



Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20220630_AS22021 [3444]
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: 30-Jun-2022 5:29
Report Creator: mpvghtpe@gmail.com
Report Date: 19-Jun-2023 2:36

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
2,561,842	2,401,208	2,211,826

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	2,202,923 / 100.0	2,202,923 / 100.0	100.0	98.3
Unique Fragments	447,482 / 20.3	447,482 / 100.0	100.0	98.5

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	173,095.0 / 8.0	1,744,597.0 / 80.6	247,523.0 / 11.4
Molecular Bins	46,660.0 / 10.6	310,659.0 / 70.5	83,530.0 / 18.9
Average Molecular Bins per GSP2	79.49	529.23	142.3
Unique Start Sites	15,738.0 / 30.3	31,832.0 / 61.2	12,995.0 / 25.0
Average Unique Start Sites per GSP2	28.0	75.38	25.39
Average Unique Start Sites per GSP2 Control	26.5	176.58	30.0

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
52.74	176.58

Miscellaneous Statistics

On Target Deduplication Ratio
4.91:1










DNA/RNA Fragment Lengths



DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
130.0	144.3	130.0	138.0



Reportable Variants

None Found

Reportable Isoforms

- ☒ Passed all strong-evidence filters
- ☒ 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
-  Low confidence
-  User-annotated true positive
-  Intronic fusion
-  Not enough unique start sites
-  Transcriptional readthrough event
-  Known ensembl paralogue

Fusion: CIC → DUX4		
<div>Filters:  </div> <div>GSP2: CIC_chr19_42797344_20+_A1_GSP2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 335 (47.12%)</div> <div>Start Sites: 150</div>	<div>Segments</div> <div>chr19:42797345→42797433 CIC(+) NM_015125.4, exon:15</div> <div>chr4:191006661→191006848 DUX4(+) NM_033178.4, exon:1</div>

Fusion: CIC → DUX4		
<div>Filters:  </div> <div>GSP2: CIC_chr19_42797344_20+_A1_GSP2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 12 (3.81%)</div> <div>Start Sites: 8</div>	<div>Segments</div> <div>chr19:42797744→42797744 CIC(+) NM_015125.4, exon:16</div> <div>chr4:191006667→191006846 DUX4(+) NM_033178.4, exon:1</div>