AS21003_lon_V2_RBC1_BC12_rawlib.basecaller

Overall QC Status: PASS Sample QC Status: PASS Fusion QC Status: PASS Variations QC Status: PASS Job: 20211006 AS21003 [3439]

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-Oct-2021 6:30

Report Creator: mpvghtpe@gmail.com

Report Date: 19-Jun-2023 2:32



Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,198,120	2,946,136

Read Statistics

Туре	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	2,924,299 / 100.0	2,924,299 / 100.0	100.0	99.1
Unique Fragments	757,640 / 25.9	757,640 / 100.0	100.0	99.3

DNA/RNA Statistics

Туре	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	251,061.0 / 8.7	1,806,484.0 / 62.3	840,527.0 / 29.0
Molecular Bins	76,359.0 / 10.2	419,107.0 / 55.7	256,659.0 / 34.1
Average Molecular Bins per GSP2	130.08	713.98	437.24
Unique Start Sites	21,656.0 / 33.1	38,832.0 / 59.3	15,967.0 / 24.4
Average Unique Start Sites per GSP2	38.64	89.97	33.85
Average Unique Start Sites per GSP2 Control	36.0	144.17	21.08

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
71.83	144.17

Miscellaneous Statistics

On Target Deduplication Ratio
3.85:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
112.0	127.8	118.0	125.5

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™

△ Fusion expression imbalance

1 Low confidence

 $\ensuremath{\bigtriangleup}$ User-annotated true positive

% Intronic fusion

↓ Not enough unique start sites

O Transcriptional readthrough event

☐ Known ensembl paralogue

Fusion: SS18 → SSX1			
Filters: ☑ ⊚	Reads : 1082 (20.29%)	<u>Segments</u>	
GSP2: SS18_chr18_23614979_21A1_GSP2	Start Sites: 257	chr18:23615091→23614969 SS18(-) NM_001007559.2, exon:9	
Mutation Classification: Undefined		chrX:48121201→48121234 SSX1(+) NM_005635.3, exon:5	
Is Artifact: no			

Fusion: SS18 → SSX2			
Filters: 🛢 🛱	Reads: 361 (8.68%)	<u>Segments</u>	
GSP2: SS18_chr18_23614979_21A1_GSP2	Start Sites: 84	chr18:23612496→23612496 SS18(-) NM_001007559.2, exon:10	
Mutation Classification: Undefined		chrX:52731680→52731631	
Is Artifact: no		SSX2(-) NM_003147.5, exon:5	

Fusion: SS18 → SSX2			
Filters: 🛢 🕏	Reads: 310 (5.95%)	<u>Segments</u>	
GSP2: SS18_chr18_23614979_21A1_GSP2	Start Sites: 75	chr18:23615091→23614969 SS18(-) NM_001007559.2, exon:9	
Mutation Classification: Undefined		chrX:52731680 → 52731631	
Is Artifact: no		SSX2(-) NM_003147.5, exon:5	