

Report for dataset NS2497-ACLU0235-021022-Cell1 (CCS)

Dataset 4d47f990-dddb-411a-bd4e-7e2336101379

Summary

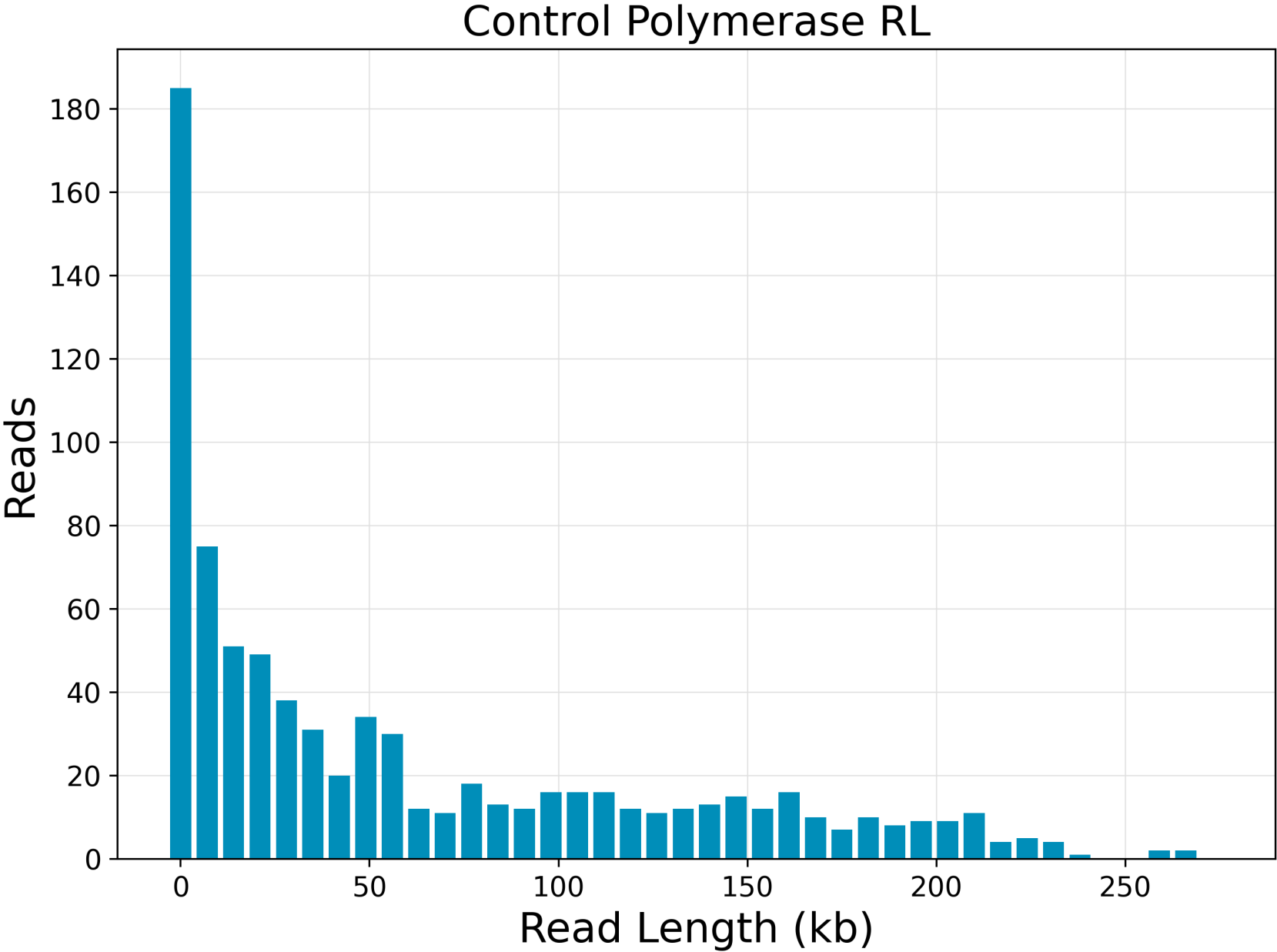
Name	NS2497-ACLU0235-021022-Cell1 (CCS)
Created At	2022-02-12 15:02:41.559
Number of Records	5265100
Total Length	57572456473
Movie ID	m64219e_220210_175238
ICS Version	10.1.0.119549
Well Sample	NS2497-ACLU0235-021022
Biological Sample	ACLU0235

