

WSU_bear_18cell_IsoSeq_from_CCS

SUCCESSFUL

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Status

WSU_bear_18cell_IsoSeq_from_CCS

50279

SUCCESSFUL: 12 tasks finished

etseng

2019-12-06, 07:58:01 AM

2019-12-06, 04:44:35 PM

Iso-Seq Analysis

8.1.0.85700

Analysis

Analysis ID

Status

Created By

Date Created

Date Updated

Application

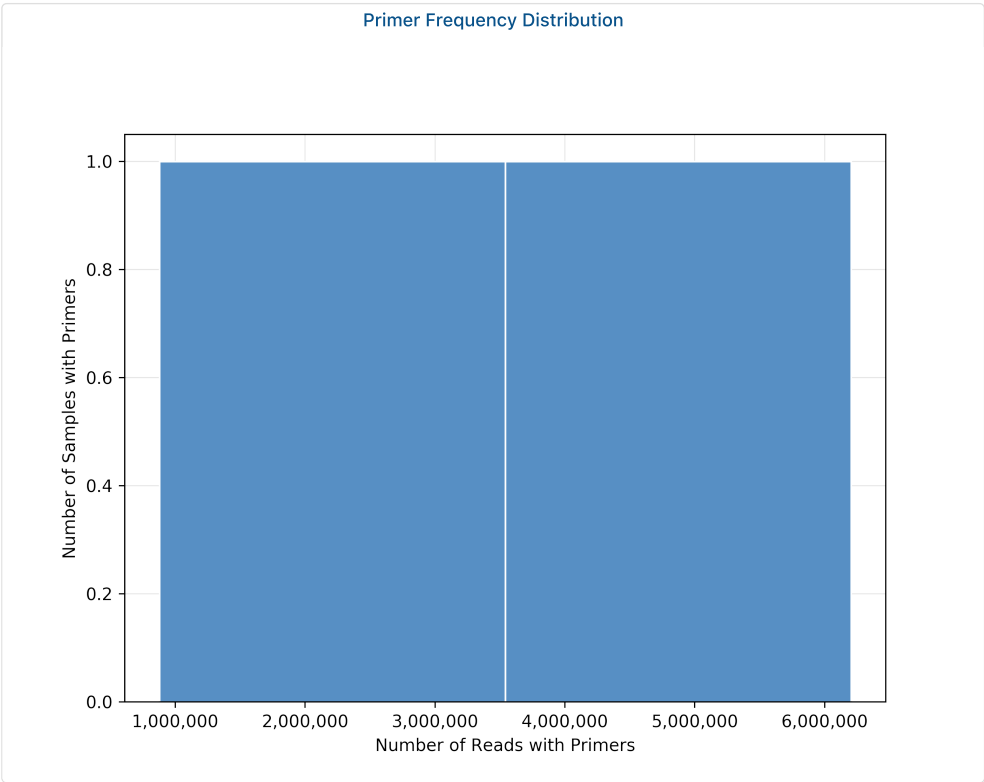
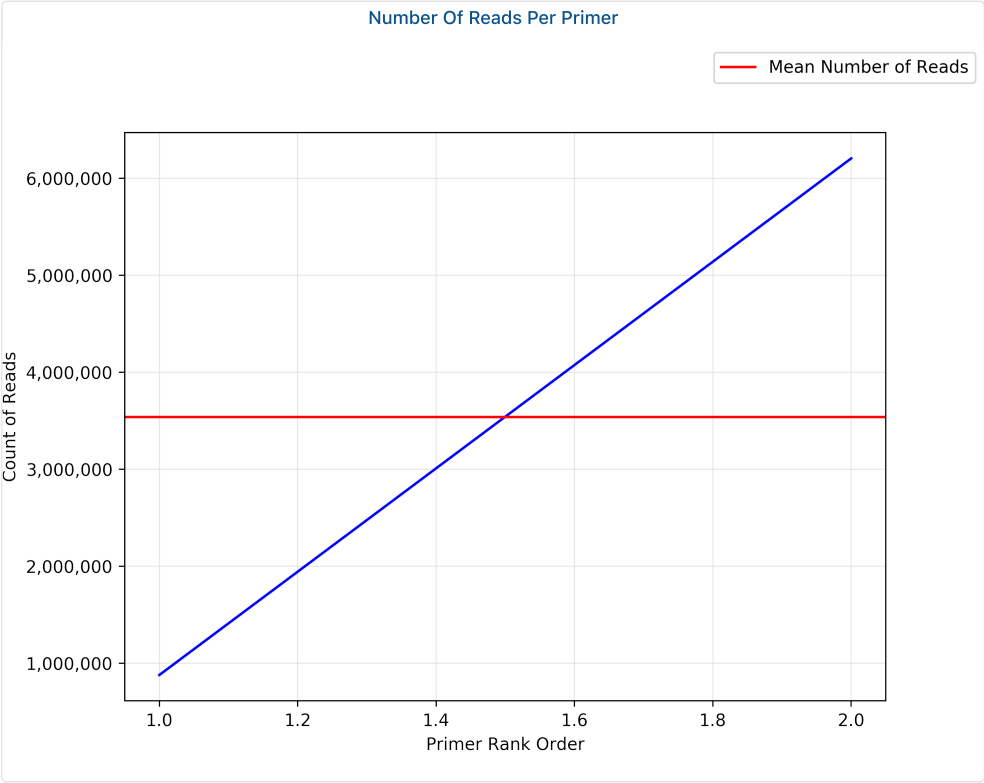
SMRT Link Version

