AS23027_42062613_lon_V2_RBC2_BC2 5_rawlib.basecaller

Overall QC Status: PASS Sample QC Status: PASS Fusion QC Status: PASS Variations QC Status: PASS Job: 20230609 AS23027 [3476]

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: 08-Jun-2023 23:28 Report Creator: mpvghtpe@gmail.com

Report Date: 08-Jun-2023 23:34



Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,279,137	3,087,027

ARCHER®

Read Statistics

Туре	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,070,112 / 100.0	3,070,112 / 100.0	100.0	99.0
Unique Fragments	707,422 / 23.0	707,422 / 100.0	100.0	99.1

DNA/RNA Statistics

Туре	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	341,437.0 / 11.2	2,227,629.0 / 73.3	471,245.0 / 15.5
Molecular Bins	87,583.0 / 12.5	454,064.0 / 64.8	159,107.0 / 22.7
Average Molecular Bins per GSP2	80.65	418.11	146.51
Unique Start Sites	33,677.0 / 31.3	63,041.0 / 58.6	25,748.0 / 24.0
Average Unique Start Sites per GSP2	32.42	76.42	27.49
Average Unique Start Sites per GSP2 Control	38.25	161.25	28.17

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
59.5	161.25

Miscellaneous Statistics

On Target Deduplication Ratio
4.34:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
126.0	138.9	127.0	136.1

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™

 $\Delta \hat{}$ Fusion expression imbalance

1 Low confidence

% Intronic fusion

↓ Not enough unique start sites

O Transcriptional readthrough event

☐ Known ensembl paralogue

Fusion: EWSR1 → NFATC2		
Filters: ☑ ⑩	Reads: 2634 (59.58%)	<u>Segments</u>
GSP2: NFATC2_chr20_50133429_23_+_A1_GS P2	Start Sites: 318	chr22:29684595→29684775 EWSR1(+) NM_005243.3, exon:8
Mutation Classification: Undefined		chr20:50133494→50133323 NFATC2(-) NM 012340.4, exon:3
Is Artifact: no		111 / 11 02() 1111_012040.4, 0X011.0

Fusion: EWSR1 → NFATC2		
Reads: 1173 (99.66%)	<u>Segments</u>	
Start Sites: 169	chr22:29686714→29686954 EWSR1(+) NM_005243.3, intron:8	
	chr20:50133608→50133495 NFATC2(-) NM_012340.4, intron:2	
	Reads: 1173 (99.66%)	

Fusion: EWSR1 → NFATC2		
Filters: ⊜ ‡	Reads: 79 (0.89%)	<u>Segments</u>
GSP2: NFATC2_chr20_50133429_23_+_A1_GS P2	Start Sites: 48	chr22:29682951→29683123 EWSR1(+) NM_005243.3, exon:7
Mutation Classification: Undefined		chr20:50133494→50133430
Is Artifact: no		NFATC2(-) NM_012340.4, exon:3

Fusion: EWSR1 → NFATC2		
Filters: ⊜ ‡	Reads: 28 (0.31%)	<u>Segments</u>
GSP2: EWSR1_chr22_29683087_28_+_A1_GSP 2	Start Sites: 15	chr22:29683088→29683122 EWSR1(+) NM_005243.3, exon:7
Mutation Classification: Undefined		chr20:50133494→50133390
Is Artifact: no		NFATC2(-) NM_012340.4, exon:3