Control Report

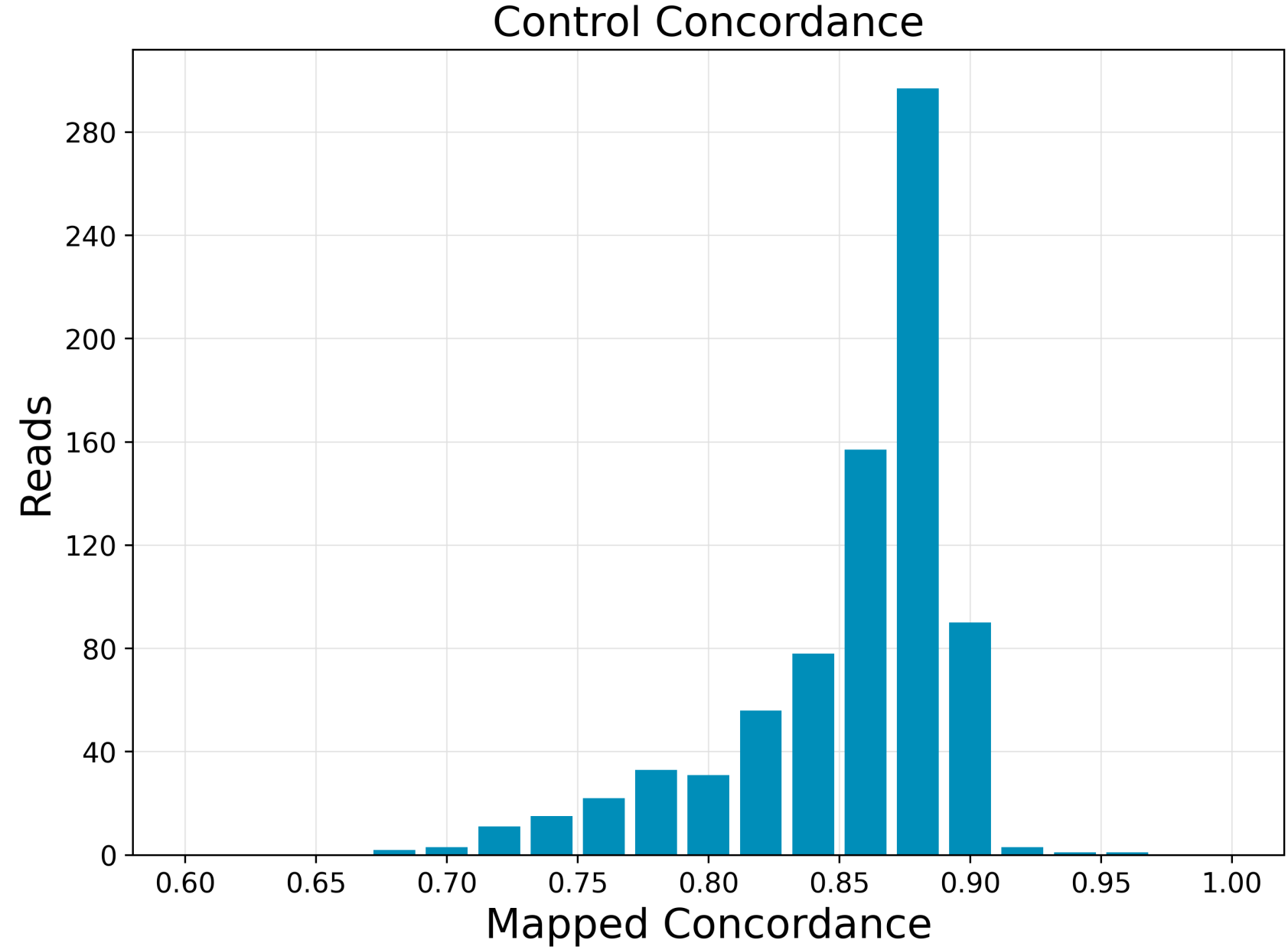
Summary

Number of of Control Reads	800
Control Read Length Mean	63,099
Control Read Concordance Mean	0.86
Control Read Concordance Mode	0.89

Control Polymerase RL



Control Concordance



CCS Analysis Report

Summary

HiFi Reads	2,698,938
HiFi Yield (bp)	20,631,192,176
HiFi Read Length (mean, bp)	7,644
HiFi Read Quality (median)	Q41
HiFi Read Quality (median)	41
HiFi Number of Passes (mean)	17
<Q20 Reads	309,715
<Q20 Yield (bp)	2,631,182,424
<Q20 Read Length (mean, bp)	8,495
<Q20 Read Quality (median)	Q16
<Q20 Read Quality (median)	16

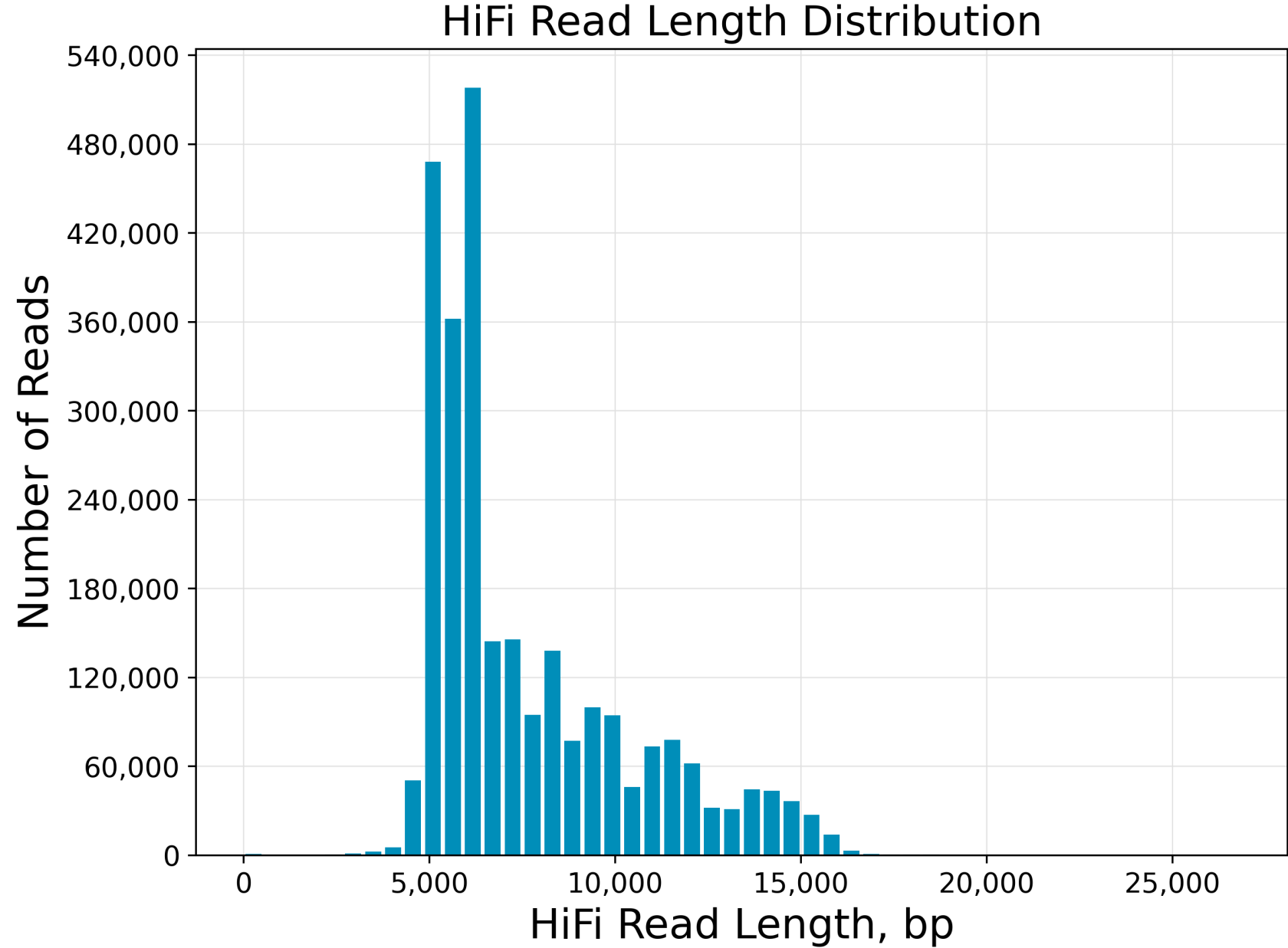
HiFi Read Length Summary

Read Length (bp)	Reads	Reads (%)	Yield (bp)	Yield (%)
0	2698938	100	20631192176	100
5,000	2502502	93	19692259928	95
10,000	524183	19	6565327143	32
15,000	49254	2	779427901	4
20,000	1329	0	31145426	0
25,000	308	0	8749227	0
30,000	83	0	2705806	0
35,000	15	0	558314	0
40,000	1	0	40559	0

