

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® Inherited Cancer DNA Mix v1

Material Number: 0730-0003 Batch Number: 10642912

Material Description: This purified DNA product combines over 20 variants in a well-characterized genomic background at a 50% target allele frequency. It is a reference material for targeted NGS assays and can be used for assay development, analytical validation or routine assay QC.

Concentration
(Qubit dsDNA BR Assay): 56.6 ng/μL

Volume: 200 μL

Date of Manufacture: 02 NOV 2022 Expiration Date: 02 NOV 2025

Test Method: Biosynthetic constructs bearing variant of interest for increased cancer risk were sequenced bidirectionally using Sanger technology to verify mutation.
Digital PCR was used to verify the biosynthetic constructs were mixed with wild type genomic DNA at approximately 50% variant allele frequency (50 ± 8%).

Storage: 2-8°C

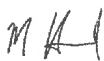
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Gene ID	Mutation Type	HGVS Nomenclature	Sequence Verified	Variant Allele Frequency
BRCA1	Insertion	NM_007294.3:c.5266dupC	Pass	Pass
BRCA1	Deletion	NM_007294.3:c.5177_5180delGAAA	Pass	Pass
BRCA1	Deletion	NM_007294.3:c.3756_3759delGTCT	Pass	Pass
BRCA1	Deletion	NM_007294.3:c.3481_3491delGAAGATACTAG	Pass	Pass
BRCA1	Substitution	NM_007294.3:c.3113A>G	Pass	Pass
BRCA1	Deletion	NM_007294.3:c.3084_3094delTAATAACATTA	Pass	Pass
BRCA1	Indel	NM_007294.3:c.2834_2836delGTAAinsC	Pass	Pass
BRCA1	Deletion	NM_007294.3:c.68_69delAG	Pass	Pass
BRCA2	Large Deletion	NM_000059.3:c.8975_9100del126	Pass	Pass
BRCA2	Deletion	NM_000059.3:c.1310_1313delAAGA	Pass	Pass
BRCA2	Insertion	NM_000059.3:c.1813dupA	Pass	Pass
BRCA2	Large Insertion	NM_000059.3:c.9342_9343insAluY	Pass	Pass
CDKN2A	Insertion	NM_000077.4:c.9_32dup24	Pass	Pass
MLH1	Deletion	NM_000249.3:c.1852_1854delAAG	Pass	Pass
MLH1	Indel	NM_000249.3:c.232_243delGAAAGGTTCACTinsATGTAAGG	Pass	Pass
MSH2	Substitution	NM_000251.2:c.942+3A>T	Pass	Pass
MSH2	Deletion	NM_000251.2:c.1662-12_1677del	Pass	Pass
MSH6	Indel	NM_000179.2:c.2056_2060delGGTTGinsCTTCTACCTCAAAAA	Pass	Pass
MSH6	Indel	NM_000179.2:c.2308_2312delGGTAAinsT	Pass	Pass
MSH6	Indel	NM_000179.2:c.2641delGinsAAAA	Pass	Pass
MSH6	Insertion	NM_000179.2:c.3163dupG	Pass	Pass
PMS2	Deletion	NM_000535.5:c.2243_2246delAGAA	Pass	Pass
PMS2	Deletion	NM_000535.5:c.861_864delACAG	Pass	Pass
PMS2	Substitution	NM_000535.5:c.2444C>G	Pass	Pass

Approval:



03 NOV 2022

Prepared By

Date