

# Technical Product Report

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

Product Description: Seraseq® FFPE TMB RM Score 26

Material Number: 0710-1307 Batch Number: 10809774

Material Description: Reference standard made from a human lung cancer cell line and its matched "normal" cell line generated from peripheral blood of the same patient. Cells were mixed at 30% tumor, fixed with 10% formalin, and embedded in paraffin.

Fill Size: 2x10 µm FFPE curls

Date of Manufacture: 03 APR 2026 Expiration Date: 03 APR 2030

Extraction and Concentration Test Method: QIAmp DNA FFPE Tissue Kit for extraction and Qubit dsDNA HS Assay for concentration.

Measured Yield per Curl: Seraseq FFPE TMB RM Score 26: 123 ng

- Library preparation
  - Agilent SureSelectXT Human AllExon V6 + COSMIC (enrichment kit)
  - Capture Region = 32.4 Mb
  - DNA input = 750 ng / run
- Whole Exome Sequencing
  - ILMN NovaSeq 6000
  - Average read depth ~147X
- TMB Analysis Pipeline metrics and parameters (Based on FoCR TMB harmonization algorithm<sup>1</sup>)
  - TMB variants = missense, nonsense, frameshift, in-frame insertion, in-frame deletion
  - FILTER=PASS (AF≥0.05; tDP≥25; AO≥3)
  - Aligner = bwa mem
  - Mutation Detection = Mutect2 (tumor-normal mode)
  - Mutation Annotation = SnpEff
  - Mutation Filtration = SnpSift

Whole Exome Sequencing (WES) Method & Analysis:

TMB Score by WES: 24.05

<sup>1</sup>[https://www.annalsofoncology.org/article/S0923-7534\(21\)04495-1/fulltext](https://www.annalsofoncology.org/article/S0923-7534(21)04495-1/fulltext)

Approval:



22 JUN 2026

Prepared By

Date