_2320insCAC	**NEGATIVE**	0	COSM12377	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAla	c.2320_2321insCCCACG	**NEGATIVE**	0	COSM1238028	chr7:55249016	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAsn	c.2319_2320insAACCAC	**NEGATIVE**	0	COSM5023006	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2321_2322insCCACGT	**NEGATIVE**	0	COSM18432	chr7:55249017	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c.2322_2323insCACGTG	**NEGATIVE**	0	COSM22948	chr7:55249018	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insThrPro	c.2316_2316delCinsAACCCCT	**NEGATIVE**	0	COSM12388	chr7:55249018	complex	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insVal	c.2316_2317insGTT	**NEGATIVE**	0	COSM255205	chr7:55249018	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insVal	c.2308_2309insTGG	**NEGATIVE**	0	COSM6506514	chr7:55249006	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAlaAsn	c.2303_2304insTGTGGCCAA	**NEGATIVE**	0	COSM1651741	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAspAsn	c.2313_2314insGTGGACAAC	**NEGATIVE**	0	COSM20885	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValCys	c.2307_2308insTGCGTG	**NEGATIVE**	0	COSM12379	chr7:55249004	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValGlyVal	c.2308_2309insGGGTCGTGG	**NEGATIVE**	0	COSM18430	chr7:55249005	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspAsnPro	c.2316_2317insGACAACCCC	**NEGATIVE**	0	COSM1651745	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGGGAC	**NEGATIVE**	0	COSM85795	chr7:55249008	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c.2310_2311insGGCGAC	**NEGATIVE**	0	COSM22955	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGluArgGly	c.2309_2310insGCGTGGAGA	**NEGATIVE**	0	COSM1651742	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insMetAlaSerValAsp	c.2307_2308insATGGCCAGCGTGGAC	**NEGATIVE**	0	COSM28638	chr7:55249009	ins	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val774_Cys775insProArg	c.2322_2323insCCACGT	**NEGATIVE**	0	COSM4170223	chr7:55249024	ins	None Indicated
EGFR	EGFR L858R	p.Leu858Arg	c.2573T>G	**NEGATIVE**	0	COSM6224	chr7:55259515	snv/mnv	None Indicated

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The following reference files are used:hg19, Oncomine™ Dx Target Panel US v3.2 Fusion Reference. Associated therapy is within Non-Small Cell Lung Carcinoma (NSCLC).

Due to the nature of hotspot calling when several variants are in the same genomic region in close proximity to each other the presence of a positive variant can sometimes result in a "no call" for the neighboring variant instead of a negative call. The reason for such "no call" can be determined by investigating the FR tag value for the variant in VCF file. When the reason reported is "REJECTION", the positive variant call is correct and repeat testing of sample is not needed due to the "no call".

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Results for Analytical Sequence Variations Detected

Analytical DNA Sequence Variants Detected

No Analytical DNA sequence variations detected

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Intended Use

The Oncomine™ Dx Target Test is a qualitative in vitro diagnostic test that uses targeted high throughput, parallel-sequencing technology to detect single nucleotide variants (SNVs), deletions, and insertions in 23 genes from DNA and fusions in ROS1 and RET from RNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumor tissue samples from patients with non-small cell lung cancer (NSCLC), and IDH1 SNVs from FFPE tumor tissue samples from patients with cholangiocarcinoma (CC) using the Ion PGM™ Dx System.

The test is indicated to aid in selecting NSCLC and CC patients for treatment with the targeted therapies listed in Table 1 in accordance with the approved therapeutic product labeling.

Table 1. List of Variants for Therapeutic Use

Tissue Type	Gene	Variant	Targeted Therapy
Non-small Cell Lung Cancer (NSCLC)	BRAF	BRAF V600E mutation	TAFINLAR® (dabrafenib) in combination with MEKINIST® (trametinib)
	EGFR	EGFR L858R mutation, EGFR Exon 19 deletions	IRESSA® (gefitinib)
	EGFR	EGFR Exon 20 Insertions	EXKIVITY™ (mobocertinib)
	RET	RET fusions	GAVRETO™ (pralsetinib)
	ROS1	ROS1 fusions	XALKORI® (crizotinib)
Cholangiocarcinoma (CC)	IDH1	IDH1 R132C, IDH1 R132G, IDH1 R132H, IDH1 R132L, IDH1 R132S	TIBSOVO® (ivosidenib)

Safe and effective use has not been established for selecting therapies using this device for the variants other than those in Table 1.

Results other than those listed in Table 1 are indicated for use only in patients who have already been considered for all appropriate therapies (including those listed in Table 1). Analytical performance using NSCLC specimens has been established for the variants listed in Table 2.

Table 2. List of Variants with Established Analytical Performance Only

Gene	Variant ID/ Type	Amino Acid Change	Nucleotide Change
KRAS	COSM512	p.Gly12Phe	c.34_35delGGinsTT
KRAS	COSM516	p.Gly12Cys	c.34G>T
MET	COSM707	p.Thr1010Ile	c.3029C>T
PIK3CA	COSM754	p.Asn345Lys	c.1035T>A

The test is not indicated to be used for standalone diagnostic purposes, screening, monitoring, risk assessment, or prognosis.

Warnings and Precautions

For NSCLC, the Oncomine Dx Target Test assay definition file includes prevalent but not all rare or newly identified RET isoforms, ROS1 isoforms, and EGFR exon 20 insertions. The Oncomine Dx Target Test may miss rare or newly identified:

- RET isoforms carried by a subset of patients who may derive benefit from GAVRETO™ (pralsetinib)
- ROS1 isoforms carried by a subset of patients who may derive benefit from XALKORI® (crizotinib)
- EGFR exon 20 insertions carried by a subset of patients who may derive benefit from EXKIVITY™ (mobocertinib)

Limitations

- The Oncomine™ Dx Target Test has only been validated for use with FFPE tumor slide specimens.
- DNA and/or RNA from a single sample extraction must meet the concentration requirements specified in the procedure. Do not use DNA from one extraction with RNA from a different extraction.
- The effects of potential variations in FFPE specimen fixation have not been evaluated.
- Extraction from FFPE sample curls has not been evaluated.
- A potential source of contamination in the procedure is nucleic acid from previous sample processing steps. Follow good laboratory practices and all precautions and guidelines in these user guides to avoid cross-contamination between samples.
- The Oncomine™ Dx Target Test is a qualitative test. The test is not for quantitative measurements of percent mutation.

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Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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- The safe and effective use of the variants reported in the Analytical Sequence Variations Detected section has not been established for selecting therapy using this device. The variants for KRAS (COSM512/p.Gly12Phe/c.34_35delGGinsTT and COSM516/p.Gly12Cys/c.34G>T), MET (COSM707/p.Thr1010Ile/c.3029C>T) and PIK3CA (COSM754/p.Asn345Lys/c.1035T>A) have been analytically validated. Performance of all other variants identified by the test, other than clinically validated therapeutic variants and analytically validated variants, has not been directly demonstrated.

Test Description

The Oncomine™ Dx Target Test reports the following genes in each indication:

Non-small cell lung cancer (NSCLC):

- Single nucleotide variants (SNVs), deletions, and insertions from DNA: AKT1, ALK, BRAF, CDK4, DDR2, EGFR, ERBB2, ERBB3, FGFR2, FGFR3, HRAS, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET and ROS1.
- Fusions from RNA: RET and ROS1.

Cholangiocarcinoma (CC):
• Single nucleotide variants (SNVs) from DNA: IDH1.

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Results for Analytical Sequence Variations Not Detected

Analytical DNA Sequence Variants Not Detected

Note: Results for no calls are listed first, followed by variants that were reported as negative results.

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
ALK	p.Leu1152Arg	c.3455T>G	**NO CALL**	0	COSM97185	chr2:29445270	snv/mnv
ALK	p.Leu1152Pro	c.3455T>C	**NO CALL**	0	COSM1407659	chr2:29445270	snv/mnv
FGFR3	p.Arg248Cys	c.742C>T	**NO CALL**	0.001	COSM714	chr4:1803564	snv/mnv

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
AKT1	p.Glu17Lys	c.49G>A	**NEGATIVE**	0	COSM33765	chr14:105246551	snv/mnv
ALK	p.Arg1275Gln	c.3824G>A	**NEGATIVE**	0	COSM28056	chr2:29432664	snv/mnv
ALK	p.Arg1275Leu	c.3824G>T	**NEGATIVE**	0	COSM28060	chr2:29432664	snv/mnv
ALK	p.Cys1156Tyr	c.3467G>A	**NEGATIVE**	0.01	COSM99136	chr2:29445258	snv/mnv
ALK	p.Gly1128Ala	c.3383G>C	**NEGATIVE**	0	COSM98475	chr2:29445450	snv/mnv
ALK	p.Gly1202Arg	c.3604G>A	**NEGATIVE**	0	COSM144250	chr2:29443613	snv/mnv
ALK	p.Ile1171Asn	c.3512T>A	**NEGATIVE**	0	COSM28498	chr2:29445213	snv/mnv
ALK	p.Ile1171Thr	c.3512T>C	**NEGATIVE**	0	COSM4381100	chr2:29445213	snv/mnv
ALK	p.Leu1196Gln	c.3587T>A	**NEGATIVE**	0	COSM1169447	chr2:29443630	snv/mnv
ALK	p.Leu1196Met	c.3586C>A	**NEGATIVE**	0	COSM99137	chr2:29443631	snv/mnv
ALK	p.Phe1174Cys	c.3521T>G	**NEGATIVE**	0	COSM28059	chr2:29443696	snv/mnv
ALK	p.Phe1174Ile	c.3520T>A	**NEGATIVE**	0	COSM28491	chr2:29443697	snv/mnv
ALK	p.Phe1174Leu	c.3522C>G	**NEGATIVE**	0	COSM28061	chr2:29443695	snv/mnv
ALK	p.Phe1174Leu	c.3522C>A	**NEGATIVE**	0	COSM28055	chr2:29443695	snv/mnv
ALK	p.Phe1174Leu	c.3520T>C	**NEGATIVE**	0	COSM28057	chr2:29443697	snv/mnv
ALK	p.Phe1174Ser	c.3521T>C	**NEGATIVE**	0	COSM53063	chr2:29443696	snv/mnv
ALK	p.Phe1174Val	c.3520T>G	**NEGATIVE**	0	COSM28054	chr2:29443697	snv/mnv
ALK	p.Phe1245Cys	c.3734T>G	**NEGATIVE**	0	COSM28500	chr2:29436859	snv/mnv
ALK	p.Phe1245Ile	c.3733T>A	**NEGATIVE**	0	COSM28492	chr2:29436860	snv/mnv
ALK	p.Phe1245Leu	c.3735C>G	**NEGATIVE**	0	COSM28062	chr2:29436858	snv/mnv
ALK	p.Phe1245Leu	c.3735C>A	**NEGATIVE**	0	COSM28493	chr2:29436858	snv/mnv
ALK	p.Phe1245Val	c.3733T>G	**NEGATIVE**	0	COSM28499	chr2:29436860	snv/mnv
ALK	p.Ser1206Tyr	c.3617C>A	**NEGATIVE**	0	COSM144251	chr2:29443600	snv/mnv
ALK	p.Val1180Leu	c.3538G>C	**NEGATIVE**	0	COSM4381101	chr2:29443679	snv/mnv
BRAF	p.Asp594Asn	c.1780G>A	**NEGATIVE**	0	COSM27639	chr7:140453155	snv/mnv
BRAF	p.Asp594Gly	c.1781A>G	**NEGATIVE**	0	COSM467	chr7:140453154	snv/mnv
BRAF	p.Gly466Glu	c.1397G>A	**NEGATIVE**	0	COSM453	chr7:140481411	snv/mnv
BRAF	p.Gly466Val	c.1397G>T	**NEGATIVE**	0	COSM451	chr7:140481411	snv/mnv
BRAF	p.Gly469Ala	c.1406G>C	**NEGATIVE**	0	COSM460	chr7:140481402	snv/mnv
BRAF	p.Gly469Arg	c.1405G>A	**NEGATIVE**	0.009	COSM457	chr7:140481403	snv/mnv
BRAF	p.Gly469Val	c.1406G>T	**NEGATIVE**	0	COSM459	chr7:140481402	snv/mnv
BRAF	p.Lys601Glu	c.1801A>G	**NEGATIVE**	0	COSM478	chr7:140453134	snv/mnv
BRAF	p.Val600_Lys601delinsGlu	c.1799_1801delTGA	**NEGATIVE**	0	COSM1133	chr7:140453133	del

