

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: 10479850
 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: 15 APR 2020 Expiration Date: 15 APR 2022
 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: 678 ng (Range 552 ng - 688 ng)
 Average DNA yield per curl: 261 ng (Range 235 ng - 321 ng)
 Test Method for DNA Mutations: ArcherDx VariantPlex Solid Tumor Kit was run on the ILMN MiSeq instrument using 250 ng of DNA. Sequencing depth per sample was 1.5-2.0 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 0.9-1.1 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	18.32%
ERBB4	splice variant (c.884_887delT)	32.03%
FBXW7	splice variant (c.231_235delT)	35.02%
MAP2K1	splice variant (c.292_293C>T)	51.71%
TP53	p.Thr377Pro	7.74%

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RNA Fusion Sequencing Results:

Fusions Detected	Representative Start Sites Result	Representative Reads Result	Representative Percent Total of Reads that Support Fusion Call
ADCK4-NUMBL	4	5	71.4

Approval:



26 May 2020

Prepared By

Date