

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: 10573424

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: 11 SEP 2021 Expiration Date: 11 SEP 2023

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: 449 ng (Range 322 ng - 576 ng)
Average DNA yield per curl: 251 ng (Range 240 ng - 262 ng)

Test Method for DNA Mutations: ArcherDx VariantPlex Solid Tumor Kit was run on the ILMN MiSeq instrument using 210 ng of DNA. Sequencing depth per sample was 1.5 M reads. Variant analysis was performed using Archer Analysis_v6.2.2, 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 2.5 M reads. Data analysis was performed using the Archer Analysis_v6.2.2 software.

DNA Sequencing Results:

Gene ID	AA Change	Representative Allele Frequency Result
APC	p.Val1822Asp	47.3%
ERBB4	Splice variant (c.884-7del)	22.0%
FBXW7	Splice variant (c.231-5del)	17.5%
KDR	p.Gln472His	49.5%
KIT	Met541Leu	48.4%
MAP2K1	Splice variant (c.292-3C>T)	50.9%

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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
COQ8B-NUMBL-NUMBL	6	6	26.1%

Approval:



24 SEP 2021

Prepared By

Date