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
BRAF	p.Val600Arg	c.1798_1799delGTinsAG	**NEGATIVE**	0	COSM474	chr7:140453136	snv/mnv
BRAF	p.Val600Lys	c.1798_1799delGTinsAA	**NEGATIVE**	0	COSM473	chr7:140453136	snv/mnv
CDK4	p.Arg24Cys	c.70C>T	**NEGATIVE**	0	COSM1677139	chr12:58145431	snv/mnv
CDK4	p.Arg24His	c.71G>A	**NEGATIVE**	0	COSM1989836	chr12:58145430	snv/mnv
CDK4	p.Arg24Leu	c.71G>T	**NEGATIVE**	0	COSM363684	chr12:58145430	snv/mnv
CDK4	p.Arg24Ser	c.70C>A	**NEGATIVE**	0	COSM3463914	chr12:58145431	snv/mnv
CDK4	p.Lys22Arg	c.65A>G	**NEGATIVE**	0	COSM232013	chr12:58145436	snv/mnv
CDK4	p.Lys22Gln	c.64A>C	**NEGATIVE**	0	OM3153	chr12:58145437	snv/mnv
CDK4	p.Lys22Met	c.65A>T	**NEGATIVE**	0	COSM3463915	chr12:58145436	snv/mnv
DDR2	p.Arg124Leu	c.371G>T	**NEGATIVE**	0	COSM400880	chr1:162724599	snv/mnv
DDR2	p.Arg124Trp	c.370C>T	**NEGATIVE**	0	COSM4024594	chr1:162724598	snv/mnv
EGFR	p.Ala289Asp	c.866C>A	**NEGATIVE**	0	COSM21685	chr7:55221822	snv/mnv
EGFR	p.Ala289Thr	c.865G>A	**NEGATIVE**	0	COSM21686	chr7:55221821	snv/mnv
EGFR	p.Ala289Val	c.866C>T	**NEGATIVE**	0	COSM21687	chr7:55221822	snv/mnv
EGFR	p.Arg108Gly	c.322A>G	**NEGATIVE**	0	COSM1451536	chr7:55211079	snv/mnv
EGFR	p.Arg108Lys	c.323G>A	**NEGATIVE**	0	COSM21683	chr7:55211080	snv/mnv
EGFR	p.Cys797Ser	c.2389T>A	**NEGATIVE**	0	COSM6493937	chr7:55249091	snv/mnv
EGFR	p.Cys797Ser	c.2390G>C	**NEGATIVE**	0	COSM5945664	chr7:55249092	snv/mnv
EGFR	p.Glu709Ala	c.2126A>C	**NEGATIVE**	0	COSM13427	chr7:55241678	snv/mnv
EGFR	p.Glu709Gly	c.2126A>G	**NEGATIVE**	0	COSM13009	chr7:55241678	snv/mnv
EGFR	p.Glu709Lys	c.2125G>A	**NEGATIVE**	0	COSM12988	chr7:55241677	snv/mnv
EGFR	p.Glu709Val	c.2126A>T	**NEGATIVE**	0	COSM12371	chr7:55241678	snv/mnv
EGFR	p.Gly598Ala	c.1793G>C	**NEGATIVE**	0	COSM3412196	chr7:55233043	snv/mnv
EGFR	p.Gly598Val	c.1793G>T	**NEGATIVE**	0	COSM21690	chr7:55233043	snv/mnv
EGFR	p.Gly719Ala	c.2156G>C	**NEGATIVE**	0	COSM6239	chr7:55241708	snv/mnv
EGFR	p.Gly719Asp	c.2156G>A	**NEGATIVE**	0	COSM18425	chr7:55241708	snv/mnv
EGFR	p.Gly719Cys	c.2155G>T	**NEGATIVE**	0	COSM6253	chr7:55241707	snv/mnv
EGFR	p.Gly719Ser	c.2155G>A	**NEGATIVE**	0	COSM6252	chr7:55241707	snv/mnv
EGFR	p.Leu858Met	c.2572C>A	**NEGATIVE**	0	COSM12366	chr7:55259514	snv/mnv
EGFR	p.Leu861Arg	c.2582T>G	**NEGATIVE**	0	COSM12374	chr7:55259524	snv/mnv
EGFR	p.Leu861Gln	c.2582T>A	**NEGATIVE**	0	COSM6213	chr7:55259524	snv/mnv
EGFR	p.Ser492Arg	c.1474A>C	**NEGATIVE**	0	COSM236671	chr7:55228007	snv/mnv
EGFR	p.Ser492Arg	c.1476C>A	**NEGATIVE**	0	COSM236670	chr7:55228009	snv/mnv
EGFR	p.Ser768Ile	c.2303G>T	**NEGATIVE**	0	COSM6241	chr7:55249005	snv/mnv
ERBB2	p.Arg678Gln	c.2033G>A	**NEGATIVE**	0	COSM436498	chr17:37879658	snv/mnv
ERBB2	p.Arg896Cys	c.2686C>T	**NEGATIVE**	0	COSM14066	chr17:37881616	snv/mnv
ERBB2	p.Arg896His	c.2687G>A	**NEGATIVE**	0	COSM119971	chr17:37881617	snv/mnv
ERBB2	p.Asp769His	c.2305G>C	**NEGATIVE**	0	COSM13170	chr17:37880261	snv/mnv
ERBB2	p.Asp769Tyr	c.2305G>T	**NEGATIVE**	0	COSM1251412	chr17:37880261	snv/mnv
ERBB2	p.Gly776Val	c.2327G>T	**NEGATIVE**	0	COSM18609	chr17:37880998	snv/mnv
ERBB2	p.Leu755Met	c.2263T>A	**NEGATIVE**	0	COSM1205571	chr17:37880219	snv/mnv
ERBB2	p.Leu755Pro	c.2263_2264delTTinsCC	**NEGATIVE**	0	COSM683	chr17:37880219	snv/mnv
ERBB2	p.Ser310Phe	c.929C>T	**NEGATIVE**	0	COSM48358	chr17:37868208	snv/mnv
ERBB2	p.Ser310Tyr	c.929C>A	**NEGATIVE**	0	COSM94225	chr17:37868208	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
ERBB2	p.Thr733Ile	c.2198C>T	**NEGATIVE**	0	COSM14059	chr17:37879903	snv/mnv
ERBB2	p.Val777Leu	c.2329G>T	**NEGATIVE**	0	COSM14062	chr17:37881000	snv/mnv
ERBB2	p.Val842Ile	c.2524G>A	**NEGATIVE**	0	COSM14065	chr17:37881332	snv/mnv
ERBB3	p.Ala232Thr	c.694G>A	**NEGATIVE**	0	COSM4043440	chr12:56481659	snv/mnv
ERBB3	p.Ala232Val	c.695C>T	**NEGATIVE**	0	COSM1242239	chr12:56481660	snv/mnv
ERBB3	p.Asp297Tyr	c.889G>T	**NEGATIVE**	0	COSM160822	chr12:56482341	snv/mnv
ERBB3	p.Asp297Val	c.890A>T	**NEGATIVE**	0	COSM941490	chr12:56482342	snv/mnv
ERBB3	p.Glu332Lys	c.994G>A	**NEGATIVE**	0	COSM254677	chr12:56482537	snv/mnv
ERBB3	p.Met60Arg	c.179T>G	**NEGATIVE**	0	COSM941484	chr12:56477631	snv/mnv
ERBB3	p.Met60Leu	c.178A>T	**NEGATIVE**	0	COSM1606366	chr12:56477630	snv/mnv
ERBB3	p.Met60Lys	c.179T>A	**NEGATIVE**	0	COSM254678	chr12:56477631	snv/mnv
ERBB3	p.Met91Ile	c.273G>A	**NEGATIVE**	0	COSM122890	chr12:56478817	snv/mnv
ERBB3	p.Met91Ile	c.273G>C	**NEGATIVE**	0	COSM1299636	chr12:56478817	snv/mnv
ERBB3	p.Val104Leu	c.310G>C	**NEGATIVE**	0	COSM160824	chr12:56478854	snv/mnv
ERBB3	p.Val104Leu	c.310G>T	**NEGATIVE**	0	COSM191840	chr12:56478854	snv/mnv
ERBB3	p.Val104Met	c.310G>A	**NEGATIVE**	0	COSM172423	chr12:56478854	snv/mnv
FGFR2	p.Ala314Asp	c.941C>A	**NEGATIVE**	0	COSM49171	chr10:123276976	snv/mnv
FGFR2	p.Asn549His	c.1645A>C	**NEGATIVE**	0	COSM250083	chr10:123258036	snv/mnv
FGFR2	p.Asn549Lys	c.1647T>G	**NEGATIVE**	0	COSM36902	chr10:123258034	snv/mnv
FGFR2	p.Asn549Lys	c.1647T>A	**NEGATIVE**	0	COSM36912	chr10:123258034	snv/mnv
FGFR2	p.Asn549Ser	c.1646A>G	**NEGATIVE**	0	COSM3665553	chr10:123258035	snv/mnv
FGFR2	p.Cys382Arg	c.1144T>C	**NEGATIVE**	0	COSM36906	chr10:123274774	snv/mnv
FGFR2	p.Cys382Tyr	c.1145G>A	**NEGATIVE**	0	COSM915493	chr10:123274773	snv/mnv
FGFR2	p.Lys659Asn	c.1977G>T	**NEGATIVE**	0	COSM49173	chr10:123247514	snv/mnv
FGFR2	p.Lys659Asn	c.1977G>C	**NEGATIVE**	0	COSM683054	chr10:123247514	snv/mnv
FGFR2	p.Lys659Glu	c.1975A>G	**NEGATIVE**	0	COSM36909	chr10:123247516	snv/mnv
FGFR2	p.Lys659Met	c.1976A>T	**NEGATIVE**	0	COSM49175	chr10:123247515	snv/mnv
FGFR2	p.Pro253Arg	c.758C>G	**NEGATIVE**	0	COSM49170	chr10:123279674	snv/mnv
FGFR2	p.Pro253Leu	c.758C>T	**NEGATIVE**	0	COSM537801	chr10:123279674	snv/mnv
FGFR2	p.Ser252Trp	c.755C>G	**NEGATIVE**	0	COSM36903	chr10:123279677	snv/mnv
FGFR2	p.Tyr375Cys	c.1124A>G	**NEGATIVE**	0	COSM36904	chr10:123274794	snv/mnv
FGFR2	p.Tyr375His	c.1123T>C	**NEGATIVE**	0	COSM1560916	chr10:123274795	snv/mnv
FGFR3	p.Gly697Cys	c.2089G>T	**NEGATIVE**	0	COSM24802	chr4:1808331	snv/mnv
FGFR3	p.Lys650Asn	c.1950G>T	**NEGATIVE**	0	COSM1428730	chr4:1807891	snv/mnv
FGFR3	p.Lys650Gln	c.1948A>C	**NEGATIVE**	0	COSM726	chr4:1807889	snv/mnv
FGFR3	p.Lys650Glu	c.1948A>G	**NEGATIVE**	0	COSM719	chr4:1807889	snv/mnv
FGFR3	p.Ser249Cys	c.746C>G	**NEGATIVE**	0	COSM715	chr4:1803568	snv/mnv
HRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM499	chr11:533874	snv/mnv
HRAS	p.Gln61His	c.183G>T	**NEGATIVE**	0	COSM502	chr11:533873	snv/mnv
HRAS	p.Gln61His	c.183G>C	**NEGATIVE**	0	COSM503	chr11:533873	snv/mnv
HRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM498	chr11:533874	snv/mnv
HRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM496	chr11:533875	snv/mnv
HRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM500	chr11:533874	snv/mnv
HRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM485	chr11:534288	snv/mnv
HRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	0	COSM482	chr11:534289	snv/mnv
HRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0	COSM484	chr11:534288	snv/mnv
HRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	0	COSM481	chr11:534289	snv/mnv
HRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	0	COSM480	chr11:534289	snv/mnv