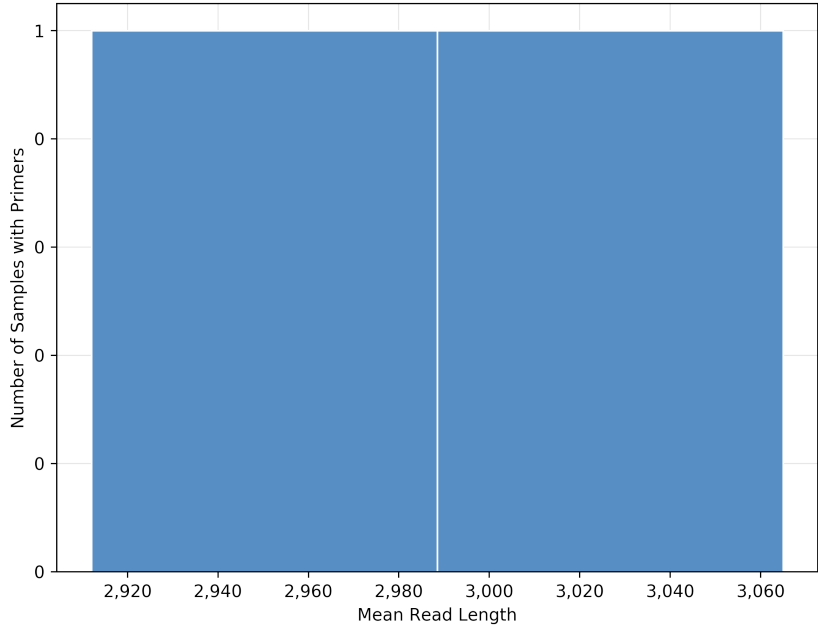
Inputs

Data Type	Name	Import Complete
BarcodeSet	Barcodes: IsoSeqPrimers v2	Yes
ConsensusReadSet	HiFi Reads: WSU Bear 18cell (CCS)	Yes

