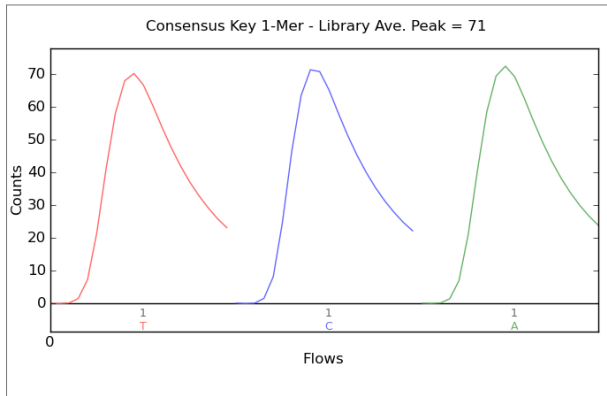
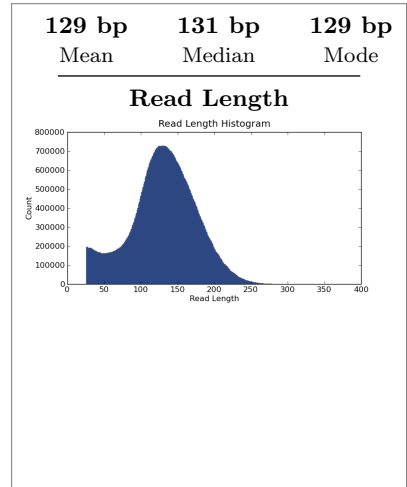
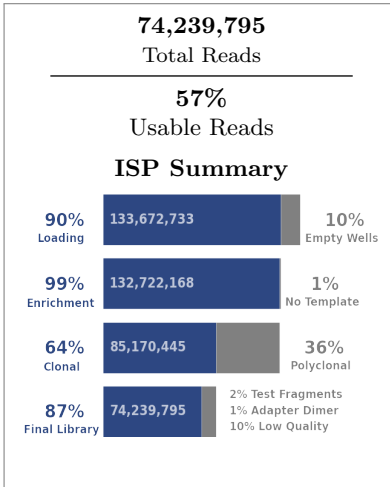
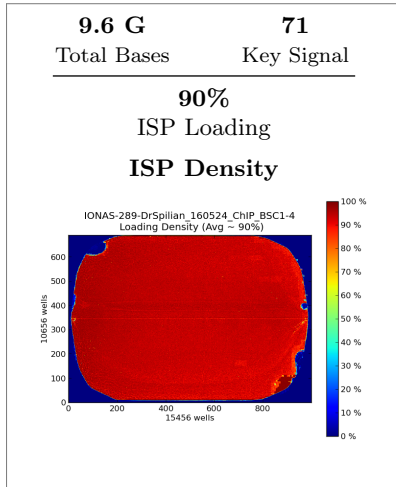


## Run Summary



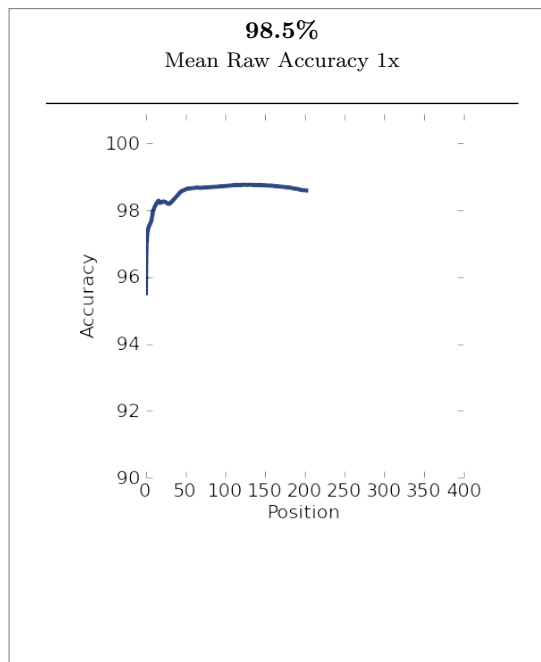
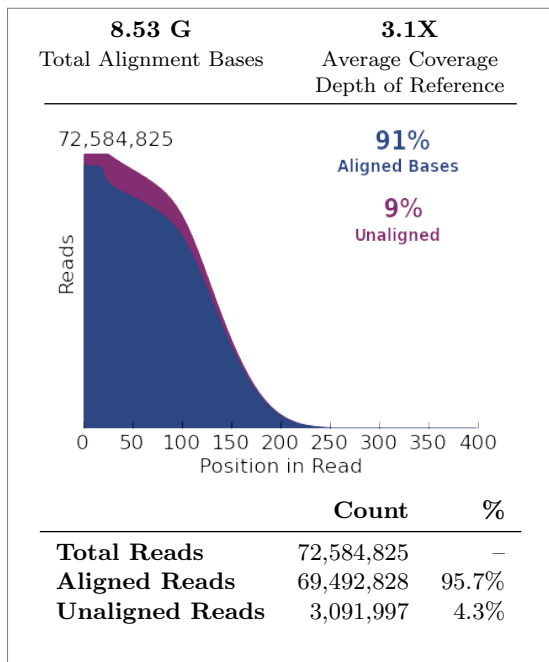
|                           |                    |              |
|---------------------------|--------------------|--------------|
| <b>Addressable Wells</b>  | <b>148,155,732</b> |              |
| With ISPs                 | 133,672,733        | 90.2%        |
| Live                      | 132,722,168        | 99.3%        |
| Test Fragment             | 1,788,065          | 01.3%        |
| Library                   | 130,934,103        | 98.7%        |
| <b>Library ISPs</b>       | <b>130,934,103</b> |              |
| Filtered: Polyclonal      | 47,551,723         | 36.3%        |
| Filtered: Low Quality     | 8,704,233          | 06.6%        |
| Filtered: Adapter Dimer   | 459,420            | 00.4%        |
| <b>Final Library ISPs</b> | <b>74,239,795</b>  | <b>56.7%</b> |

