

Dataset details

Name: HG2_BC18-Cell1 (all samples)

Path: /collections/appslabvast/r84039/r84039_20241001_215320/1_A01/pb_formats/m84039_241001_220042_s2.hifi_reads.consensusreadset.xml

Unique ID: 6736dea5-f88a-4554-b77a-6e06271371d1

Created at: 2024-10-03T10:13:32.428Z

HiFi sequences: 8,080,358

HiFi bases: 114,900,164,232

Bio sample name: HG2-bc18

Well sample name: HG2_BC18

Run name: 20241001_Kudo_FINAL-HG2-HG3-HG4-HG2-500

Movie name: m84039_241001_220042_s2

Instrument name: 84039

ICS version: 13.3.0.249820

Number of child datasets: 1

Number of HiFi BAM files: 1

CCS Analysis Report

Summary Metrics

HiFi reads	8.1 M
HiFi reads yield	115.17 Gb
HiFi reads length (mean)	14.22 kb
HiFi reads length (median, bp)	14,717
HiFi Read Length N50 (bp)	16,985
HiFi Read Quality (median)	Q35
HiFi Read Quality (median)	35
Base Quality \geq Q30 (%)	93.50%
HiFi Number of Passes (mean)	11
Missing adapters (%)	4.89%

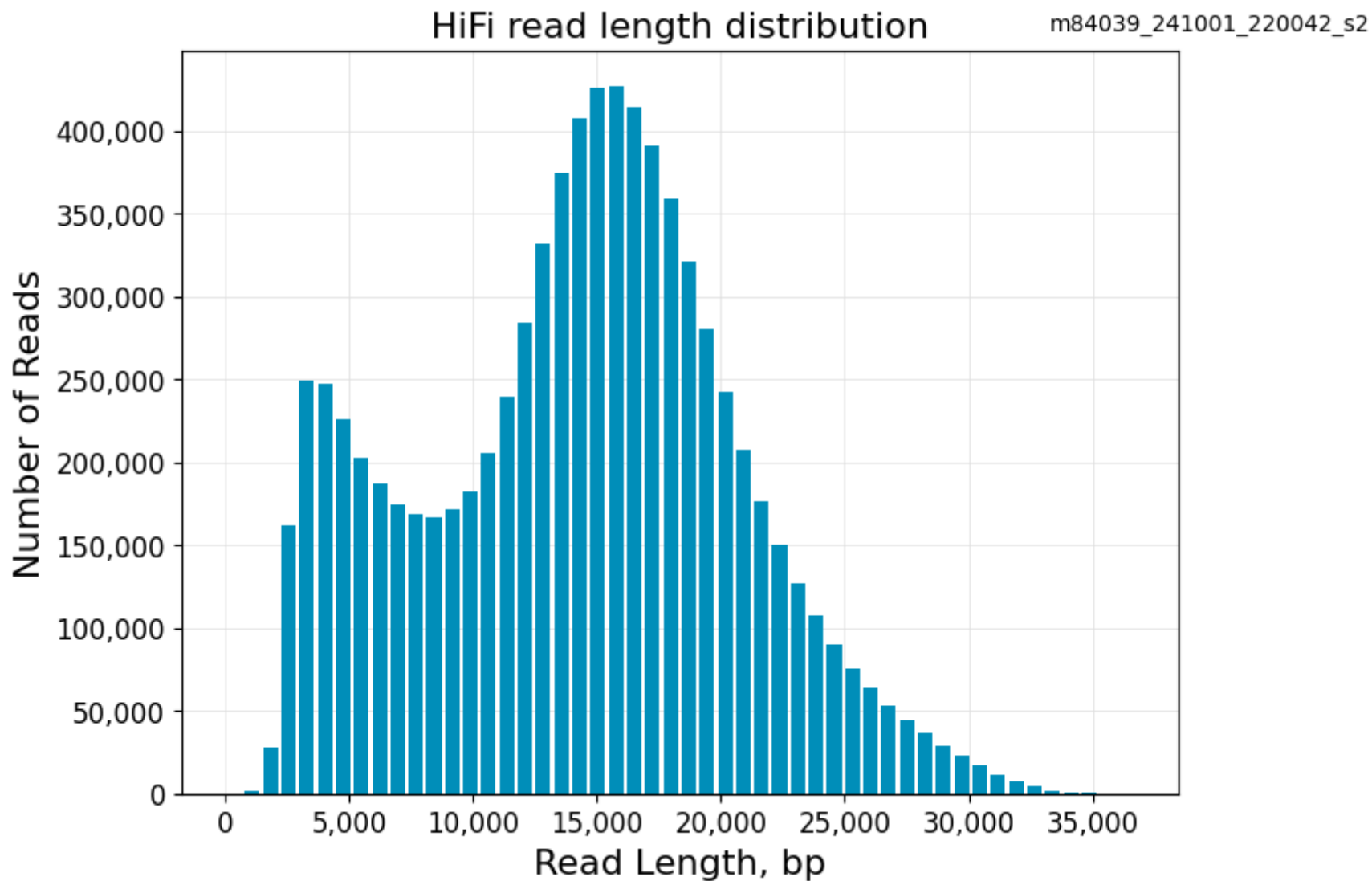
HiFi Read Length Summary

Read Length (kb)	Reads	Reads (%)	Yield (Gb)	Yield (%)
≥ 0	8,099,799	100	115.17 Gb	100
≥ 5,000	7,217,054	89	111.98 Gb	97
≥ 10,000	5,993,845	74	102.90 Gb	89
≥ 15,000	3,886,758	48	75.79 Gb	66
≥ 20,000	1,396,299	17	32.75 Gb	28
≥ 25,000	360,631	4	9.93 Gb	9
≥ 30,000	46,092	1	1.44 Gb	1
≥ 35,000	362	0	0.01 Gb	0
≥ 40,000	17	0	0.00 Gb	0

