

VIB Nucleomics Core*- SEQUEL CCS report

8plex_CCS_1_0.8

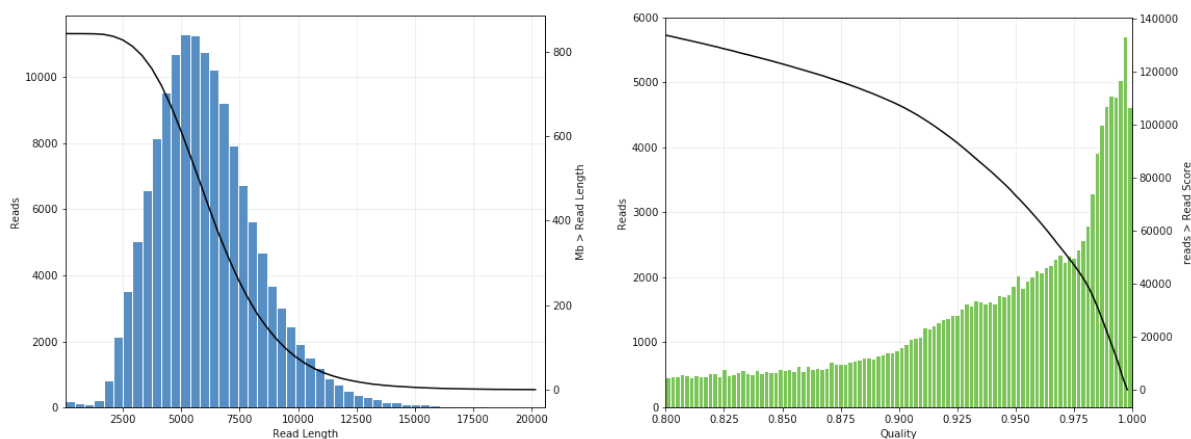
sample: Ecoli_8plex_demo

dataset: /data/NC_projects/PB_Coli_8-plex/Ecoli_8plex_demo.barcoded.subreads.bam

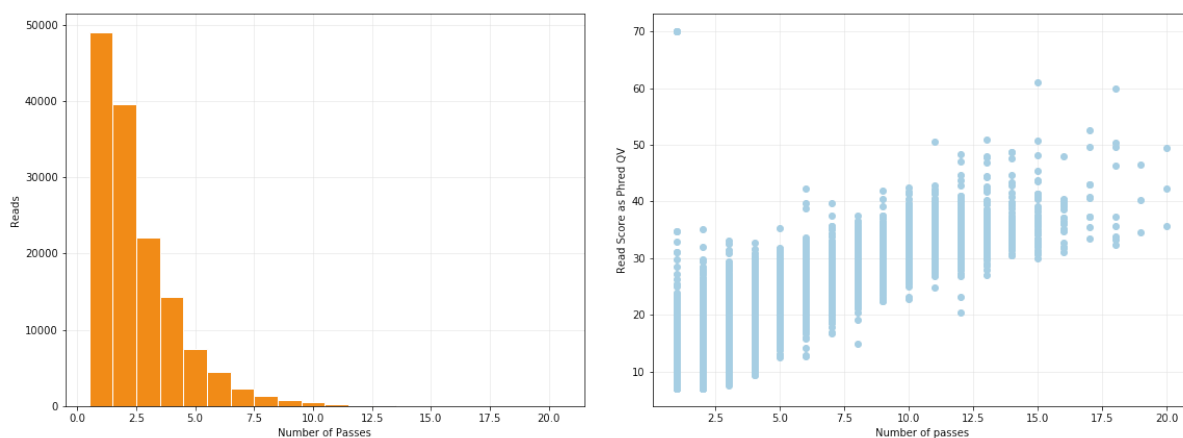
min_passes: 1; min_predicted_accuracy: 0.8

| | value |
|-------------------------|----------------|
| CCS reads | 142'740.00 |
| Number of CCS bases | 872'194'516.00 |
| CCS Read Length (mean) | 6'110.00 |
| CCS Read Score (mean) | 0.94 |
| Number of Passes (mean) | 3.00 |

CCS Read Length - CCS Read Score



Number of Passes - Number of Passes vs. Read Score



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Run Options

| | value |
|---|----------------|
| pbccs.task_options.min_passes | 1 |
| pbccs.task_options.min_predicted_accuracy | 0.8 |
| pbccs.task_options.by_strand | FALSE |
| pbccs.task_options.max_drop_fraction | 0.34 |
| pbccs.task_options.max_length | 21000 |
| pbccs.task_options.min_length | 10 |
| pbccs.task_options.min_read_score | 0.65 |
| pbccs.task_options.min_snr | 3.75 |
| pbccs.task_options.min_zscore | -3.4 |
| pbccs.task_options.polish | TRUE |
| pbccs.task_options.report_file | ccs_report.txt |
| pbccs.task_options.rich_qvs | FALSE |
| pbcoretools.task_options.other_filters | |

ZMW filtering

| | count | fraction |
|---|-----------|----------|
| Success – CCS generated | 142740.00 | 28.85% |
| Failed – Below SNR threshold | 0.00 | 0.00% |
| Failed – No usable subreads | 575.00 | 0.12% |
| Failed – Insert size too long | 8.00 | 0.00% |
| Failed – Insert size too small | 0.00 | 0.00% |
| Failed – Not enough full passes | 343318.00 | 69.38% |
| Failed – Too many unusable subreads | 254.00 | 0.05% |
| Failed – CCS did not converge | 1518.00 | 0.31% |
| Failed – CCS below minimum predicted accuracy | 6394.00 | 1.29% |
| Failed – Unknown error during processing | 0.00 | 0.00% |

Subread filtering

| | count | fraction |
|---------------------------------------|-----------|----------|
| Success - Used for CCS | 623048.00 | 52.23% |
| Failed – Below SNR threshold | 0.00 | 0.00% |
| Failed – Alpha/Beta mismatch | 8164.00 | 0.68% |
| Failed – Below minimum quality | 0.00 | 0.00% |
| Failed – Filtered by size | 4821.00 | 0.40% |
| Failed – Identity too low | 60253.00 | 5.05% |
| Failed – Z-Score too low | 0.00 | 0.00% |
| Failed – From ZMW with too few passes | 473845.00 | 39.72% |
| Failed – Other | 22824.00 | 1.91% |