AS22025_Ion_V2_RBC1_BC15_rawlib.basecaller

Overall QC Status: PASS
Sample QC Status: PASS
Fusion QC Status: PASS
Variations QC Status: PASS
Job: 20220728AS22024_AS22025_AS22026 [4739]
Type: RNA FusionRNA SNP/InDel Targeted Mutations: Archer Comprehensive Targets NIH v1.3.1 2 Include Non-Targeted Variants: No
Software Version: Suite_Analysis_v6.2.7
Analysis Date: 28-Jul-2022 4:37
Report Creator: mpvghtpe@gmail.com
Report Date: 20-Jun-2023 20:48

Statistics

Molecular Barcode Statistics

Total Fragments	Fragments with Complete Adapter	Number of Reads After Trimming Adapters
3,500,000	3,267,678	3,110,130

Read Statistics

Type	Total Fragments (# / %)	Mapped (# / %)	Pass Alignment Filter (%)	On Target (%)
All Fragments	3,100,471 / 100.0	3,100,471 / 100.0	100.0	98.8
Unique Fragments	138,424 / 4.5	138,424 / 100.0	100.0	97.4

DNA/RNA Statistics

Type	DNA Reads (# / %)	RNA Reads (# / %)	Ambiguous Reads (# / %)
All Fragments	369,166.0 / 12.1	2,325,030.0 / 75.9	367,923.0 / 12.0
Molecular Bins	17,371.0 / 12.9	87,374.0 / 64.8	30,046.0 / 22.3
Average Molecular Bins per GSP2	26.36	132.59	45.59
Unique Start Sites	7,763.0 / 27.7	17,435.0 / 62.2	6,447.0 / 23.0
Average Unique Start Sites per GSP2	12.18	31.83	10.88
Average Unique Start Sites per GSP2 Control	18.92	84.42	11.42

QC Statistics

Avg. Unique DNA And Ambiguous Start Sites Per GSP2	Avg. Unique RNA Start Sites Per GSP2 Control
22.81	84.42

Miscellaneous Statistics

On Target Deduplication Ratio
22.72:1

DNA/RNA Fragment Lengths

DNA Median Fragment Length	DNA Mean Fragment Length	RNA Median Fragment Length	RNA Mean Fragment Length
120.0	133.9	128.0	133.6

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**: 107 (15.85%) **Start Sites:** 33	**Segments** chr22:29682976→29683123 EWSR1(+) NM_005243.3, exon:7 chr11:128675261→128675326 FLI1(+) NM_002017.4, exon:6

Fusion: FLI1 → EWSR1		
Filters: ⛁ ⚟ **GSP2:** EWSR1_chr22_29684603_20_-_A1_GSP 2 **Mutation Classification:** Undefined **Is Artifact:** no	**Reads**: 22 (3.81%) **Start Sites:** 12	**Segments** chr11:128651853→128651918 FLI1(+) NM_002017.4, exon:5 chr22:29684595→29684623 EWSR1(+) NM_005243.3, exon:8