

# Technical Product Report

*For Research Use Only; Not for use in Diagnostic Procedures*

Product Description: Seraseq® FFPE WT (DNA/RNA) Reference Material  
 Material Number: 0710-0137 Batch Number: 10702782  
 Material Description: Seraseq® FFPE WT (DNA/RNA) Reference Material contains the reference human cell line GM24385 that have been formalin fixed and embedded in paraffin. The cell line is WT in that it is not derived from cancerous tissue, but mutations from the human reference sequence (GrCh38) are still present.  
 Fill Volume: One 10 µm curl  
 Date of Manufacture: 22 APR 2024 Expiration Date: 22 APR 2026  
 Storage: 2-8 °C  
 Test Method for Concentration: Total nucleic acid was extracted using the Agencourt Formapure Kit and the RNA was quantified using the Qubit RNA HS assay. DNA was extracted using the Qiagen QIAamp DNA FFPE Tissue Kit and quantified using the Qubit dsDNA HS Assay.  
 Concentration: Average RNA yield per curl: 703 ng (Range 542 ng - 778 ng)  
 Average DNA yield per curl: 127 ng (Range 109 ng - 143 ng)  
 Test Method for DNA Mutations: ArcherDx VariantPlex Solid Tumor Kit was run on the NextSeq 2000 instrument using 250 ng of DNA. Sequencing depth per sample was 12.9-29.2 M reads. Variant analysis was performed using Archer Analysis\_v 6.2.7, and "Somatic" Filter Set for variant filtering.  
 Test Method for RNA Fusions: ArcherDx FusionPlex Solid Tumor Kit run on the Miseq instrument using 250 ng of input RNA. Sequencing depth per sample was 2.9-4.5 M reads. Data analysis was performed using the Archer Analysis\_v 6.2.2 software.

## DNA Sequencing Results:

Gene ID	AA Change	Representative Allele Frequency Result
MAP2K1	Splice Variant (c.292-3>T)	50.6%
ERBB4	Splice Variant (c.884-7dup)	16.9%
MET	p.Pro325LeufsTer9	3.8%
MET	p.Ala327Pro	3.6%
MET	p.Leu329AlafsTer3	3.7%
FOXL2	p.Leu248Pro	2.9%

## RNA Fusion Sequencing Results:

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Fusions Detected	Representative Start Sites Result	Representative Reads Result	Representative Percent Total of Reads that Support Fusion Call
COQ8B:NUMBL	10	13	36.91

Approval:

*DP*

*7/8/14*

Prepared By

Date