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HRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0	COSM483	chr11:534288	snv/mnv
HRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM486	chr11:534286	snv/mnv
HRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM490	chr11:534285	snv/mnv
HRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0	COSM488	chr11:534286	snv/mnv
HRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM487	chr11:534286	snv/mnv
HRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM489	chr11:534285	snv/mnv
KIT	p.Arg796Lys	c.2387G>A	**NEGATIVE**	0	COSM1600411	chr4:55599261	snv/mnv
KIT	p.Asn822Lys	c.2466T>A	**NEGATIVE**	0	COSM1321	chr4:55599340	snv/mnv
KIT	p.Asn822Lys	c.2466T>G	**NEGATIVE**	0	COSM1322	chr4:55599340	snv/mnv
KIT	p.Asp419_Arg420del	c.1255_1260delGACAGG	**NEGATIVE**	0	COSM1578132	chr4:55589772	del
KIT	p.Asp419del	c.1255_1257delGAC	**NEGATIVE**	0	COSM29014	chr4:55589770	del
KIT	p.Asp579del	c.1735_1737delGAT	**NEGATIVE**	0	COSM1294	chr4:55593666	del
KIT	p.Asp816His	c.2446G>C	**NEGATIVE**	0	COSM1311	chr4:55599320	snv/mnv
KIT	p.Asp816Tyr	c.2446G>T	**NEGATIVE**	0	COSM1310	chr4:55599320	snv/mnv
KIT	p.Asp816Val	c.2447A>T	**NEGATIVE**	0	COSM1314	chr4:55599321	snv/mnv
KIT	p.Leu576Pro	c.1727T>C	**NEGATIVE**	0	COSM1290	chr4:55593661	snv/mnv
KIT	p.Lys642Glu	c.1924A>G	**NEGATIVE**	0	COSM1304	chr4:55594221	snv/mnv
KIT	p.Trp557_Lys558del	c.1669_1674delTGGAAG	**NEGATIVE**	0	COSM1217	chr4:55593600	del
KIT	p.Trp557_Val559delinsPhe	c.1670_1675delGGAAGG	**NEGATIVE**	0	COSM1226	chr4:55593603	del
KIT	p.Trp557Arg	c.1669T>A	**NEGATIVE**	0	COSM1216	chr4:55593603	snv/mnv
KIT	p.Trp557Arg	c.1669T>C	**NEGATIVE**	0	COSM1219	chr4:55593603	snv/mnv
KIT	p.Trp557Gly	c.1669T>G	**NEGATIVE**	0	COSM1221	chr4:55593603	snv/mnv
KIT	p.Val559Ala	c.1676T>C	**NEGATIVE**	0	COSM1255	chr4:55593610	snv/mnv
KIT	p.Val559Asp	c.1676T>A	**NEGATIVE**	0	COSM1252	chr4:55593610	snv/mnv
KIT	p.Val559del	c.1679_1681delTTG	**NEGATIVE**	0	COSM1247	chr4:55593608	del
KIT	p.Val559Gly	c.1676T>G	**NEGATIVE**	0	COSM1253	chr4:55593610	snv/mnv
KIT	p.Val560Asp	c.1679T>A	**NEGATIVE**	0	COSM1257	chr4:55593613	snv/mnv
KIT	p.Val654Ala	c.1961T>C	**NEGATIVE**	0	COSM12706	chr4:55594258	snv/mnv
KIT	p.Val825Ala	c.2474T>C	**NEGATIVE**	0	COSM1323	chr4:55599348	snv/mnv
KRAS	p.Ala146Pro	c.436G>C	**NEGATIVE**	0	COSM19905	chr12:25378562	snv/mnv
KRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	0	COSM19404	chr12:25378562	snv/mnv
KRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	0	COSM19900	chr12:25378561	snv/mnv
KRAS	p.Ala59Glu	c.176C>A	**NEGATIVE**	0	COSM547	chr12:25380282	snv/mnv
KRAS	p.Ala59Gly	c.176C>G	**NEGATIVE**	0	COSM28518	chr12:25380282	snv/mnv
KRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	0	COSM546	chr12:25380283	snv/mnv
KRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM552	chr12:25380276	snv/mnv
KRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	0	COSM550	chr12:25380277	snv/mnv
KRAS	p.Gln61His	c.183A>T	**NEGATIVE**	0	COSM555	chr12:25380275	snv/mnv
KRAS	p.Gln61His	c.183A>C	**NEGATIVE**	0	COSM554	chr12:25380275	snv/mnv
KRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM553	chr12:25380276	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
KRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM549	chr12:25380277	snv/mnv
KRAS	p.Gln61Lys	c.180_181delTCinsAA	**NEGATIVE**	0	COSM87298	chr12:25380277	snv/mnv
KRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM551	chr12:25380276	snv/mnv
KRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM522	chr12:25398284	snv/mnv
KRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	0	COSM518	chr12:25398285	snv/mnv
KRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0.012	COSM521	chr12:25398284	snv/mnv
KRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	0.019	COSM516	chr12:25398285	snv/mnv
KRAS	p.Gly12Phe	c.34_35delGGinsTT	**NEGATIVE**	0	COSM512	chr12:25398284	snv/mnv
KRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	0	COSM517	chr12:25398285	snv/mnv
KRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0.014	COSM520	chr12:25398284	snv/mnv
KRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	0	COSM533	chr12:25398281	snv/mnv
KRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM529	chr12:25398282	snv/mnv
KRAS	p.Gly13Asp	c.38_39delGCinsAT	**NEGATIVE**	0	COSM531	chr12:25398280	snv/mnv
KRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM532	chr12:25398281	snv/mnv
KRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0	COSM527	chr12:25398282	snv/mnv
KRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM528	chr12:25398282	snv/mnv
KRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM534	chr12:25398281	snv/mnv
KRAS	p.Lys117Asn	c.351A>T	**NEGATIVE**	0	COSM28519	chr12:25378647	snv/mnv
KRAS	p.Lys117Asn	c.351A>C	**NEGATIVE**	0	COSM19940	chr12:25378647	snv/mnv
MAP2K1	p.Glu203Lys	c.607G>A	**NEGATIVE**	0	COSM232755	chr15:66774131	snv/mnv
MAP2K1	p.Glu203Val	c.608A>T	**NEGATIVE**	0	COSM3386991	chr15:66774132	snv/mnv
MAP2K1	p.Lys57Asn	c.171G>C	**NEGATIVE**	0	COSM5520914	chr15:66727455	snv/mnv
MAP2K1	p.Lys57Asn	c.171G>T	**NEGATIVE**	0	COSM1235478	chr15:66727455	snv/mnv
MAP2K1	p.Lys57Met	c.170A>T	**NEGATIVE**	0	MAN124	chr15:66727454	snv/mnv
MAP2K1	p.Lys57Thr	c.170A>C	**NEGATIVE**	0	COSM4756761	chr15:66727454	snv/mnv
MAP2K1	p.Phe53Ile	c.157T>A	**NEGATIVE**	0	COSM3503329	chr15:66727441	snv/mnv
MAP2K1	p.Phe53Leu	c.157T>C	**NEGATIVE**	0	COSM555604	chr15:66727441	snv/mnv
MAP2K1	p.Phe53Leu	c.159T>A	**NEGATIVE**	0	COSM1725008	chr15:66727443	snv/mnv
MAP2K1	p.Phe53Leu	c.159T>G	**NEGATIVE**	0	COSM2257208	chr15:66727443	snv/mnv
MAP2K1	p.Phe53Val	c.157T>G	**NEGATIVE**	0	COSM1562837	chr15:66727441	snv/mnv
MAP2K1	p.Pro124Gln	c.371C>A	**NEGATIVE**	0	COSM1167912	chr15:66729163	snv/mnv
MAP2K1	p.Pro124Leu	c.371C>T	**NEGATIVE**	0	COSM1315861	chr15:66729163	snv/mnv
MAP2K1	p.Pro124Ser	c.370C>T	**NEGATIVE**	0	COSM235614	chr15:66729162	snv/mnv
MAP2K2	p.Gln60Pro	c.179A>C	**NEGATIVE**	0	COSM145610	chr19:4117541	snv/mnv
MAP2K2	p.Phe57Leu	c.171T>G	**NEGATIVE**	0	OM3158	chr19:4117549	snv/mnv
MAP2K2	p.Phe57Leu	c.171T>A	**NEGATIVE**	0	COSM3389034	chr19:4117549	snv/mnv
MAP2K2	p.Phe57Leu	c.169T>C	**NEGATIVE**	0	COSM1235618	chr19:4117551	snv/mnv
MAP2K2	p.Phe57Val	c.169T>G	**NEGATIVE**	0	COSM3534171	chr19:4117551	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM29633	chr7:116412044	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM24687	chr7:116412044	snv/mnv
MET	NA	NA	**NEGATIVE**	0	COSM35468	chr7:116412045	snv/mnv
MET	p.His1112Arg	c.3335A>G	**NEGATIVE**	0	COSM703	chr7:116417464	snv/mnv
MET	p.His1112Leu	c.3335A>T	**NEGATIVE**	0	COSM698	chr7:116417464	snv/mnv
MET	p.His1112Tyr	c.3334C>T	**NEGATIVE**	0	COSM696	chr7:116417463	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
MET	p.Met1268Ile	c.3804G>A	**NEGATIVE**	0	COSM694	chr7:116423475	snv/mnv
MET	p.Met1268Thr	c.3803T>C	**NEGATIVE**	0	COSM691	chr7:116423474	snv/mnv
MET	p.Thr1010Ile	c.3029C>T	**NEGATIVE**	0.012	COSM707	chr7:116411990	snv/mnv
MET	p.Tyr1021Asn	c.3061T>A	**NEGATIVE**	0	COSM48564	chr7:116412022	snv/mnv
MET	p.Tyr1021Phe	c.3062A>T	**NEGATIVE**	0	COSM339515	chr7:116412023	snv/mnv
MET	p.Tyr1248Cys	c.3743A>G	**NEGATIVE**	0	COSM699	chr7:116423414	snv/mnv
MET	p.Tyr1248His	c.3742T>C	**NEGATIVE**	0	COSM690	chr7:116423413	snv/mnv
MET	p.Tyr1253Asp	c.3757T>G	**NEGATIVE**	0	COSM700	chr7:116423428	snv/mnv
MTOR	p.Cys1483Arg	c.4447T>C	**NEGATIVE**	0	COSM3747775	chr1:11217231	snv/mnv
MTOR	p.Cys1483Phe	c.4448G>T	**NEGATIVE**	0	COSM462616	chr1:11217230	snv/mnv
MTOR	p.Cys1483Trp	c.4449C>G	**NEGATIVE**	0	OM3149	chr1:11217229	snv/mnv
MTOR	p.Cys1483Tyr	c.4448G>A	**NEGATIVE**	0	COSM462615	chr1:11217230	snv/mnv
MTOR	p.Glu1799Lys	c.5395G>A	**NEGATIVE**	0	COSM180789	chr1:11190804	snv/mnv
MTOR	p.Leu2427Arg	c.7280T>G	**NEGATIVE**	0	COSM2119114	chr1:11174395	snv/mnv
MTOR	p.Leu2427Gln	c.7280T>A	**NEGATIVE**	0	COSM1185313	chr1:11174395	snv/mnv
MTOR	p.Phe1888Ile	c.5662T>A	**NEGATIVE**	0	COSM3358968	chr1:11189847	snv/mnv
MTOR	p.Phe1888Leu	c.5664C>G	**NEGATIVE**	0	COSM462604	chr1:11189845	snv/mnv
MTOR	p.Phe1888Leu	c.5664C>A	**NEGATIVE**	0	COSM893813	chr1:11189845	snv/mnv
MTOR	p.Phe1888Leu	c.5662T>C	**NEGATIVE**	0	COSM3358967	chr1:11189847	snv/mnv
MTOR	p.Phe1888Val	c.5662T>G	**NEGATIVE**	0	COSM893814	chr1:11189847	snv/mnv
MTOR	p.Ser2215Phe	c.6644C>T	**NEGATIVE**	0	COSM1686998	chr1:11184573	snv/mnv
MTOR	p.Ser2215Pro	c.6643T>C	**NEGATIVE**	0	COSM1560108	chr1:11184574	snv/mnv
MTOR	p.Ser2215Tyr	c.6644C>A	**NEGATIVE**	0	COSM20417	chr1:11184573	snv/mnv
MTOR	p.Thr1977Arg	c.5930C>G	**NEGATIVE**	0	COSM462602	chr1:11188164	snv/mnv