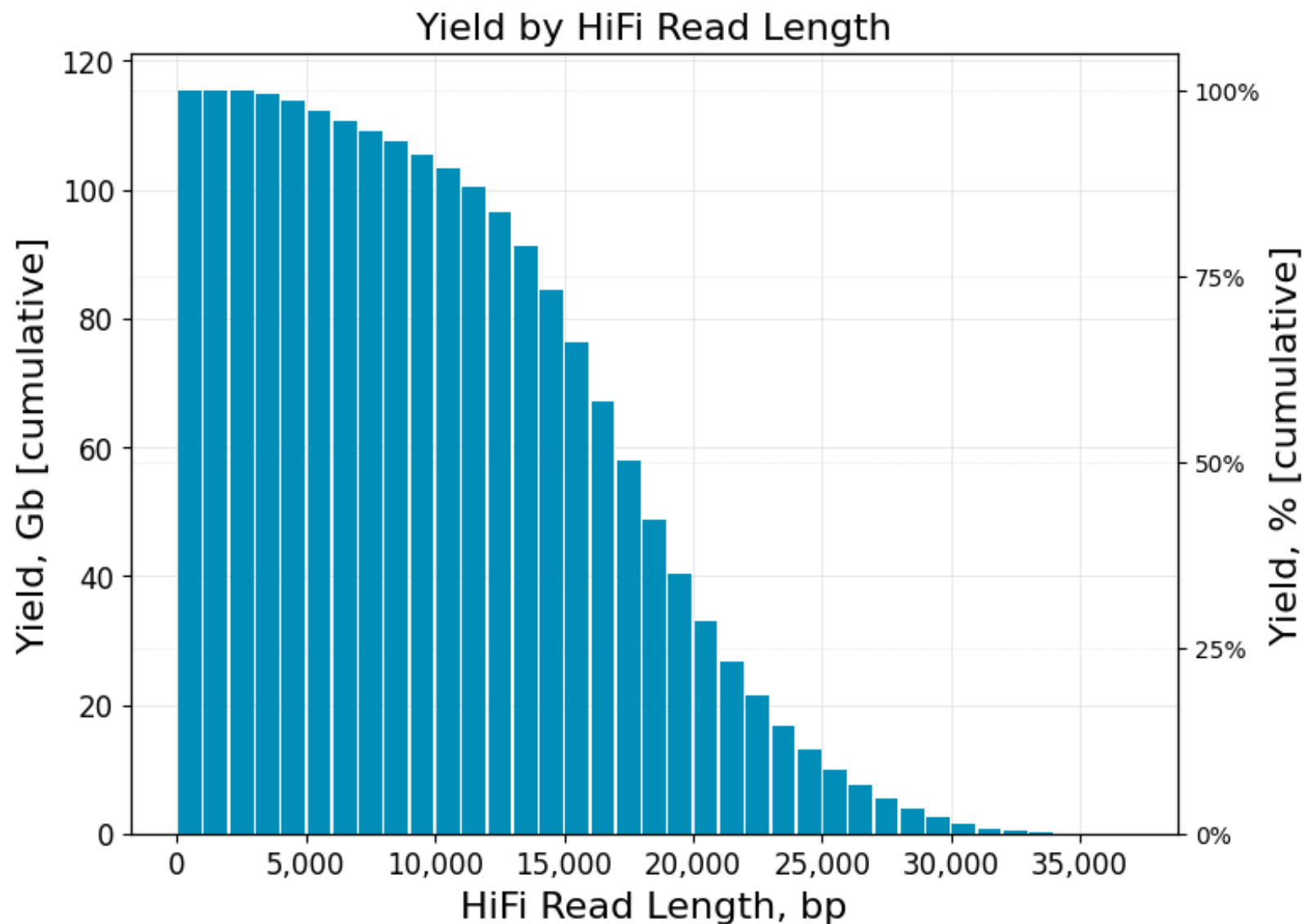
HiFi Read Quality Summary

Read Quality (Phred)	Reads	Reads (%)	Yield (Gb)	Yield (%)
≥ Q20	8,099,799	100	115.17 Gb	100
≥ Q30	6,040,937	75	79.27 Gb	69
≥ Q40	2,236,410	28	19.34 Gb	17
≥ Q50	781,588	10	4.09 Gb	4

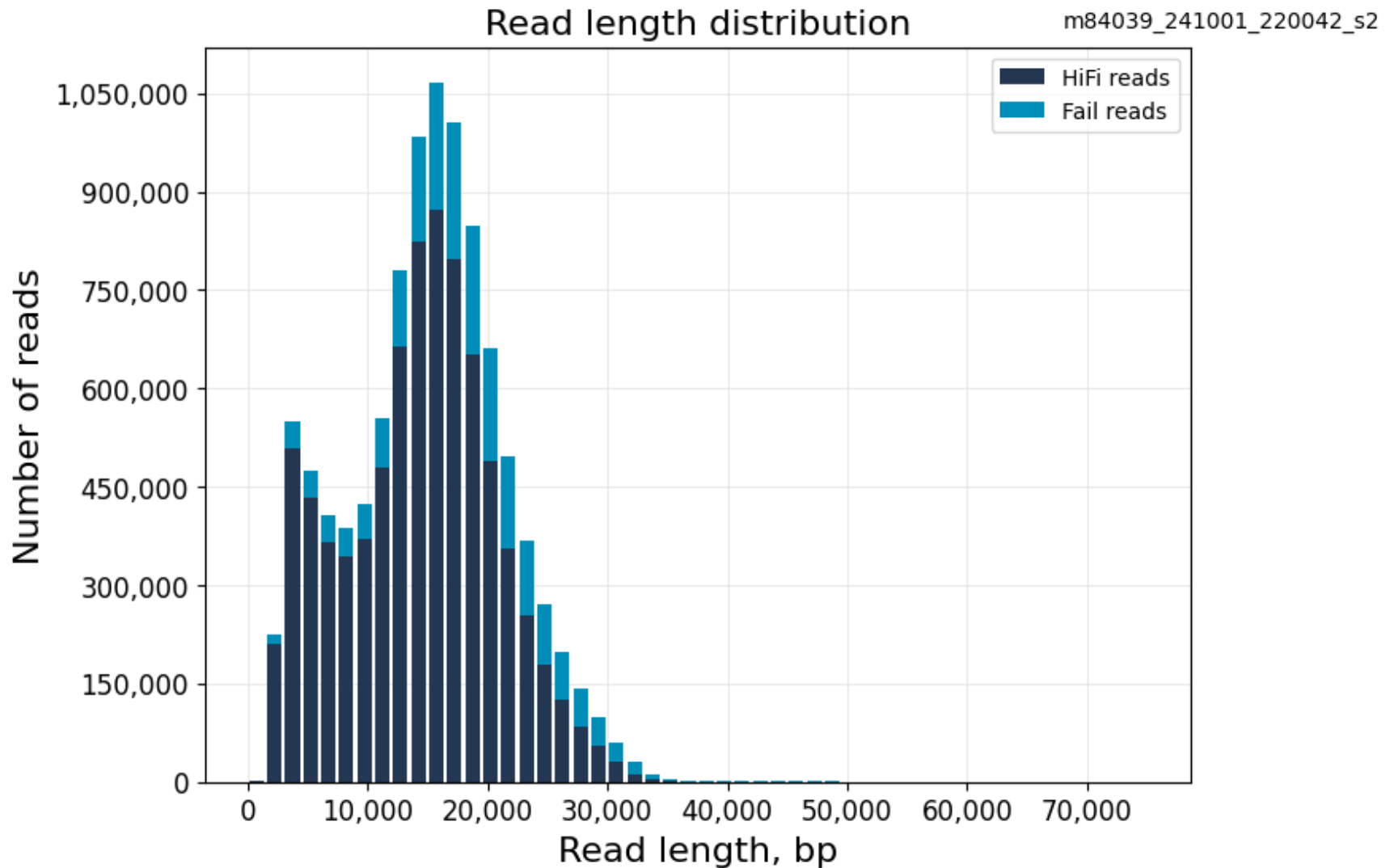
Read Length Distribution: HiFi read length distribution



