

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:	Seraseq® gDNA TMB Mix Score 13		
Material Number:	0710-1586	Batch Number:	10680639
Material Description:	Reference standard made from a mutagenized reference cell line (GM24385) and its matched “normal” cell line. Genomic DNA was extracted, purified, and characterized for tumor mutational burden.		
Fill Size:	10 µL		
Date of Manufacture:	09 AUG 2023	Expiration Date:	09 AUG 2025
Concentration Test Method:	Qubit dsDNA BR Assay		
Concentration:	Seraseq gDNA TMB Score 13 (Tumor): 61.7 ng/µL Seraseq gDNA TMB Score 13 (WT): 60.2 ng/µL		
Whole Exome Sequencing (WES) Method & Analysis:	<ul style="list-style-type: none"> • Library preparation <ul style="list-style-type: none"> ○ Agilent SureSelectXT Human AllExon V6 + COSMIC (enrichment kit) ○ Capture Region = 32.4 Mb ○ DNA input = 1 µg / run • Whole Exome Sequencing <ul style="list-style-type: none"> ○ ILMN NovaSeq 6000 ○ Average read depth ~300X (tumor) and ~100X (normal) • TMB Analysis Pipeline metrics and parameters (Based on FoCR TMB harmonization algorithm¹) <ul style="list-style-type: none"> ○ 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 		
TMB Score by WES:	12.57 ± 0.02 (average and standard deviation of three replicates)		

¹<https://meetinglibrary.asco.org/record/172797/abstract>

Approval:



17 AUG 2023

Prepared By

Date