

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq[®] Whole Transcriptome RNA Seq Mix

Material Number: 0710-2129 Batch Number: 10566163

Material Description: A multiplexed mixture of biosynthetic RNA fusions blended with total RNA extracted from GM24385 human reference cell line.

Date of Manufacture: 17 JUN 2021 Expiration Date: 17 JUN 2024

Nominal Concentration: 50 ng/μL Fill Volume: 20 μL

Concentration Test Method: ThermoFisher Qubit RNA BR Assay

Measured Concentration: 53.8 ng/μL

RNA Quality Test Method: Agilent Bioanalyzer RNA 6000 Nano Kit Analysis

Average RIN Value: 10.0

Fusion Detection Test Method:

Droplet Digital PCR using TaqMan[™] probes run on the BioRad QX200 system

4 replicate samples were analyzed with the Tempus second generation RNA whole transcriptome panel using IDT xGen Exome Research Panel v2 backbone assay, which consists of >415K individually synthesized probes and spans a 34 Mb target region (19,433 genes) of the human genome with additional Tempus-specific custom spike-in probes to enhance target region detection. Libraries were sequenced on a NovaSeq6000 using version 1 reagents. The average number of reads generated for each sample was 95M.

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RNA Fusion	Digital PCR Average Fusion Concentration (copies/ μ L)	NGS Direct Support Reads	NGS Indirect Support Reads
BCR-ABL1	43,680	120	733
CCDC6-RET	48,000	177	641
CD74-ROS1	41,493	100	286
EML4-ALK	48,267	158	1016
ETV6-ABL1 (transcript 1)	34,640	144	843
ETV6-ABL1 (transcript 2)	40,107	88	1475
ETV6-NTRK3	52,747	194	327
FGFR3-TACC3	33,227	193	1651
KIF5B-RET	25,600	191	722
LMNA-NTRK1 (transcript 1)	21,387	180	3814
LMNA-NTRK1 (transcript 2)	41,013	71	1859
MEF2D-CSF1R	30,133	47	87
MET ex 14 Skipping	59,040	103	NA
NACC2-NTRK2	39,040	303	382
NCOA4-RET	34,027	133	446
PML-RAR α	35,893	28	209
RUNX1-RUNX1T1	28,000	178	410
SLC34A2-ROS1	45,280	77	377
SLC45A3-BRAF	35,147	231	234
TCF3-PBX1	29,013	69	133
TMPRSS2-ERG	30,453	186	101
TPM3-NTRK1	37,760	427	702

Approval:



09 MAY 2023

Prepared By

Date