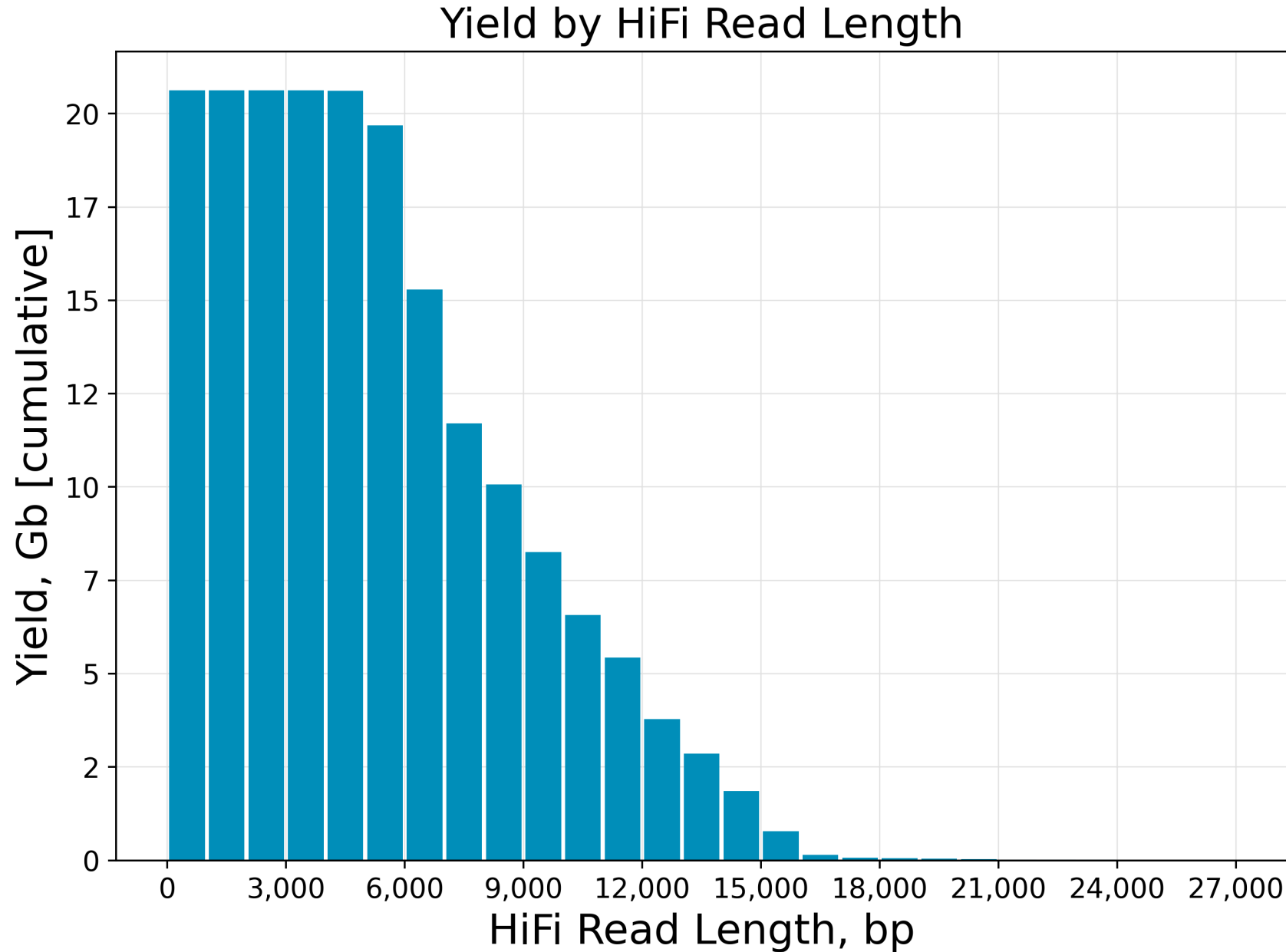
HiFi Read Quality Summary

Read Quality (Phred)	Reads	Reads (%)	Yield (bp)	Yield (%)
Q20	2698938	100	20631192176	100
Q30	2184379	81	16330618985	79
Q40	1479519	55	10356615790	50
Q50	846276	31	5326940196	26