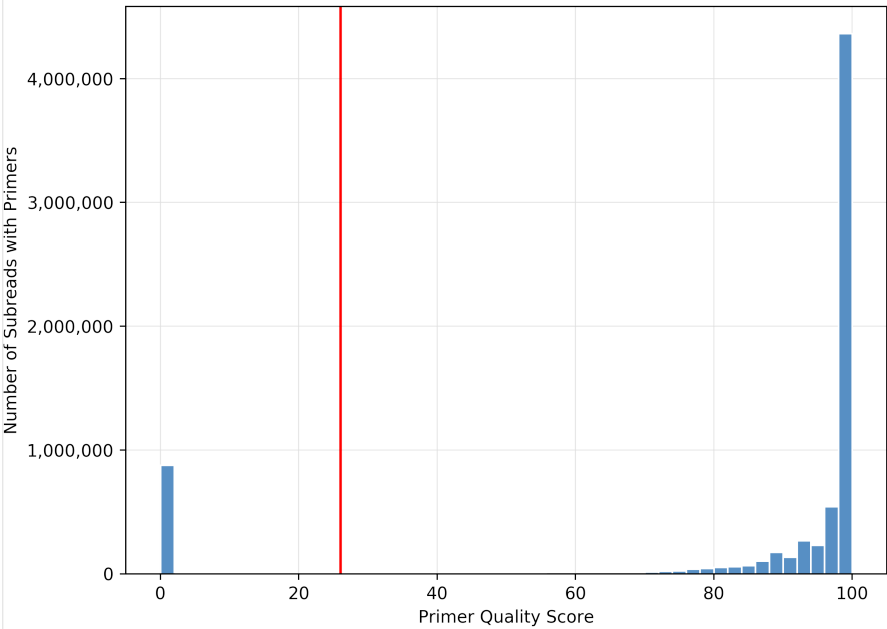
Analysis Parameters

Thumbnails

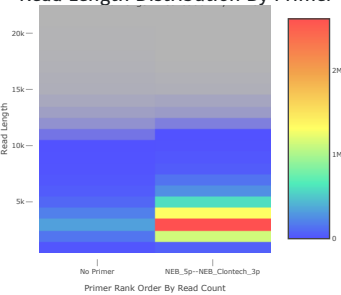


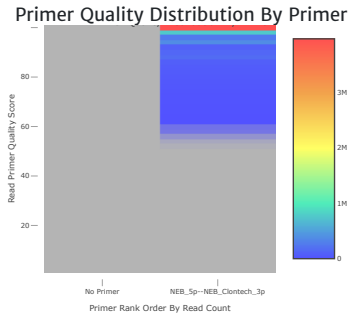


Primer Quality Score Distribution

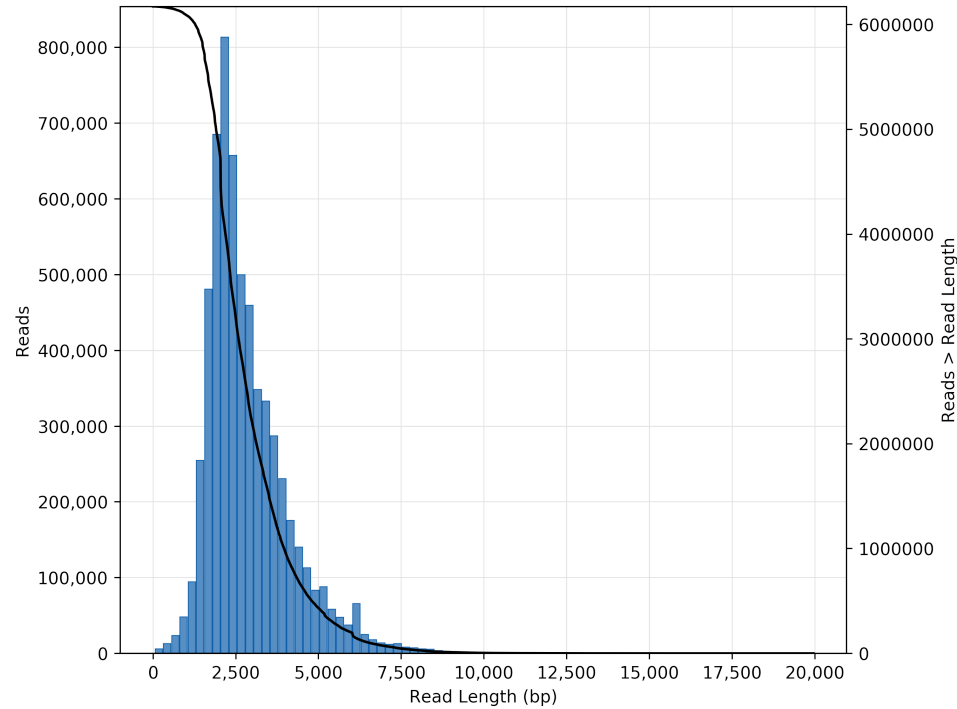


Read Length Distribution By Primer

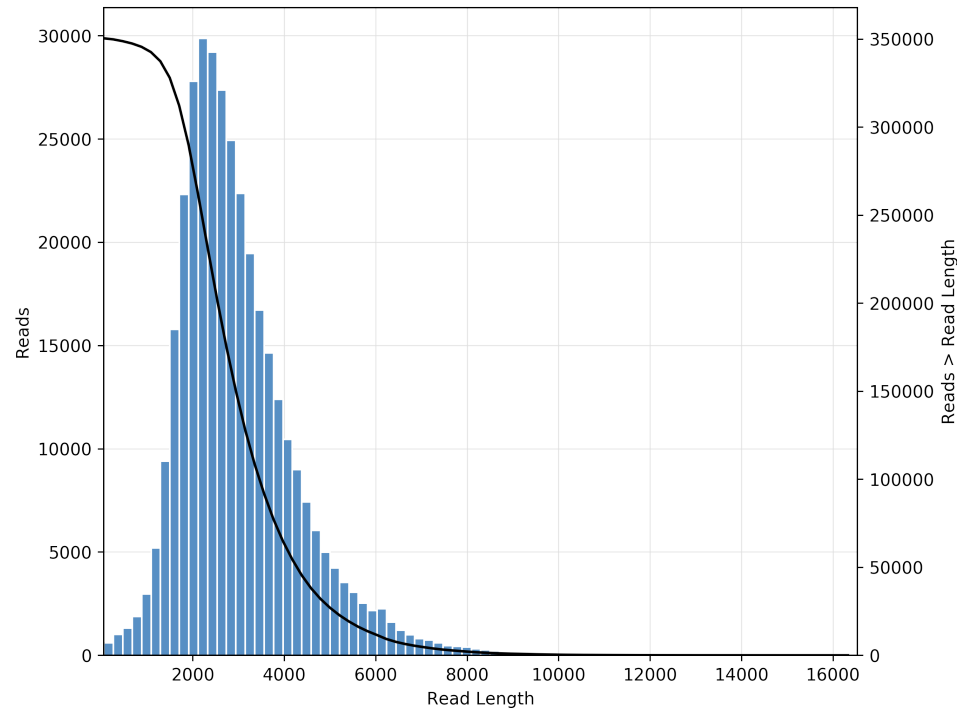




