

# 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: 10456094  
 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.  
 Date of Manufacture: 13 NOV 2019 Expiration Date: 13 NOV 2021  
 Fill Volume: One 10 µm curl  
 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: 426 ng (Range 338 ng - 520 ng)  
 Average DNA yield per curl: 252 ng (Range 210 ng - 328 ng)  
 Test Method for DNA Mutations: ArcherDx VariantPlex Solid Tumor Kit was run on the ILMN MiSeq instrument using 263 ng of DNA. Sequencing depth per sample was 1.0 M reads. Variant analysis was performed using Archer Analysis\_v5.1.7, and "Somatic" Filter Set for variant filtering.  
 Test Method for RNA Fusions: ArcherDx FusionPlex Solid Tumor Kit run on the ILMN MiSeq instrument using 250 ng of input RNA. Sequencing depth per sample was 0.9 M reads. Data analysis was performed using the Archer Analysis\_v5.1.7 software.

**DNA Sequencing Results:**

Gene ID	AA Change	Representative Allele Frequency Result
CDKN2A	p.Asp74Ala	17.20%
ERBB4	splice variant (c.884_887delT)	29.90%
FBXW7	splice variant (c.231_235delT)	35.65%
MAP2K1	splice variant (c.292_293C>T)	50.67%
TP53	p.Thr377Pro	6.13%

RNA Fusion Sequencing Results: No fusions were detected.

**Approval:**



Prepared By

20 NOV 2019

Date