

Report for dataset NS2778-BCP5-Repeat-Cell1 (CCS) (all samples)

Dataset 834b4331-4f2c-4b5a-b07b-65aed873c5b4

Summary

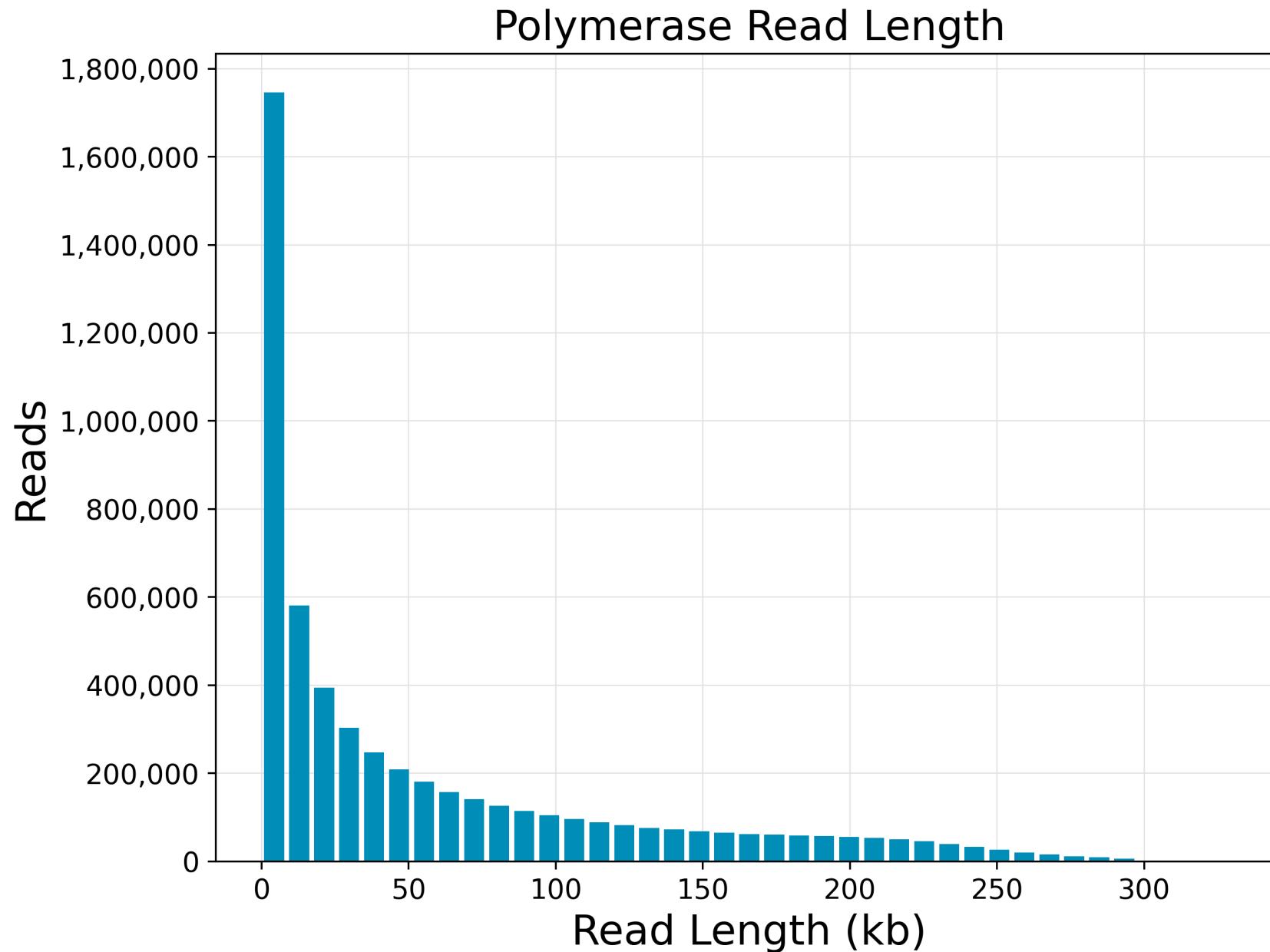
Name	NS2778-BCP5-Repeat-Cell1 (CCS) (all samples)
Created At	2022-07-10 14:14:37.594
Number of Records	3517923
Total Length	4687822285
Movie ID	m64219e_220708_202551
ICS Version	11.0.0.144466
Well Sample	NS2778-BCP5-Repeat
Biological Sample	[multiple]
Barcode Name	[multiple]

Raw Data Report

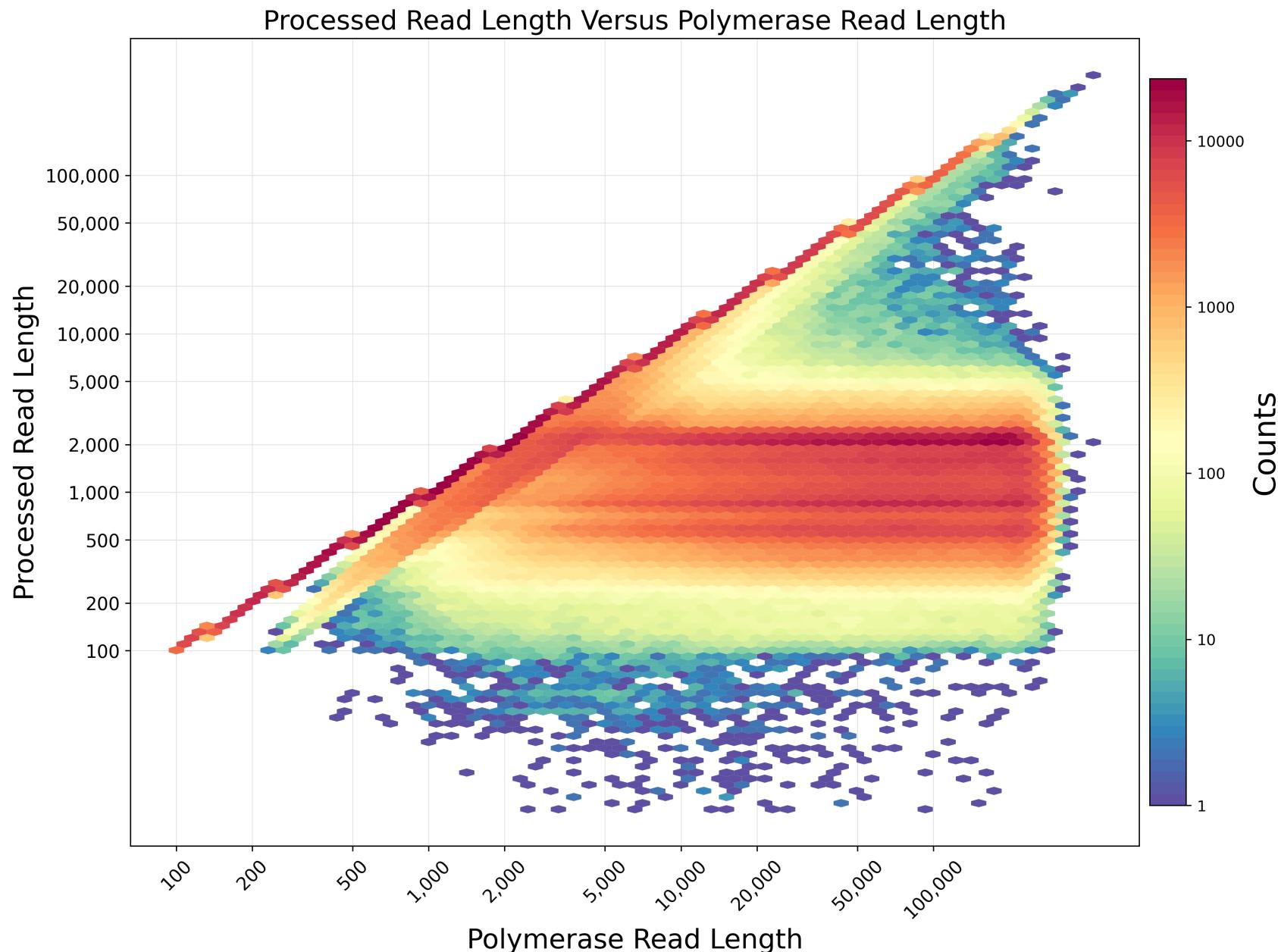
Summary

Polymerase Read Bases	304,724,260,401
Polymerase Reads	5,455,582
Polymerase Read Length (mean)	55,856
Polymerase Read N50	139,250
Longest Subread Length (mean)	4,473
Longest Subread N50	16,750
Unique Molecular Yield	18,429,431,808

