



Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20231116_AS23056_S1662 [3512]
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-Nov-2023 3:06
Report Creator: mpvghtpe@gmail.com
Report Date: 16-Nov-2023 23:21

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,217,419	3,080,233

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,064,348 / 100.0	3,064,348 / 100.0	100.0	98.2
Unique Fragments	715,788 / 23.4	715,788 / 100.0	100.0	97.9

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	222,468.0 / 7.4	2,331,717.0 / 77.5	455,507.0 / 15.1
Molecular Bins	65,238.0 / 9.3	479,464.0 / 68.4	155,960.0 / 22.3
Average Molecular Bins per GSP2	60.07	441.5	143.61
Unique Start Sites	29,085.0 / 27.0	66,924.0 / 62.1	27,220.0 / 25.3
Average Unique Start Sites per GSP2	27.83	83.62	29.06
Average Unique Start Sites per GSP2 Control	29.0	174.92	27.5

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
56.52	174.92

Miscellaneous Statistics

On Target Deduplication Ratio
4.30:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
137.0	150.3	137.0	147.0

Reportable Variants

NP_001895.1:p.Ser45Pro

Gene: CTNNB1

Ref./ Mutation: T / C (. PRESENT)

Allele Fraction: 0.4887

Mutation Classification: Undefined

Is Artifact: no

Location: chr3:41266136

Depth: 2531

Clinical Sig. Pathogenic

Disease: Hepatocellular_carcinoma

HGVSp: NP_001895.1

Sift: deleterious(0)

PolyPhen: possibly_damaging(0.905)

NP_002515.1:p.Gln61Leu

Gene: NRAS

Ref./ Mutation: T / A (. PRESENT)

Allele Fraction: 0.4958

Mutation Classification: Undefined

Is Artifact: no

Location: chr1:115256529

Depth: 839

Clinical Sig. Pathogenic

Disease: Thyroid_cancer\2c_follicular

HGVSp: NP_002515.1

Sift: deleterious(0)

PolyPhen: possibly_damaging(0.861)


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: SS18 → SSX2		
<div>Filters:  </div> <div>GSP2: SS18_chr18_23612369_25_-_A1_GSP2</div> <div>Mutation Classification: Undefined</div> <div>Is Artifact: no</div>	<div>Reads: 507 (17.17%)</div> <div>Start Sites: 181</div>	<div>Segments</div> <div>chr18:23612496→23612363 SS18(-) NM_005637.3, exon:9</div> <div>chrX:52729628→52729493 SSX2(-) NM_003147.5, exon:6</div>