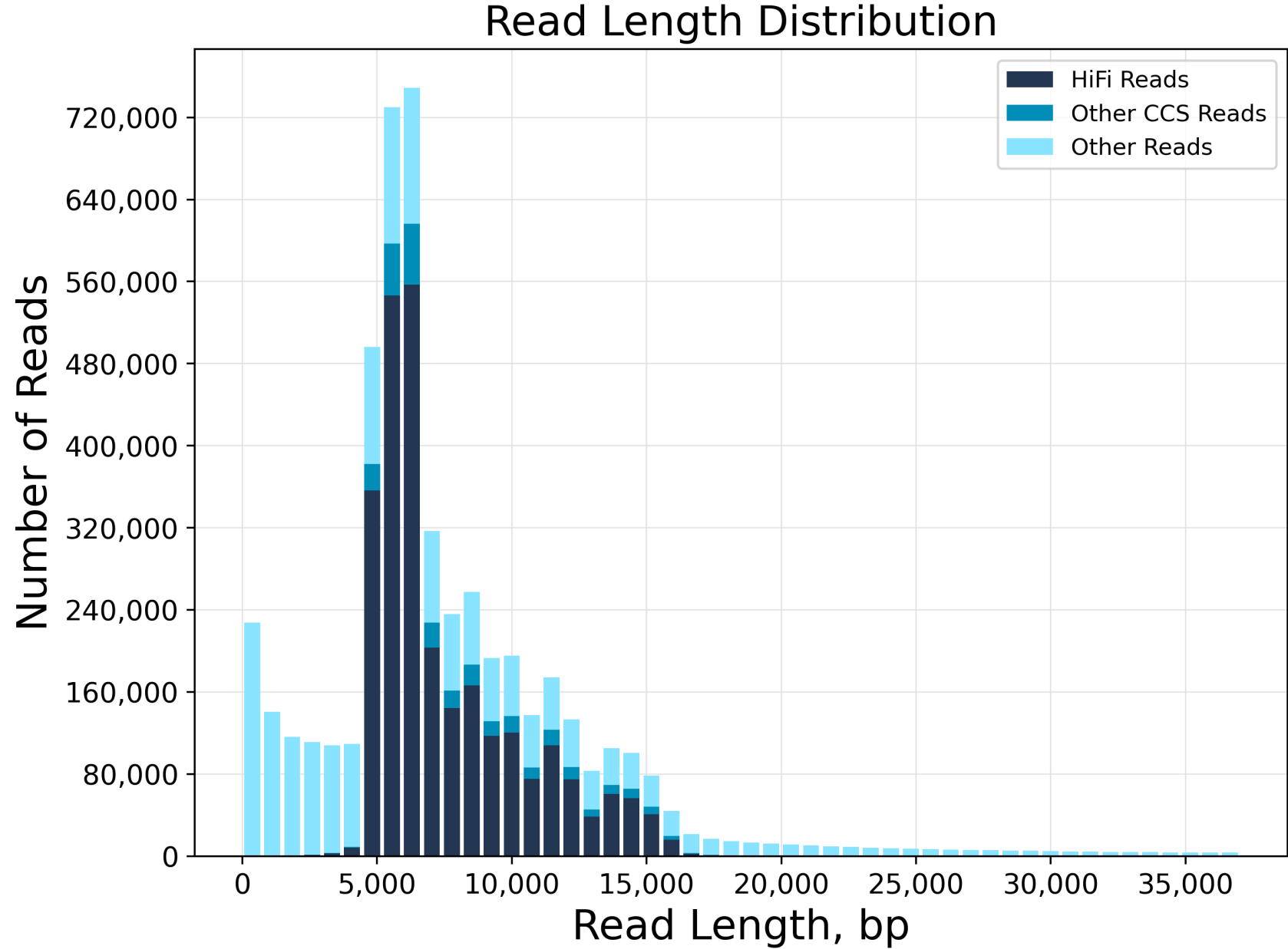
HiFi Read Length Distribution



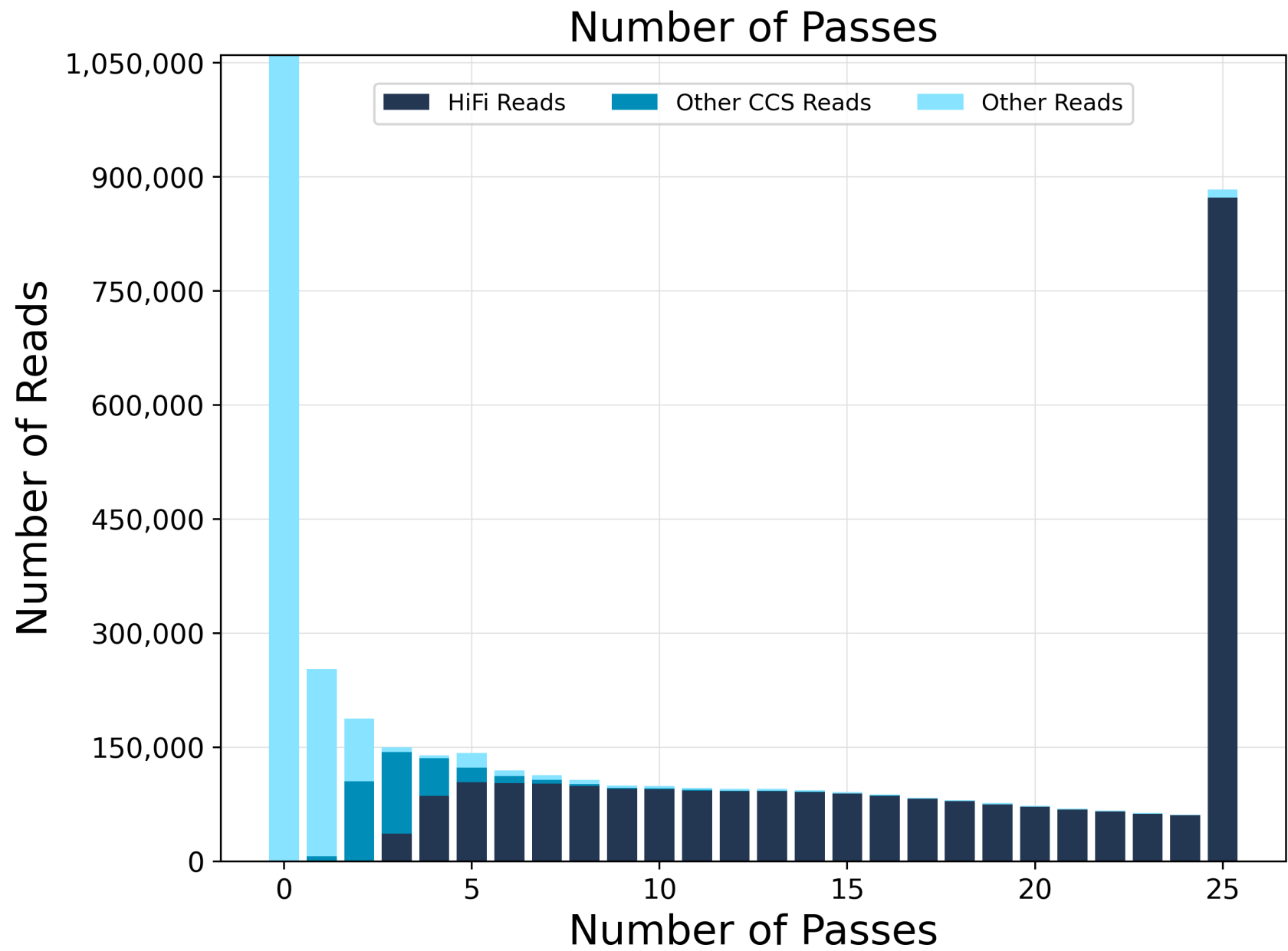
Yield by HiFi Read Length



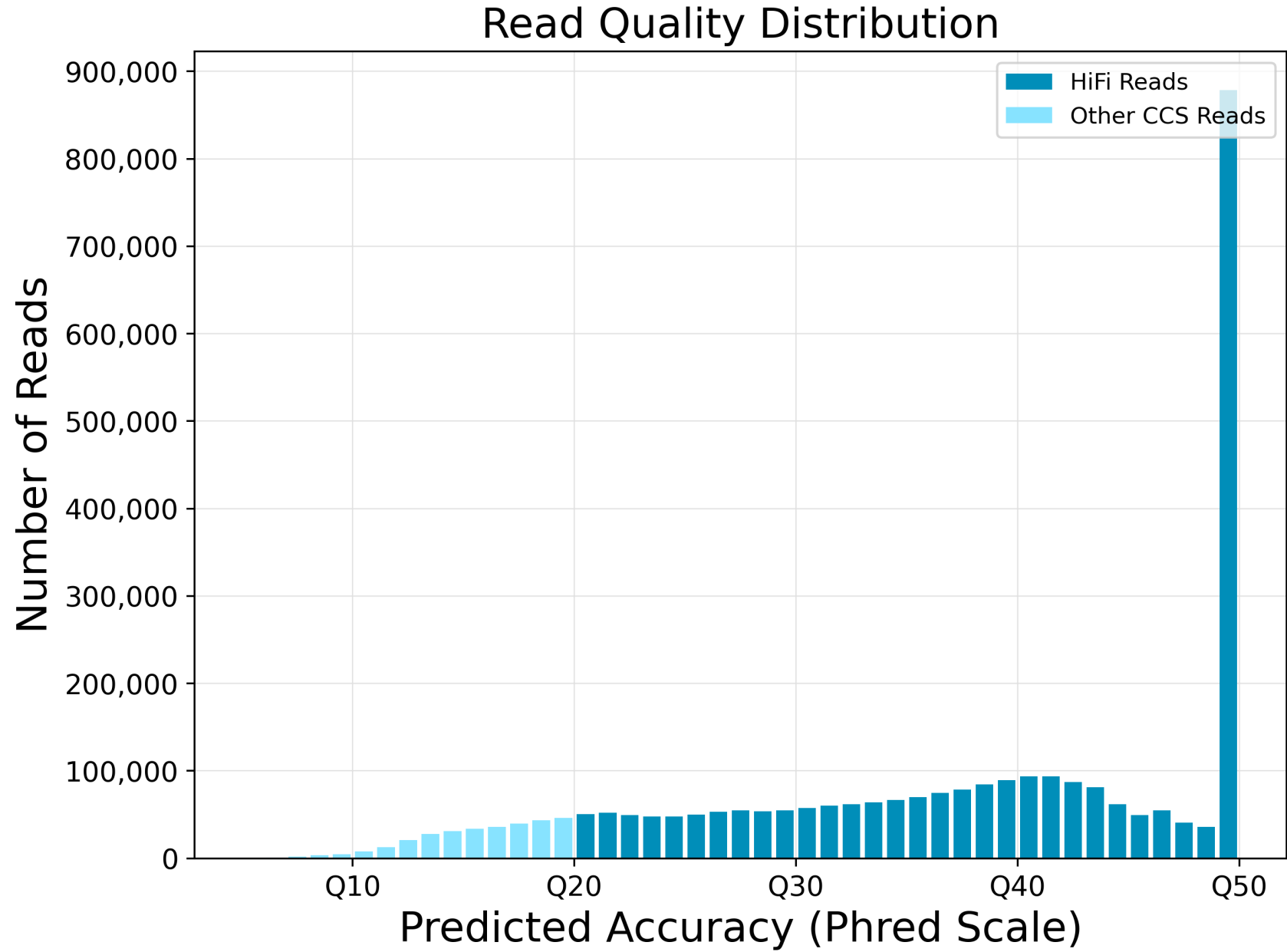
Read Length Distribution



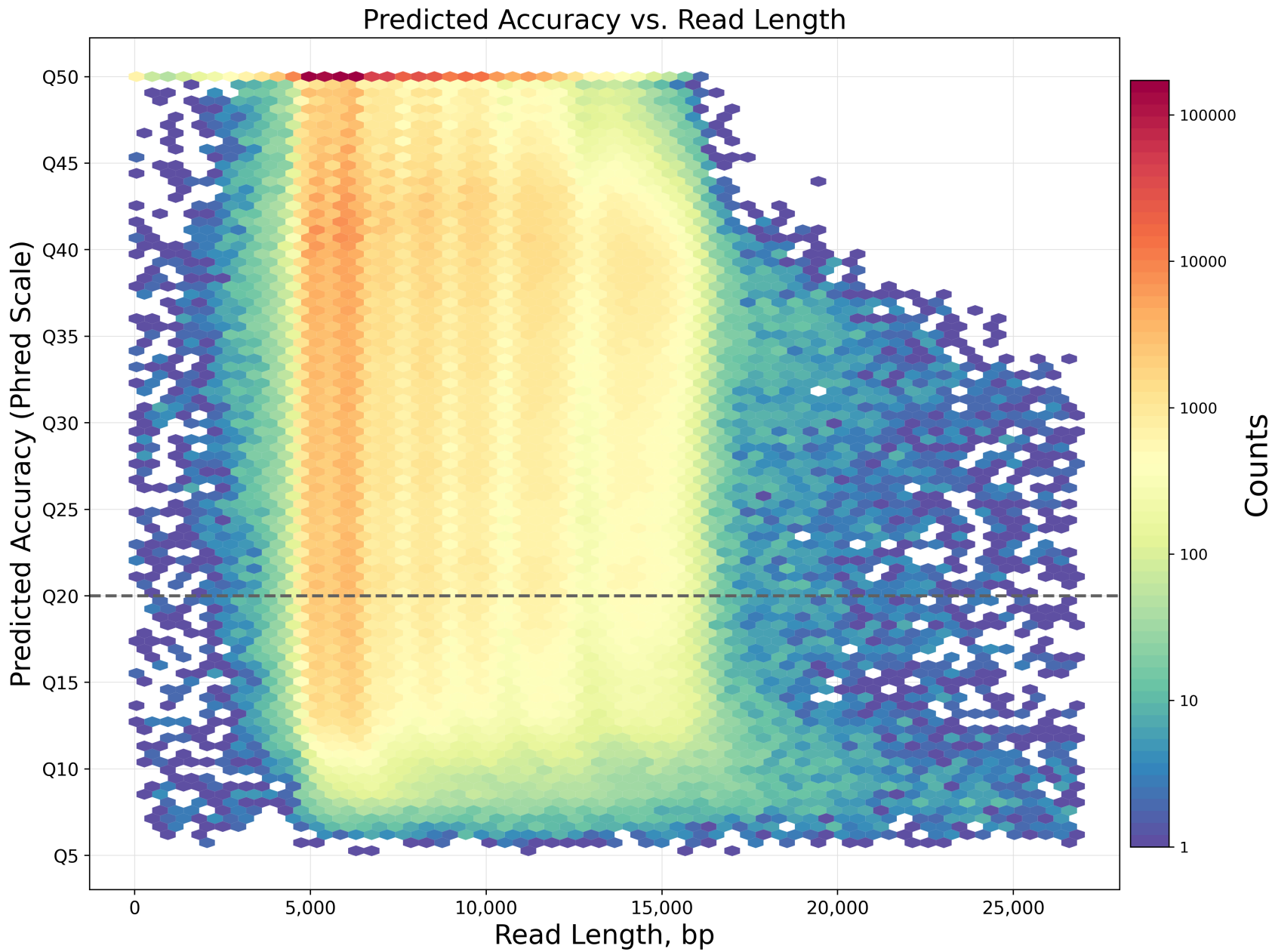