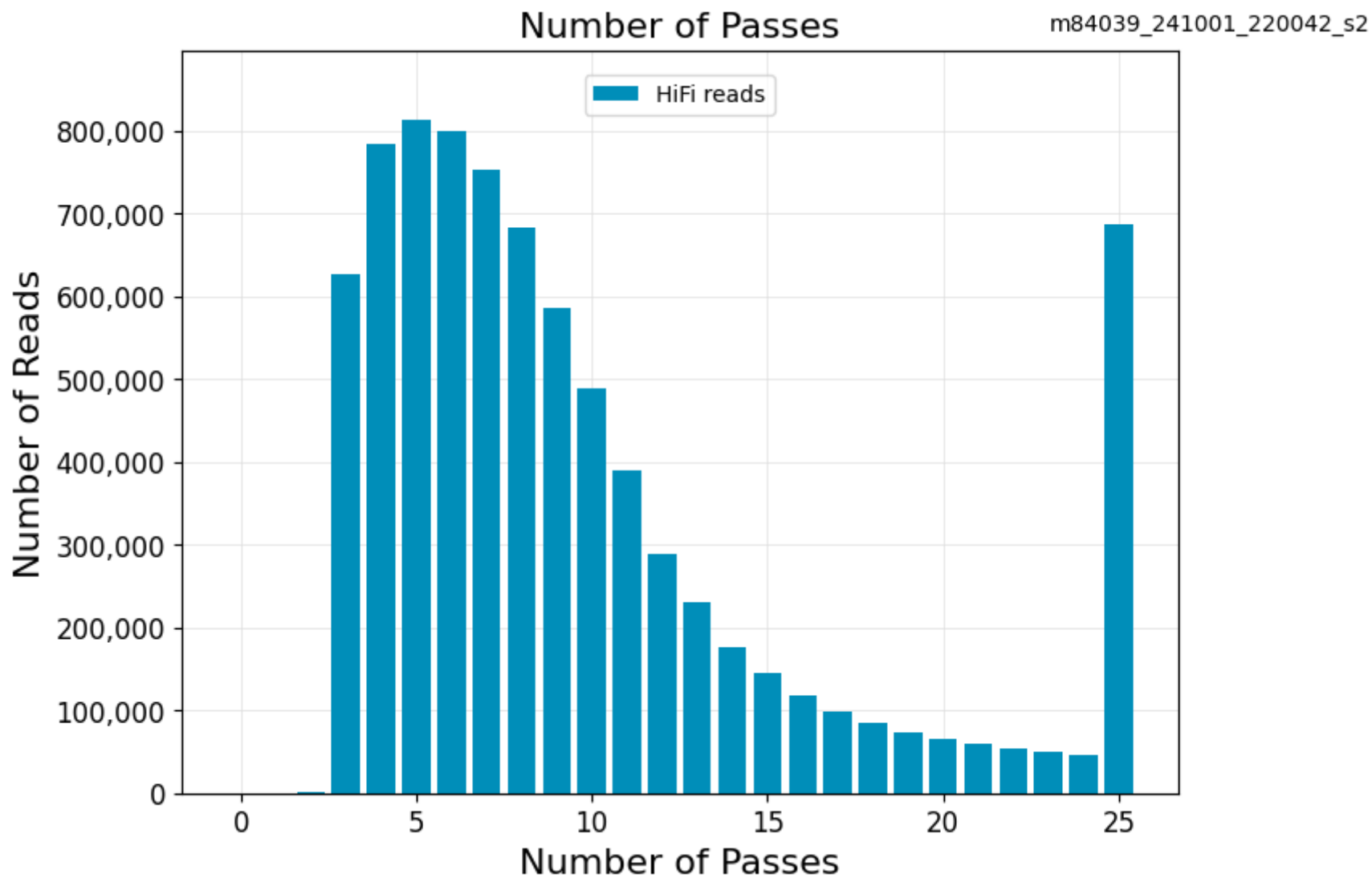
Read Length Distribution: Yield by HiFi Read Length



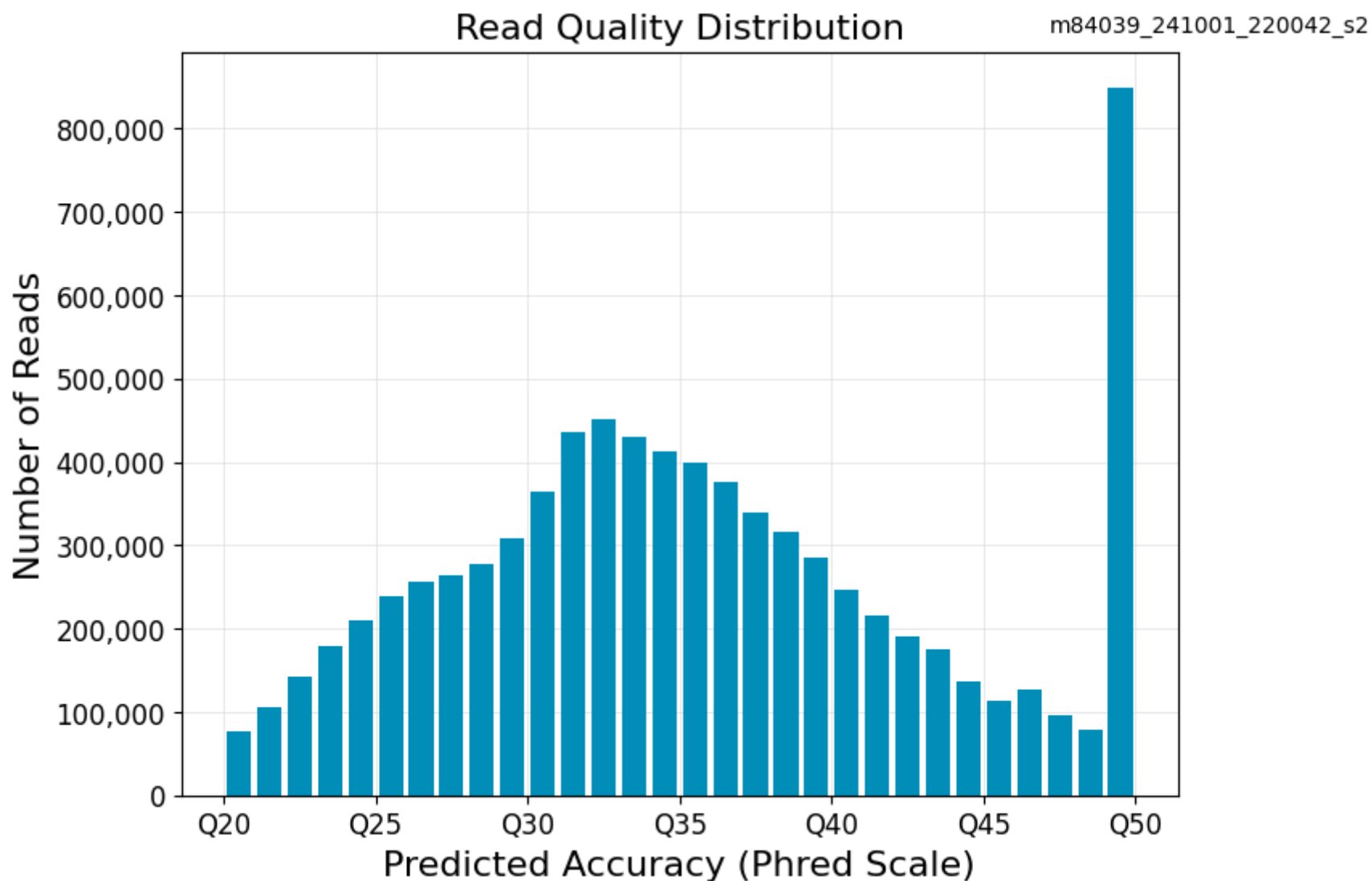
Read Length Distribution: Read length distribution



