

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:

Seraseg™ Inherited Cancer DNA Mix v1

Material No:

0730-0003

Batch Number:

10396038

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.

Date of Manufacture:

05-FEB-2019

Expiration Date:

05-FEB-2021

Biosynthetic constructs bearing variant of interest for increased cancer risk were sequenced bidirectionally using Sanger technology to verify mutation.

Test Method:

Digital PCR was used to verify the biosynthetic constructs were mixed with wild type genomic DNA at approximately 50% variant allele frequency (50%

±8%).

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_2836delGTAinsC	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



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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:

Prepared By

07 Feb 2019

Date