Read Length of Full-length Non-Concatemer Reads



Read Length of Consensus Isoforms Reads



CCS Analysis Read Classification

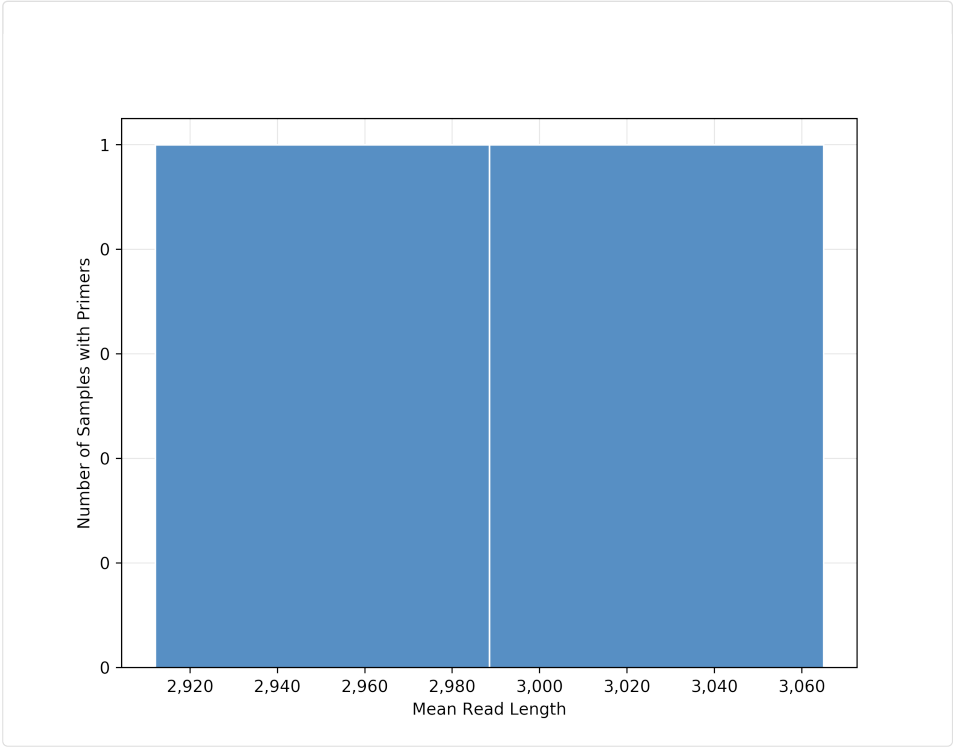
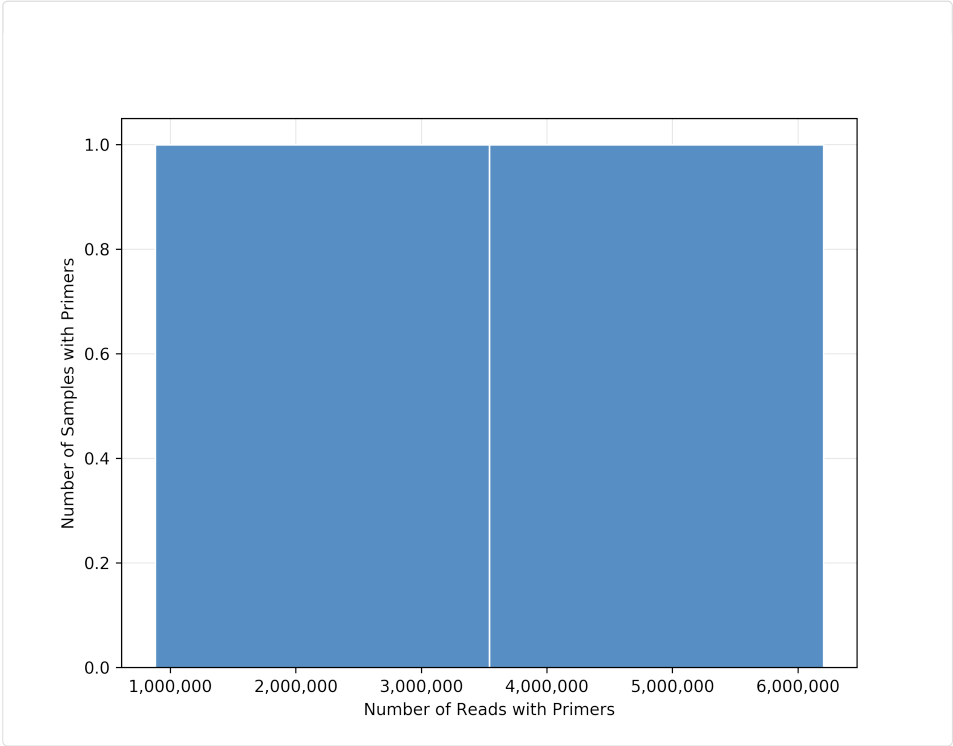
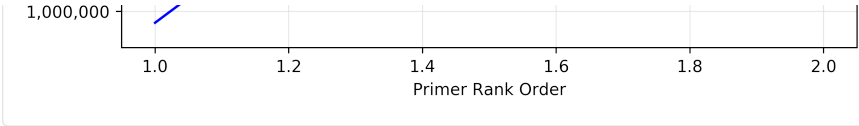
Value	Analysis Metric
7,081,874	Reads
6,203,807	Reads with 5' and 3' Primers
6,195,605	Non-Concatamer Reads with 5' and 3' Primers
6,173,542	Non-Concatamer Reads with 5' and 3' Primers and Poly-A Tail
2,873	Mean Length of Full-Length Non-Concatamer Reads
1	Unique Primers
6,203,807	Mean Reads per Primer
6,203,807	Max. Reads per Primer
6,203,807	Min. Reads per Primer
878,067	Reads without Primers