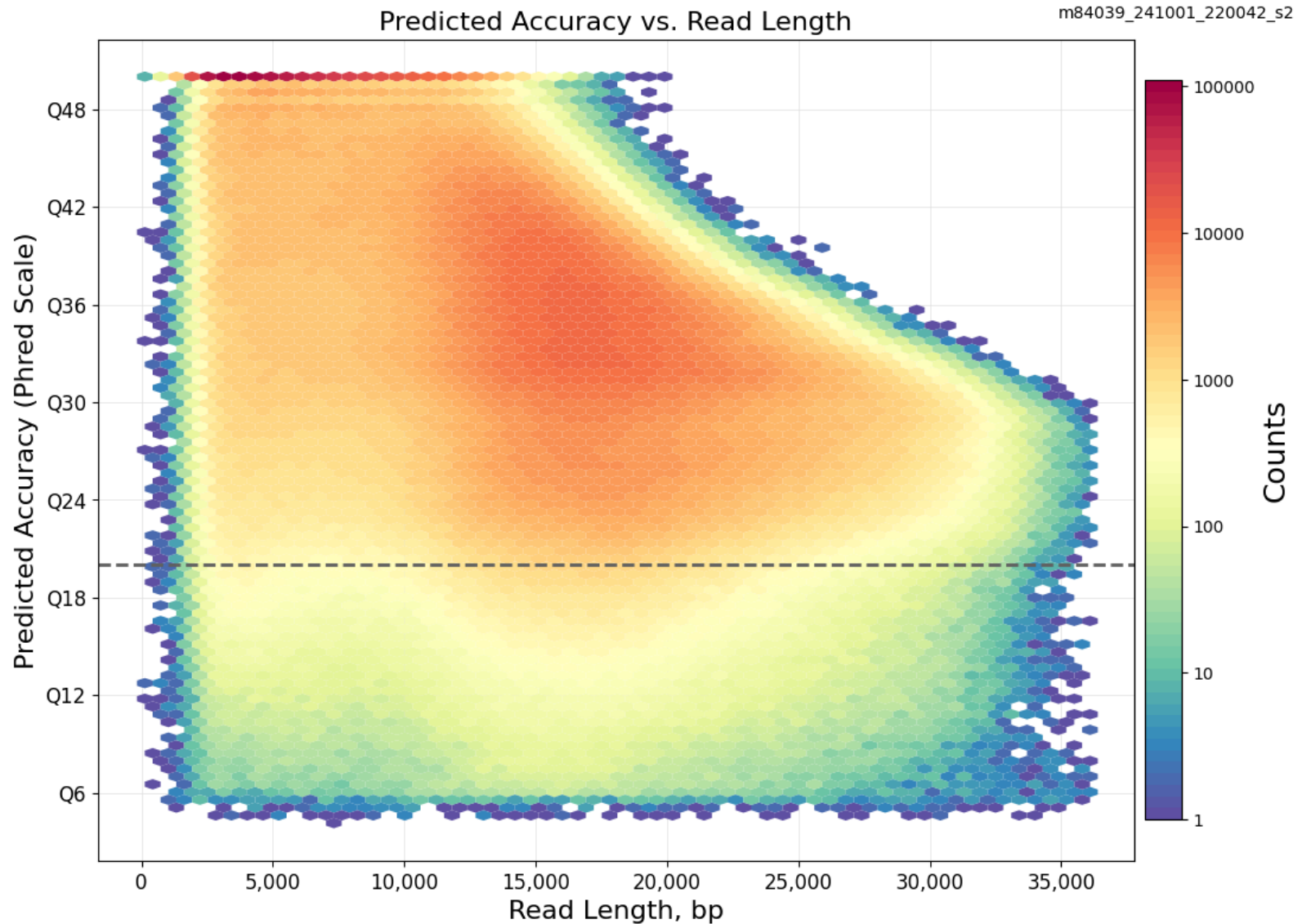
Number of Passes



Read Quality Distribution



Predicted Accuracy vs. Read Length

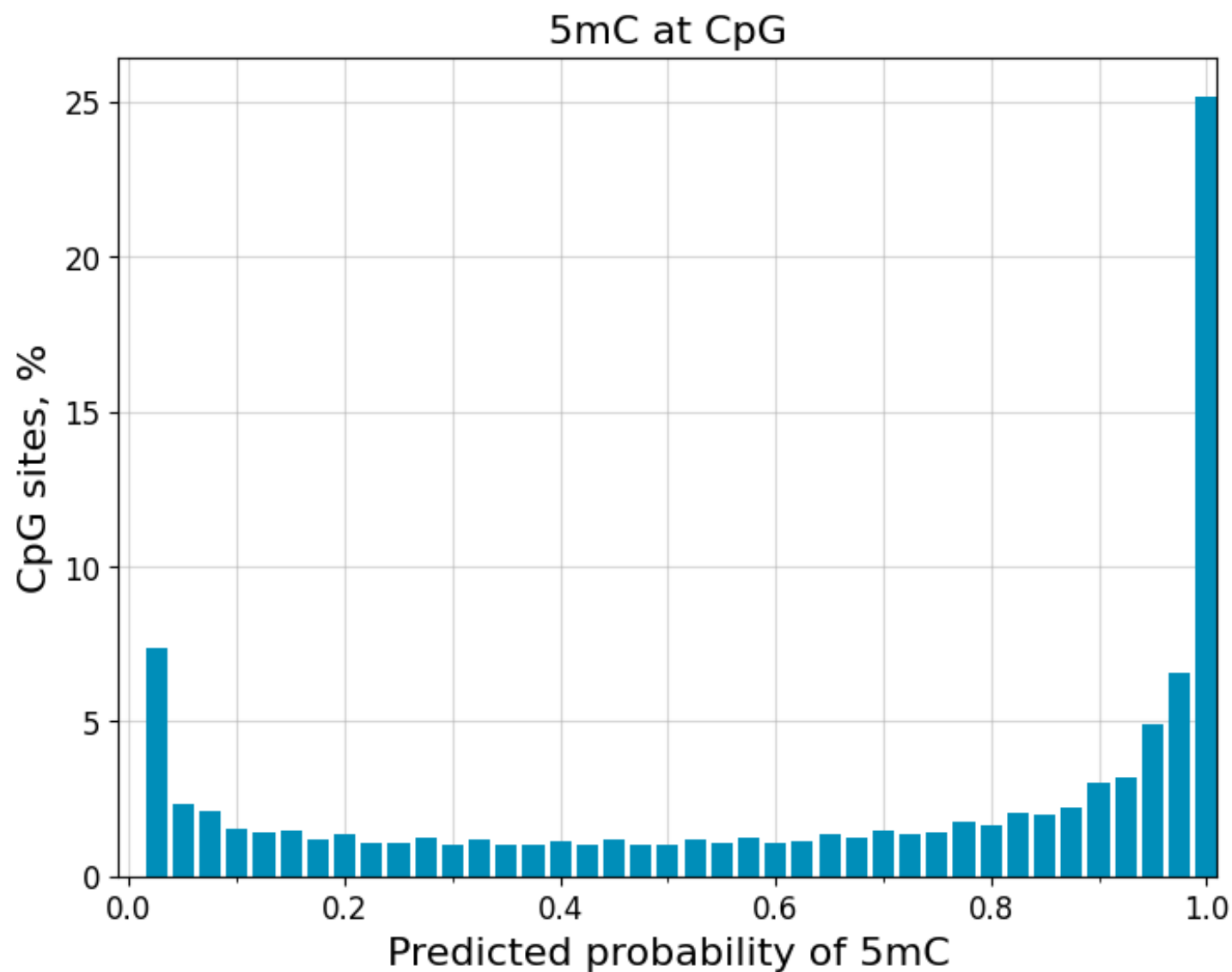


Methylation

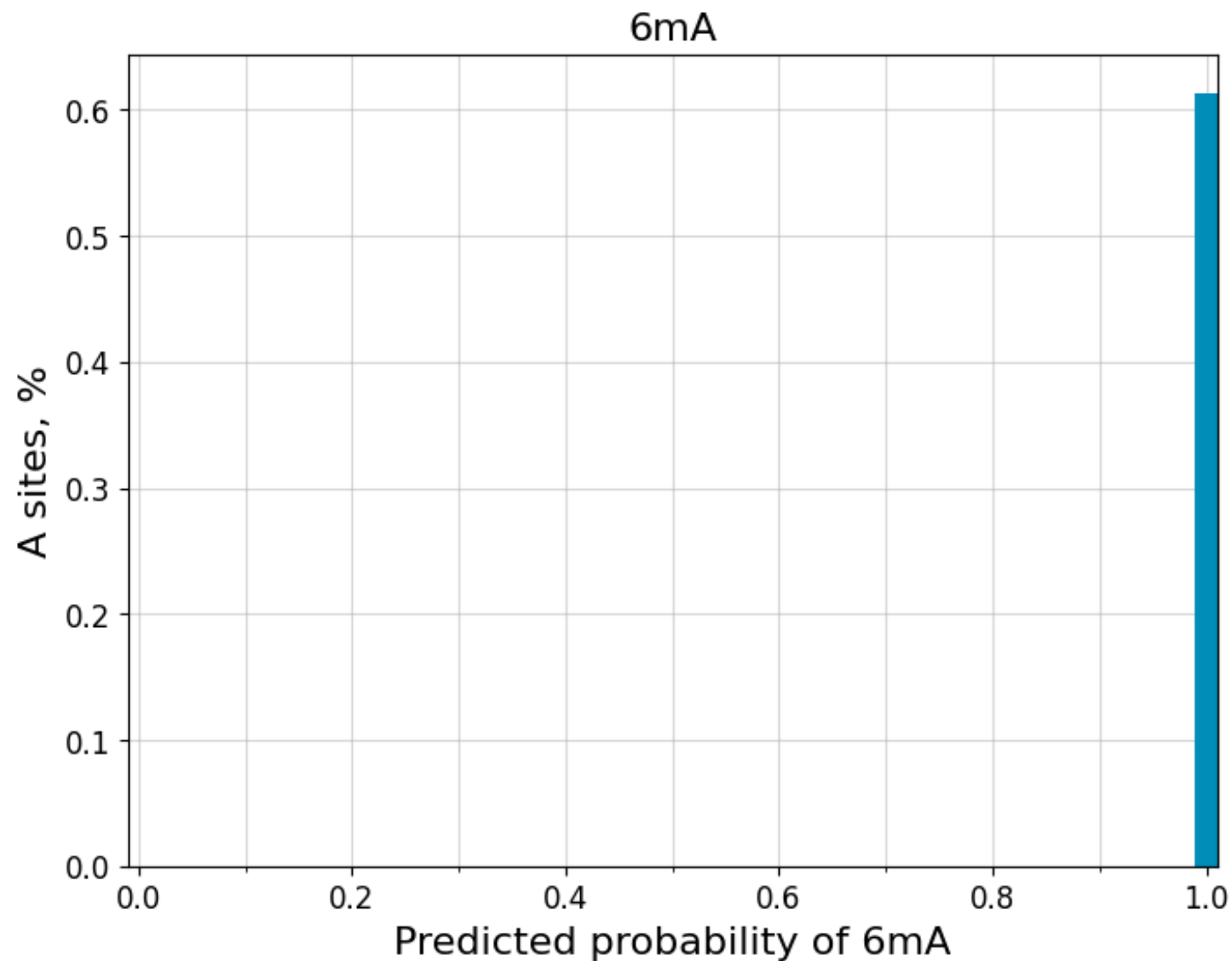
Summary

Modification	Motif	Scored sites	Modified sites (Pr > 0.5)
5mC	CpG	96.6%	64.9%
6mA	A	0.6%	0.6%

Score distributions: 5mC at CpG



Score distributions: 6mA



Barcodes

Summary Metrics

Unique Barcodes	1
Barcoded HiFi Reads	8,080,358
Unbarcoded HiFi Reads	19,452
Barcoded HiFi Reads (%)	99.76 %
Barcoded HiFi yield (Gb)	114.90 Gb
Unbarcoded HiFi yield (Gb)	0.27 Gb
