

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: 10724083
 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: 31 OCT 2024 Expiration Date: 31 OCT 2028

Storage: 4 °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: 996 ng (Range 776 ng - 1228 ng)
 Average DNA yield per curl: 437 ng (Range 215 ng - 730 ng)

Test Method for DNA Mutations: ArcherDx VariantPlex Solid Tumor Kit was run on the Miseq instrument using 100 ng of DNA. Sequencing depth per sample was 0.75, 7.6 and 1.7 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 NextSeq instrument using 250 ng of input RNA. Sequencing depth per sample was 7.0 , 6.7 and 6.3 M reads. Data analysis was performed using the Archer Analysis_v 6.2.7 software.

DNA Sequencing Results:

Gene ID	AA Change	Representative Allele Frequency Result
FLT3	p. Gly583Asp	9.1 %
FLT3	p. Glu573Lys	27.3%
FGFR1	p. Asp133del	1.6%
TP53	p. Arg267Trp	9.1%
FGFR2	p. Arg400delinsLeuTer	9.1%
FGFR2	p. Leu398Pro	9.1%
HRAS	p. Gln61Ter	9.1%
KIT	p. Met541Leu	49.7%
KDR	p.Gln472His	53.9%

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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
PHACTR1→INTERGENIC→PRKCA	7	7	87.5%

Approval:

BL

01/21/2025

Prepared By

Date