Notes: DrSpilianakis-4ChIPseq\_BSC1-D-bc1\_BSC2-S-bc2\_BSC3-G-bc3\_BSC4-I-bc4

| Barcode Name  | Sample | Bases         | $\geq Q20$    | Reads      | Mean Read Length |
|---------------|--------|---------------|---------------|------------|------------------|
| No barcode    | none   | 194,498,298   | 149,716,305   | 1,645,576  | 118 bp           |
| IonXpress_001 | BSC1-D | 1,901,731,479 | 1,556,776,928 | 14,892,170 | 128 bp           |
| IonXpress_002 | BSC2-S | 1,775,142,646 | 1,451,755,480 | 14,022,547 | 127 bp           |
| IonXpress_003 | BSC3-G | 1,866,073,736 | 1,528,960,811 | 14,267,251 | 131 bp           |
| IonXpress_004 | BSC4-I | 3,860,913,113 | 3,159,376,353 | 29,402,857 | 131 bp           |

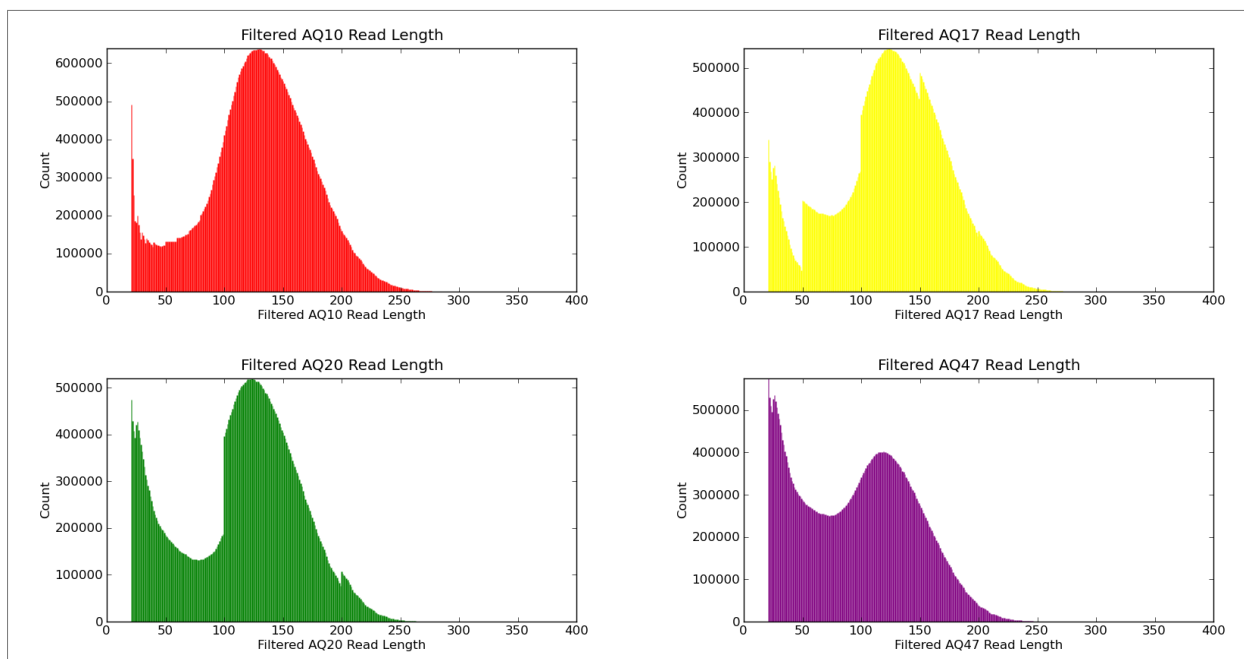
| Test Fragment | Reads            | Percent 50AQ17 | Read Length Histogram |
|---------------|------------------|----------------|-----------------------|
| <b>TF_C</b>   | <b>1,348,487</b> | <b>70%</b>     |                       |