Number of Passes



Read Quality Distribution



Predicted Accuracy vs. Read Length



Loading Report

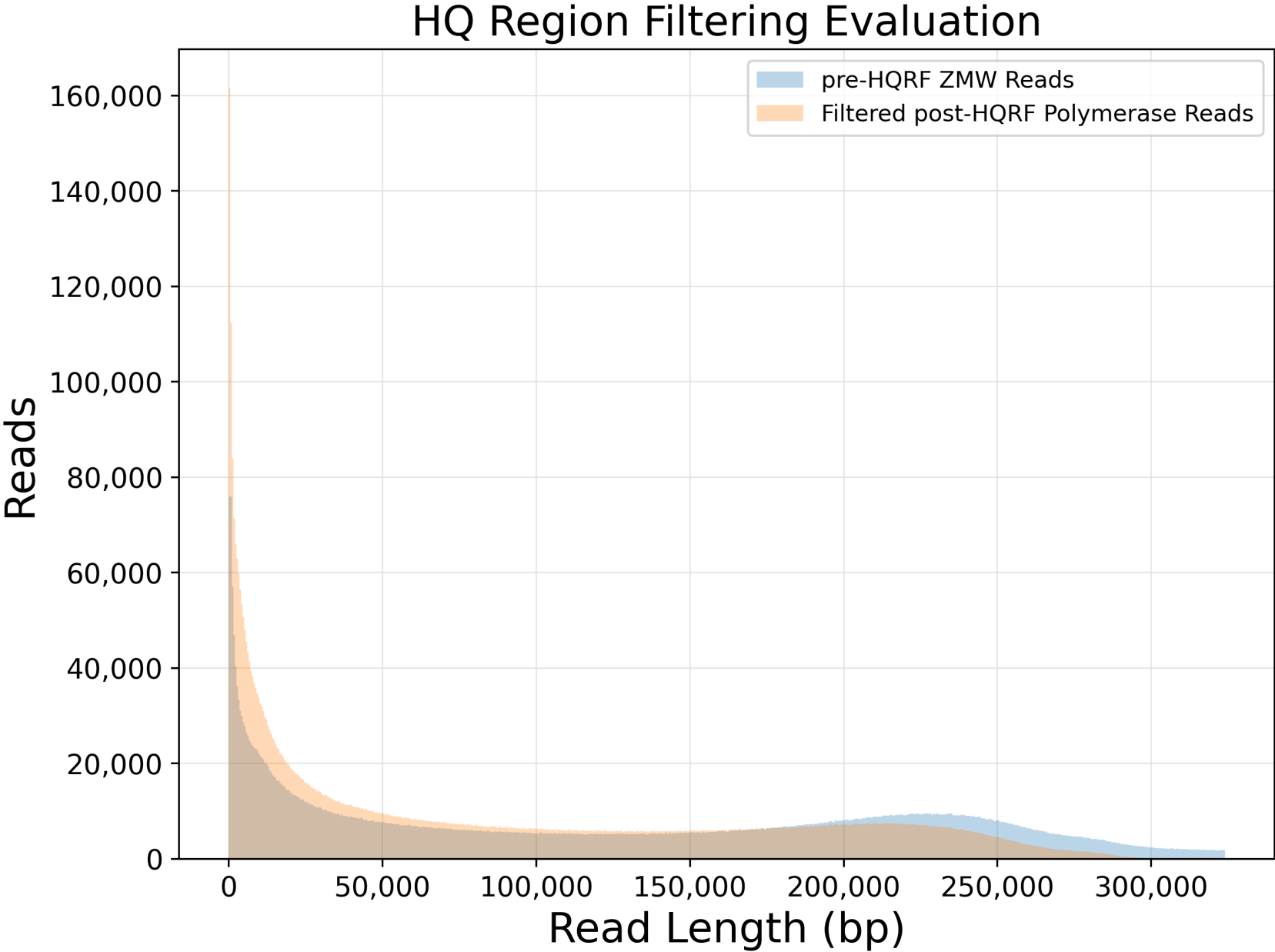
Summary

Productive ZMWs	8,013,871
Productivity 0	2,386,314
Productivity 1	5,266,120
Productivity 2	362,237

Loading Statistics

Collection Context	Productive ZMWs	Productivity 0	(%)	Productivity 1	(%)	Productivity 2	(%)	Loading type
m64219e_220210_175238	8013871	2386314	29.77	5266120	65.71	362237	4.52	Diffusion