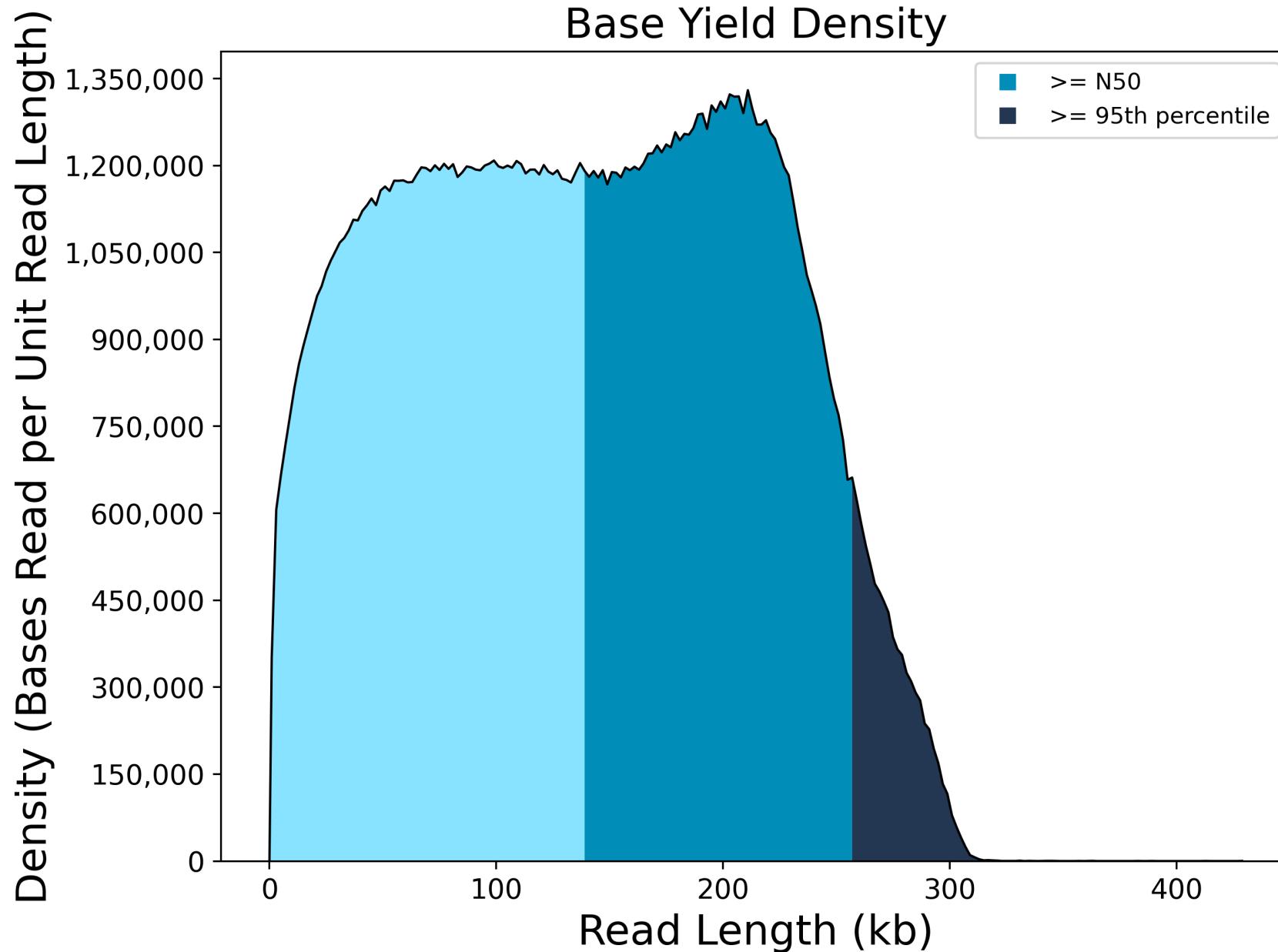
Polymerase Read Length



Longest Subread Length Versus Polymerase Read Length



Base Yield Density



Adapter Report

Summary

Adapter Dimers (0-10bp) %	0
Short Inserts (11-100bp) %	0.06
Local Base Rate	2.28

Barcodes

Summary

Unique Barcodes	5
Barcode Reads	3,517,923
Mean Reads	703,584
Max. Reads	1,131,466
Min. Reads	100,583
Mean Read Length	1,332
Unbarcoded Reads	1,904,262
Percent Bases in Barcoded Reads	0.25787027360153175
Percent Barcoded Reads	0.6488017284544884

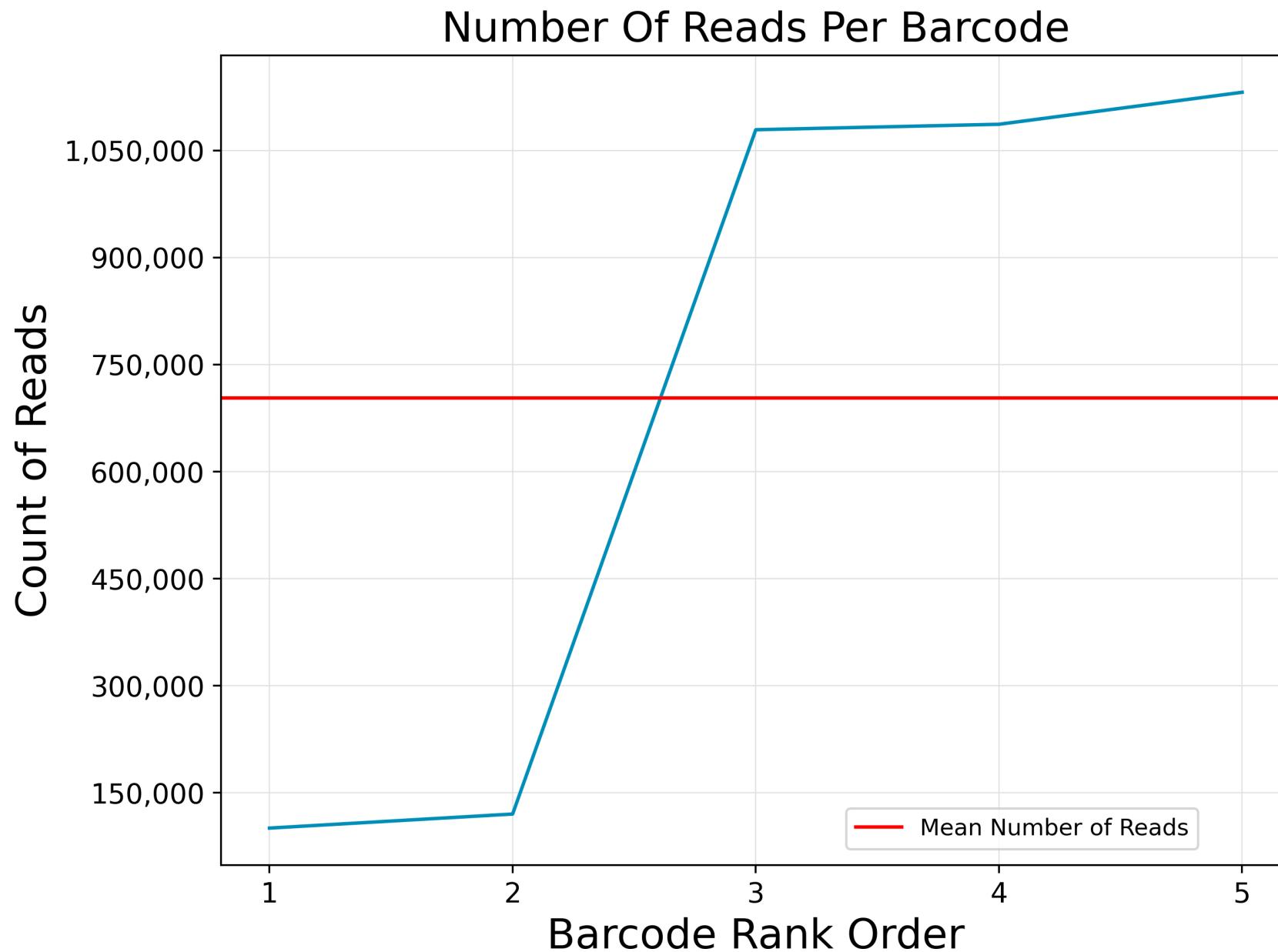
Barcode Data

Bio Sample Name	Barcode Name	Polymerase Reads	Bases	Mean Read Length	Mean Barcode Quality
ACLU0243	bc1001--bc1001	100583	172398622	1713	98.0
ACLU0248	bc1002--bc1002	120279	188690063	1568	98.0
ACLU0102	bc1003--bc1003	1131466	1430908365	1264	98.0
ACLU0128	bc1008--bc1008	1086615	1438896936	1324	98.0
ACLU0232	bc1009--bc1009	1078980	1456928299	1350	98.0
No Name	Not Barcoded	1904262	13491172213	7084	0.0