Barcoded HiFi Yield (%)	99.76 %
Mean HiFi Reads per Barcode	8,080,358
Max. HiFi Reads per Barcode	8,080,358
Min. HiFi Reads per Barcode	8,080,358
Barcoded HiFi read length (mean, kb)	14.22 kb
Unbarcoded HiFi read length (mean, kb)	14.06 kb

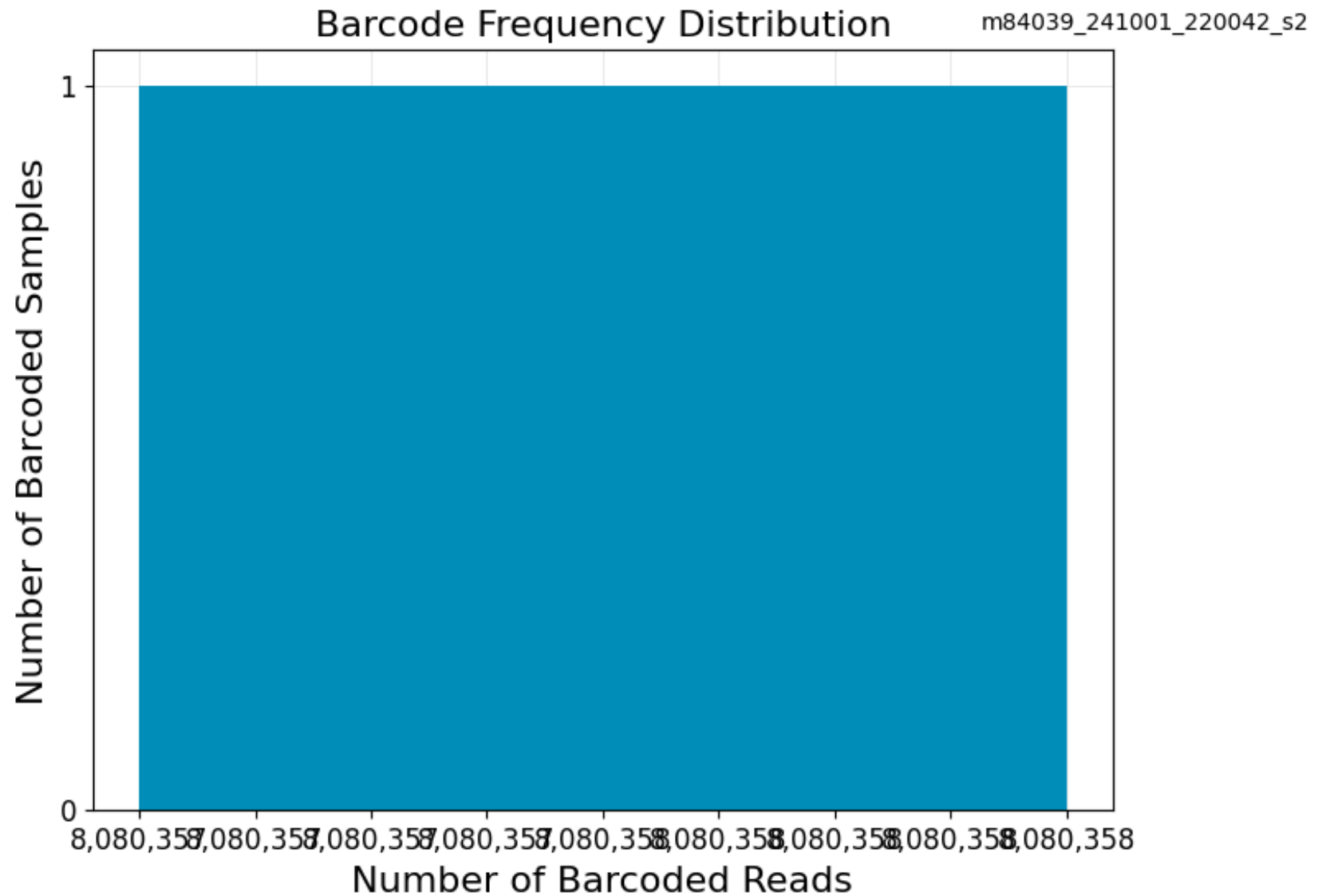
Barcode Data

Sample Name	Barcode	Barcode Quality	HiFi Reads	HiFi Read Length (mean, bp)	HiFi Read Quality (median, QV)	HiFi Yield (bp)	Polymerase Read Length (mean, bp)
HG2-bc18	bc2018--bc2018	97.7	8,080,358	14,219	Q0	114,900,164,232	135,066
No Name	Not Barcoded	0.0	19,452	14,057	Q29	273,440,095	119,472

