

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: 10538837

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): 58.0 ng/μL

Volume: 200 μL

Date of Manufacture: 11 FEB 2021 Expiration Date: 11 FEB 2024

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: -20°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:



18 FEB 2021

Prepared By

Date