

# 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: 10375529  
 Date of Manufacture: 16-NOV-2018 Expiration Date: 15-OCT-2020

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L  
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay  
 Measured Concentration: 26 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	1336
CD74-ROS1	2637
EGFR variant III	1269
EGFR-SEPT14	1281
EML4-ALK	1683
ETV6-NTRK3	1549
FGFR3-BAIAP2L1	1889
FGFR3-TACC3	3027
KIF5B-RET	1443
LMNA-NTRK1	1359
MET Exon 14 Skipping	1444
NCOA4-RET	2249
PAX8-PPARG1	2801
SLC34A2-ROS1	2281
SLC45A3-BRAF	1985
TFG-NTRK1	2027
TMPRSS2-ERG	1057
TPM3-NTRK1	1539

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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	134	556
CD74-ROS1	77	339
EGFR variant III	65	110
EGFR-SEPT14	183	372
EML4-ALK	126	575
ETV6-NTRK3	135	459
FGFR3-BAIAP2L1	125	717
FGFR3-TACC3	165	1072
KIF5B-RET	155	863
LMNA-NTRK1	212	1719
MET Exon 14 Skipping	86	135
NCOA4-RET	86	386
PAX8-PPARG1	92	312
SLC34A2-ROS1	103	439
SLC45A3-BRAF	92	3283
TFG-NTRK1	175	1132
TMPRSS2-ERG	81	2786
TPM3-NTRK1	198	1029

\*Total number of reads per sample was 2.44M.

Approval:

Prepared By



Date

1/24/2019  
2/7/19

QA Verified By

Date