

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: 10456420
 Date of Manufacture: 05-DEC-2019 Expiration Date: 15-NOV-2020

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	128	617
CD74-ROS1	82	386
EGFR variant III	51	90
EGFR-SEPT14	177	434
EML4-ALK	109	601
ETV6-NTRK3	217	904
FGFR3-BAIAP2L1	116	612
FGFR3-TACC3	165	1211
KIF5B-RET	170	1440
LMNA-NTRK1	190	1871
MET Exon 14 Skipping	90	215
NCOA4-RET	86	503
PAX8-PPARG1	74	319
SLC34A2-ROS1	116	638
SLC45A3-BRAF	82	3173
TFG-NTRK1	189	1592
TMPRSS2-ERG	71	2452
TPM3-NTRK1	212	1229

*Total number of reads per sample was 1.4 M.

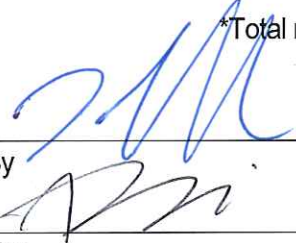
Approval:

Prepared By

Date

QA Verified By

Date



06-Dec-2019

06-Dec-2018

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Nominal Concentration: 25 ng / μ L Volume: 25 μ L
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay
 Measured Concentration: 33 ng / μ L

Nominal Fusion Concentration: 1500 Fusion copies/ μ 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/ μ 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