## Alignment Summary (aligned to *Mus musculus 10*)



**Alignment Quality**

|                                    | AQ17  | AQ20   | Perfect |
|------------------------------------|-------|--------|---------|
| <b>Total Number of Bases [Mbp]</b> | 7.1 G | 6.17 G | 5 G     |
| <b>Mean Length [bp]</b>            | 124   | 114    | 96      |
| <b>Longest Alignment [bp]</b>      | 322   | 313    | 300     |
| <b>Mean Coverage Depth</b>         | 2.6   | 2.3    | 1.8     |



## Analysis Details

|  |   |
|--|---|
| <b>Run Name</b>                                | R_2016_05_24_12_18_59_user_IONAS-289-DrSpilian_160524_ChIP_BSC1-4   |
| <b>Run Date</b>                                | May 24, 2016, 12:20 p.m.  |
| <b>Run Flows</b>                               | 520   |
| <b>Projects</b>                                | DrSpilianakis_ChIPseq   |
| <b>Sample</b>                                  | BSC4-I, BSC1-D, BSC3-G, BSC2-S  |
| <b>Reference</b>                               |   |
| <b>Instrument</b>                              | IONAS   |
| <b>Flow Order</b>                              | TACGTACGTCTGAGCATCGATCGATGTACAGC  |
| <b>Library Key</b>                             | TCAG  |
| <b>TF Key</b>                                  | ATCG  |
| <b>Chip ID</b>                                 |   |
| <b>Chip Check</b>                              | Passed  |
| <b>Chip Type</b>                               | P1.1.17   |
| <b>Chip Data</b>                               | tiled   |
| <b>Barcode Set</b>                             | IonXpress   |
| <b>Analysis Name</b>                           | Auto_user_IONAS-289-DrSpilian_160524_ChIP_BSC1-4_387  |
| <b>Analysis Date</b>                           | May 24, 2016, 8:37 p.m.   |
| <b>Analysis Flows</b>                          | 0   |
| <b>runID</b>                                   | INWD6   |
| <b>BeadFind Args</b>                           | justBeadFind -beadfind-minlivesnr 3 -region-size=216,224 -total-timeout 600   |
| <b>Analysis Args</b>                           | Analysis -from-beadfind -clonal-filter-bkgmodel true -region-size=216,224<br>-bkg-bfmask-update false -gpuWorkLoad 1 -total-timeout 600 -gopt<br>/opt/ion/config/gopt <sub>p</sub> 1.1.17 <sub>a</sub> mpliseq <sub>e</sub> xome.param.json |
| <b>Pre-BaseCaller Args<br/>for calibration</b> | BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10<br>-phasing-residual-filter=2.0 -max-phasing-levels 2   |
| <b>Calibration Args</b>                        | Calibration   |
| <b>BaseCaller Args</b>                         | BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10<br>-phasing-residual-filter=2.0 -num-unfiltered 1000 -barcode-filter-postpone 1   |
| <b>Alignment Args</b>                          | tmap mapall ... stage1 map4   |
| <b>IonStats Args</b>                           | ionstats alignment  |
| <b>Analysis Parameters</b>                     | default   |

## Chef Summary

Ion Chef was not used for this run |

## Software Version

|                          |          |
|--------------------------|----------|
| <b>Torrent_Suite</b>     | 5.0.4    |
| <b>host</b>              | FW7DQV1  |
| <b>ion-analysis</b>      | 5.0.13-1 |
| <b>ion-chefupdates</b>   | 5.0.3    |
| <b>ion-dbreports</b>     | 5.0.33-1 |
| <b>ion-gpu</b>           | 5.0.0-1  |
| <b>ion-pipeline</b>      | 5.0.16-1 |
| <b>ion-plugins</b>       | 5.0.28-1 |
| <b>ion-protonupdates</b> | 5.0.3    |
| <b>ion-torrentr</b>      | 5.0.0-1  |
| <b>Script</b>            | 2.1.33   |
| <b>LiveView</b>          | 2045     |
| <b>DataCollect</b>       | 3220     |
| <b>OIA</b>               | 5002     |
| <b>OS</b>                | 30       |
| <b>Graphics</b>          | 52       |