Primer Data

Bio Sample Name	Primer Index	Primer Name	CCS Reads	Mean Primer Quality	Rank Order (Num. Reads)
NEB_5p-- NEB_Clontech_3p	0--2	NEB_5p-- NEB_Clontech_3p	6,203,807	96.0	1
No Name	None	No Primer	878,067	0.0	NA

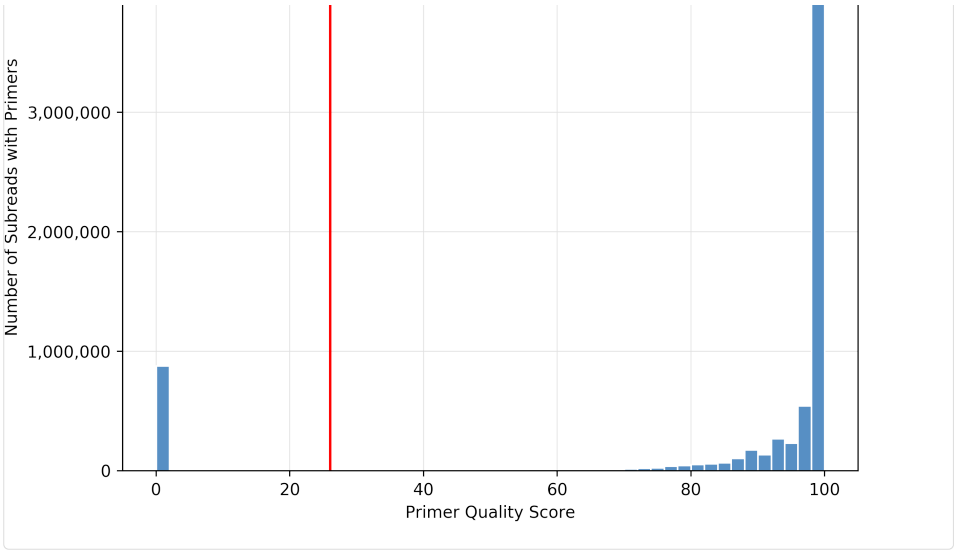
Primer Read Statistics



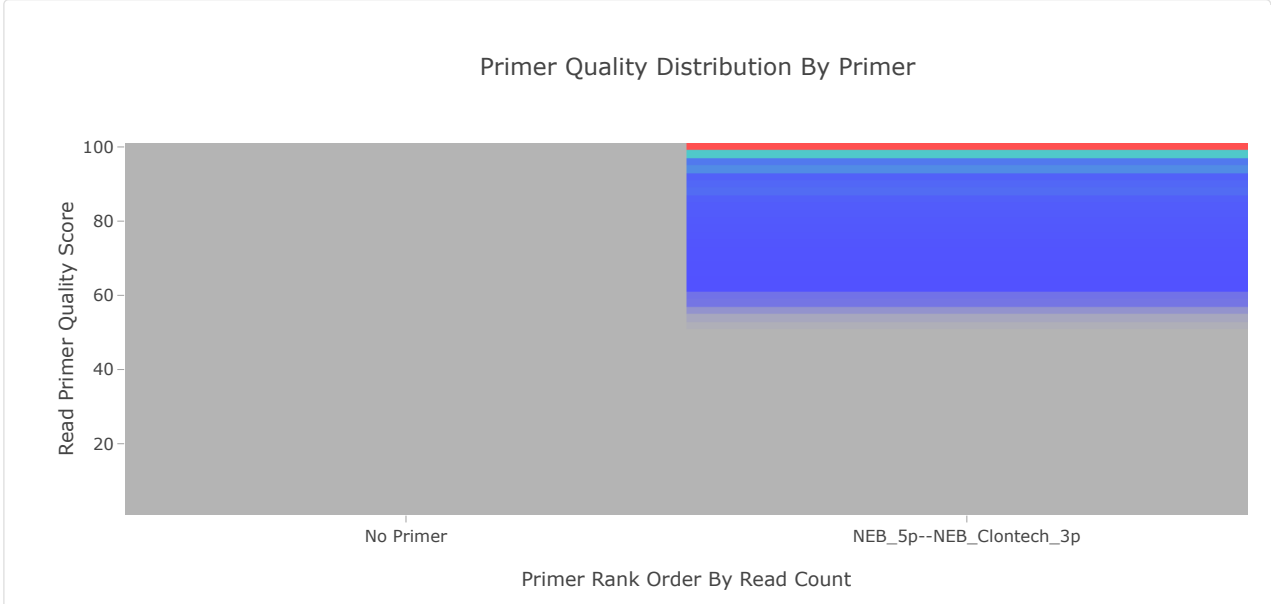
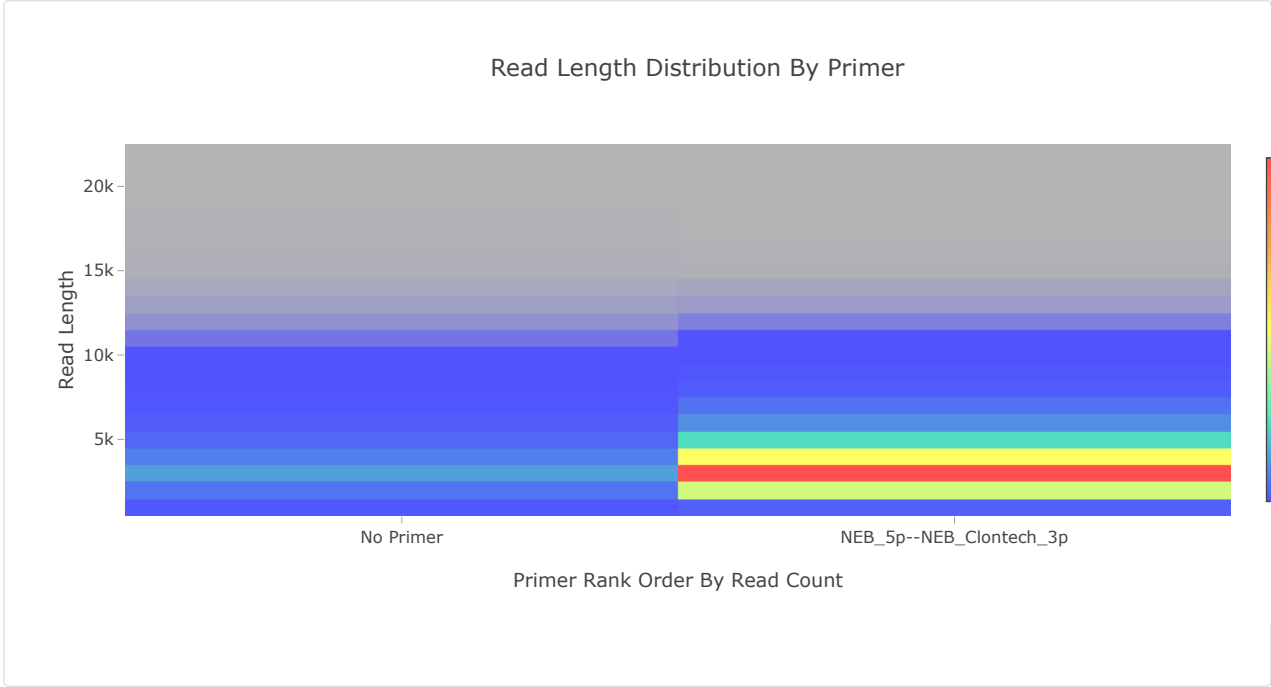


