

# Revised Technical Product Report

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

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| Product Description:                            | Seraseq gDNA TMB Mix Score 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |             |
| Material Number:                                | 0710-1325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Batch Number:    | 10688118    |
| 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. Genomic DNA was extracted, purified, and characterized for tumor mutational burden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |             |
| Fill Volume:                                    | 10 µL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |             |
| Date of Manufacture:                            | 14 DEC 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Expiration Date: | 13 APR 2027 |
| Nominal Concentration:                          | 50 ng/µL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |             |
| Concentration Test Method:                      | Qubit dsDNA BR Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |
| Measured Concentration:                         | Seraseq gDNA TMB Score 9 (Tumor): 54.8 ng/µL<br>Seraseq gDNA TMB Score 9 (WT): 58.6 ng/µL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |             |
| Whole Exome Sequencing (WES) Method & Analysis: | <ul style="list-style-type: none"> <li>Library preparation <ul style="list-style-type: none"> <li>Agilent SureSelectXT Human AllExon V6 + COSMIC (enrichment kit)</li> <li>Capture Region = 32.4 Mb</li> <li>DNA input = 1 µg / run</li> </ul> </li> <li>Whole Exome Sequencing <ul style="list-style-type: none"> <li>ILMN NovaSeq 6000</li> <li>Average read depth ~300x (tumor) and ~100X (normal)</li> <li>Other relevant QC parameters</li> </ul> </li> <li>TMB Analysis Pipeline metrics and parameters (Based on FoCR TMB algorithm) <ul style="list-style-type: none"> <li>TMB variants = missense, nonsense, frameshift, in-frame insertion, in-frame deletion</li> <li>FILTER=PASS; AF≥0.05; tDP≥25; AO≥3</li> <li>Aligner = bwa mem</li> <li>Mutation Detection = Mutect2 (tumor-normal mode)</li> <li>Mutation Annotation = SnpEff</li> <li>Mutation Filtration = SnpSift</li> </ul> </li> </ul> |                  |             |
| TMB Score by WES:                               | 9.40 (average of 1 WES measurements)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |             |

**Approval:**

Prepared By

Date