MTOR	p.Thr1977Lys	c.5930C>A	**NEGATIVE**	0	COSM462601	chr1:11188164	snv/mnv
MTOR	p.Thr1977Ser	c.5929A>T	**NEGATIVE**	0	COSM1289945	chr1:11188165	snv/mnv
MTOR	p.Val2006Ile	c.6016G>A	**NEGATIVE**	0	COSM893804	chr1:11188078	snv/mnv
MTOR	p.Val2006Leu	c.6016G>C	**NEGATIVE**	0	COSM1134662	chr1:11188078	snv/mnv
MTOR	p.Val2006Phe	c.6016G>T	**NEGATIVE**	0	COSM249481	chr1:11188078	snv/mnv
NRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	0	COSM27174	chr1:115252204	snv/mnv
NRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	0	COSM4170228	chr1:115252203	snv/mnv
NRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	0	COSM578	chr1:115256536	snv/mnv
NRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	0	COSM584	chr1:115256529	snv/mnv
NRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	0	COSM581	chr1:115256530	snv/mnv
NRAS	p.Gln61His	c.183A>T	**NEGATIVE**	0	COSM585	chr1:115256528	snv/mnv
NRAS	p.Gln61His	c.183A>C	**NEGATIVE**	0	COSM586	chr1:115256528	snv/mnv
NRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	0	COSM583	chr1:115256529	snv/mnv
NRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	0	COSM580	chr1:115256530	snv/mnv
NRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	0	COSM582	chr1:115256529	snv/mnv
NRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	0	COSM565	chr1:115258747	snv/mnv
NRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	0	COSM561	chr1:115258748	snv/mnv
NRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	0	COSM564	chr1:115258747	snv/mnv
NRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	0	COSM562	chr1:115258748	snv/mnv
NRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	0	COSM563	chr1:115258748	snv/mnv
NRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	0	COSM566	chr1:115258747	snv/mnv
NRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	0	COSM575	chr1:115258744	snv/mnv
NRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	0	COSM569	chr1:115258745	snv/mnv
NRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	0	COSM573	chr1:115258744	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
NRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	0	COSM570	chr1:115258745	snv/mnv
NRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	0	COSM571	chr1:115258745	snv/mnv
NRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	0	COSM574	chr1:115258744	snv/mnv
NRAS	p.Lys117Asn	c.351G>T	**NEGATIVE**	0	MAN13	chr1:115252289	snv/mnv
PDGFRA	p.Asn659Lys	c.1977C>A	**NEGATIVE**	0	COSM22415	chr4:55144148	snv/mnv
PDGFRA	p.Asn659Lys	c.1977C>G	**NEGATIVE**	0	COSM22414	chr4:55144148	snv/mnv
PDGFRA	p.Asn659Tyr	c.1975A>T	**NEGATIVE**	0	COSM22416	chr4:55144146	snv/mnv
PDGFRA	p.Asp842_His845del	c.2526_2537delCATCATGCATGA	**NEGATIVE**	0	COSM737	chr4:55152091	del
PDGFRA	p.Asp842_Met844del	c.2524_2532delGACATCATG	**NEGATIVE**	0	COSM12401	chr4:55152091	del
PDGFRA	p.Asp842Tyr	c.2524G>T	**NEGATIVE**	0	COSM12396	chr4:55152092	snv/mnv
PDGFRA	p.Asp842Val	c.2525A>T	**NEGATIVE**	0	COSM736	chr4:55152093	snv/mnv
PDGFRA	p.Ile843_Asp846del	c.2527_2538delATCATGCATGAT	**NEGATIVE**	0	COSM12400	chr4:55152094	del
PDGFRA	p.Ile843_Ser847delinsThr	c.2528_2539delTCATGCATGATT	**NEGATIVE**	0	COSM12407	chr4:55152095	del
PDGFRA	p.Val561Asp	c.1682T>A	**NEGATIVE**	0	COSM739	chr4:55141036	snv/mnv
PIK3CA	p.Arg108His	c.323G>A	**NEGATIVE**	0	COSM27497	chr3:178916936	snv/mnv
PIK3CA	p.Arg38Cys	c.112C>T	**NEGATIVE**	0	COSM744	chr3:178916725	snv/mnv
PIK3CA	p.Arg38Gly	c.112C>G	**NEGATIVE**	0	COSM40945	chr3:178916725	snv/mnv
PIK3CA	p.Arg38His	c.113G>A	**NEGATIVE**	0	COSM745	chr3:178916726	snv/mnv
PIK3CA	p.Arg38Ser	c.112C>A	**NEGATIVE**	0	COSM87310	chr3:178916725	snv/mnv
PIK3CA	p.Arg88Gln	c.263G>A	**NEGATIVE**	0	COSM746	chr3:178916876	snv/mnv
PIK3CA	p.Arg93Gln	c.278G>A	**NEGATIVE**	0	COSM86041	chr3:178916891	snv/mnv
PIK3CA	p.Arg93Trp	c.277C>T	**NEGATIVE**	0	COSM27493	chr3:178916890	snv/mnv
PIK3CA	p.Asn1044Lys	c.3132T>A	**NEGATIVE**	0	COSM12592	chr3:178952077	snv/mnv
PIK3CA	p.Asn345Ile	c.1034A>T	**NEGATIVE**	0	COSM94978	chr3:178921552	snv/mnv
PIK3CA	p.Asn345Lys	c.1035T>A	**NEGATIVE**	0	COSM754	chr3:178921553	snv/mnv
PIK3CA	p.Cys378Arg	c.1132T>C	**NEGATIVE**	0	COSM756	chr3:178922363	snv/mnv
PIK3CA	p.Cys378Phe	c.1133G>T	**NEGATIVE**	0	COSM21450	chr3:178922364	snv/mnv
PIK3CA	p.Cys378Tyr	c.1133G>A	**NEGATIVE**	0	COSM1041478	chr3:178922364	snv/mnv
PIK3CA	p.Cys420Arg	c.1258T>C	**NEGATIVE**	0	COSM757	chr3:178927980	snv/mnv
PIK3CA	p.Cys901Arg	c.2701T>C	**NEGATIVE**	0	COSM1420899	chr3:178947826	snv/mnv
PIK3CA	p.Cys901Phe	c.2702G>T	**NEGATIVE**	0	COSM769	chr3:178947827	snv/mnv
PIK3CA	p.Cys901Tyr	c.2702G>A	**NEGATIVE**	0	COSM1420901	chr3:178947827	snv/mnv
PIK3CA	p.Gln546Arg	c.1637A>G	**NEGATIVE**	0	COSM12459	chr3:178936095	snv/mnv
PIK3CA	p.Gln546Glu	c.1636C>G	**NEGATIVE**	0	COSM6147	chr3:178936094	snv/mnv
PIK3CA	p.Gln546Lys	c.1636C>A	**NEGATIVE**	0	COSM766	chr3:178936094	snv/mnv
PIK3CA	p.Gln546Pro	c.1637A>C	**NEGATIVE**	0	COSM767	chr3:178936095	snv/mnv
PIK3CA	p.Glu365Gly	c.1094A>G	**NEGATIVE**	0	COSM1420797	chr3:178922325	snv/mnv
PIK3CA	p.Glu365Lys	c.1093G>A	**NEGATIVE**	0	COSM86044	chr3:178922324	snv/mnv
PIK3CA	p.Glu365Val	c.1094A>T	**NEGATIVE**	0	COSM1484860	chr3:178922325	snv/mnv
PIK3CA	p.Glu39Lys	c.115G>A	**NEGATIVE**	0	COSM30625	chr3:178916728	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
PIK3CA	p.Glu542Lys	c.1624G>A	**NEGATIVE**	0	COSM760	chr3:178936082	snv/mnv
PIK3CA	p.Glu542Val	c.1625A>T	**NEGATIVE**	0	COSM762	chr3:178936083	snv/mnv
PIK3CA	p.Glu545Ala	c.1634A>C	**NEGATIVE**	0	COSM12458	chr3:178936092	snv/mnv
PIK3CA	p.Glu545Asp	c.1635G>C	**NEGATIVE**	0	COSM27374	chr3:178936093	snv/mnv
PIK3CA	p.Glu545Asp	c.1635G>T	**NEGATIVE**	0	COSM765	chr3:178936093	snv/mnv
PIK3CA	p.Glu545Gln	c.1633G>C	**NEGATIVE**	0	COSM27133	chr3:178936091	snv/mnv
PIK3CA	p.Glu545Gly	c.1634A>G	**NEGATIVE**	0	COSM764	chr3:178936092	snv/mnv
PIK3CA	p.Glu545Lys	c.1633G>A	**NEGATIVE**	0	COSM763	chr3:178936091	snv/mnv
PIK3CA	p.Glu547Lys	c.1639G>A	**NEGATIVE**	0	COSM29315	chr3:178936097	snv/mnv
PIK3CA	p.Glu726Gly	c.2177A>G	**NEGATIVE**	0	COSM1420887	chr3:178938935	snv/mnv
PIK3CA	p.Glu726Lys	c.2176G>A	**NEGATIVE**	0	COSM87306	chr3:178938934	snv/mnv
PIK3CA	p.Glu81Lys	c.241G>A	**NEGATIVE**	0	COSM27502	chr3:178916854	snv/mnv
PIK3CA	p.Gly1049Arg	c.3145G>C	**NEGATIVE**	0	COSM12597	chr3:178952090	snv/mnv
PIK3CA	p.Gly1049Ser	c.3145G>A	**NEGATIVE**	0	COSM777	chr3:178952090	snv/mnv
PIK3CA	p.Gly106Val	c.317G>T	**NEGATIVE**	0	COSM748	chr3:178916930	snv/mnv
PIK3CA	p.His1047Arg	c.3140A>G	**NEGATIVE**	0.012	COSM775	chr3:178952085	snv/mnv
PIK3CA	p.His1047Leu	c.3140A>T	**NEGATIVE**	0	COSM776	chr3:178952085	snv/mnv
PIK3CA	p.His1047Tyr	c.3139C>T	**NEGATIVE**	0	COSM774	chr3:178952084	snv/mnv
PIK3CA	p.His701Arg	c.2102A>G	**NEGATIVE**	0	COSM1420881	chr3:178938860	snv/mnv
PIK3CA	p.His701Pro	c.2102A>C	**NEGATIVE**	0	COSM778	chr3:178938860	snv/mnv
PIK3CA	p.Lys111Glu	c.331A>G	**NEGATIVE**	0	COSM13570	chr3:178916944	snv/mnv
PIK3CA	p.Met1043Ile	c.3129G>A	**NEGATIVE**	0	COSM29313	chr3:178952074	snv/mnv
PIK3CA	p.Met1043Ile	c.3129G>T	**NEGATIVE**	0	COSM773	chr3:178952074	snv/mnv
PIK3CA	p.Met1043Val	c.3127A>G	**NEGATIVE**	0	COSM12591	chr3:178952072	snv/mnv
PIK3CA	p.Pro539Arg	c.1616C>G	**NEGATIVE**	0	COSM759	chr3:178936074	snv/mnv
PIK3CA	p.Thr1025Ala	c.3073A>G	**NEGATIVE**	0	COSM771	chr3:178952018	snv/mnv
PIK3CA	p.Tyr1021Cys	c.3062A>G	**NEGATIVE**	0	COSM12461	chr3:178952007	snv/mnv
PIK3CA	p.Val344Ala	c.1031T>C	**NEGATIVE**	0	COSM86951	chr3:178921549	snv/mnv
PIK3CA	p.Val344Gly	c.1031T>G	**NEGATIVE**	0	COSM22540	chr3:178921549	snv/mnv
RAF1	p.Ser257Leu	c.770C>T	**NEGATIVE**	0	COSM181063	chr3:12645699	snv/mnv
RAF1	p.Ser257Trp	c.770C>G	**NEGATIVE**	0	COSM581519	chr3:12645699	snv/mnv
RAF1	p.Thr421Met	c.1262_1263delCCinsTG	**NEGATIVE**	0	MAN9	chr3:12632404	snv/mnv
RET	p.Ala883Phe	c.2646_2648delAGCinsTTT	**NEGATIVE**	0	COSM981	chr10:43615567	snv/mnv
RET	p.Ala883Ser	c.2647G>T	**NEGATIVE**	0	COSM133167	chr10:43615568	snv/mnv
RET	p.Asp898_Glu901del	c.2694_2705delTGTTTATGAAGA	**NEGATIVE**	0	COSM962	chr10:43615611	del
RET	p.Cys618Arg	c.1852T>C	**NEGATIVE**	0	COSM29803	chr10:43609096	snv/mnv
RET	p.Cys618Tyr	c.1853G>A	**NEGATIVE**	0	COSM980	chr10:43609097	snv/mnv
RET	p.Cys620Arg	c.1858T>C	**NEGATIVE**	0	COSM29804	chr10:43609102	snv/mnv
RET	p.Cys634Arg	c.1900T>C	**NEGATIVE**	0	COSM966	chr10:43609948	snv/mnv
RET	p.Glu768Asp	c.2304G>C	**NEGATIVE**	0	COSM21338	chr10:43613840	snv/mnv
RET	p.Glu768Gly	c.2303A>G	**NEGATIVE**	0	COSM1347811	chr10:43613839	snv/mnv
RET	p.Met918Thr	c.2753T>C	**NEGATIVE**	0	COSM965	chr10:43617416	snv/mnv
ROS1	p.Gly2032Arg	c.6094G>C	**NEGATIVE**	0	MAN11	chr6:117638347	snv/mnv

