



**Overall QC Status:** PASS  
**Sample QC Status:** PASS  
**Fusion QC Status:** PASS  
**Variations QC Status:** PASS  
**Job:** 20230601\_AL23005 [4779]  
**Type:** RNA FusionRNA SNP/InDel Targeted Mutations: Archer  
Comprehensive Targets NIH v1.3.1 2 Include Non-Targeted  
Variants: No  
**Software Version:** Suite\_Analysis\_v6.2.7  
**Analysis Date:** 01-Jun-2023 5:08  
**Report Creator:** mpvghtpe@gmail.com  
**Report Date:** 01-Jun-2023 19:12

## Statistics

### Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
1,133,330	1,062,003	1,004,309

### Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	1,001,012 / 100.0	1,001,012 / 100.0	100.0	97.5
Unique Fragments	156,727 / 15.7	156,727 / 100.0	100.0	98.0

### DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	48,738.0 / 5.0	807,635.0 / 82.8	119,570.0 / 12.3
Molecular Bins	10,114.0 / 6.6	114,611.0 / 74.6	28,923.0 / 18.8
Average Molecular Bins per GSP2	62.05	703.13	177.44
Unique Start Sites	5,144.0 / 25.3	13,486.0 / 66.3	4,390.0 / 21.6
Average Unique Start Sites per GSP2	32.12	106.8	28.45
Average Unique Start Sites per GSP2 Control	35.62	179.75	58.88

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
60.21	179.75

Miscellaneous Statistics

On Target Deduplication Ratio
6.35:1










DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
129.0	137.6	135.0	142.3

**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: TPM3 → NTRK1		
<div>Filters: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></div> <div>GSP2: NTRK1_chr1_156844367_21_-_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 1297 (84.39%)</div> <div>Start Sites: 194</div>	<div>Segments</div> <div>chr1:154142945→154142876 TPM3(-) NM_153649.3, exon:7</div> <div>chr1:156844363→156844418 NTRK1(+) NM_002529.3, exon:10</div>