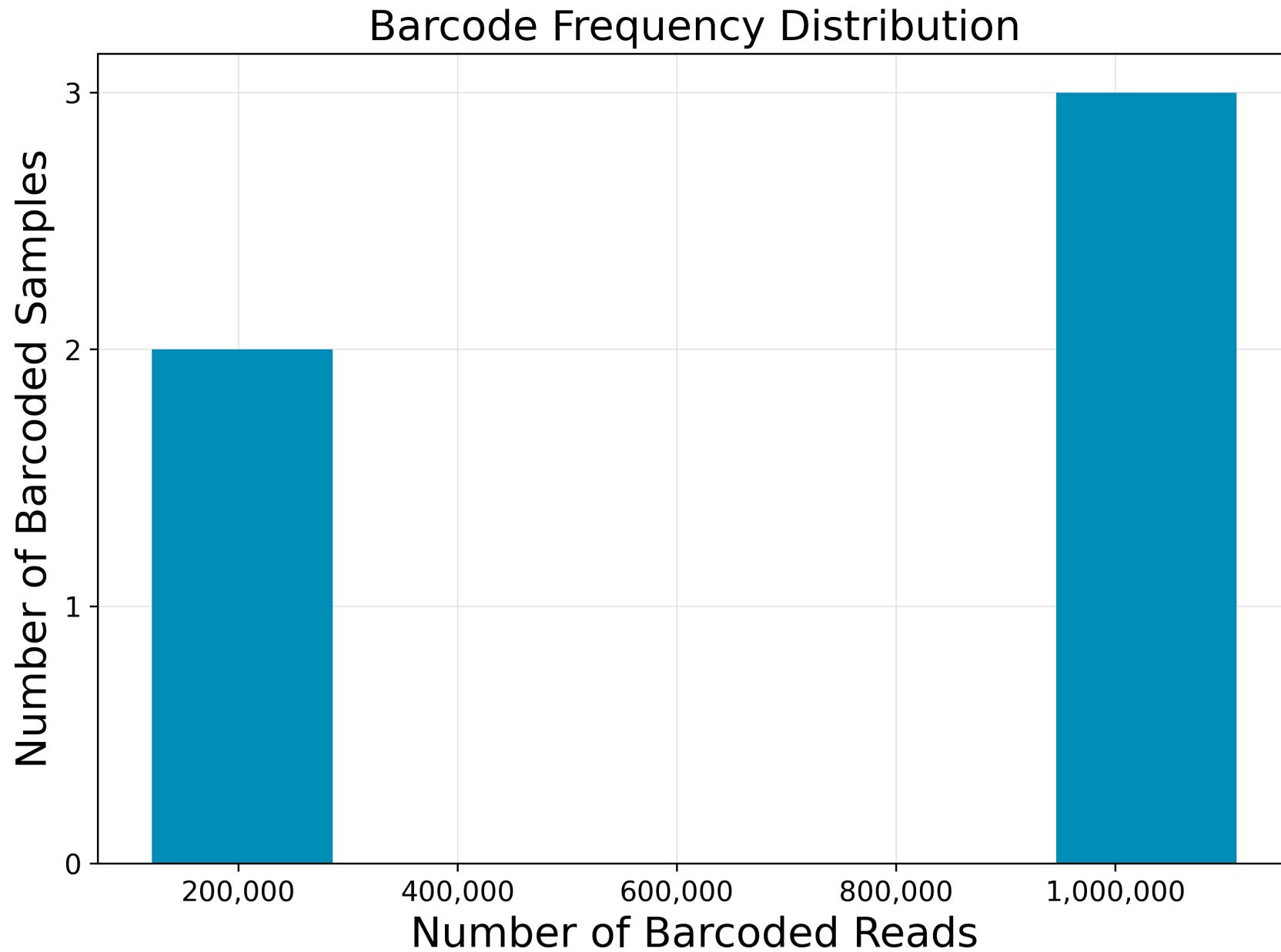
Inferred Barcodes

Barcode Name	Number of ZMWs	Mean Barcode Score
bc1001--bc1001	1144.0	98.0
bc1002--bc1002	1324.0	98.0
bc1003--bc1003	14433.0	98.0
bc1008--bc1008	13761.0	98.0
bc1009--bc1009	13319.0	98.0