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Clinical Lab Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Allele Frequency	Hotspot ID	Locus	Type
ROS1	p.Gly2032Arg	c.6094G>A	**NEGATIVE**	0	MAN10	chr6:117638347	snv/mnv
ROS1	p.Leu1951Met	c.5851C>A	**NEGATIVE**	0	COSM1072521	chr6:117641120	snv/mnv

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Sequencing Run Details

Assay

Name:	Oncomine™ Dx Target Test US v3.2
Panel:	Oncomine™ Dx Target Panel US v3.2 Regions, Oncomine™ Dx Target Panel US v3.2 Fusions

Analysis

Date:	02 SEP 2021
Operator:	Auto

Run Details

Metric Name	Value
Panel Kit Name:	Oncomine™ Dx Target Test DNA and RNA Panel
Panel Kit Barcode:	91A32441101212-12345681737112222100102301
Panel Kit Part Number:	A32441
Panel Kit Expiry Date:	22 NOV 2022
Panel Kit Lot Number:	1212-1234568
Control Kit Name:	Oncomine™ Dx Target DNA Control v2.0
Control Kit Barcode:	011019030200584517370831101234562 40A44913
Control Kit Part Number:	A44913
Control Kit Expiry Date:	31 AUG 2022
Control Kit Lot Number:	123456
Extraction Kit Name:	Ion Torrent Dx Total NA Isolation Kit
Extraction Kit Barcode:	91A32434101212-12345681737112222100101301
Extraction Kit Part Number:	A32434
Extraction Kit Expiry Date:	22 NOV 2022
Extraction Kit Lot Number:	1212-1234568
Library Kit Name:	Ion PGM Dx Library
Library Kit Barcode:	91A18928101212-12345681737112222100102301
Library Kit Part Number:	A18928
Library Kit Expiry Date:	22 NOV 2022
Library Kit Lot Number:	1212-1234568
Templating Kit Name:	Ion OneTouch Dx Template
Templating Kit Barcode:	91A18930101212-12345681737112222100101301
Templating Instrument Serial Number:	
Operator:	
Start Date:	
Completion Date:	
Templating Kit Part Number:	A18930
Templating Kit Expiry Date:	22 NOV 2022
Templating Kit Lot Number:	1212-1234568
Sequencing Kit Name:	Ion PGM Dx Sequencing
Sequencing Kit Barcode:	
Sequencing Instrument Serial	

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Number:	
Operator:	fp1234
Start Date:	
Completion Date:	

Chip Kit Name:	Ion 318™ DX Chip
Chip top barcode:	
Chip bottom barcode:	
Chip Manufacturing date:	

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Control QC Evaluation Metrics

Ion Dx CF-1

Metric Name	Value	Reference Range	QC Status
Mean AQ20 Read Length (bp)	140	>=131	Passed
Percent Reads	0.06	>=0.03	Passed

DNA Control

Metric Name	Value	Reference Range	QC Status
COSM12558	PRESENT	PRESENT	Passed
COSM12558_AF	0.076	>=0.05	Passed
COSM476	PRESENT	PRESENT	Passed
COSM476_AF	0.114	>=0.05	Passed
COSM521	PRESENT	PRESENT	Passed
COSM521_AF	0.12	>=0.05	Passed
COSM6223	PRESENT	PRESENT	Passed
COSM6223_AF	0.11	>=0.05	Passed
COSM6224	PRESENT	PRESENT	Passed
COSM6224_AF	0.093	>=0.05	Passed
COSM760	PRESENT	PRESENT	Passed
COSM760_AF	0.121	>=0.05	Passed
Mean AQ20 Read Length (bp)	103	>=98	Passed
Percent Reads	2.59	>=0.7	Passed

RNA Control

Metric Name	Value	Reference Range	QC Status
ROS1 Fusion Reads	599	>=349	Passed
Total Mappable Reads	25439	>=18164	Passed

DNA NTC Control

Metric Name	Value	Reference Range	QC Status
Hotspot Calls	0	<=0	Passed

RNA NTC Control

Metric Name	Value	Reference Range	QC Status
Total Fusion Calls	0	<=0	Passed
Total Mappable Reads	0	<=4999	Passed

Sample QC Evaluation Metrics

DNA Sample

Metric Name	Value	Reference Range	QC Status
Mean AQ20 Read Length (bp)	100	>=90	Passed
Percent Reads	2.01	>=0.7	Passed

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RNA Sample

Metric Name	Value	Reference Range	QC Status
Total Mappable Reads	44235	>=5000	Passed

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Sample Details

Cancer Type:	**Non-small Cell Lung Cancer**	Ordering Physician:	**Dr. Jane Smith**	Sample Type:	**FFPE,Block**
Patient ID:	**Steve Snow**	%Necrosis:		Sample ID:	**ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2**
Gender:	**Male**	%Cellularity:			
Date Of Birth:	**01 AUG 1980**	Reference Interval:		Collection Date:	**01 JUL 2016**
Sample Condition:	**Moderate**			Created On:	**01 SEP 2021 17:43**
				Sample Source:	**Tissue**

Results for Sequence Variations for Therapeutic Use

Gene Fusions (RNA) for Therapeutic Use

Gene	Display Name	Test Result	Therapy
RET	RET Fusion	**ABSENT**	None Indicated
ROS1	ROS1 Fusion	**ABSENT**	None Indicated

DNA Sequence Variants for Therapeutic Use

Note: Results for positive variants are listed first to provide therapy information, followed by variants with no calls, followed by variants that were reported as negative results.

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGCAGCGTGG	**POSITIVE**	COSM18429	EXKIVITY™ (mobocertinib)

Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
BRAF	BRAF V600E	p.Val600Glu	c.1799T>A	**NEGATIVE**	COSM476	None Indicated
BRAF	BRAF V600E	p.Val600Glu	c.1799_1800delTGinsAA	**NEGATIVE**	COSM475	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2235_2249delGGAATTAAGAGAAGC	**NEGATIVE**	COSM6223	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ala750del	c.2236_2250delGAATTAAGAGAAGCA	**NEGATIVE**	COSM6225	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Arg748del	c.2239_2247delTTAAGAGAA	**NEGATIVE**	COSM6218	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Glu749del	c.2235_2246delGGAATTAAGAGA	**NEGATIVE**	COSM28517	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsAsp	c.2238_2255delATTAAGAGAAGCAACATC	**NEGATIVE**	COSM6220	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Ser752delinsVal	c.2237_2255delAATTAAGAGAAGCAACATCinsT	**NEGATIVE**	COSM12384	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751del	c.2236_2253delGAATTAAGAGAAGCAACA	**NEGATIVE**	COSM12728	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsAla	c.2237_2251delAATTAAGAGAAGCAA	**NEGATIVE**	COSM12678	None Indicated

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsIle	c.2235_2252delGGAATTAAGAGAAGCAACinsAAT	**NEGATIVE**	COSM13551	None Indicated
EGFR	EGFR Exon 19 deletion	p.Glu746_Thr751delinsValAla	c.2237_2253delAATTAAGAGAAGCAACAinsTTGCT	**NEGATIVE**	COSM12416	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2239_2248delTTAAGAGAAGinsC	**NEGATIVE**	COSM12382	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ala750delinsPro	c.2238_2248delATTAAGAGAAGinsGC	**NEGATIVE**	COSM12422	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsGln	c.2239_2258delTTAAGAGAAGCAACATCTCCinsCA	**NEGATIVE**	COSM12387	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Pro753delinsSer	c.2240_2257delTAAGAGAAGCAACATCTC	**NEGATIVE**	COSM12370	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Ser752del	c.2239_2256delTTAAGAGAAGCAACATCT	**NEGATIVE**	COSM6255	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751del	c.2240_2254delTAAGAGAAGCAACAT	**NEGATIVE**	COSM12369	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsGln	c.2238_2252delATTAAGAGAAGCAACinsGCA	**NEGATIVE**	COSM12419	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsPro	c.2239_2251delTTAAGAGAAGCAAinsC	**NEGATIVE**	COSM12383	None Indicated
EGFR	EGFR Exon 19 deletion	p.Leu747_Thr751delinsSer	c.2240_2251delTAAGAGAAGCAA	**NEGATIVE**	COSM6210	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Ala750delinsThr	c.2234_2248delAGGAATTAAGAGAAG	**NEGATIVE**	COSM1190791	None Indicated
EGFR	EGFR Exon 19 deletion	p.Lys745_Glu749del	c.2233_2247delAAGGAATTAAGAGAA	**NEGATIVE**	COSM26038	None Indicated
EGFR	EGFR Exon 20 Insertion	NA	NA	**NEGATIVE**	COSM26720	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValAsp	c.2311_2312insGCGTGGACA	**NEGATIVE**	COSM13428	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insSerValGly	c.2308_2309insGGAGCGTGG	**NEGATIVE**	COSM1235344	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Ser768insTyrValMet	c.2301_2302insTACGTGATG	**NEGATIVE**	COSM1651740	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ala767_Val769dup	c.2309_2310delACinsCCAGCGTGGAT	**NEGATIVE**	COSM13558	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insArgHis	c.2314_2315insGGCACC	**NEGATIVE**	COSM166390	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insHis	c.2314_2315insACC	**NEGATIVE**	COSM1238031	None Indicated

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EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHis	c.2319_2320insCCCCAC	**NEGATIVE**	COSM12380	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProThrHis	c.2315_2316insGACACACCC	**NEGATIVE**	COSM48923	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysLeu	c.2312_2313insACT	**NEGATIVE**	COSM6438147	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerGlyHis	c.2311_2312insGTGGCC	**NEGATIVE**	COSM1651744	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsThrHis	c.2311_2312insCAC	**NEGATIVE**	COSM22946	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsValHis	c.2311_2311delAinsGTCC	**NEGATIVE**	COSM5023007	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771delinsAlaGlyGly	c.2309_2312delACAAinsCTGGTGG	**NEGATIVE**	COSM12737	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAlaProTrp	c.2310_2311insGCACCGTGG	**NEGATIVE**	COSM20886	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsn	c.2313_2314insAAC	**NEGATIVE**	COSM13003	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnPro	c.2316_2317insAACCCC	**NEGATIVE**	MAN123	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHis	c.2319_2320insAACCCCCAC	**NEGATIVE**	COSM12381	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProHisGly	c.2320_2321insGCAACCCCCACG	**NEGATIVE**	COSM51544	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlnArgGly	c.2310_2311insCAGCGTGGC	**NEGATIVE**	COSM4970107	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGC	**NEGATIVE**	COSM13004	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGly	c.2310_2311insGGT	**NEGATIVE**	COSM12378	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyLeu	c.2310_2311insGGGTTA	**NEGATIVE**	COSM48921	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyPhe	c.2310_2311insGGGTTT	**NEGATIVE**	COSM655155	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insGlyThr	c.2310_2311insGGCACA	**NEGATIVE**	COSM1238029	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insMetAlaThrPro	c.2311_2312insTGGCCACCCCCA	**NEGATIVE**	COSM26719	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insSerValGlu	c.2311_2312insGCGTCGAAA	**NEGATIVE**	COSM1651743	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insThr	c.2311_2312insCCA	**NEGATIVE**	COSM5023008	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insTyr	c.2310_2311insTAC	**NEGATIVE**	COSM1238030	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770delinsGlyTyr	c.2308_2309insGTT	**NEGATIVE**	COSM12427	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insGln	c.2319_2320insCAG	**NEGATIVE**	COSM131552	None Indicated

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

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Gene	Display Name	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID	Therapy
EGFR	EGFR Exon 20 Insertion	p.His773_Val774insThrGlnPro Pro	c. 2319_2320insACACAA CCCCCC	**NEGATIVE**	COSM3727813	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773delinsProAsnProTyr	c. 2317_2318insCTAACC CCT	**NEGATIVE**	COSM1735761	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaIle	c. 2302_2303insTAGCCA	**NEGATIVE**	COSM13559	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaSerVal	c. 2308_2309insCCAGCG TGG	**NEGATIVE**	COSM12376	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaThrLeu	c. 2302_2303insCGCTGG CCA	**NEGATIVE**	COSM12425	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHis	c.2319_2320insCAC	**NEGATIVE**	COSM12377	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAla	c. 2320_2321insCCCACG	**NEGATIVE**	COSM1238028	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisAsn	c. 2319_2320insAACCAC	**NEGATIVE**	COSM5023006	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c. 2321_2322insCCACGT	**NEGATIVE**	COSM18432	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insHisVal	c. 2322_2323insCACGTG	**NEGATIVE**	COSM22948	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insThrPro	c. 2316_2316delCinsAAC CCCT	**NEGATIVE**	COSM12388	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insVal	c.2316_2317insGTT	**NEGATIVE**	COSM255205	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insVal	c.2308_2309insTGG	**NEGATIVE**	COSM6506514	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAlaAsn	c. 2303_2304insTGTGGC CAA	**NEGATIVE**	COSM1651741	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValAspAsn	c. 2313_2314insGTGGAC AAC	**NEGATIVE**	COSM20885	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValCys	c. 2307_2308insTGCGTG	**NEGATIVE**	COSM12379	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769insValGlyVal	c. 2308_2309insGGGTCG TGG	**NEGATIVE**	COSM18430	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspAsnPr o	c. 2316_2317insGACAAC CCC	**NEGATIVE**	COSM1651745	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c. 2310_2311insGGGGAC	**NEGATIVE**	COSM85795	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspGly	c. 2310_2311insGGCGAC	**NEGATIVE**	COSM22955	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGluArgGly	c. 2309_2310insGCGTGG AGA	**NEGATIVE**	COSM1651742	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insMetAlaSer ValAsp	c. 2307_2308insATGGCC AGCGTGGAC	**NEGATIVE**	COSM28638	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val774_Cys775insProArg	c. 2322_2323insCCACGT	**NEGATIVE**	COSM4170223	None Indicated
EGFR	EGFR L858R	p.Leu858Arg	c.2573T>G	**NEGATIVE**	COSM6224	None Indicated

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The following reference files are used:hg19, Oncomine™ Dx Target Panel US v3.2 Fusion Reference. Associated therapy is within Non-Small Cell Lung Carcinoma (NSCLC).

