AS24007_50312704_lon_V2_RBC1_BC1 6_rawlib.basecaller

Overall QC Status: PASS Sample QC Status: PASS Fusion QC Status: PASS Variations QC Status: PASS

Job: 20240516_AS24007_AS24008 [3535]

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: 16-May-2024 5:16
Report Creator: mpvghtpe@gmail.com
Report Date: 16-May-2024 19:18

ARCHER®)

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,235,706	3,091,946

Read Statistics

Туре	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,072,993 / 100.0	3,072,993 / 100.0	100.0	98.2
Unique Fragments	555,722 / 18.1	555,722 / 100.0	100.0	98.5

DNA/RNA Statistics

Туре	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	233,977.0 / 7.8	2,416,829.0 / 80.1	367,197.0 / 12.2
Molecular Bins	53,651.0 / 9.8	391,484.0 / 71.5	102,477.0 / 18.7
Average Molecular Bins per GSP2	49.4	360.48	94.36
Unique Start Sites	24,693.0 / 27.1	56,787.0 / 62.3	21,032.0 / 23.1
Average Unique Start Sites per GSP2	23.33	68.14	21.59
Average Unique Start Sites per GSP2 Control	26.67	156.67	27.25

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
44.73	156.67

Miscellaneous Statistics

On Target Deduplication Ratio
5.51:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
126.0	140.7	123.0	132.6

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

1 Low confidence

 \triangle User-annotated true positive

% Intronic fusion

↓ F Not enough unique start sites

O Transcriptional readthrough event

☐ Known ensembl paralogue

Fusion: COL1A1 → PDGFB		
Filters: ☑ ⊚	Reads: 3638 (88.82%)	<u>Segments</u>
GSP2: PDGFB_chr22_39631845_24_+_A1_GSP 2	Start Sites: 203	chr17:48266636→48266529 COL1A1(-) NM_000088.3, exon:40
Mutation Classification: Undefined		chr22:39631879→39631783
Is Artifact: no		PDGFB(-) NM_002608.3, exon:2

Fusion: SEMA5A → TERT			
Filters: ✓	Reads: 380 (88.79%)	<u>Segments</u>	
GSP2: TERT_chr5_1282672_20_+_A1_GSP2	Start Sites: 112	chr5:9224999→9224786 SEMA5A(-) NM_003966.2, exon:8	
Mutation Classification: Undefined		chr5:1282739→1282673 TERT(-) NM_198253.2, exon:3	
Is Artifact: no		TERT(-) NW_130233.2, 6x011.3	