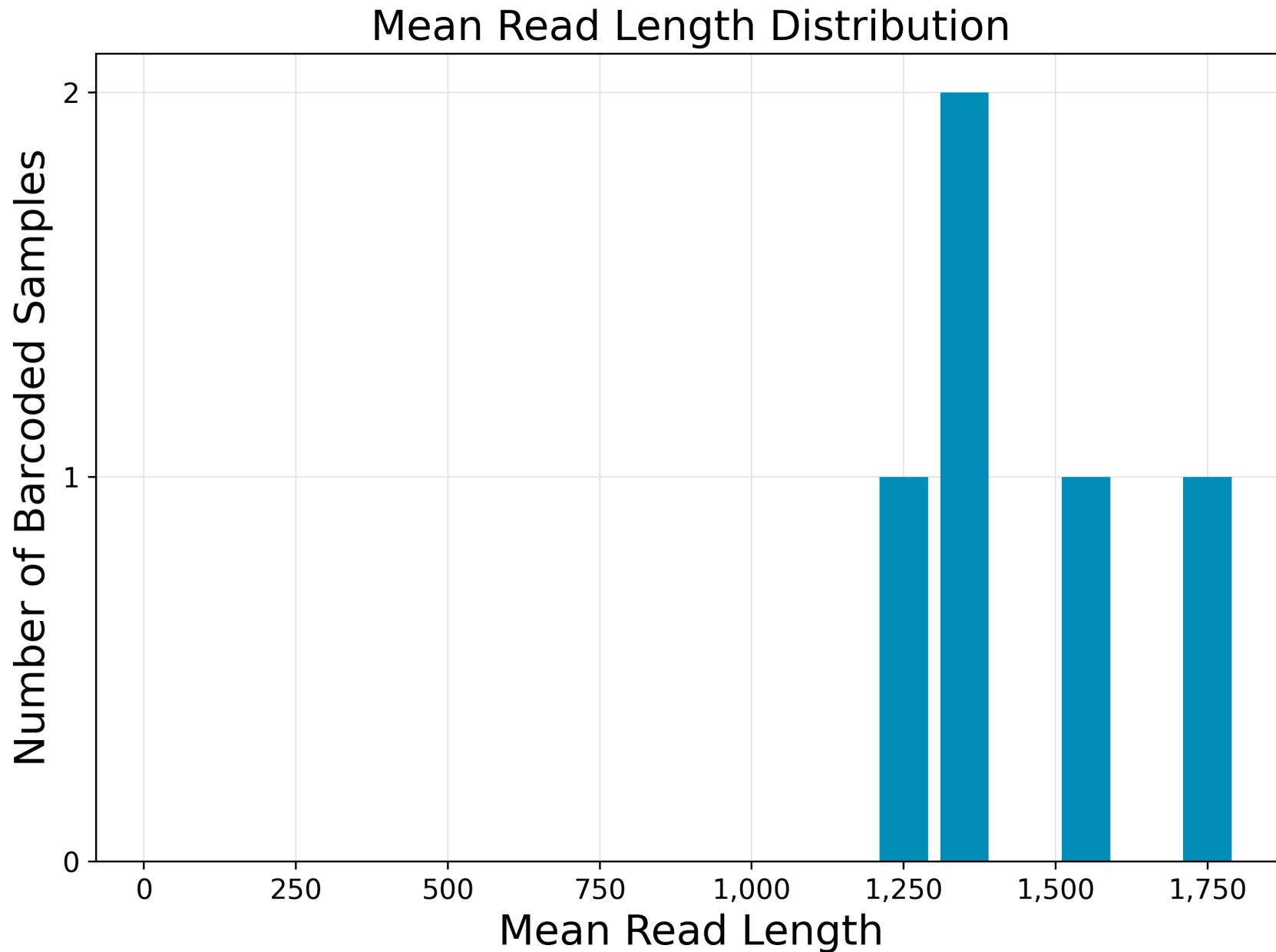
Number Of Reads Per Barcode



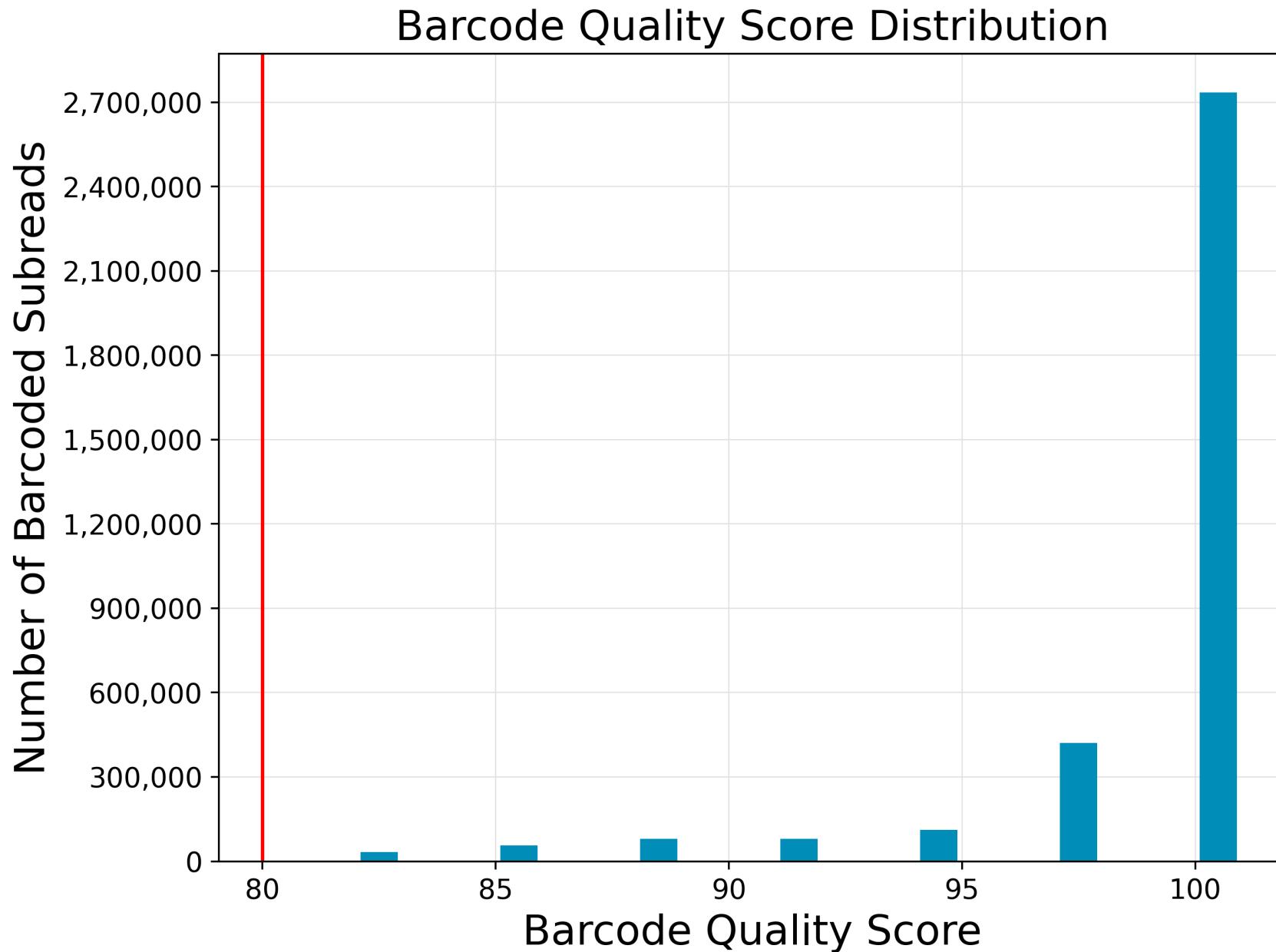
Barcode Frequency Distribution



Mean Read Length Distribution



Barcode Quality Score Distribution



CCS Processing

Summary

ZMWs input	5,422,185
ZMWs pass filters	3,543,547
ZMWs fail filters	210,905
ZMWs shortcut filters	1,667,733
ZMWs with tandem repeats	7,008
Below SNR threshold	49,582
Median length filter	0
Lacking full passes	0
Heteroduplex insertions	28,679
Coverage drops	2,741
Insufficient draft cov	53,980
Draft too different	0
Draft generation error	75,454
Draft above --max-length	0
Draft below --min-length	144
Reads failed polishing	0
Empty coverage windows	35
CCS did not converge	290
CCS below minimum RQ	0
Unknown error	0
ZMWs missing adapters	72,262

Loading Report

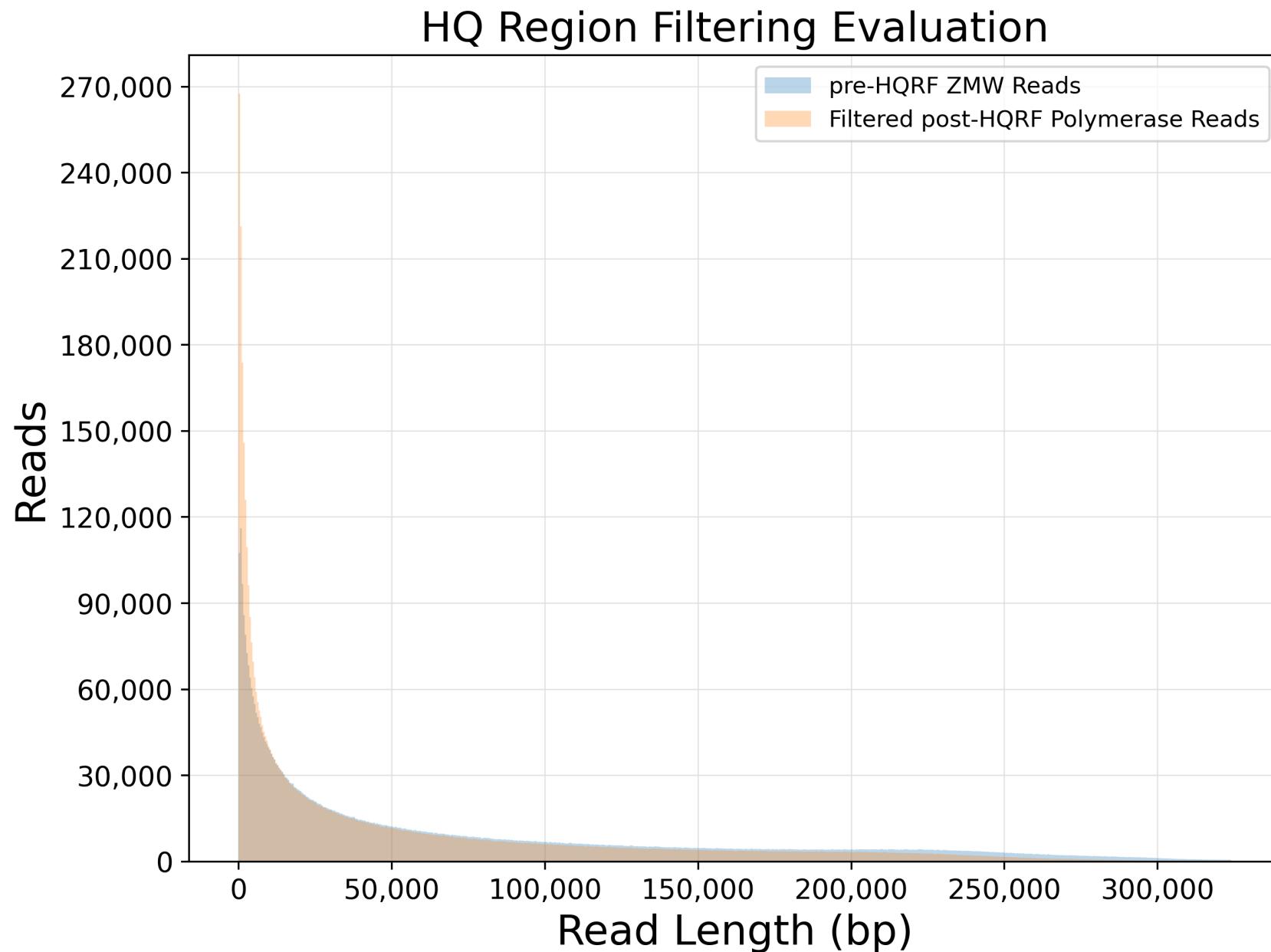
Summary

Productive ZMWs	8,013,827
Productivity 0	2,350,310
Productivity 1	5,456,426
Productivity 2	207,935