For additional questions on "no call" results please contact testing service laboratory.

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Results for Analytical Sequence Variations Detected

Analytical DNA Sequence Variants Detected

No Analytical DNA sequence variations detected

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Intended Use

The Oncomine™ Dx Target Test is a qualitative in vitro diagnostic test that uses targeted high throughput, parallel-sequencing technology to detect single nucleotide variants (SNVs), deletions, and insertions in 23 genes from DNA and fusions in ROS1 and RET from RNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumor tissue samples from patients with non-small cell lung cancer (NSCLC), and IDH1 SNVs from FFPE tumor tissue samples from patients with cholangiocarcinoma (CC) using the Ion PGM™ Dx System.

The test is indicated to aid in selecting NSCLC and CC patients for treatment with the targeted therapies listed in Table 1 in accordance with the approved therapeutic product labeling.

Table 1. List of Variants for Therapeutic Use

Tissue Type	Gene	Variant	Targeted Therapy
Non-small Cell Lung Cancer (NSCLC)	BRAF	BRAF V600E mutation	TAFINLAR® (dabrafenib) in combination with MEKINIST® (trametinib)
	EGFR	EGFR L858R mutation, EGFR Exon 19 deletions	IRESSA® (gefitinib)
	EGFR	EGFR Exon 20 Insertions	EXKIVITY™ (mobocertinib)
	RET	RET fusions	GAVRETO™ (pralsetinib)
	ROS1	ROS1 fusions	XALKORI® (crizotinib)
Cholangiocarcinoma (CC)	IDH1	IDH1 R132C, IDH1 R132G, IDH1 R132H, IDH1 R132L, IDH1 R132S	TIBSOVO® (ivosidenib)

Safe and effective use has not been established for selecting therapies using this device for the variants other than those in Table 1.

Results other than those listed in Table 1 are indicated for use only in patients who have already been considered for all appropriate therapies (including those listed in Table 1). Analytical performance using NSCLC specimens has been established for the variants listed in Table 2.

Table 2. List of Variants with Established Analytical Performance Only

Gene	Variant ID/ Type	Amino Acid Change	Nucleotide Change
KRAS	COSM512	p.Gly12Phe	c.34_35delGGinsTT
KRAS	COSM516	p.Gly12Cys	c.34G>T
MET	COSM707	p.Thr1010Ile	c.3029C>T
PIK3CA	COSM754	p.Asn345Lys	c.1035T>A

The test is not indicated to be used for standalone diagnostic purposes, screening, monitoring, risk assessment, or prognosis.

Warnings and Precautions

For NSCLC, the Oncomine Dx Target Test assay definition file includes prevalent but not all rare or newly identified RET isoforms, ROS1 isoforms, and EGFR exon 20 insertions. The Oncomine Dx Target Test may miss rare or newly identified:

- RET isoforms carried by a subset of patients who may derive benefit from GAVRETO™ (pralsetinib)
- ROS1 isoforms carried by a subset of patients who may derive benefit from XALKORI® (crizotinib)
- EGFR exon 20 insertions carried by a subset of patients who may derive benefit from EXKIVITY™ (mobocertinib)

Limitations

- The Oncomine™ Dx Target Test has only been validated for use with FFPE tumor slide specimens.
- DNA and/or RNA from a single sample extraction must meet the concentration requirements specified in the procedure. Do not use DNA from one extraction with RNA from a different extraction.
- The effects of potential variations in FFPE specimen fixation have not been evaluated.
- Extraction from FFPE sample curls has not been evaluated.
- A potential source of contamination in the procedure is nucleic acid from previous sample processing steps. Follow good laboratory practices and all precautions and guidelines in these user guides to avoid cross-contamination between samples.
- The Oncomine™ Dx Target Test is a qualitative test. The test is not for quantitative measurements of percent mutation.

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- The safe and effective use of the variants reported in the Analytical Sequence Variations Detected section has not been established for selecting therapy using this device. The variants for KRAS (COSM512/p.Gly12Phe/c.34_35delGGinsTT and COSM516/p.Gly12Cys/c.34G>T), MET (COSM707/p.Thr1010Ile/c.3029C>T) and PIK3CA (COSM754/p.Asn345Lys/c.1035T>A) have been analytically validated. Performance of all other variants identified by the test, other than clinically validated therapeutic variants and analytically validated variants, has not been directly demonstrated.

Test Description

The Oncomine™ Dx Target Test reports the following genes in each indication:

Non-small cell lung cancer (NSCLC):

- Single nucleotide variants (SNVs), deletions, and insertions from DNA: AKT1, ALK, BRAF, CDK4, DDR2, EGFR, ERBB2, ERBB3, FGFR2, FGFR3, HRAS, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET and ROS1.
- Fusions from RNA: RET and ROS1.

Cholangiocarcinoma (CC):
• Single nucleotide variants (SNVs) from DNA: IDH1.

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Results for Analytical Sequence Variations Not Detected

Analytical DNA Sequence Variants Not Detected

Note: Results for no calls are listed first, followed by variants that were reported as negative results.

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
ALK	p.Leu1152Arg	c.3455T>G	**NO CALL**	COSM97185
ALK	p.Leu1152Pro	c.3455T>C	**NO CALL**	COSM1407659
FGFR3	p.Arg248Cys	c.742C>T	**NO CALL**	COSM714

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
AKT1	p.Glu17Lys	c.49G>A	**NEGATIVE**	COSM33765
ALK	p.Arg1275Gln	c.3824G>A	**NEGATIVE**	COSM28056
ALK	p.Arg1275Leu	c.3824G>T	**NEGATIVE**	COSM28060
ALK	p.Cys1156Tyr	c.3467G>A	**NEGATIVE**	COSM99136
ALK	p.Gly1128Ala	c.3383G>C	**NEGATIVE**	COSM98475
ALK	p.Gly1202Arg	c.3604G>A	**NEGATIVE**	COSM144250
ALK	p.Ile1171Asn	c.3512T>A	**NEGATIVE**	COSM28498
ALK	p.Ile1171Thr	c.3512T>C	**NEGATIVE**	COSM4381100
ALK	p.Leu1196Gln	c.3587T>A	**NEGATIVE**	COSM1169447
ALK	p.Leu1196Met	c.3586C>A	**NEGATIVE**	COSM99137
ALK	p.Phe1174Cys	c.3521T>G	**NEGATIVE**	COSM28059
ALK	p.Phe1174Ile	c.3520T>A	**NEGATIVE**	COSM28491
ALK	p.Phe1174Leu	c.3522C>G	**NEGATIVE**	COSM28061
ALK	p.Phe1174Leu	c.3522C>A	**NEGATIVE**	COSM28055
ALK	p.Phe1174Leu	c.3520T>C	**NEGATIVE**	COSM28057
ALK	p.Phe1174Ser	c.3521T>C	**NEGATIVE**	COSM53063
ALK	p.Phe1174Val	c.3520T>G	**NEGATIVE**	COSM28054
ALK	p.Phe1245Cys	c.3734T>G	**NEGATIVE**	COSM28500
ALK	p.Phe1245Ile	c.3733T>A	**NEGATIVE**	COSM28492
ALK	p.Phe1245Leu	c.3735C>G	**NEGATIVE**	COSM28062
ALK	p.Phe1245Leu	c.3735C>A	**NEGATIVE**	COSM28493
ALK	p.Phe1245Val	c.3733T>G	**NEGATIVE**	COSM28499
ALK	p.Ser1206Tyr	c.3617C>A	**NEGATIVE**	COSM144251
ALK	p.Val1180Leu	c.3538G>C	**NEGATIVE**	COSM4381101
BRAF	p.Asp594Asn	c.1780G>A	**NEGATIVE**	COSM27639
BRAF	p.Asp594Gly	c.1781A>G	**NEGATIVE**	COSM467
BRAF	p.Gly466Glu	c.1397G>A	**NEGATIVE**	COSM453
BRAF	p.Gly466Val	c.1397G>T	**NEGATIVE**	COSM451
BRAF	p.Gly469Ala	c.1406G>C	**NEGATIVE**	COSM460
BRAF	p.Gly469Arg	c.1405G>A	**NEGATIVE**	COSM457
BRAF	p.Gly469Val	c.1406G>T	**NEGATIVE**	COSM459
BRAF	p.Lys601Glu	c.1801A>G	**NEGATIVE**	COSM478
BRAF	p.Val600_Lys601delinsGlu	c.1799_1801delTGA	**NEGATIVE**	COSM1133
BRAF	p.Val600Arg	c.1798_1799delGTinsAG	**NEGATIVE**	COSM474
BRAF	p.Val600Lys	c.1798_1799delGTinsAA	**NEGATIVE**	COSM473
CDK4	p.Arg24Cys	c.70C>T	**NEGATIVE**	COSM1677139
CDK4	p.Arg24His	c.71G>A	**NEGATIVE**	COSM1989836

