



Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20231103_AS23053 [3509]
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-Nov-2023 19:54
Report Creator: mpvghtpe@gmail.com
Report Date: 03-Nov-2023 3:11

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
1,024,348	941,625	885,323

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	881,717 / 100.0	881,717 / 100.0	100.0	99.4
Unique Fragments	303,925 / 34.5	303,925 / 100.0	100.0	99.2

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	69,529.0 / 7.9	689,235.0 / 78.7	117,230.0 / 13.4
Molecular Bins	28,146.0 / 9.3	218,247.0 / 72.4	55,236.0 / 18.3
Average Molecular Bins per GSP2	42.71	331.18	83.82
Unique Start Sites	11,739.0 / 28.5	25,961.0 / 63.1	10,038.0 / 24.4
Average Unique Start Sites per GSP2	18.46	51.92	17.15
Average Unique Start Sites per GSP2 Control	9.92	78.83	9.58

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
35.19	78.83

Miscellaneous Statistics

On Target Deduplication Ratio
2.90:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
126.0	138.2	129.0	135.5

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™


 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: NAB2 → STAT6		
<div>Filters:  </div> <div>GSP2: STAT6_chr12_57492354_21+_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 2613 (55.54%)</div> <div>Start Sites: 182</div>	<div>Segments</div> <div>chr12:57486231→57486364 NAB2(+) NM_005967.3, exon:3</div> <div>chr12:57492380→57492288 STAT6(-) NM_003153.4, exon:19</div>

Fusion: NAB2 → STAT6		
<div>Filters:   </div> <div>GSP2: STAT6_chr12_57492632_23+_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 110 (3.49%)</div> <div>Start Sites: 65</div>	<div>Segments</div> <div>chr12:57486365→57486519 NAB2(+) NM_005967.3, intron:3</div> <div>chr12:57492656→57492633 STAT6(-) NM_003153.4, exon:18</div>

Fusion: NAB2 → STAT6		
<div>Filters:  </div> <div>GSP2: STAT6_chr12_57490864_21+_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 35 (1.39%)</div> <div>Start Sites: 25</div>	<div>Segments</div> <div>chr12:57486231→57486364 NAB2(+) NM_005967.3, exon:3</div> <div>chr12:57490916→57490865 STAT6(-) NM_003153.4, exon:20</div>

Fusion: NAB2 → STAT6		
<div>Filters:  </div> <div>GSP2: STAT6_chr12_57492354_21+_A1_GSP 2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 17 (0.36%)</div> <div>Start Sites: 16</div>	<div>Segments</div> <div>chr12:57485685→57485781 NAB2(+) NM_005967.3, exon:2</div> <div>chr12:57492380→57492355 STAT6(-) NM_003153.4, exon:19</div>