Loading Statistics

Collection Context	Productive ZMWs	Productivity 0	(%)	Productivity 1	(%)	Productivity 2	(%)	Loading type
m64219e_220708_202551	8013827	2350310	29.33	5456426	68.08	207935	2.59	Diffusion

HQ Region Filtering Evaluation



CCS Analysis Report

Summary

HiFi Reads	3,297,910
HiFi Yield (bp)	4,321,681,777
HiFi Read Length (mean, bp)	1,310
HiFi Read Quality (median)	Q41
HiFi Read Quality (median)	41
HiFi Number of Passes (mean)	21
<Q20 Reads	245,637
<Q20 Yield (bp)	411,919,176
<Q20 Read Length (mean, bp)	1,676
<Q20 Read Quality (median)	Q16
<Q20 Read Quality (median)	16

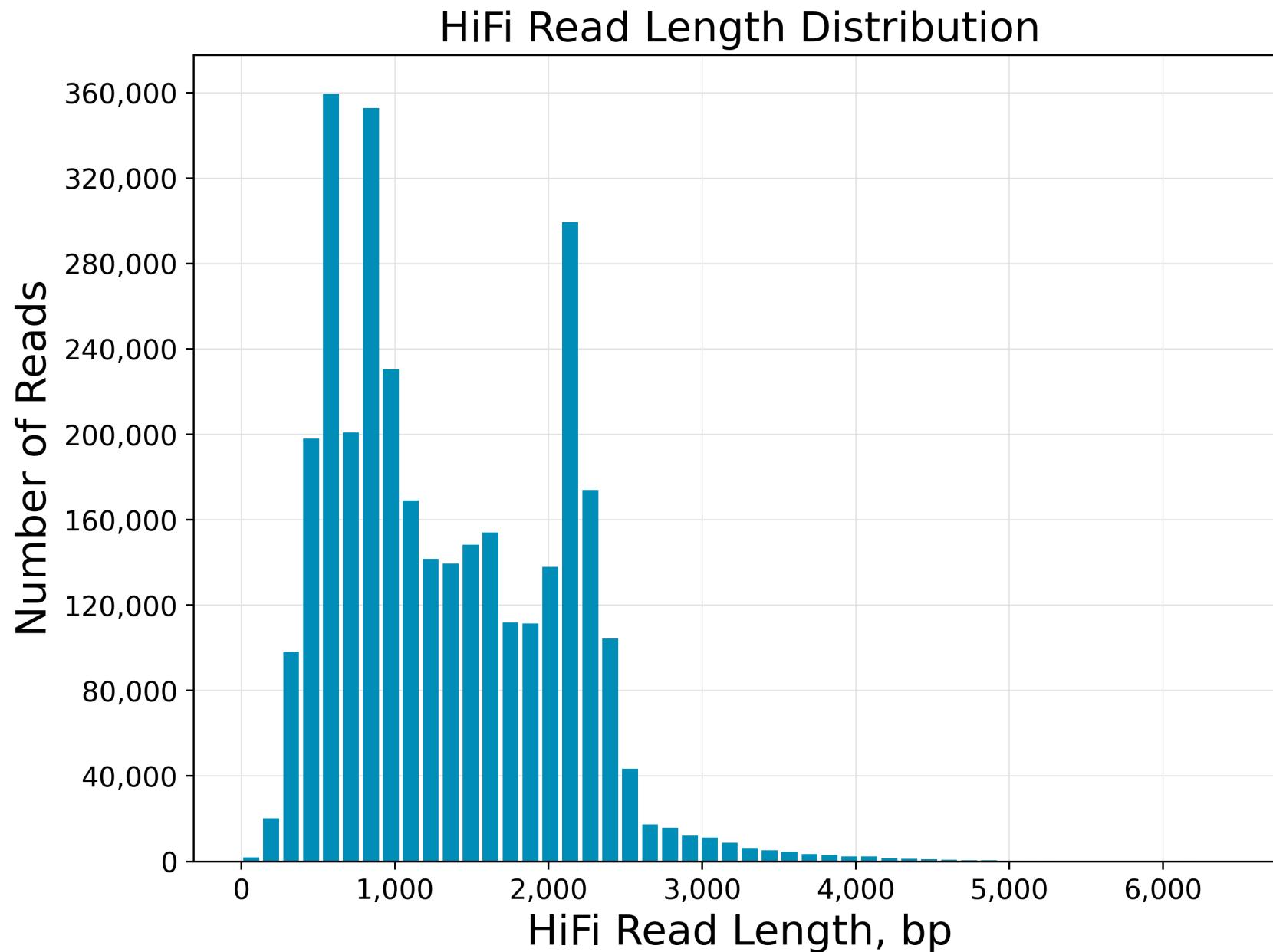
HiFi Read Length Summary

Read Length (bp)	Reads	Reads (%)	Yield (bp)	Yield (%)
0	3297910	100	4321681777	100
5,000	2159	0	12384534	0
10,000	5	0	54692	0
15,000	0	0	0	0
20,000	0	0	0	0
25,000	0	0	0	0
30,000	0	0	0	0
35,000	0	0	0	0
40,000	0	0	0	0

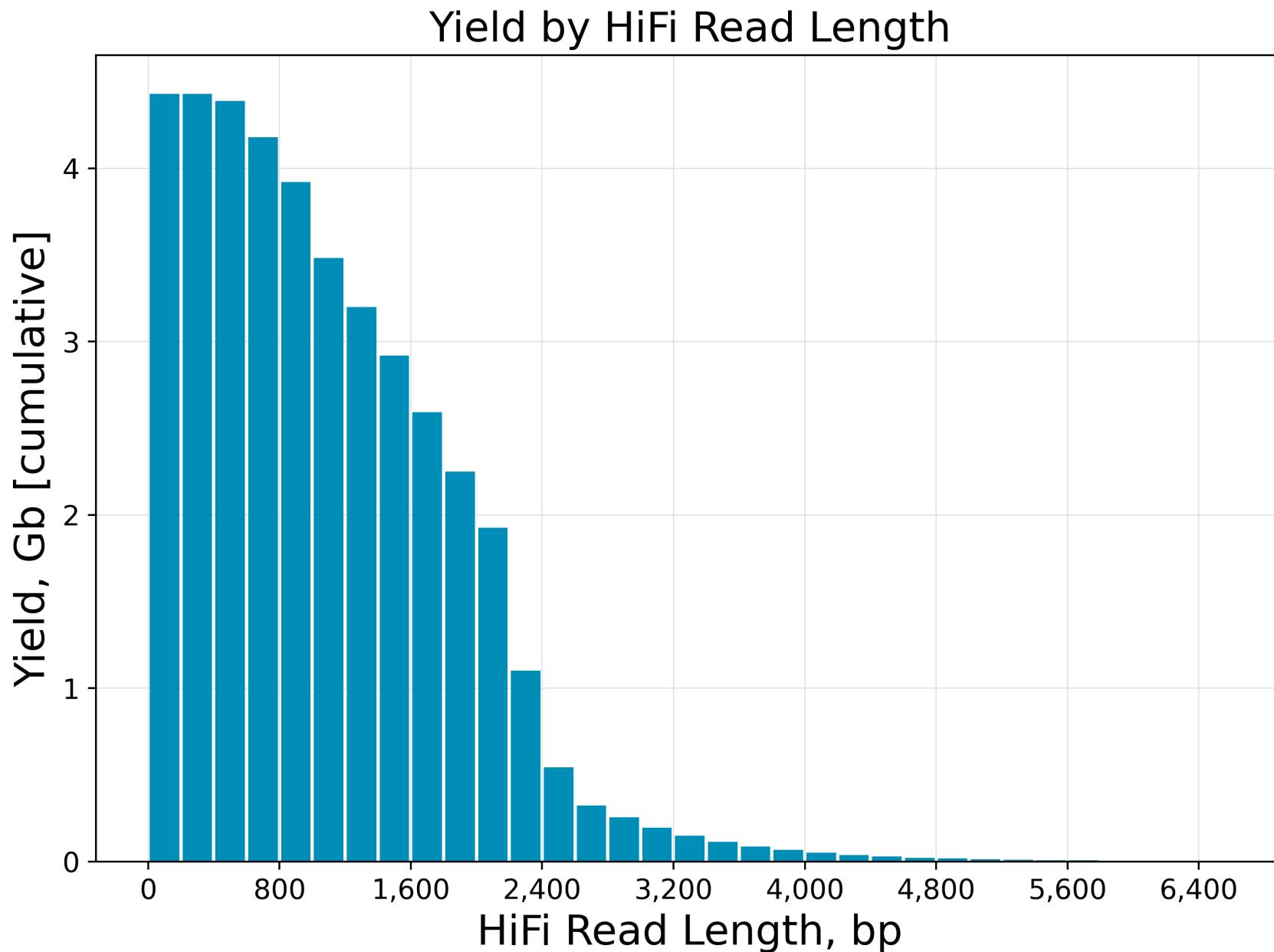
HiFi Read Quality Summary

Read Quality (Phred)	Reads	Reads (%)	Yield (bp)	Yield (%)
Q20	3297910	100	4321681777	100
Q30	2819898	86	3670741781	85
Q40	1716846	52	2184015821	51
Q50	1103612	33	1325520579	31