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CDK4	p.Arg24Leu	c.71G>T	**NEGATIVE**	COSM363684
CDK4	p.Arg24Ser	c.70C>A	**NEGATIVE**	COSM3463914
CDK4	p.Lys22Arg	c.65A>G	**NEGATIVE**	COSM232013
CDK4	p.Lys22Gln	c.64A>C	**NEGATIVE**	OM3153
CDK4	p.Lys22Met	c.65A>T	**NEGATIVE**	COSM3463915
DDR2	p.Arg124Leu	c.371G>T	**NEGATIVE**	COSM400880
DDR2	p.Arg124Trp	c.370C>T	**NEGATIVE**	COSM4024594
EGFR	p.Ala289Asp	c.866C>A	**NEGATIVE**	COSM21685
EGFR	p.Ala289Thr	c.865G>A	**NEGATIVE**	COSM21686
EGFR	p.Ala289Val	c.866C>T	**NEGATIVE**	COSM21687
EGFR	p.Arg108Gly	c.322A>G	**NEGATIVE**	COSM1451536
EGFR	p.Arg108Lys	c.323G>A	**NEGATIVE**	COSM21683
EGFR	p.Cys797Ser	c.2389T>A	**NEGATIVE**	COSM6493937
EGFR	p.Cys797Ser	c.2390G>C	**NEGATIVE**	COSM5945664
EGFR	p.Glu709Ala	c.2126A>C	**NEGATIVE**	COSM13427
EGFR	p.Glu709Gly	c.2126A>G	**NEGATIVE**	COSM13009
EGFR	p.Glu709Lys	c.2125G>A	**NEGATIVE**	COSM12988
EGFR	p.Glu709Val	c.2126A>T	**NEGATIVE**	COSM12371
EGFR	p.Gly598Ala	c.1793G>C	**NEGATIVE**	COSM3412196
EGFR	p.Gly598Val	c.1793G>T	**NEGATIVE**	COSM21690
EGFR	p.Gly719Ala	c.2156G>C	**NEGATIVE**	COSM6239
EGFR	p.Gly719Asp	c.2156G>A	**NEGATIVE**	COSM18425
EGFR	p.Gly719Cys	c.2155G>T	**NEGATIVE**	COSM6253
EGFR	p.Gly719Ser	c.2155G>A	**NEGATIVE**	COSM6252
EGFR	p.Leu858Met	c.2572C>A	**NEGATIVE**	COSM12366
EGFR	p.Leu861Arg	c.2582T>G	**NEGATIVE**	COSM12374
EGFR	p.Leu861Gln	c.2582T>A	**NEGATIVE**	COSM6213
EGFR	p.Ser492Arg	c.1474A>C	**NEGATIVE**	COSM236671
EGFR	p.Ser492Arg	c.1476C>A	**NEGATIVE**	COSM236670
EGFR	p.Ser768Ile	c.2303G>T	**NEGATIVE**	COSM6241
ERBB2	p.Arg678Gln	c.2033G>A	**NEGATIVE**	COSM436498
ERBB2	p.Arg896Cys	c.2686C>T	**NEGATIVE**	COSM14066
ERBB2	p.Arg896His	c.2687G>A	**NEGATIVE**	COSM119971
ERBB2	p.Asp769His	c.2305G>C	**NEGATIVE**	COSM13170
ERBB2	p.Asp769Tyr	c.2305G>T	**NEGATIVE**	COSM1251412
ERBB2	p.Gly776Val	c.2327G>T	**NEGATIVE**	COSM18609
ERBB2	p.Leu755Met	c.2263T>A	**NEGATIVE**	COSM1205571
ERBB2	p.Leu755Pro	c.2263_2264delTTinsCC	**NEGATIVE**	COSM683
ERBB2	p.Ser310Phe	c.929C>T	**NEGATIVE**	COSM48358
ERBB2	p.Ser310Tyr	c.929C>A	**NEGATIVE**	COSM94225
ERBB2	p.Thr733Ile	c.2198C>T	**NEGATIVE**	COSM14059
ERBB2	p.Val777Leu	c.2329G>T	**NEGATIVE**	COSM14062
ERBB2	p.Val842Ile	c.2524G>A	**NEGATIVE**	COSM14065
ERBB3	p.Ala232Thr	c.694G>A	**NEGATIVE**	COSM4043440
ERBB3	p.Ala232Val	c.695C>T	**NEGATIVE**	COSM1242239
ERBB3	p.Asp297Tyr	c.889G>T	**NEGATIVE**	COSM160822
ERBB3	p.Asp297Val	c.890A>T	**NEGATIVE**	COSM941490
ERBB3	p.Glu332Lys	c.994G>A	**NEGATIVE**	COSM254677

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ERBB3	p.Met60Arg	c.179T>G	**NEGATIVE**	COSM941484
ERBB3	p.Met60Leu	c.178A>T	**NEGATIVE**	COSM1606366
ERBB3	p.Met60Lys	c.179T>A	**NEGATIVE**	COSM254678
ERBB3	p.Met91Ile	c.273G>A	**NEGATIVE**	COSM122890
ERBB3	p.Met91Ile	c.273G>C	**NEGATIVE**	COSM1299636
ERBB3	p.Val104Leu	c.310G>C	**NEGATIVE**	COSM160824
ERBB3	p.Val104Leu	c.310G>T	**NEGATIVE**	COSM191840
ERBB3	p.Val104Met	c.310G>A	**NEGATIVE**	COSM172423
FGFR2	p.Ala314Asp	c.941C>A	**NEGATIVE**	COSM49171
FGFR2	p.Asn549His	c.1645A>C	**NEGATIVE**	COSM250083
FGFR2	p.Asn549Lys	c.1647T>G	**NEGATIVE**	COSM36902
FGFR2	p.Asn549Lys	c.1647T>A	**NEGATIVE**	COSM36912
FGFR2	p.Asn549Ser	c.1646A>G	**NEGATIVE**	COSM3665553
FGFR2	p.Cys382Arg	c.1144T>C	**NEGATIVE**	COSM36906
FGFR2	p.Cys382Tyr	c.1145G>A	**NEGATIVE**	COSM915493
FGFR2	p.Lys659Asn	c.1977G>T	**NEGATIVE**	COSM49173
FGFR2	p.Lys659Asn	c.1977G>C	**NEGATIVE**	COSM683054
FGFR2	p.Lys659Glu	c.1975A>G	**NEGATIVE**	COSM36909
FGFR2	p.Lys659Met	c.1976A>T	**NEGATIVE**	COSM49175
FGFR2	p.Pro253Arg	c.758C>G	**NEGATIVE**	COSM49170
FGFR2	p.Pro253Leu	c.758C>T	**NEGATIVE**	COSM537801
FGFR2	p.Ser252Trp	c.755C>G	**NEGATIVE**	COSM36903
FGFR2	p.Tyr375Cys	c.1124A>G	**NEGATIVE**	COSM36904
FGFR2	p.Tyr375His	c.1123T>C	**NEGATIVE**	COSM1560916
FGFR3	p.Gly697Cys	c.2089G>T	**NEGATIVE**	COSM24802
FGFR3	p.Lys650Asn	c.1950G>T	**NEGATIVE**	COSM1428730
FGFR3	p.Lys650Gln	c.1948A>C	**NEGATIVE**	COSM726
FGFR3	p.Lys650Glu	c.1948A>G	**NEGATIVE**	COSM719
FGFR3	p.Ser249Cys	c.746C>G	**NEGATIVE**	COSM715
HRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM499
HRAS	p.Gln61His	c.183G>T	**NEGATIVE**	COSM502
HRAS	p.Gln61His	c.183G>C	**NEGATIVE**	COSM503
HRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM498
HRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM496
HRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM500
HRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM485
HRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	COSM482
HRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM484
HRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	COSM481
HRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	COSM480
HRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM483
HRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM486
HRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM490
HRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM488
HRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM487
HRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM489
KIT	p.Arg796Lys	c.2387G>A	**NEGATIVE**	COSM1600411
KIT	p.Asn822Lys	c.2466T>A	**NEGATIVE**	COSM1321

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
KIT	p.Asn822Lys	c.2466T>G	**NEGATIVE**	COSM1322
KIT	p.Asp419_Arg420del	c.1255_1260delGACAGG	**NEGATIVE**	COSM1578132
KIT	p.Asp419del	c.1255_1257delGAC	**NEGATIVE**	COSM29014
KIT	p.Asp579del	c.1735_1737delGAT	**NEGATIVE**	COSM1294
KIT	p.Asp816His	c.2446G>C	**NEGATIVE**	COSM1311
KIT	p.Asp816Tyr	c.2446G>T	**NEGATIVE**	COSM1310
KIT	p.Asp816Val	c.2447A>T	**NEGATIVE**	COSM1314
KIT	p.Leu576Pro	c.1727T>C	**NEGATIVE**	COSM1290
KIT	p.Lys642Glu	c.1924A>G	**NEGATIVE**	COSM1304
KIT	p.Trp557_Lys558del	c.1669_1674delTGGAAG	**NEGATIVE**	COSM1217
KIT	p.Trp557_Val559delinsPhe	c.1670_1675delGGAAGG	**NEGATIVE**	COSM1226
KIT	p.Trp557Arg	c.1669T>A	**NEGATIVE**	COSM1216
KIT	p.Trp557Arg	c.1669T>C	**NEGATIVE**	COSM1219
KIT	p.Trp557Gly	c.1669T>G	**NEGATIVE**	COSM1221
KIT	p.Val559Ala	c.1676T>C	**NEGATIVE**	COSM1255
KIT	p.Val559Asp	c.1676T>A	**NEGATIVE**	COSM1252
KIT	p.Val559del	c.1679_1681delTTG	**NEGATIVE**	COSM1247
KIT	p.Val559Gly	c.1676T>G	**NEGATIVE**	COSM1253
KIT	p.Val560Asp	c.1679T>A	**NEGATIVE**	COSM1257
KIT	p.Val654Ala	c.1961T>C	**NEGATIVE**	COSM12706
KIT	p.Val825Ala	c.2474T>C	**NEGATIVE**	COSM1323
KRAS	p.Ala146Pro	c.436G>C	**NEGATIVE**	COSM19905
KRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	COSM19404
KRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	COSM19900
KRAS	p.Ala59Glu	c.176C>A	**NEGATIVE**	COSM547
KRAS	p.Ala59Gly	c.176C>G	**NEGATIVE**	COSM28518
KRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	COSM546
KRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM552
KRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	COSM550
KRAS	p.Gln61His	c.183A>T	**NEGATIVE**	COSM555
KRAS	p.Gln61His	c.183A>C	**NEGATIVE**	COSM554
KRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM553
KRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM549
KRAS	p.Gln61Lys	c.180_181delTCinsAA	**NEGATIVE**	COSM87298
KRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM551
KRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM522
KRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	COSM518
KRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM521
KRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	COSM516
KRAS	p.Gly12Phe	c.34_35delGGinsTT	**NEGATIVE**	COSM512
KRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	COSM517
KRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM520
KRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	COSM533
KRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM529
KRAS	p.Gly13Asp	c.38_39delGCinsAT	**NEGATIVE**	COSM531
KRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM532
KRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM527
KRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM528

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
KRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM534
KRAS	p.Lys117Asn	c.351A>T	**NEGATIVE**	COSM28519
KRAS	p.Lys117Asn	c.351A>C	**NEGATIVE**	COSM19940
MAP2K1	p.Glu203Lys	c.607G>A	**NEGATIVE**	COSM232755
MAP2K1	p.Glu203Val	c.608A>T	**NEGATIVE**	COSM3386991
MAP2K1	p.Lys57Asn	c.171G>C	**NEGATIVE**	COSM5520914
MAP2K1	p.Lys57Asn	c.171G>T	**NEGATIVE**	COSM1235478
MAP2K1	p.Lys57Met	c.170A>T	**NEGATIVE**	MAN124
MAP2K1	p.Lys57Thr	c.170A>C	**NEGATIVE**	COSM4756761
MAP2K1	p.Phe53Ile	c.157T>A	**NEGATIVE**	COSM3503329
MAP2K1	p.Phe53Leu	c.157T>C	**NEGATIVE**	COSM555604
MAP2K1	p.Phe53Leu	c.159T>A	**NEGATIVE**	COSM1725008
MAP2K1	p.Phe53Leu	c.159T>G	**NEGATIVE**	COSM2257208
MAP2K1	p.Phe53Val	c.157T>G	**NEGATIVE**	COSM1562837
MAP2K1	p.Pro124Gln	c.371C>A	**NEGATIVE**	COSM1167912
MAP2K1	p.Pro124Leu	c.371C>T	**NEGATIVE**	COSM1315861
MAP2K1	p.Pro124Ser	c.370C>T	**NEGATIVE**	COSM235614
MAP2K2	p.Gln60Pro	c.179A>C	**NEGATIVE**	COSM145610
MAP2K2	p.Phe57Leu	c.171T>G	**NEGATIVE**	OM3158
MAP2K2	p.Phe57Leu	c.171T>A	**NEGATIVE**	COSM3389034
MAP2K2	p.Phe57Leu	c.169T>C	**NEGATIVE**	COSM1235618
MAP2K2	p.Phe57Val	c.169T>G	**NEGATIVE**	COSM3534171
MET	NA	NA	**NEGATIVE**	COSM29633
MET	NA	NA	**NEGATIVE**	COSM24687
MET	NA	NA	**NEGATIVE**	COSM35468
MET	p.His1112Arg	c.3335A>G	**NEGATIVE**	COSM703
MET	p.His1112Leu	c.3335A>T	**NEGATIVE**	COSM698
MET	p.His1112Tyr	c.3334C>T	**NEGATIVE**	COSM696
MET	p.Met1268Ile	c.3804G>A	**NEGATIVE**	COSM694
MET	p.Met1268Thr	c.3803T>C	**NEGATIVE**	COSM691
MET	p.Thr1010Ile	c.3029C>T	**NEGATIVE**	COSM707
MET	p.Tyr1021Asn	c.3061T>A	**NEGATIVE**	COSM48564
MET	p.Tyr1021Phe	c.3062A>T	**NEGATIVE**	COSM339515
MET	p.Tyr1248Cys	c.3743A>G	**NEGATIVE**	COSM699
MET	p.Tyr1248His	c.3742T>C	**NEGATIVE**	COSM690
MET	p.Tyr1253Asp	c.3757T>G	**NEGATIVE**	COSM700
MTOR	p.Cys1483Arg	c.4447T>C	**NEGATIVE**	COSM3747775
MTOR	p.Cys1483Phe	c.4448G>T	**NEGATIVE**	COSM462616
MTOR	p.Cys1483Trp	c.4449C>G	**NEGATIVE**	OM3149
MTOR	p.Cys1483Tyr	c.4448G>A	**NEGATIVE**	COSM462615
MTOR	p.Glu1799Lys	c.5395G>A	**NEGATIVE**	COSM180789
MTOR	p.Leu2427Arg	c.7280T>G	**NEGATIVE**	COSM2119114
MTOR	p.Leu2427Gln	c.7280T>A	**NEGATIVE**	COSM1185313
MTOR	p.Phe1888Ile	c.5662T>A	**NEGATIVE**	COSM3358968
MTOR	p.Phe1888Leu	c.5664C>G	**NEGATIVE**	COSM462604
MTOR	p.Phe1888Leu	c.5664C>A	**NEGATIVE**	COSM893813
MTOR	p.Phe1888Leu	c.5662T>C	**NEGATIVE**	COSM3358967
MTOR	p.Phe1888Val	c.5662T>G	**NEGATIVE**	COSM893814