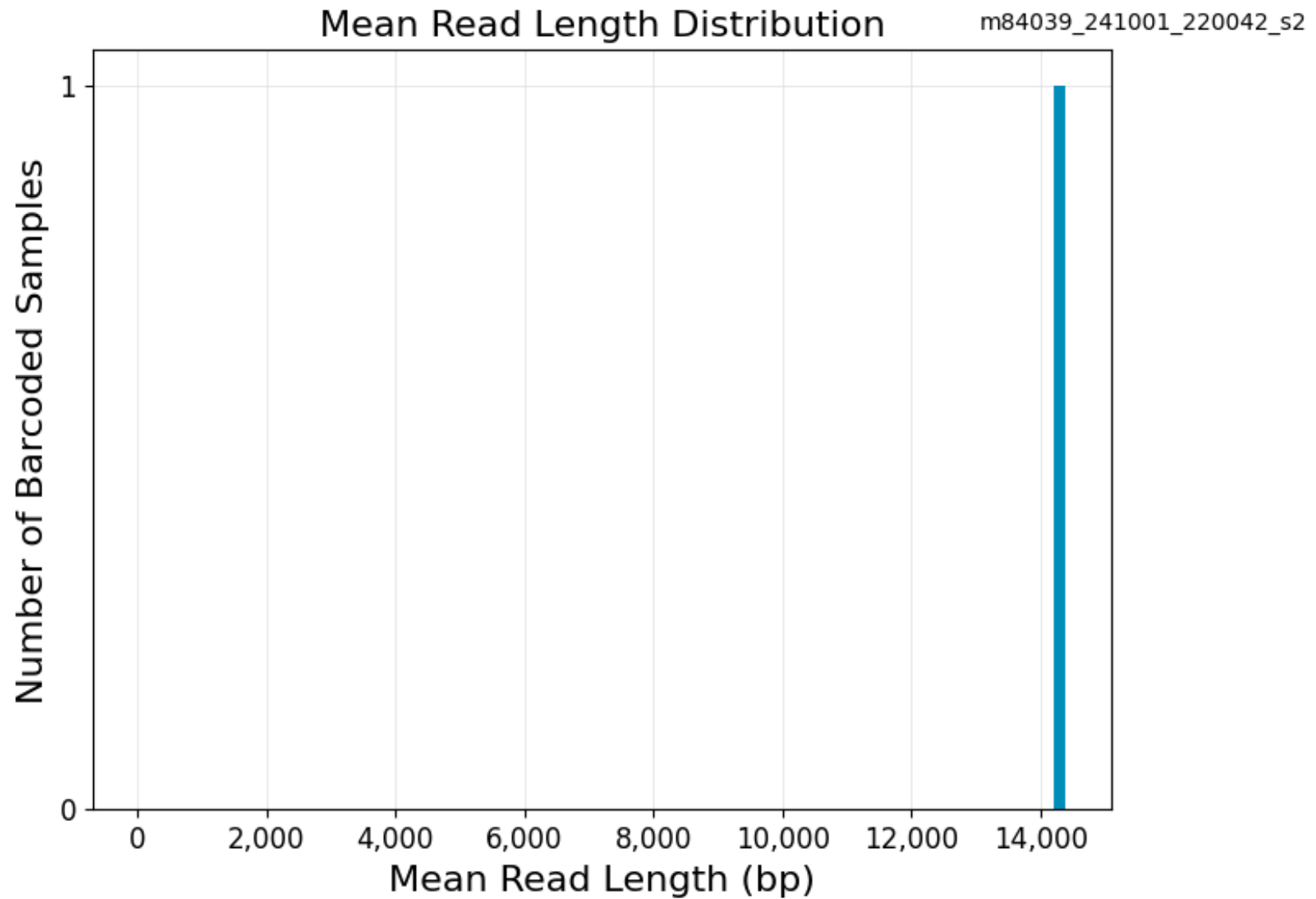
Barcoded Read Statistics: Number Of Reads Per Barcode



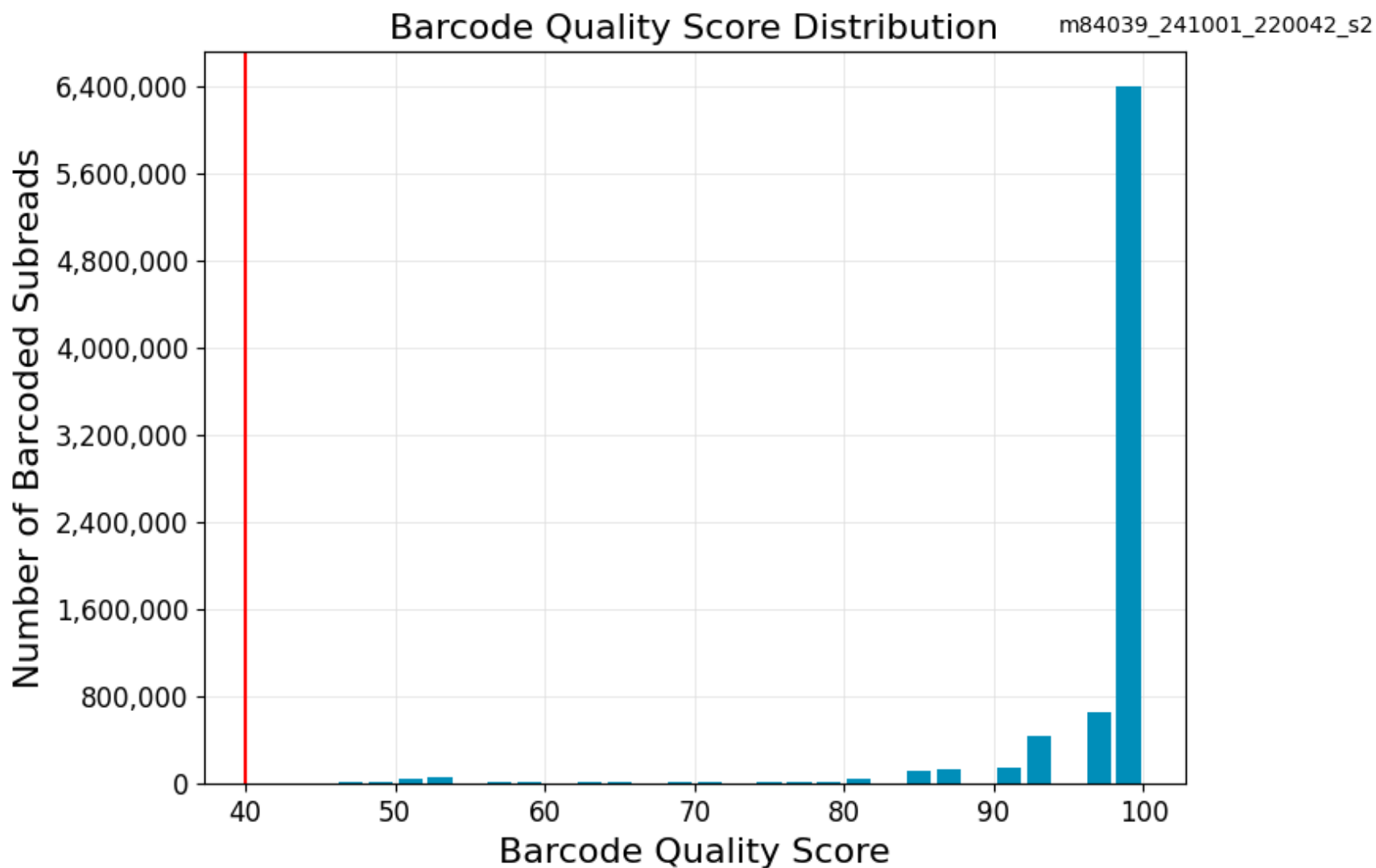
Barcoded Read Statistics: Barcode Frequency Distribution



