



Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20231106_AS23055 [3510]
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: 06-Nov-2023 3:51
Report Creator: mpvghtpe@gmail.com
Report Date: 09-Nov-2023 17:29

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
1,377,304	1,306,658	1,225,966

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	1,219,794 / 100.0	1,219,794 / 100.0	100.0	98.7
Unique Fragments	368,695 / 30.2	368,695 / 100.0	100.0	98.7

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	95,722.0 / 7.9	911,980.0 / 75.7	196,544.0 / 16.3
Molecular Bins	32,588.0 / 9.0	247,268.0 / 67.9	84,078.0 / 23.1
Average Molecular Bins per GSP2	49.45	375.22	127.58
Unique Start Sites	14,832.0 / 25.4	36,753.0 / 62.9	15,075.0 / 25.8
Average Unique Start Sites per GSP2	23.08	73.55	26.46
Average Unique Start Sites per GSP2 Control	22.0	158.08	29.08

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
49.25	158.08

Miscellaneous Statistics

On Target Deduplication Ratio
3.31:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
130.0	142.0	129.0	135.7

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: WWTR1 → CAMTA1		
<div>Filters: </div> <div>GSP2: CAMTA1_chr1_7721792_23_-_A1_GSP2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 1436 (92.17%)</div> <div>Start Sites: 153</div>	<div>Segments</div> <div>chr3:149290739→149290651 WWTR1(-) NM_015472.4, exon:3</div> <div>chr1:7721786→7721926 CAMTA1(+) NM_015215.3, exon:8</div>