AS23004_S112-00108B_Ion_V2_RBC2_BC30_rawlib.basecaller

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	3,298,214	3,117,584

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,103,635 / 100.0	3,103,635 / 100.0	100.0	98.1
Unique Fragments	694,015 / 22.4	694,015 / 100.0	100.0	98.8

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	255,277.0 / 8.4	2,323,371.0 / 76.3	464,827.0 / 15.3
Molecular Bins	69,770.0 / 10.2	453,005.0 / 66.1	162,656.0 / 23.7
Average Molecular Bins per GSP2	64.24	417.13	149.78
Unique Start Sites	26,083.0 / 27.8	57,702.0 / 61.4	23,135.0 / 24.6
Average Unique Start Sites per GSP2	24.99	69.1	24.31
Average Unique Start Sites per GSP2 Control	30.0	155.33	25.92

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
48.9	155.33

Miscellaneous Statistics

On Target Deduplication Ratio
4.44:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
130.0	142.3	131.0	140.1

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: EWSR1 → FLI1		
Filters: ☑ ◎ **GSP2:** EWSR1_chr22_29683087_28_+_A1_GSP 2 **Mutation Classification:** Undefined **Is Artifact:** no	**Reads**: 540 (12.74%) **Start Sites:** 103	**Segments** chr22:29682912→29683123 EWSR1(+) NM_005243.3, exon:7 chr11:128651853→128651918 FLI1(+) NM_002017.4, exon:5

Fusion: EWSR1 → FLI1		
Filters: ⛁ 🔗 **GSP2:** EWSR1_chr22_29683087_28_+_A1_GSP 2 **Mutation Classification:** Undefined **Is Artifact:** no	**Reads**: 60 (98.36%) **Start Sites:** 34	**Segments** chr22:29683124→29683179 EWSR1(+) NM_005243.3, intron:7 chr11:128643911→128644115 FLI1(+) NM_002017.4, intron:4

Fusion: EWSR1 → FLI1		
Filters: ⛁ ⚟ **GSP2:** EWSR1_chr22_29683087_28_+_A1_GSP 2 **Mutation Classification:** Undefined **Is Artifact:** no	**Reads**: 5 (0.12%) **Start Sites:** 4	**Segments** chr22:29683091→29683122 EWSR1(+) NM_005243.3, exon:7 chr11:128651853→128651883 FLI1(+) NM_002017.4, exon:5