Primer Quality Scores

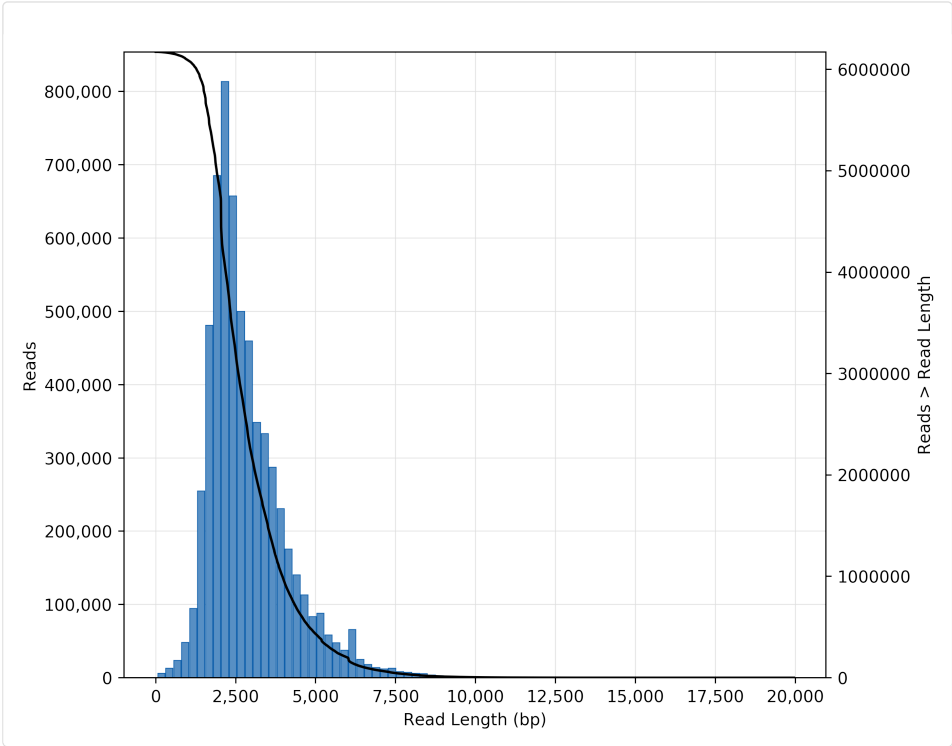




Primer Read Binned Histograms



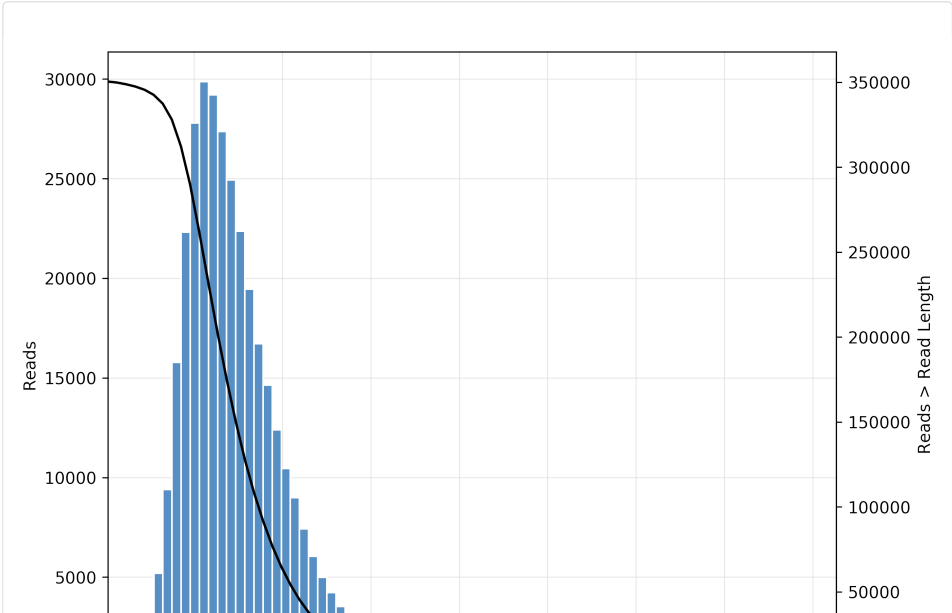
Read Length of Full-length Non-Concatemer Reads

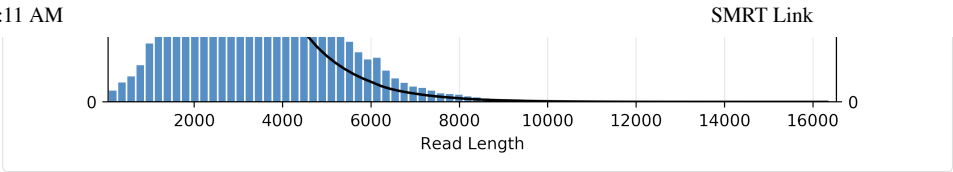


Transcript Clustering

Value	Analysis Metric
336,859	Number of polished high-quality isoforms
13,672	Number of polished low-quality isoforms

Read Length of Consensus Isoforms Reads





File Downloads

Edit Output File Name Prefix

Example:analysis-unknown-50279

File	Size	Type
 Full-Length Non-Concatemer Report	436 ...	csv
 Low-Quality Isoforms	45 MB	Fasta
 PacBio.FileTypes.csv file	259 ...	csv
 Full-Length Non-Concatemer Reads	14 GB	bam
 Isoform Counts by Barcode	7 MB	csv
 High-Quality Isoforms	985 ...	Fasta
 Analysis Log	42 KB	log
 SMRT Link Log	5 KB	log