HQ Region Filtering Evaluation



Adapter Report

Summary

Adapter Dimers (0-10bp) %	0
Short Inserts (11-100bp) %	0.02
Local Base Rate	2.12

CCS Processing

Summary

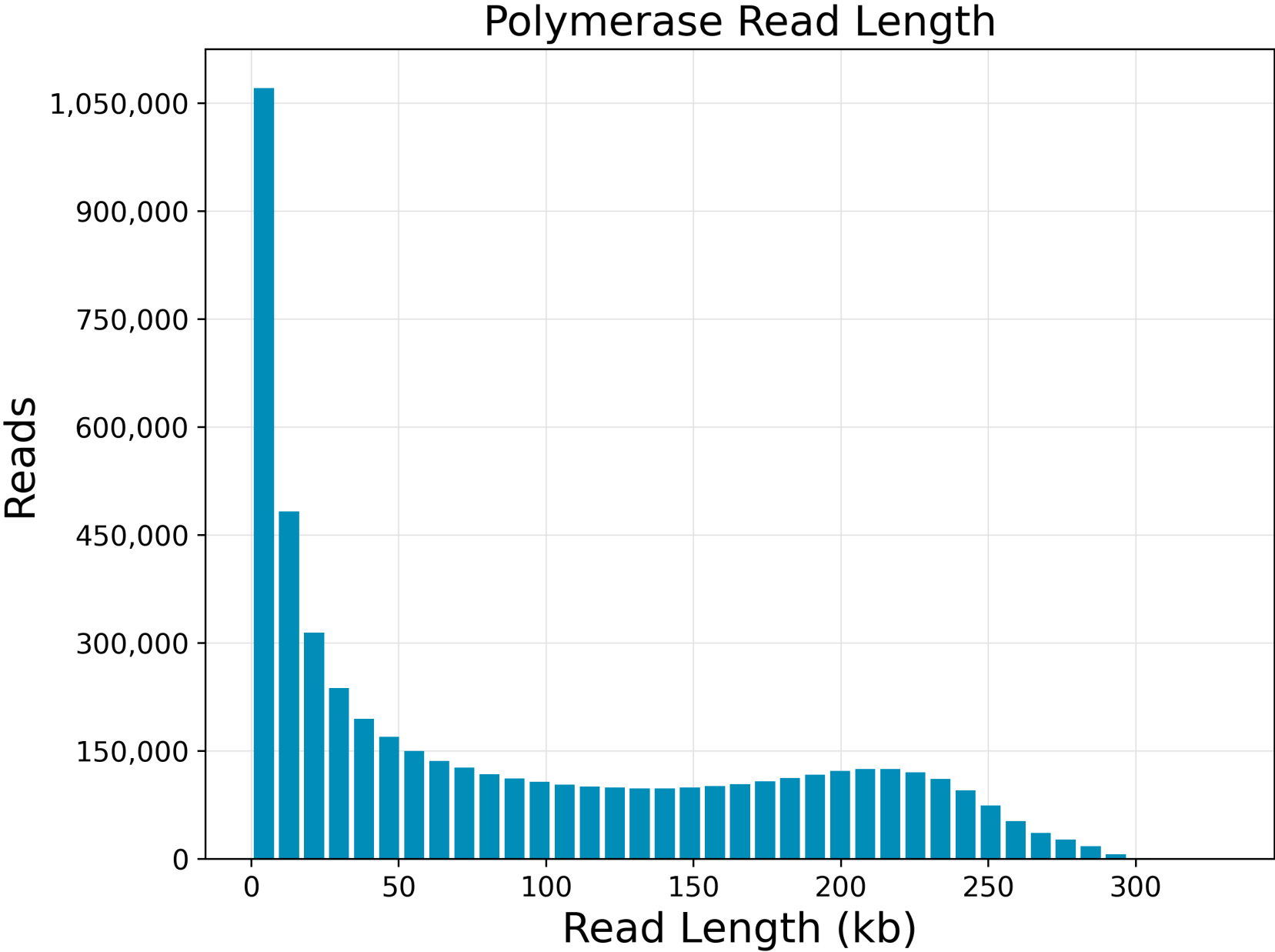
ZMWs input	5,265,100
ZMWs pass filters	3,008,653
ZMWs fail filters	2,256,447
ZMWs shortcut filters	2,048,106
ZMWs with tandem repeats	15,984
Below SNR threshold	53,496
Median length filter	0
Lacking full passes	0
Heteroduplex insertions	23,097
Coverage drops	4,504
Insufficient draft cov	93,074
Draft too different	0
Draft generation error	33,382
Draft above --max-length	0
Draft below --min-length	2
Reads failed polishing	1
Empty coverage windows	278
CCS did not converge	507
CCS below minimum RQ	0
Unknown error	0

Raw Data Report

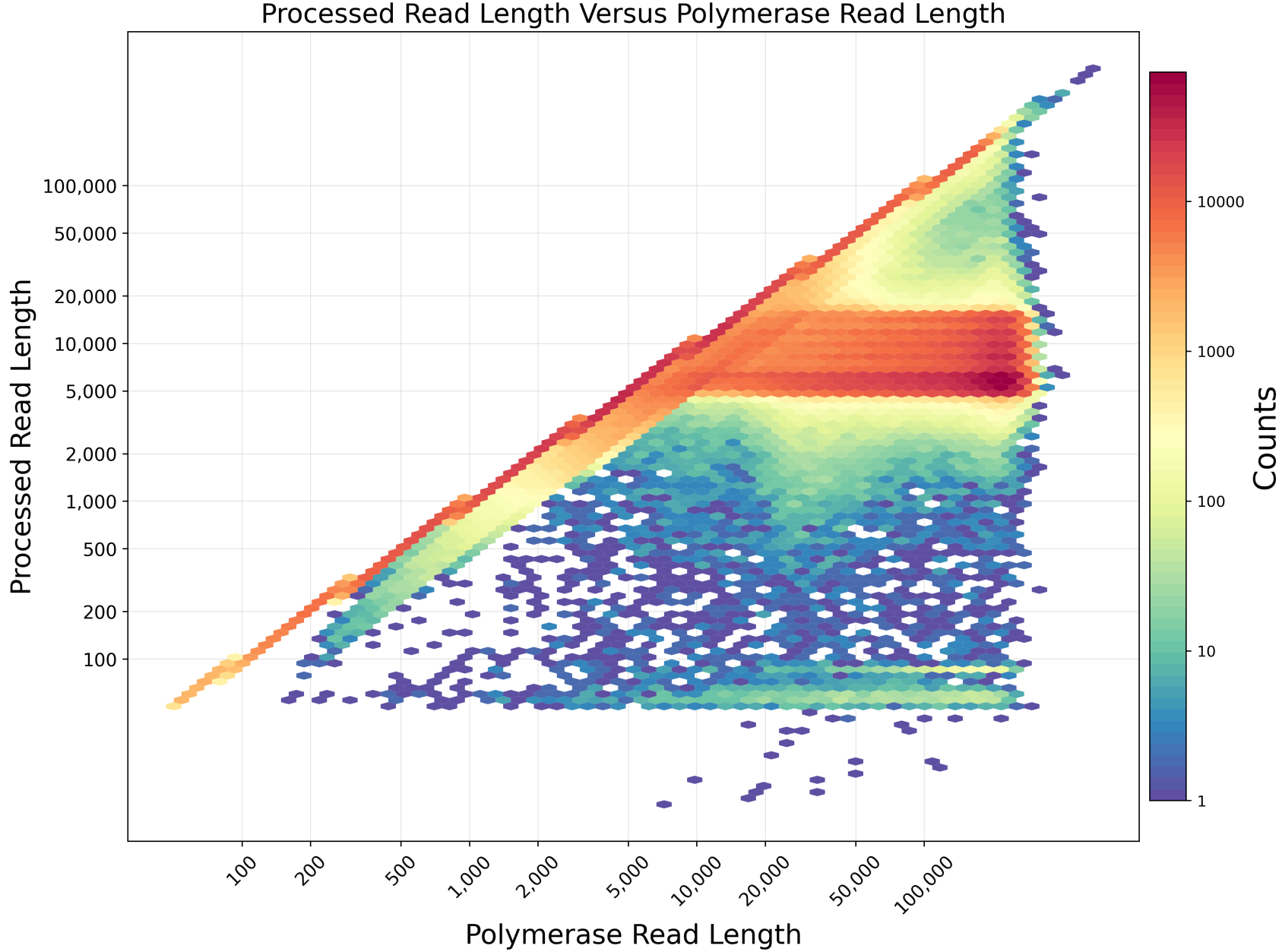
Summary

Polymerase Read Bases	471,599,969,504
Polymerase Reads	5,265,320
Polymerase Read Length (mean)	89,567
Polymerase Read N50	184,750
Longest Subread Length (mean)	12,512
Longest Subread N50	15,750
Unique Molecular Yield	58,252,566,528