Barcoded Read Statistics: Mean Read Length Distribution



Barcode Quality Scores: Barcode Quality Score Distribution



Loading Report

Summary Metrics

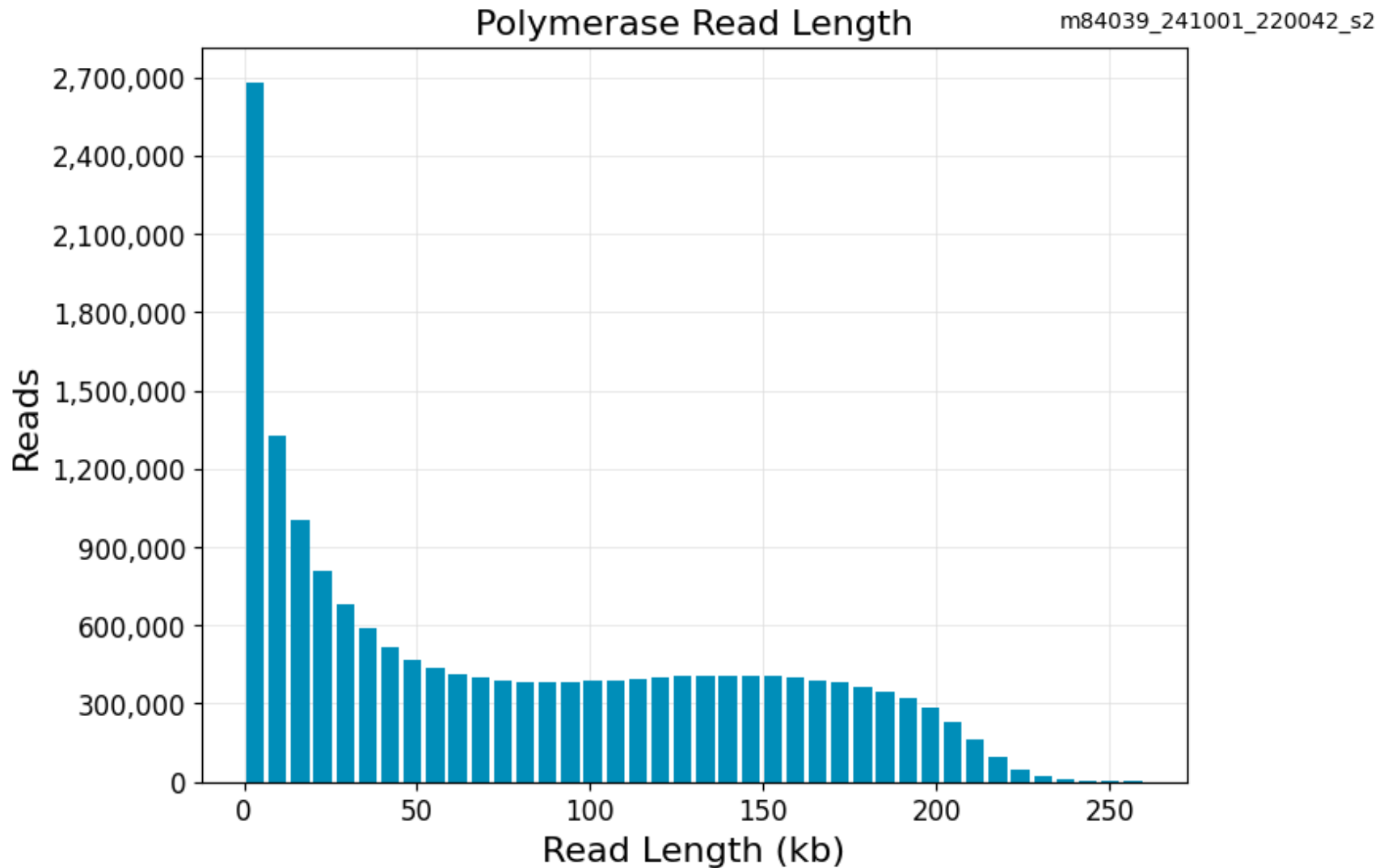
Productive ZMWs	25,165,824
Productivity 0	7,475,767
Productivity 1	17,553,440
Productivity 2	136,617

Raw Data Report

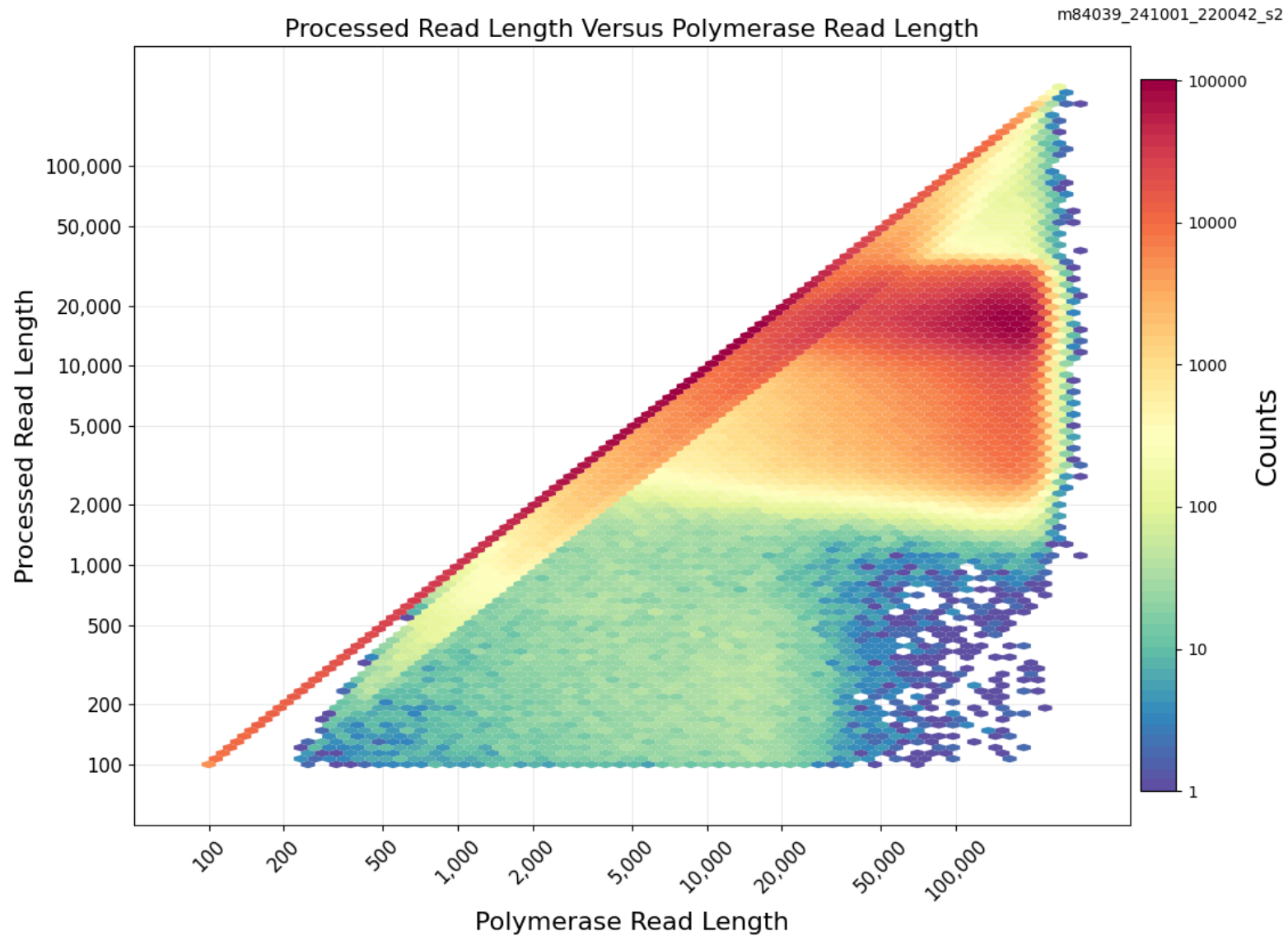
Summary Metrics

Polymerase Read Bases	1,322,928,468,949
Polymerase Reads	17,547,146
Polymerase Read Length (mean)	75.39 kb
Polymerase read length (N50)	143.25 kb
Polymerase read length longest subread length (mean)	15.51 kb
Polymerase read length longest subread length (N50)	19.75 kb
Unique Molecular Yield	258,927,591,424
Local Base Rate	2.32