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
MTOR	p.Ser2215Phe	c.6644C>T	**NEGATIVE**	COSM1686998
MTOR	p.Ser2215Pro	c.6643T>C	**NEGATIVE**	COSM1560108
MTOR	p.Ser2215Tyr	c.6644C>A	**NEGATIVE**	COSM20417
MTOR	p.Thr1977Arg	c.5930C>G	**NEGATIVE**	COSM462602
MTOR	p.Thr1977Lys	c.5930C>A	**NEGATIVE**	COSM462601
MTOR	p.Thr1977Ser	c.5929A>T	**NEGATIVE**	COSM1289945
MTOR	p.Val2006Ile	c.6016G>A	**NEGATIVE**	COSM893804
MTOR	p.Val2006Leu	c.6016G>C	**NEGATIVE**	COSM1134662
MTOR	p.Val2006Phe	c.6016G>T	**NEGATIVE**	COSM249481
NRAS	p.Ala146Thr	c.436G>A	**NEGATIVE**	COSM27174
NRAS	p.Ala146Val	c.437C>T	**NEGATIVE**	COSM4170228
NRAS	p.Ala59Thr	c.175G>A	**NEGATIVE**	COSM578
NRAS	p.Gln61Arg	c.182A>G	**NEGATIVE**	COSM584
NRAS	p.Gln61Glu	c.181C>G	**NEGATIVE**	COSM581
NRAS	p.Gln61His	c.183A>T	**NEGATIVE**	COSM585
NRAS	p.Gln61His	c.183A>C	**NEGATIVE**	COSM586
NRAS	p.Gln61Leu	c.182A>T	**NEGATIVE**	COSM583
NRAS	p.Gln61Lys	c.181C>A	**NEGATIVE**	COSM580
NRAS	p.Gln61Pro	c.182A>C	**NEGATIVE**	COSM582
NRAS	p.Gly12Ala	c.35G>C	**NEGATIVE**	COSM565
NRAS	p.Gly12Arg	c.34G>C	**NEGATIVE**	COSM561
NRAS	p.Gly12Asp	c.35G>A	**NEGATIVE**	COSM564
NRAS	p.Gly12Cys	c.34G>T	**NEGATIVE**	COSM562
NRAS	p.Gly12Ser	c.34G>A	**NEGATIVE**	COSM563
NRAS	p.Gly12Val	c.35G>T	**NEGATIVE**	COSM566
NRAS	p.Gly13Ala	c.38G>C	**NEGATIVE**	COSM575
NRAS	p.Gly13Arg	c.37G>C	**NEGATIVE**	COSM569
NRAS	p.Gly13Asp	c.38G>A	**NEGATIVE**	COSM573
NRAS	p.Gly13Cys	c.37G>T	**NEGATIVE**	COSM570
NRAS	p.Gly13Ser	c.37G>A	**NEGATIVE**	COSM571
NRAS	p.Gly13Val	c.38G>T	**NEGATIVE**	COSM574
NRAS	p.Lys117Asn	c.351G>T	**NEGATIVE**	MAN13
PDGFRA	p.Asn659Lys	c.1977C>A	**NEGATIVE**	COSM22415
PDGFRA	p.Asn659Lys	c.1977C>G	**NEGATIVE**	COSM22414
PDGFRA	p.Asn659Tyr	c.1975A>T	**NEGATIVE**	COSM22416
PDGFRA	p.Asp842_His845del	c.2526_2537delCATCATGCATGA	**NEGATIVE**	COSM737
PDGFRA	p.Asp842_Met844del	c.2524_2532delGACATCATG	**NEGATIVE**	COSM12401
PDGFRA	p.Asp842Tyr	c.2524G>T	**NEGATIVE**	COSM12396
PDGFRA	p.Asp842Val	c.2525A>T	**NEGATIVE**	COSM736
PDGFRA	p.Ile843_Asp846del	c.2527_2538delATCATGCATGAT	**NEGATIVE**	COSM12400
PDGFRA	p.Ile843_Ser847delinsThr	c.2528_2539delTCATGCATGATT	**NEGATIVE**	COSM12407
PDGFRA	p.Val561Asp	c.1682T>A	**NEGATIVE**	COSM739
PIK3CA	p.Arg108His	c.323G>A	**NEGATIVE**	COSM27497

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Clinical Test Report : Oncomine™ Dx Target Test US v3.2

Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
PIK3CA	p.Arg38Cys	c.112C>T	**NEGATIVE**	COSM744
PIK3CA	p.Arg38Gly	c.112C>G	**NEGATIVE**	COSM40945
PIK3CA	p.Arg38His	c.113G>A	**NEGATIVE**	COSM745
PIK3CA	p.Arg38Ser	c.112C>A	**NEGATIVE**	COSM87310
PIK3CA	p.Arg88Gln	c.263G>A	**NEGATIVE**	COSM746
PIK3CA	p.Arg93Gln	c.278G>A	**NEGATIVE**	COSM86041
PIK3CA	p.Arg93Trp	c.277C>T	**NEGATIVE**	COSM27493
PIK3CA	p.Asn1044Lys	c.3132T>A	**NEGATIVE**	COSM12592
PIK3CA	p.Asn345Ile	c.1034A>T	**NEGATIVE**	COSM94978
PIK3CA	p.Asn345Lys	c.1035T>A	**NEGATIVE**	COSM754
PIK3CA	p.Cys378Arg	c.1132T>C	**NEGATIVE**	COSM756
PIK3CA	p.Cys378Phe	c.1133G>T	**NEGATIVE**	COSM21450
PIK3CA	p.Cys378Tyr	c.1133G>A	**NEGATIVE**	COSM1041478
PIK3CA	p.Cys420Arg	c.1258T>C	**NEGATIVE**	COSM757
PIK3CA	p.Cys901Arg	c.2701T>C	**NEGATIVE**	COSM1420899
PIK3CA	p.Cys901Phe	c.2702G>T	**NEGATIVE**	COSM769
PIK3CA	p.Cys901Tyr	c.2702G>A	**NEGATIVE**	COSM1420901
PIK3CA	p.Gln546Arg	c.1637A>G	**NEGATIVE**	COSM12459
PIK3CA	p.Gln546Glu	c.1636C>G	**NEGATIVE**	COSM6147
PIK3CA	p.Gln546Lys	c.1636C>A	**NEGATIVE**	COSM766
PIK3CA	p.Gln546Pro	c.1637A>C	**NEGATIVE**	COSM767
PIK3CA	p.Glu365Gly	c.1094A>G	**NEGATIVE**	COSM1420797
PIK3CA	p.Glu365Lys	c.1093G>A	**NEGATIVE**	COSM86044
PIK3CA	p.Glu365Val	c.1094A>T	**NEGATIVE**	COSM1484860
PIK3CA	p.Glu39Lys	c.115G>A	**NEGATIVE**	COSM30625
PIK3CA	p.Glu542Lys	c.1624G>A	**NEGATIVE**	COSM760
PIK3CA	p.Glu542Val	c.1625A>T	**NEGATIVE**	COSM762
PIK3CA	p.Glu545Ala	c.1634A>C	**NEGATIVE**	COSM12458
PIK3CA	p.Glu545Asp	c.1635G>C	**NEGATIVE**	COSM27374
PIK3CA	p.Glu545Asp	c.1635G>T	**NEGATIVE**	COSM765
PIK3CA	p.Glu545Gln	c.1633G>C	**NEGATIVE**	COSM27133
PIK3CA	p.Glu545Gly	c.1634A>G	**NEGATIVE**	COSM764
PIK3CA	p.Glu545Lys	c.1633G>A	**NEGATIVE**	COSM763
PIK3CA	p.Glu547Lys	c.1639G>A	**NEGATIVE**	COSM29315
PIK3CA	p.Glu726Gly	c.2177A>G	**NEGATIVE**	COSM1420887
PIK3CA	p.Glu726Lys	c.2176G>A	**NEGATIVE**	COSM87306
PIK3CA	p.Glu81Lys	c.241G>A	**NEGATIVE**	COSM27502
PIK3CA	p.Gly1049Arg	c.3145G>C	**NEGATIVE**	COSM12597
PIK3CA	p.Gly1049Ser	c.3145G>A	**NEGATIVE**	COSM777
PIK3CA	p.Gly106Val	c.317G>T	**NEGATIVE**	COSM748
PIK3CA	p.His1047Arg	c.3140A>G	**NEGATIVE**	COSM775
PIK3CA	p.His1047Leu	c.3140A>T	**NEGATIVE**	COSM776
PIK3CA	p.His1047Tyr	c.3139C>T	**NEGATIVE**	COSM774
PIK3CA	p.His701Arg	c.2102A>G	**NEGATIVE**	COSM1420881
PIK3CA	p.His701Pro	c.2102A>C	**NEGATIVE**	COSM778
PIK3CA	p.Lys111Glu	c.331A>G	**NEGATIVE**	COSM13570
PIK3CA	p.Met1043Ile	c.3129G>A	**NEGATIVE**	COSM29313
PIK3CA	p.Met1043Ile	c.3129G>T	**NEGATIVE**	COSM773

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Sample ID: **ADF100_PRZ_Run41_Sample7_20210901174337_R5EREML2** Date Of Birth: **01 AUG 1980** Date: 02 SEP 2021

Approved Report

Gene	Amino Acid Change	Nucleotide Change	Test Result	Hotspot ID
PIK3CA	p.Met1043Val	c.3127A>G	**NEGATIVE**	COSM12591
PIK3CA	p.Pro539Arg	c.1616C>G	**NEGATIVE**	COSM759
PIK3CA	p.Thr1025Ala	c.3073A>G	**NEGATIVE**	COSM771
PIK3CA	p.Tyr1021Cys	c.3062A>G	**NEGATIVE**	COSM12461
PIK3CA	p.Val344Ala	c.1031T>C	**NEGATIVE**	COSM86951
PIK3CA	p.Val344Gly	c.1031T>G	**NEGATIVE**	COSM22540
RAF1	p.Ser257Leu	c.770C>T	**NEGATIVE**	COSM181063
RAF1	p.Ser257Trp	c.770C>G	**NEGATIVE**	COSM581519
RAF1	p.Thr421Met	c.1262_1263delCCinsTG	**NEGATIVE**	MAN9
RET	p.Ala883Phe	c.2646_2648delAGCinsTTT	**NEGATIVE**	COSM981
RET	p.Ala883Ser	c.2647G>T	**NEGATIVE**	COSM133167
RET	p.Asp898_Glu901del	c.2694_2705delTGTTTATGAAGA	**NEGATIVE**	COSM962
RET	p.Cys618Arg	c.1852T>C	**NEGATIVE**	COSM29803
RET	p.Cys618Tyr	c.1853G>A	**NEGATIVE**	COSM980
RET	p.Cys620Arg	c.1858T>C	**NEGATIVE**	COSM29804
RET	p.Cys634Arg	c.1900T>C	**NEGATIVE**	COSM966
RET	p.Glu768Asp	c.2304G>C	**NEGATIVE**	COSM21338
RET	p.Glu768Gly	c.2303A>G	**NEGATIVE**	COSM1347811
RET	p.Met918Thr	c.2753T>C	**NEGATIVE**	COSM965
ROS1	p.Gly2032Arg	c.6094G>C	**NEGATIVE**	MAN11
ROS1	p.Gly2032Arg	c.6094G>A	**NEGATIVE**	MAN10
ROS1	p.Leu1951Met	c.5851C>A	**NEGATIVE**	COSM1072521

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