AS23066_49978601_lon_V2_RBC2_BC28_rawlib.basecaller

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

Job: 20231221_AS23064_AS23065_AS23066 [3520]

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: 21-Dec-2023 5:14
Report Creator: mpvghtpe@gmail.com

Report Date: 21-Dec-2023 19:07

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,292,691	3,123,688

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Read Statistics

Туре	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,106,837 / 100.0	3,106,837 / 100.0	100.0	98.9
Unique Fragments	633,225 / 20.4	633,225 / 100.0	100.0	98.9

DNA/RNA Statistics

Туре	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	309,025.0 / 10.1	1,971,770.0 / 64.2	792,432.0 / 25.8
Molecular Bins	72,352.0 / 11.6	379,888.0 / 60.7	173,713.0 / 27.8
Average Molecular Bins per GSP2	66.62	349.8	159.96
Unique Start Sites	26,615.0 / 27.3	60,403.0 / 62.1	23,280.0 / 23.9
Average Unique Start Sites per GSP2	25.37	72.86	24.72
Average Unique Start Sites per GSP2 Control	22.42	152.08	25.58

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
49.75	152.08

Miscellaneous Statistics

On Target Deduplication Ratio
4.91:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
137.0	148.6	135.0	143.7

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

ঐ॒॔ 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: COL1A1 → PDGFB		
Filters: ☑ ⊚	Reads: 2754 (90.00%)	<u>Segments</u>
GSP2: PDGFB_chr22_39631845_24_+_A1_GSP 2	Start Sites: 166	chr17:48271402→48271304 COL1A1(-) NM_000088.3, exon:25
Mutation Classification: Undefined		chr22:39631879→39631783
Is Artifact: no		PDGFB(-) NM_002608.3, exon:2