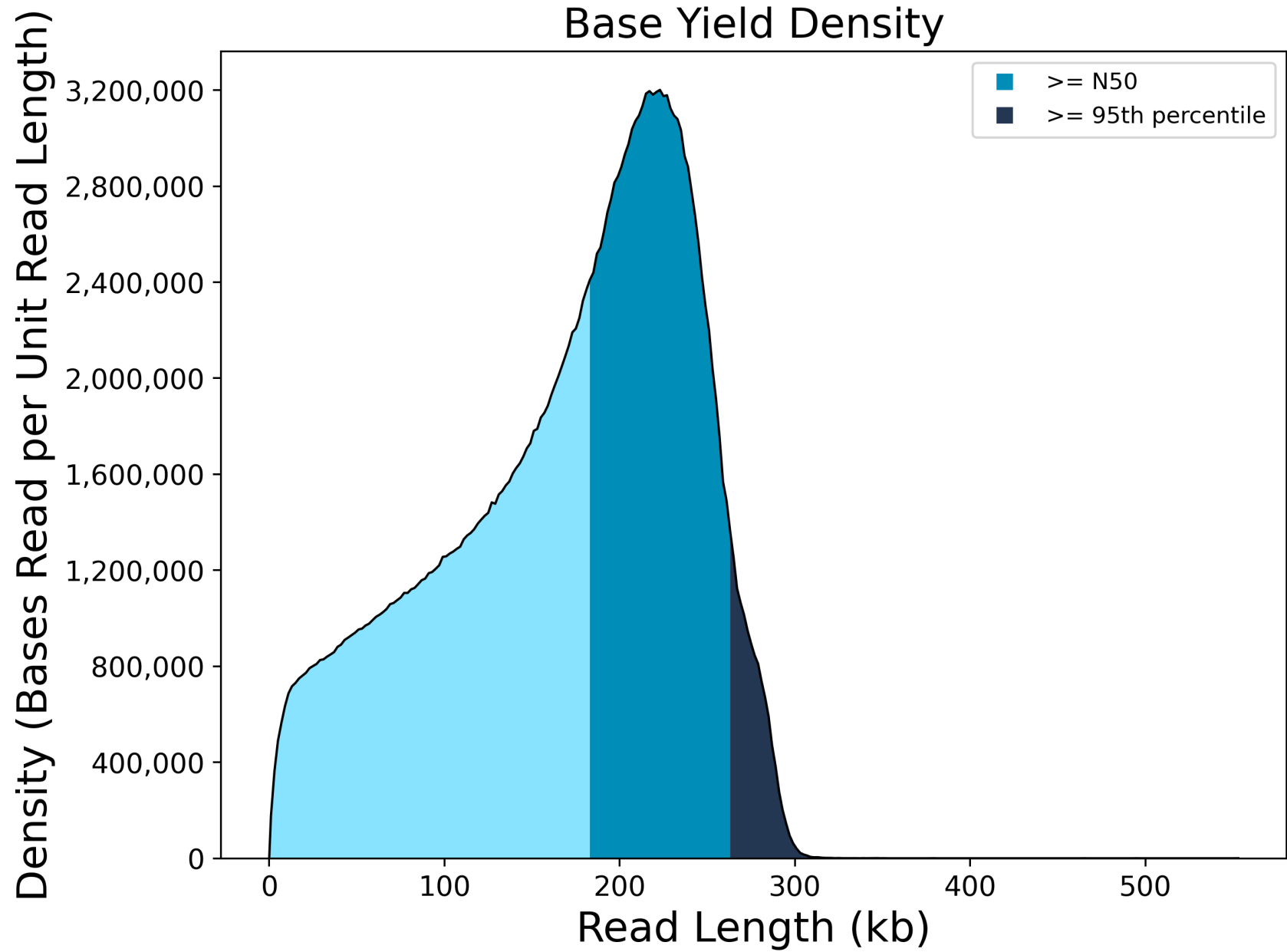
Polymerase Read Length



Longest Subread Length Versus Polymerase Read Length



Base Yield Density



No Sample Setup found

Instrument run(s)

Run 9438e774-5136-4404-9316-d369274f2427

Summary

Name	SQ64219e-220210-NS2497-NS2542-NS2561
Status	COMPLETE
Created	2022-02-10 13:53:02.249
Started	2022-02-10 17:42:36.836
Completed	2022-02-14 17:33:31.012
Context	r64219e_20220210_170414
Instrument Name	64219e
Instrument Serial Number	64219e
ICS Version	10.1.0.119549
Primary Analysis Version	10.1.0.119549
Chemistry Version	10.2.0.133424

Parent jobs (1)

Job 205

Summary

Job Type	import-dataset
Pipeline	cromwell.workflows.sl_import_ccs
Name	import-dataset
Comments	Description for job Import PacBio DataSet
Created At	2022-02-12 15:06:51.596
SMRT Link Version	10.2.0.133434

Child jobs (1)

Job 200

Summary

Job Type	analysis
Pipeline	cromwell.workflows.pb_export_ccs
Name	Export Reads of NS2497-ACLU0235-021022
Comments	
Created At	2022-02-10 13:53:02.091
SMRT Link Version	10.2.0.133434

Output files

File name	Size	Type
m64219e_220210_175238.hifi_reads.bam	12,860,572,799	ConsensusReadBamFile
m64219e_220210_175238.hifi_reads.fastq.gz	13,566,946,562	Fastq
m64219e_220210_175238.hifi_reads.fasta.gz	7,250,798,113	Fasta
PacBio.FileTypes.Datastore file	769	Datastore
PacBio.FileTypes.Datastore file	759	Datastore
PacBio.FileTypes.Datastore file	758	Datastore
Analysis Log	10,055	log
SMRT Link Log	6,883	log

