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Clinical Test Report : Oncomine™ Dx Target Test US v10.0

Sample ID: **ADF10_PRZ_Run41_Sample7_20211117165500_ET3JO462** Date Of Birth: **01 AUG 1980** Date: 13 DEC 2021

Draft 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:	**ADF10_PRZ_Run41_Sample7_20211117165500_ET3JO462**
Gender:	**Male**	%Cellularity:			
Date Of Birth:	**01 AUG 1980**	Reference Interval:		Collection Date:	**01 JUL 2016**
Sample Condition:	**Moderate**			Created On:	**17 NOV 2021 16:55**
				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), RYBREVANT™ (amivantamab-vmjw)

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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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_Pro772insHisHis	c.2314_2315insACCACC	**NEGATIVE**	COSM6931207	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insLeu	c.2314_2315insTCC	**NEGATIVE**	N771_P772insL	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insLeu	c.2313_2314insTTG	**NEGATIVE**	c.2313_2314insTTG	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHis	c.2319_2320insCCCCAC	**NEGATIVE**	COSM12380	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProHisVal	c.2322_2323insCCCCACGTG	**NEGATIVE**	COSM6845098	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insProThrHis	c.2315_2316insGACACACCC	**NEGATIVE**	COSM48923	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insThr	c.2313_2314insACA	**NEGATIVE**	c.2313_2314insACA	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771_Pro772insVal	c.2313_2314insGTC	**NEGATIVE**	COSM6922328	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsGlyPhe	c.2311_2312delAAinsGGGTT	**NEGATIVE**	COSM18431	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsGlyTyr	c.2311_2311delAinsGGTT	**NEGATIVE**	COSM53189	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysGly	c.2313_2313delCinsGGGG	**NEGATIVE**	N771delinsKG	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysHis	c.2312_2313insACA	**NEGATIVE**	OMINDEL1123	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsLysLeu	c.2312_2313insACT	**NEGATIVE**	COSM6438147	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsProHis	c.2311_2311delAinsCCCC	**NEGATIVE**	MATNV04	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerGlyHis	c.2311_2312insGTGGCC	**NEGATIVE**	COSM1651744	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerHis	c.2311_2312insGTC	**NEGATIVE**	COSM24434	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asn771delinsSerThrHis	c.2311_2312insGCACCC	**NEGATIVE**	COSM6920147	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_Asn771delinsAlaGlyHis	c.2309_2311delACAinsCTGGCC	**NEGATIVE**	MATNV09	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_Asn771insAsnHis	c.2314_2315insACAACC	**NEGATIVE**	OMINDEL1084	None Indicated

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EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnPro	c.2316_2317insAACCCC	**NEGATIVE**	MAN123	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProGly	c.2316_2317insGGCAACCCC	**NEGATIVE**	c.2316_2317insGGCAACCCC	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProGly	c.2316_2317insGGAAACCCC	**NEGATIVE**	P772_H773insGNP	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_Asn771insAsnProPro	c.2317_2318insCCAACCCCC	**NEGATIVE**	P772_H773insPNP	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770_Asn771insAsnProThrPro	c.2316_2317insACACCCAACCCC	**NEGATIVE**	COSM6977296	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_2311insGGG	**NEGATIVE**	MATNV05	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_Asn771insHis	c.2310_2311insCAC	**NEGATIVE**	OMINDEL1081	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.Asp770delinsAsnAsnProHis	c.2308_2308delGinsAACAACCCCC	**NEGATIVE**	OMINDEL1078	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Asp770delinsGlyThrHis	c.2308_2309insGCACAC	**NEGATIVE**	COSM6983510	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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EGFR	EGFR Exon 20 Insertion	p.His773delinsArgTyr	c.2317_2318insGTT	**NEGATIVE**	MATNV08	None Indicated
EGFR	EGFR Exon 20 Insertion	p.His773delinsAsnProTyr	c.2317_2317delCinsAACCCCT	**NEGATIVE**	H773delinsNPY	None Indicated
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_Ala767insAlaSerVal	c.2303_2304insTGTGGCCAG	**NEGATIVE**	COSM20884	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Met766_Ala767insAlaThrLeu	c.2302_2303insCGCTGGCCA	**NEGATIVE**	COSM12425	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Pro772_His773insGlyThr	c.2316_2317insGGCACC	**NEGATIVE**	MATNV02	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_Val769delinsIleLeu	c.2303_2305delGCGinsTCC	**NEGATIVE**	COSM6984779	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Ser768_Val769delinsIleLeu	c.2303_2305delGCGinsTCT	**NEGATIVE**	COSM85750	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_Val769insValAspAsnPro	c.2316_2317insGTGGACAACCCC	**NEGATIVE**	V769_P772dup	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

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EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insAspAsnPro	c.2315_2316insGGACAACCC	**NEGATIVE**	COSM6845099	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_Asp770insAspLys	c.2312_2313insGGACAA	**NEGATIVE**	D770_N771insKD	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGluArgGly	c.2309_2310insGCGTGGAGA	**NEGATIVE**	COSM1651742	None Indicated
EGFR	EGFR Exon 20 Insertion	p.Val769_Asp770insGlyGly	c.2308_2309insGGGGGG	**NEGATIVE**	MATNV07	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 v10.0 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

Gene	Amino AcidChange	NucleotideChange	Test Result	Hotspot ID
PIK3CA	p.Arg93Gln	c.278G>A	**POSITIVE**	COSM86041
ERBB2	p.Arg678Gln	c.2033G>A	**POSITIVE**	COSM436498

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Lab Director: Max Smith **CLIA number: 03C1021009**

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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), RYBREVANT™ (amivantamab-vmjw)
	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) or RYBREVANT™ (amivantamab-vmjw)

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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.
- 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.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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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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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 v10.0

Sample ID: **ADF10_PRZ_Run41_Sample7_20211117165500_ET3JO462** Date Of Birth: **01 AUG 1980** Date: 13 DEC 2021

Draft 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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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.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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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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