

# Certificate of Analysis

**For Research Use Only, Not for use in Diagnostic Procedures**

Product Description: Seraseq Fusion RNA Mix v4  
 Material No: 0710-0497 Batch No: 10498378  
 Date of Manufacture: 08 JUN 2020 Expiration Date: 11 MAY 2022

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L

Concentration test Method: Thermo Fisher Qubit RNA BR Assay

Measured Concentration: 30.6 ng /  $\mu$ L

Nominal Fusion Concentration: 1500 Fusion copies/ $\mu$ L

Fusion Test Method: Droplet Digital PCR using TaqMan™ probes run on the BioRad QX200 system

Measured Fusion Concentrations:

RNA Fusion	Digital PCR Average Fusion copies/ $\mu$ L
CCDC6-RET	1023
CD74-ROS1	1272
EGFR variant III	1013
EGFR-SEPT14	1013
EML4-ALK	1047
ETV6-NTRK3	1164
FGFR3-BAIAP2L1	1091
FGFR3-TACC3	2395
KIF5B-RET	1279
LMNA-NTRK1	1284
MET Exon 14 Skipping	1067
NCOA4-RET	1477
PAX8-PPARG1	1499
SLC34A2-ROS1	1256
SLC45A3-BRAF	1297
TFG-NTRK1	1469
TMPRSS2-ERG	1085
TPM3-NTRK1	1007

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NGS Result: Positive for each of the 18 fusions and exon skipping events  
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay run on the Illumina® MiSeq™ instrument (300-cycle Reagent Kit v2, ) at 250 ng RNA input  
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version 5.1.7 (default parameters).

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	120	485
CD74-ROS1	88	347
EGFR variant III	72	97
EGFR-SEPT14	139	318
EML4-ALK	108	487
ETV6-NTRK3	211	867
FGFR3-BAIAP2L1	105	570
FGFR3-TACC3	158	1055
KIF5B-RET	163	1130
LMNA-NTRK1	202	1483
MET Exon 14 Skipping	99	201
NCOA4-RET	85	423
PAX8-PPARG1	86	268
SLC34A2-ROS1	89	246
SLC45A3-BRAF	82	2800
TFG-NTRK1	171	1039
TMPRSS2-ERG	55	1913
TPM3-NTRK1	185	966

\*Total number of reads per sample was 1.3 M.

Approval:

Prepared By

Date

QA Verified By

Date



08 Jun 2020  
09 JUN 2020