

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:	SeraSeq gDNA BRCA1/2 LGR Somatic Mutation Mix		
Material Number:	0730-0567	Batch Number:	10652942
Material Description:	A genomic DNA mutation mix containing deletions, insertions, single nucleotide variants, and large genomic rearrangements (LGRs) in BRCA1 and BRCA2 genes blended with GM24385 DNA as reference wild-type background		
Fill Volume:	25 μ L		
Date of Manufacture:	23 JAN 2023	Expiration Date:	23 JAN 2025
Concentration Test Method:	Invitrogen™ Qubit™ dsDNA BR Assay		
Nominal Concentration:	15 ng/ μ L		
Concentration:	19.0 ng/ μ L		
dPCR Test Method:	Allele-specific digital PCR assays on Bio-Rad QX200 Droplet Digital™ System		
NGS Assay Test Method:	133 ng of DNA was used to prepare NGS libraries using the Agilent SureSelect ^{XT} Low Input Target Enrichment System with Dual Indexing protocol and enriching with SureSelect Human All Exon v8 exome probes. Variant Allele Frequencies (VAFs) were calculated from mutant and reference reads generated from Whole Exome Sequencing analysis		

Gene	Nucleotide change	Protein change	% Allele Frequency (dPCR)	% Allele Frequency (NGS)
BRCA1	c.4487_4675+2del	Splice variant	10.4	ND
BRCA1	c.4186_4357dup	p.R1397Yfs*2	9.7	12.6
BRCA1	c.2071_2171del	p.R691*	9.9	5.8
BRCA1	c.4987_5074del	p.V1665Sfs*8	9.9	ND
BRCA1	c.5279_5332del	p.I1760_D1778delinsN	10.1	2.1
BRCA1	c.5209_5248delinsTC	p.R1737Sfs*80	8.5	4.1
BRCA1	c.2820_2830delinsAAGATAAGCCAG TTTGATAA	p.D940_C944delinsER*	9.9	10.7
BRCA1	c.1961del	p.K654Sfs*47	9.9	7.2
BRCA1	c.4327C>T	p.R1443*	9.7	10.2
BRCA1	c.441+2T>G	Splice variant	9.3	12.4
BRCA2	c.8757-2_9023del	Splice variant	10.2	1.9
BRCA2	c.2886_3144del	p.H962Qfs*6	10.2	9.3
BRCA2	c.68_316del	p.D23_L105del	9.3	ND
BRCA2	c.5150_5226delinsTACTTAATACTTA TTAAGTATTA	p.E1717_N1742delinsVLNTY*	10.2	5.8
BRCA2	c.891_899delinsGATACTTCAG	p.T298Ifs*7	9.5	8.0
BRCA2	c.5436del	p.E1812Dfs*3	10.2	9.7
BRCA2	c.8167G>C	p.D2723H	10.9	12.0
BRCA2	c.8331+2T>A	Splice variant	10.9	11.8
BRCA2	c.910G>T	p.E304*	9.5	7.8
BRCA2	c.2407dup	p.Y803Lfs*2	10.2	12.3

ND – Not detected

Approval:



08 FEB 2023

Prepared By

Date