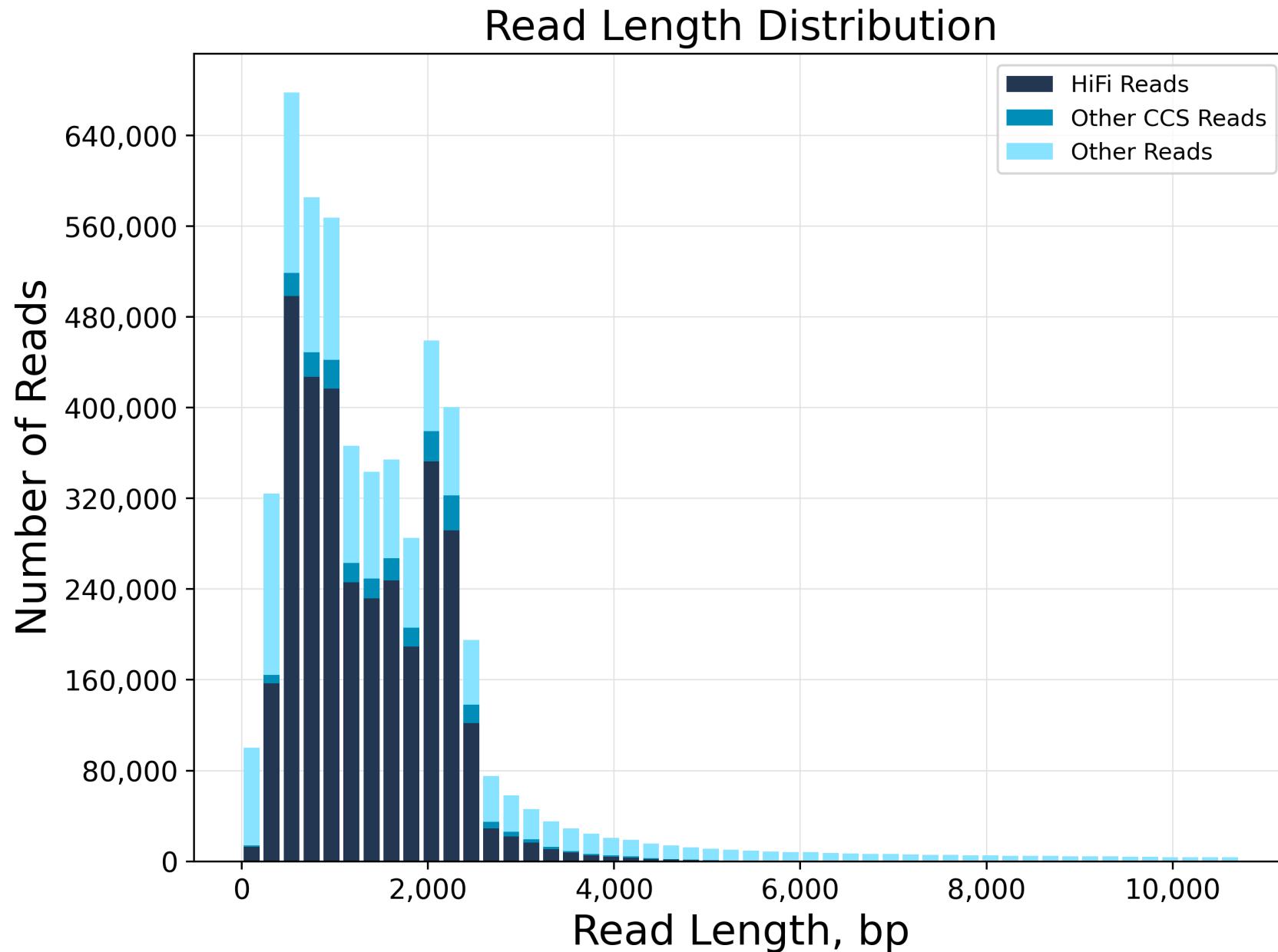
HiFi Read Length Distribution



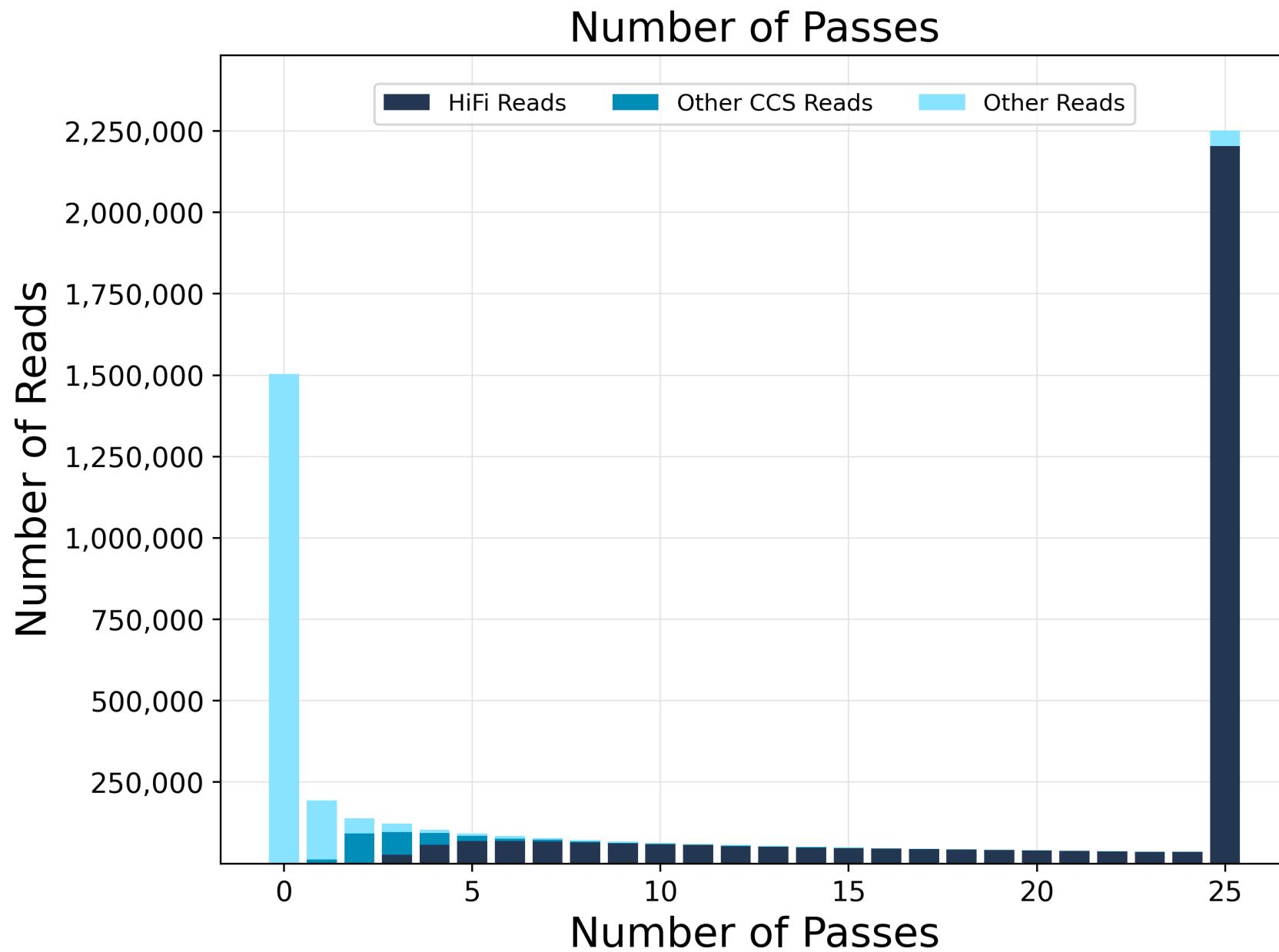
Yield by HiFi Read Length



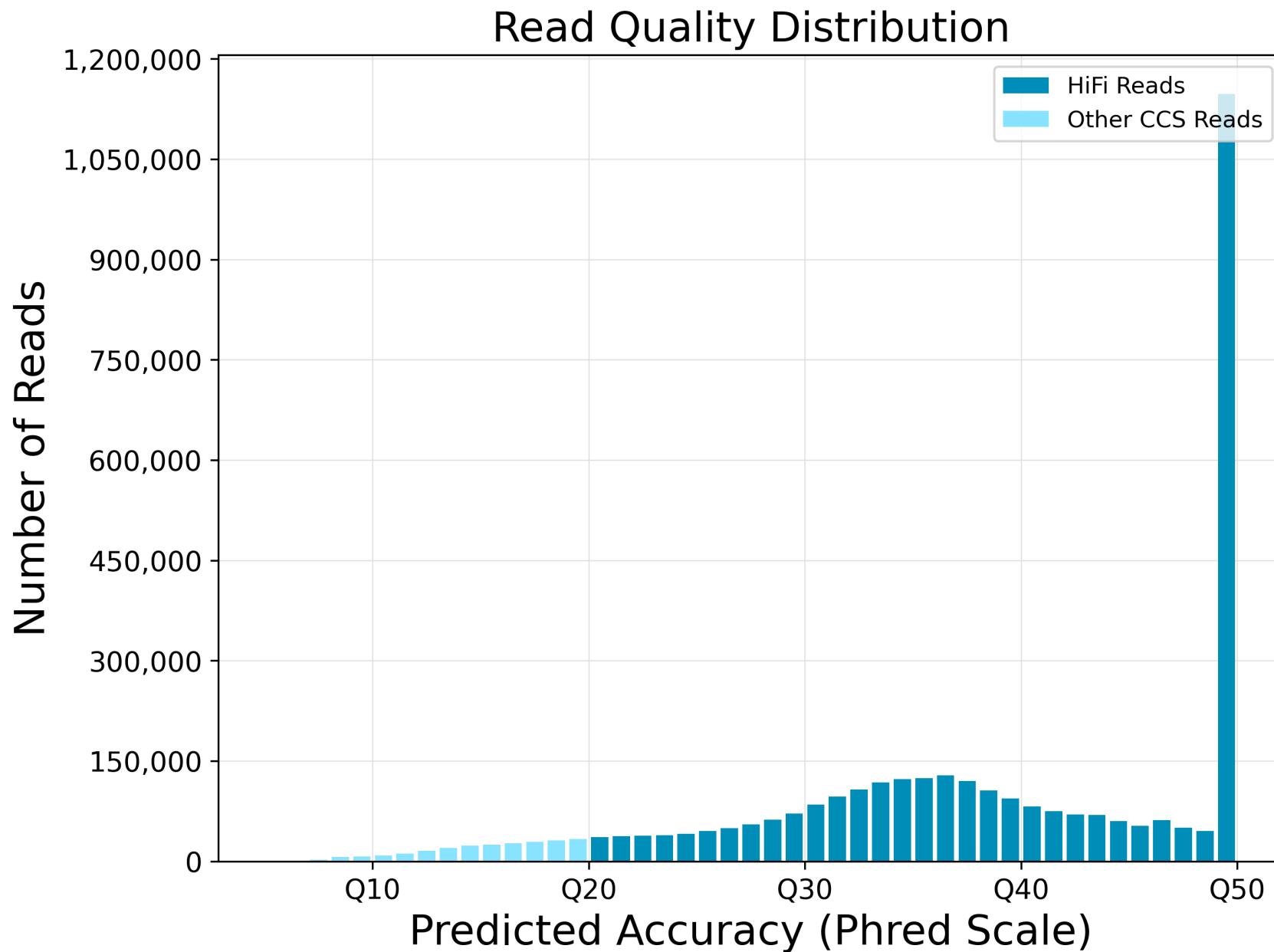
Read Length Distribution



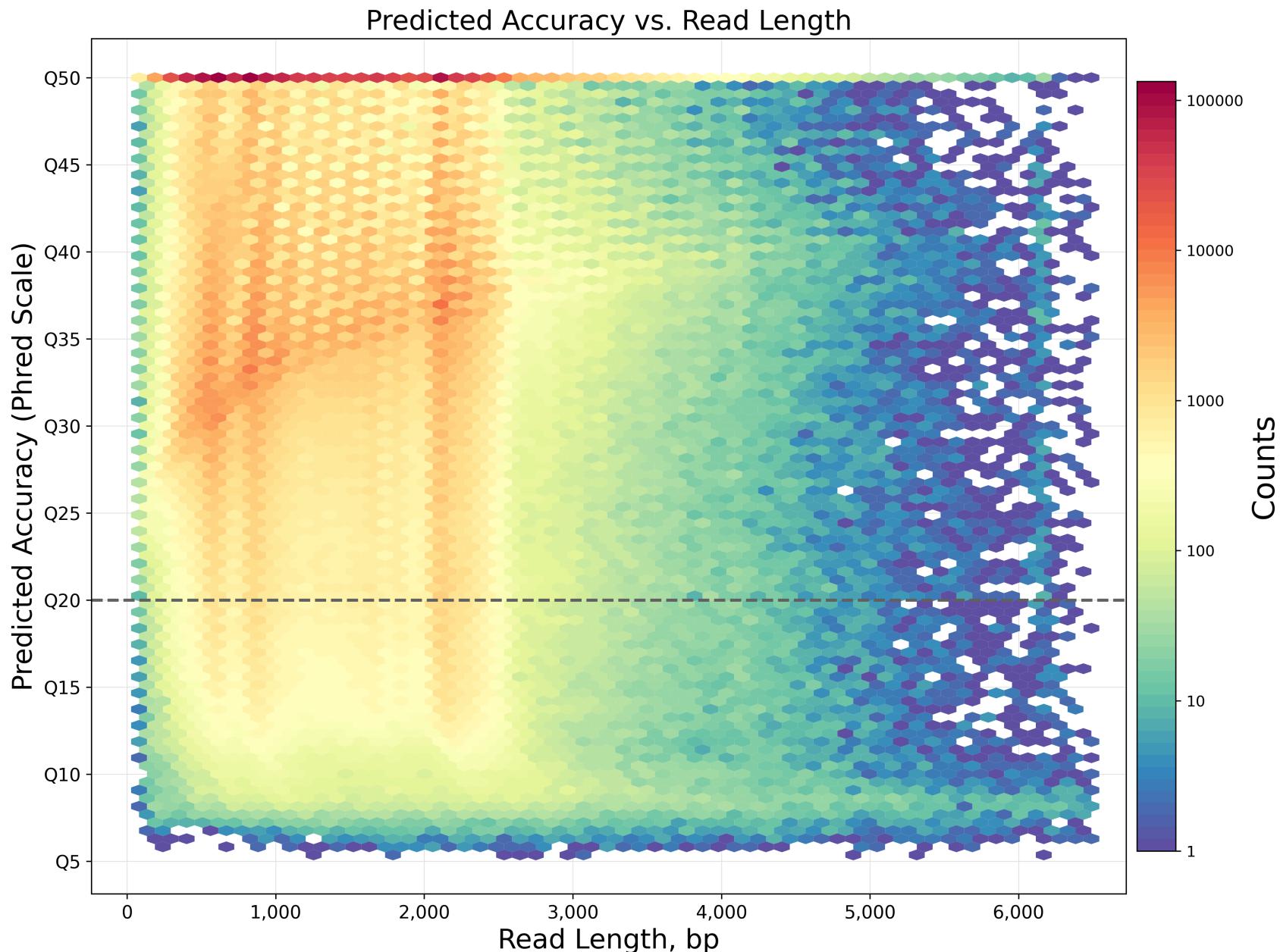
Number of Passes



Read Quality Distribution



Predicted Accuracy vs. Read Length



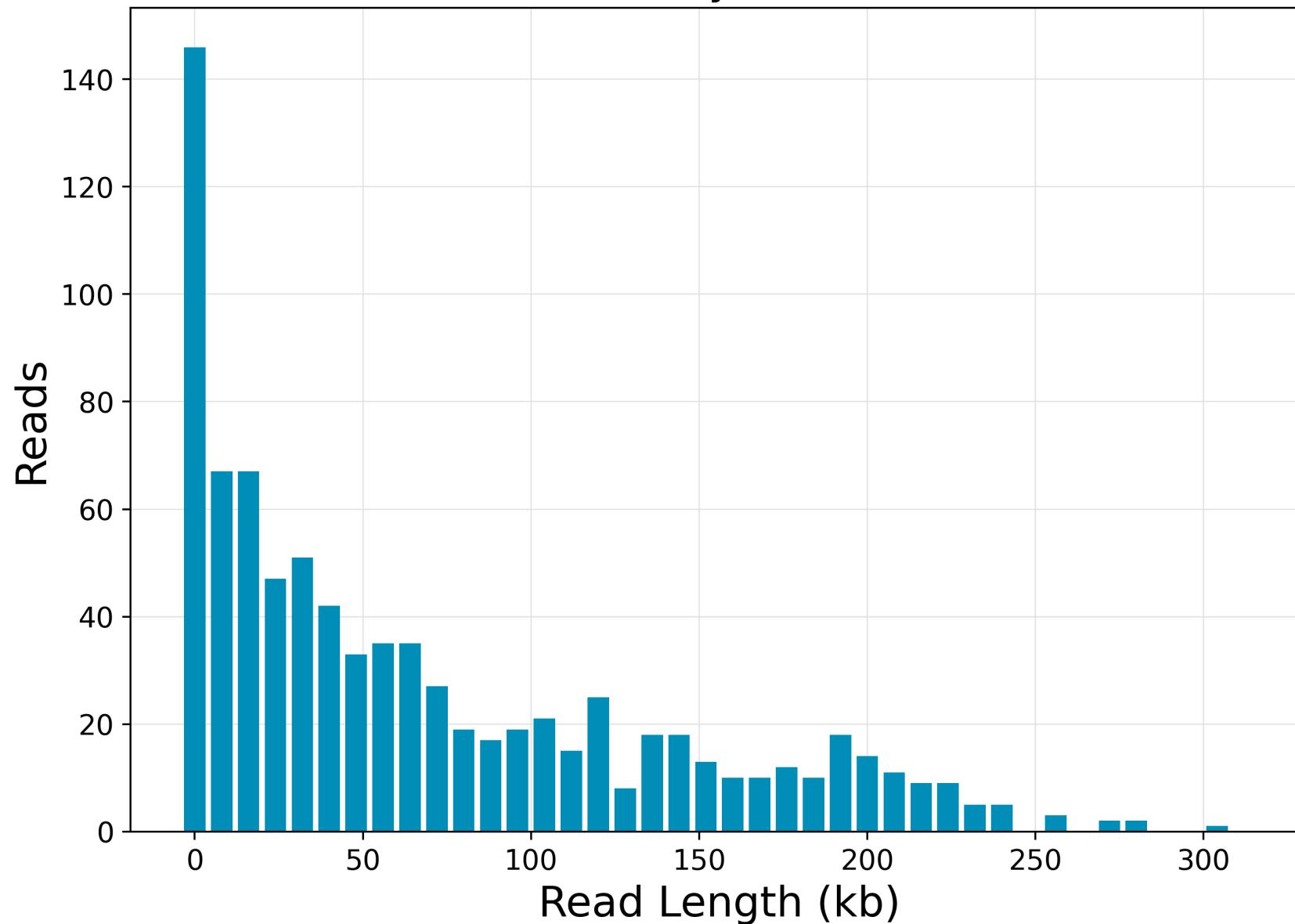
Control Report

Summary

Number of Control Reads	844
Control Read Length Mean	72,370
Control Read Concordance Mean	0.87
Control Read Concordance Mode	0.89