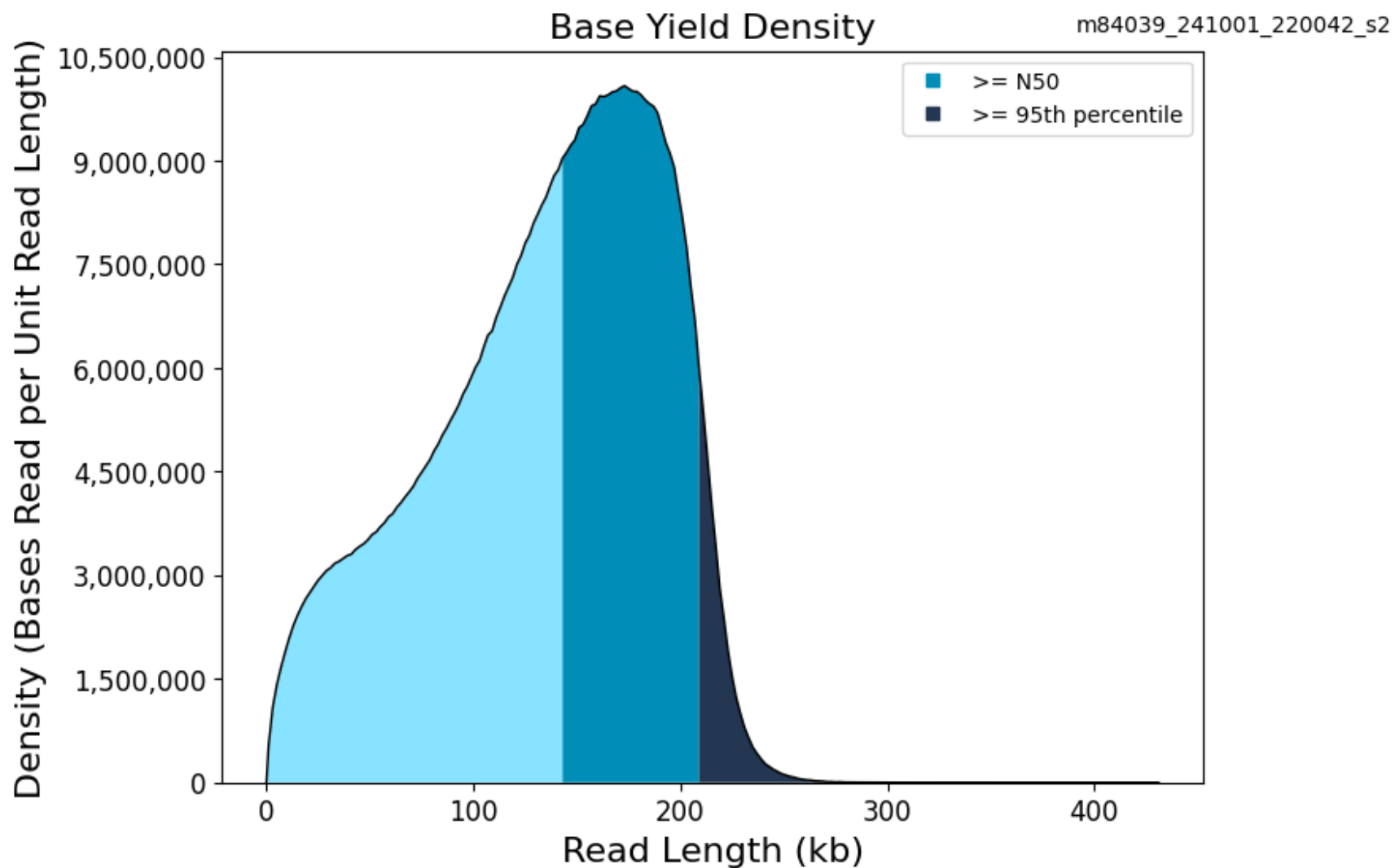
Polymerase Read Length



Longest Subread Length Versus Polymerase Read Length



Base Yield Density

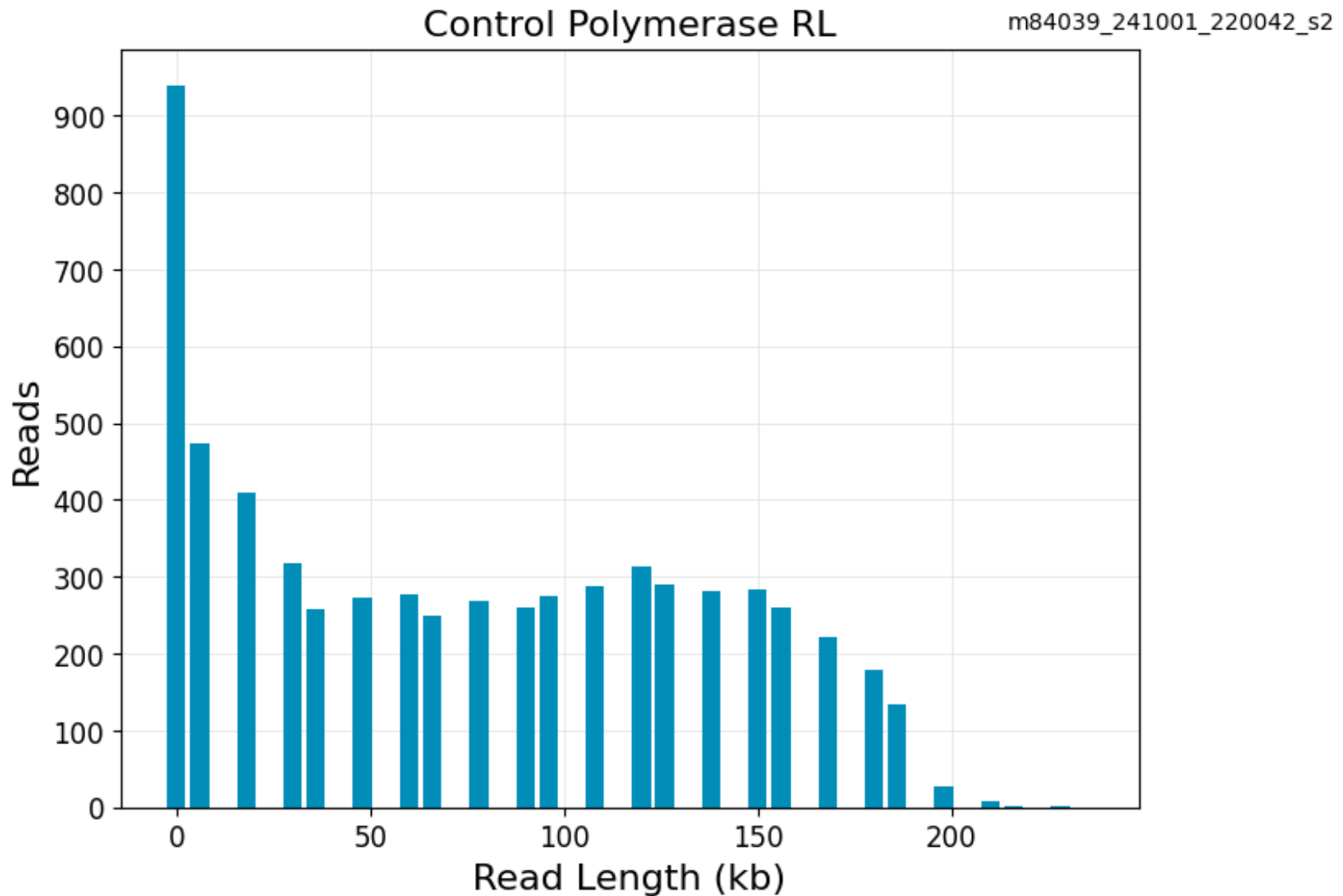


Control Report

Summary Metrics

Number of Control Reads	6,294
Control Read Length Mean	77,774
Control Read Concordance Mean	0.91
Control Read Concordance Mode	0.93

Control Read Length: Control Polymerase RL



Control Read Quality: Control Concordance

