

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:	Seraseq® Solid Tumor FFPE DNA RM		
Material Number:	0710-3634	Batch Number:	10726707
Material Description:	Formalin fixed paraffin embedded (FFPE) reference cells (GM24385) carrying biosynthetic DNA variants		
Date of Manufacture:	12 NOV 2024	Expiration Date:	12 NOV 2028
Storage:	2 - 8 °C		
Fill Volume:	One 10 µm curl		
Test Method for Yield per Curl:	DNA was extracted using AutoGen XTRACT 16+® Genomic DNA FFPE One-Step Kit and quantified using Invitrogen™ Qubit™ dsDNA HS Assay.		
Average DNA Yield per Curl:	Nominal yield per curl: ≥ 100 ng Yield: 292 ng (Range 183 - 447 ng) Number of curls tested: 18 curls		
Test Method for DNA Quality Assessment:	Agilent TapeStation Genomic DNA ScreenTape Analysis		
Average DIN Value:	9.1 for AutoGen extracted DNA		
NGS Assay Test Method:	Illumina TruSight Oncology 500 Assay.		
Digital PCR Test Method:	Bio-Rad QX200™ Droplet Digital™ PCR System.		

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® Solid Tumor FFPE DNA RM

Gene	Nucleic Acid Change	Amino Acid Change	VAF (%)
AR	c.2623C>T	p.H875Y	42.2
ATM	c.1058_1059del	p.C353Sfs*5	25.0
BRCA1	c.1961del	p.K654Sfs*47	31.7
BRCA2	c.7934del	p.R2645Nfs*3	30.1
CD74::NRG1	Intron 6::Intron 5	Translocation variant	42.7 ^Y
CD74::ROS1	Intron 6::Intron 34	Translocation variant	28.2 ^Y
CDKN2A	c.9_32dup	p.A4_P11dup	32.0 ^Y
CHEK1	c.676del	p.T226Hfs*14	32.9 ^Y
CHEK2	c.1029_1030delinsGT	p.K373*	39.7 ^Y
COL1A1::PDGFB	Intron 25::Intron 1	Translocation variant	40.6 ^Y
EGFR	c.2303G>T	p.S768I	23.5
EGFR	c.2310_2311insGGT	p.D770_N771insG	23.1
EGFR	c.2369C>T	p.T790M	20.1
EGFR	c.2389T>A	p.C797S	20.2
EML4::ALK	Intron 13::Intron 19	Translocation variant	35.5 ^Y
ERBB2	c.2313_2324dup	p.Y772_A775dup	28.1
ESR1	c.1613A>G	p.D538G	33.5
ETV6::NTRK3	Intron 5::Intron 14	Translocation variant	42.6 ^Y
FGFR2::BICC1	Intron 17::Intron 2	Translocation variant	34.9 ^Y
FGFR3	c.746C>G	p.S249C	28.2
FGFR3::TACC3	Exon 18::Intron 7	Translocation variant	34.0 ^Y
HRAS	c.37G>C	p.G13R	27.1
HRAS	c.182A>G	p.Q61R	29.9
IDH1	c.394C>T	p.R132C	29.7
IDH2	c.419G>A	p.R140Q	20.1
IDH2	c.515G>A	p.R172K	24.5
KIT	c.2361+67_2361+72delTTTTTT	MSI BAT-25	42.2 ^Y
KRAS	c.34G>T	p.G12C	19.2
MAP2K1	c.370C>T	p.P124S	23.0
MAP4K3	c.246-2475_246-2470delTTTTTT	MSI MONO-27	37.8 ^Y
MAP4K3	c.998-35_998-30delAAAAAA	MSI MONO-27	37.4 ^Y
MET	c.3082+1del	N/A	42.1 ^Y
MLH1	c.232_243delinsATGTAAGG	p.E78_T81delinM*	18.8
MSH2	c.942+20_942+29delAAAAAAAAAA	MSI BAT-26	37.7 ^Y
MSH2	c.1662-12_1677del	N/A	41.3 ^Y
MSH6	c.2056_2060delinsCTTCTACCTCAAAAA	p.G686Lfs*10	8.5
MTOR	c.6644C>A	p.S2215Y	25.8
NCOA4::RET	Intron 7::Intron 11	Translocation variant	34.6 ^Y
NF1	c.3738_3747del	p.F1247Gfs*16	16.0
NTRK1	c.1783G>A	p.G595R	31.8

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® Solid Tumor FFPE DNA RM

Gene	Nucleic Acid Change	Amino Acid Change	VAF (%)
NTRK2	c.1915G>A	p.G639R	32.1
NTRK3	c.1867G>A	p.G623R	29.0
PALB2	c.839del	p.N280Tfs*8	19.7
PDGFRA	c.2525A>T	p.D842V	25.1
PIK3CA	c.1633G>A	p.E545K	29.0
PIK3CA	c.3140A>G	p.H1047R	32.6
PIK3CA	c.3203dup	p.N1068Kfs*5	29.1
PIK3R1	c.1727_1729del	p.T576del	22.8
PML::NTRK2	Intron 2::Intron 12	Translocation variant	36.0 [‡]
PMS2	c.861_864del	p.R287Sfs*19	25.4
PTCH1	c.2307_2308delinsTT	p.R770*	22.7
PTEN	c.800del	p.K267Rfs*9	26.5
PTEN	c.741dup	p.P248Tfs*5	27.0
RAD51C	c.338dup	p.G114Wfs*25	23.3
RAD51C	c.242C>A	p.S81*	24.7
RAD51D	c.392dup	p.N131Kfs*23	25.3
RAD51D	c.271A>T	p.K91*	21.5
RAF1	c.770C>T	p.S257L	28.3
RB1	c.751C>T	p.R251*	25.0
RET	c.2753T>C	p.M918T	30.5
SLC7A8	c.-231_-224delTTTTTTTT	MSI NR-21	39.2 [‡]
SMARCB1	c.118C>T	p.R40*	26.0
STK11	c.734+1G>T	N/A	32.1
TERT	c.-124C>T	N/A	36.4
TERT	c.-146C>T	N/A	37.8
TP53	c.524G>A	p.R175H	29.3
TP53	c.723del	p.C242Afs*5	31.3
TP53	c.743G>A	p.R248Q	31.6
TP53	c.818G>A	p.R273H	25.2
TPM3::NTRK1	Intron 7::Intron 9	Translocation variant	39.8 [‡]
TSC1	c.1263+1G>T	N/A	28.3
TSC2	c.2640-1G>A	N/A	32.9
VHL	c.481C>T	p.R161*	23.3
ZNF2	c.*1525_*1530delTTTTTT	MSI NR-24	32.4 [‡]

‡ = Not assayed by NGS; variant allele frequency determined by digital PCR.

Approval:



Prepared By

27 NOV 2024

Date