

# 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: 10375530  
 Date of Manufacture: 16-NOV-2018 Expiration Date: 16-OCT-2020

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L  
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay  
 Measured Concentration: 27 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	1120
CD74-ROS1	2167
EGFR variant III	1029
EGFR-SEPT14	1036
EML4-ALK	1401
ETV6-NTRK3	1217
FGFR3-BAIAP2L1	1605
FGFR3-TACC3	2689
KIF5B-RET	1328
LMNA-NTRK1	1419
MET Exon 14 Skipping	1153
NCOA4-RET	1960
PAX8-PPARG1	2389
SLC34A2-ROS1	1827
SLC45A3-BRAF	1539
TFG-NTRK1	1703
TMPRSS2-ERG	1039
TPM3-NTRK1	1356

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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	140	634
CD74-ROS1	87	382
EGFR variant III	76	104
EGFR-SEPT14	194	427
EML4-ALK	113	520
ETV6-NTRK3	139	491
FGFR3-BAIAP2L1	117	728
FGFR3-TACC3	175	1209
KIF5B-RET	151	899
LMNA-NTRK1	216	1941
MET Exon 14 Skipping	94	166
NCOA4-RET	88	423
PAX8-PPARG1	93	377
SLC34A2-ROS1	101	390
SLC45A3-BRAF	92	3808
TFG-NTRK1	180	1137
TMPRSS2-ERG	81	3059
TPM3-NTRK1	195	1008

\*Total number of reads per sample was 2.38M.

Approval:

Prepared By



Date

1/24/2019

QA Verified By

Date

2/7/19