



Overall QC Status: PASS

Sample QC Status: PASS

Fusion QC Status: PASS

Variations QC Status: PASS

Job: 20230202_AS23004-05 [3450]

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: 02-Feb-2023 6:41

Report Creator: mpvghtpe@gmail.com

Report Date: 19-Jun-2023 2:46

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,296,494	3,101,610

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,083,287 / 100.0	3,083,287 / 100.0	100.0	98.5
Unique Fragments	876,927 / 28.4	876,927 / 100.0	100.0	99.0

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	230,425.0 / 7.6	2,407,968.0 / 79.3	398,022.0 / 13.1
Molecular Bins	75,299.0 / 8.7	624,258.0 / 71.9	168,158.0 / 19.4
Average Molecular Bins per GSP2	69.34	574.82	154.84
Unique Start Sites	30,323.0 / 28.6	65,618.0 / 61.9	27,267.0 / 25.7
Average Unique Start Sites per GSP2	28.98	82.23	28.39
Average Unique Start Sites per GSP2 Control	29.67	166.58	33.5

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
56.83	166.58

Miscellaneous Statistics

On Target Deduplication Ratio
3.50:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
127.0	139.6	127.0	135.7

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


 Fusion expression imbalance

 Low confidence



 User-annotated true positive
-  Intronic fusion

 Not enough unique start sites

 Transcriptional readthrough event

 Known ensembl paralogue

Fusion: EMILIN2 → PDGFD		
<div>Filters: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></div> <div>GSP2: PDGFD_chr11_103797820_22+_A1_GS P2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 1950 (65.35%)</div> <div>Start Sites: 198</div>	<div>Segments</div> <div>chr18:2892252→2892484 EMILIN2(+) NM_032048.2, exon:4</div> <div>chr11:103797854→103797640 PDGFD(-) NM_025208.4, exon:6</div>

Fusion: EMILIN2 → PDGFD		
<div>Filters:  </div> <div>GSP2: PDGFD_chr11_103797820_22+_A1_GS P2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 124 (4.41%)</div> <div>Start Sites: 63</div>	<div>Segments</div> <div>chr18:2884962→2885137 EMILIN2(+) NM_032048.2, exon:3</div> <div>chr11:103797854→103797821 PDGFD(-) NM_025208.4, exon:6</div>