



Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20240620_AL24003 [3540]
Type: RNA FusionRNA SNP/InDel Targeted Mutations: Archer
Comprehensive Targets NIH v1.3.1 Include Non-Targeted
Variants: No
Software Version: Suite_Analysis_v6.2.7
Analysis Date: 20-Jun-2024 2:51
Report Creator: mpvghtpe@gmail.com
Report Date: 20-Jun-2024 3:08

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,222,701	3,064,677

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,054,002 / 100.0	3,054,002 / 100.0	100.0	95.9
Unique Fragments	278,596 / 9.1	278,596 / 100.0	100.0	86.1

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	128,913.0 / 4.4	2,513,261.0 / 85.8	285,444.0 / 9.8
Molecular Bins	14,588.0 / 6.1	181,571.0 / 75.7	43,630.0 / 18.2
Average Molecular Bins per GSP2	89.5	1,113.93	267.67
Unique Start Sites	6,547.0 / 26.2	16,683.0 / 66.7	5,843.0 / 23.4
Average Unique Start Sites per GSP2	41.18	140.73	38.1
Average Unique Start Sites per GSP2 Control	60.75	272.62	98.75

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
78.56	272.62

Miscellaneous Statistics

On Target Deduplication Ratio
12.21:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
138.0	147.6	148.0	154.7

Reportable Variants

None Found

Reportable Isoforms

- € Passed all strong-evidence filters

ƒ Likely off-target mispriming event

† Exact breakpoint known

‰ Cross contamination

Ⓔ User-annotated false positive
- Known fusion partners in Archer Quiver™

„ Percent GSP2 reads below threshold

‡ Fusion expression imbalance

Š Low confidence

• User-annotated true positive
- , Intronic fusion

... Not enough unique start sites

^ Transcriptional readthrough event

< Known ensembl paralogue

Fusion: ETV6 → NTRK3		
<div>Filters: € •</div> <div>GSP2: NTRK3_chr15_88576246_22+_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 1113 (60.55%)</div> <div>Start Sites: 158</div>	<div>Segments</div> <div>chr12:12006361→12006495 ETV6(+) NM_001987.4, exon:4</div> <div>chr15:88576276→88576114 NTRK3(-) NM_002530.3, exon:14</div>