SMRT Link Log

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[INFO] [2019-12-06T07:58:01.803-08:00] Initial Setup of resources. Starting to run engine job id:50279
type:analysis
[INFO] [2019-12-06T07:58:02.252-08:00] Final task options before converting to Cromwell inputs:
[INFO] [2019-12-06T07:58:02.253-08:00] [{
  "id": "run_clustering",
  "value": true,
  "optionTypeId": "boolean"
}, {
  "id": "mapping_min_length",
  "value": 50,
  "optionTypeId": "integer"
}, {
  "id": "mapping_min_concordance",
  "value": 95.0,
  "optionTypeId": "float"
}, {
  "id": "mapping_min_coverage",
  "value": 99.0,
  "optionTypeId": "float"
}, {
  "id": "isocollapse_max_fuzzy_junction",
  "value": 5,
  "optionTypeId": "integer"
}, {
  "id": "min_subreads_split",
  "value": 7,
  "optionTypeId": "integer"
}, {
  "id": "refine_require_polya",
  "value": true,
  "optionTypeId": "boolean"
}]
[INFO] [2019-12-06T07:58:02.253-08:00] Workflow options from job submission:
List(ServiceTaskIntOption(cromwell.workflow_options.max_nchunks,96,integer),
ServiceTaskIntOption(cromwell.workflow_options.nproc,16,integer),
ServiceTaskStrOption(cromwell.workflow_options.log_level,INFO,string),
ServiceTaskBooleanOption(cromwell.engine_options.read_from_cache,false,boolean),
ServiceTaskStrOption(cromwell.engine_options.backend,comutecfg_00,string),
ServiceTaskBooleanOption(cromwell.engine_options.write_to_cache,true,boolean))
[INFO] [2019-12-06T07:58:02.253-08:00] Final engine options for analysis:
{"read_from_cache":false,"write_to_cache":true,"backend":"comutecfg_00","default_runtime_attributes":
{"backend":"comutecfg_00","maxRetries":1}}
[INFO] [2019-12-06T07:58:02.466-08:00] Submitting Cromwell workflow to http://localhost:8086
[INFO] [2019-12-06T07:58:02.506-08:00] Started Cromwell workflow 9528eac4-2cf0-41f2-b83d-12496c9d3e69 from SMRT
Link job 275d0ebf-fd11-44e4-9870-675f414adbb8
[INFO] [2019-12-06T07:58:12.523-08:00] Cromwell workflow now in state Running
[INFO] [2019-12-06T07:58:12.610-08:00] Created symlink to /pbi/dept/secondary/siv/smrlink/smrlink-alpha/jobs-
root/cromwell-executions/pb_isoseq3_ccsonly/9528eac4-2cf0-41f2-b83d-12496c9d3e69
[INFO] [2019-12-06T07:58:12.621-08:00] 0 tasks finished, task pb_isoseq3_ccsonly.check_ccs and 2 others running
[INFO] [2019-12-06T07:58:49.236-08:00] 2 tasks finished, task pb_isoseq3_ccsonly.check_ccs and 1 other running
[INFO] [2019-12-06T07:59:06.647-08:00] 3 tasks finished, task pb_isoseq3_ccsonly.lima_isoseq and 0 others running
[INFO] [2019-12-06T08:08:33.267-08:00] 4 tasks finished, task pb_isoseq3_ccsonly.datastore_to_merged_dataset and
0 others running
[INFO] [2019-12-06T08:09:33.425-08:00] 5 tasks finished, task pb_isoseq3_ccsonly.isoseq3_refine and 0 others
running
[INFO] [2019-12-06T08:24:34.384-08:00] 6 tasks finished, task pb_isoseq3_ccsonly.isoseq3_cluster and 1 other
running
[INFO] [2019-12-06T08:28:34.720-08:00] 7 tasks finished, task pb_isoseq3_ccsonly.isoseq3_cluster and 0 others
running
[INFO] [2019-12-06T16:39:33.409-08:00] 11 tasks finished, task pb_isoseq3_ccsonly.isoseq_report and 0 others
running
[INFO] [2019-12-06T16:44:33.500-08:00] Cromwell workflow now in state Succeeded
[INFO] [2019-12-06T16:44:33.606-08:00] 12 tasks finished
[INFO] [2019-12-06T16:44:34.192-08:00] Cromwell workflow completed, importing 9 outputs
[INFO] [2019-12-06T16:44:34.254-08:00] about to write datastore for job 275d0ebf-fd11-44e4-9870-675f414adbb8
[INFO] [2019-12-06T16:44:34.335-08:00] Done writing datastore for job 275d0ebf-fd11-44e4-9870-675f414adbb8
[INFO] [2019-12-06T16:44:34.336-08:00] Successfully completed running core job id:275d0ebf-fd11-44e4-9870-
675f414adbb8

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[INFO] [2019-12-06T16:44:35.638-08:00] DataStoreFile a884cfaa-3afb-4126-9284-a5044e718685 PacBio.FileTypes.log
already exists. File:/pbi/dept/secondary/siv/smrtlink/smrtlink-
alpha/smrtlink_8.0.0.79519/userdata/jobs_root/0000/0000050/0000050279/logs/workflow.9528eac4-2cf0-41f2-b83d-
12496c9d3e69.log
Successfully imported DSF 357d0c2a-01ae-4e03-a4c0-741578d6a049 type:PacBio.FileTypes.Fasta
Successfully imported DSF 09ad665c-d5cc-4a9f-b682-671a12481eb0 type:PacBio.FileTypes.csv
Successfully imported DSF 51dd2ff4-aac5-49a4-8bdf-51a7a30554de type:PacBio.FileTypes.bam
Successfully imported DSF ed37c7a7-483c-4361-b182-0d762b0a6fe3 type:PacBio.FileTypes.csv
Already added report 93aeb5d0-6a19-410f-ba59-216e6b036475 (pb_isoseq3_cconly.report_isoseq) to datastore
Already added report 72008306-07d2-45c2-b369-c72d7c42c454 (pb_isoseq3_cconly.report_barcode_isoseq3) to
datastore
Successfully imported DSF 999dde7b-df7d-4a9d-90d9-100731d49e55 type:PacBio.FileTypes.Fasta
Successfully imported DSF 01fd0161-9e63-4c50-9044-24b67736c608 type:PacBio.FileTypes.csv
Successfully imported DSF b7a8fda9-98fd-4e2f-a5b5-b9965ccbef21 type:PacBio.FileTypes.json
[INFO] [2019-12-06T16:44:35.675-08:00] Updated job 275d0ebf-fd11-44e4-9870-675f414adbb8 state to SUCCESSFUL
[INFO] [2019-12-06T16:44:35.816-08:00] Successfully sent email to etseng@pacificbiosciences.com
```