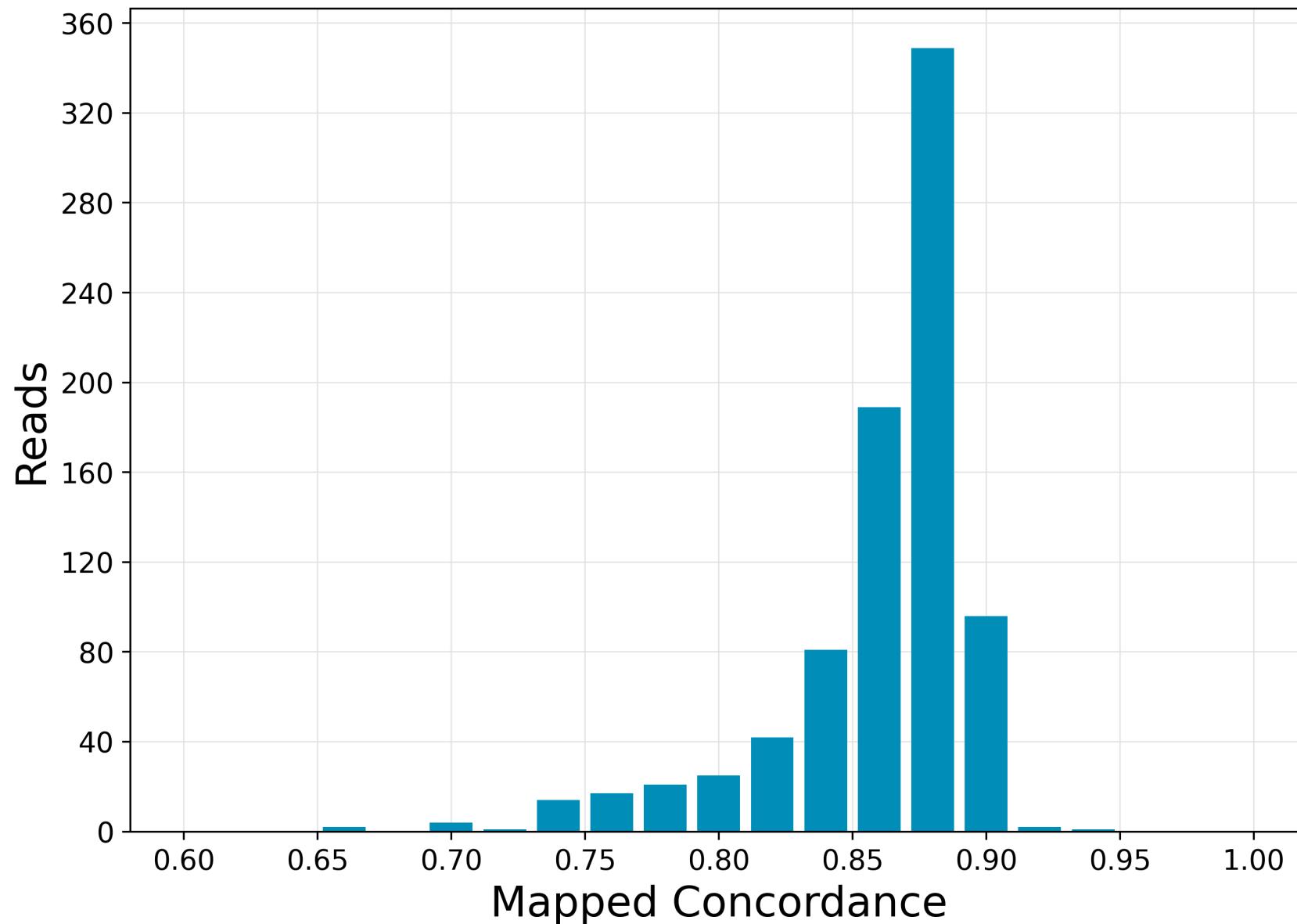
Control Polymerase RL

Control Polymerase RL



Control Concordance

Control Concordance



No Sample Setup found

Instrument run(s)

Run a2ab6d74-846f-430e-a85b-83cadf4be4d8

Summary

Name	SQ64219e-220708-NS2778-Repeat
Status	COMPLETE
Created	2022-07-08 19:10:17.783
Started	2022-07-08 20:15:54.108
Completed	2022-07-10 07:43:12.436
Context	r64219e_20220708_201513
Instrument Name	64219e
Instrument Serial Number	64219e
ICS Version	11.0.0.144466
Primary Analysis Version	11.0.0.144466
Chemistry Version	11.0.0.143406

Parent jobs (1)

Job 422

Summary

Job Type	import-dataset
Pipeline	cromwell.workflows.sl_dataset_reports
Name	import-dataset
Comments	Description for job Import PacBio DataSet
Created At	2022-07-10 14:16:17.826
SMRT Link Version	11.0.0.146107

Job 422: Barcoding Inferred Barcodes Report

Inferred Barcodes

Barcode Name	#ZMWs	Mean Barcode Score
bc1001--bc1001	1144.0	98.0
bc1002--bc1002	1324.0	98.0
bc1003--bc1003	14433.0	98.0
bc1008--bc1008	13761.0	98.0
bc1009--bc1009	13319.0	98.0

No child jobs found