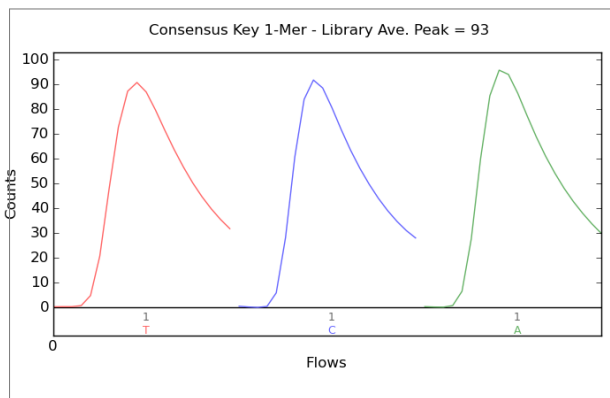
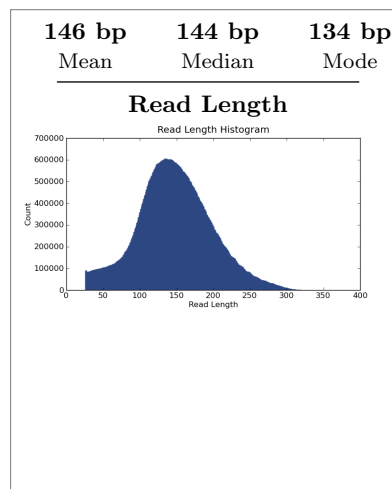
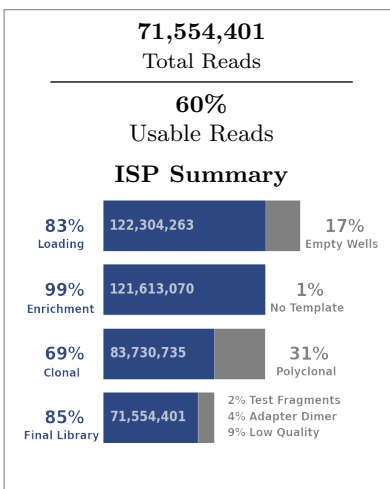
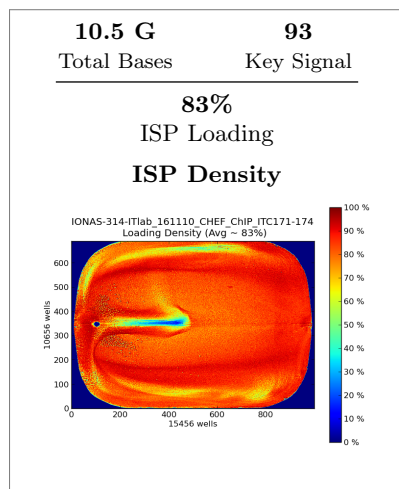


Run Summary



Addressable Wells	148,155,732	
With ISPs	122,304,263	82.6%
Live	121,613,070	99.4%
Test Fragment	1,671,528	01.4%
Library	119,941,542	98.6%

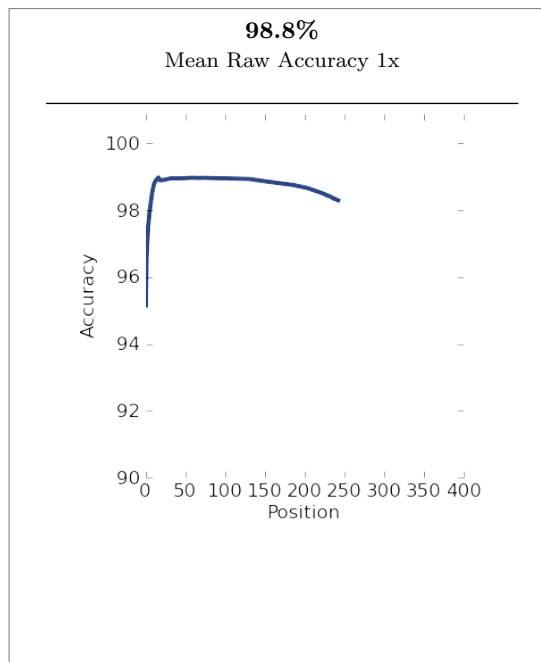
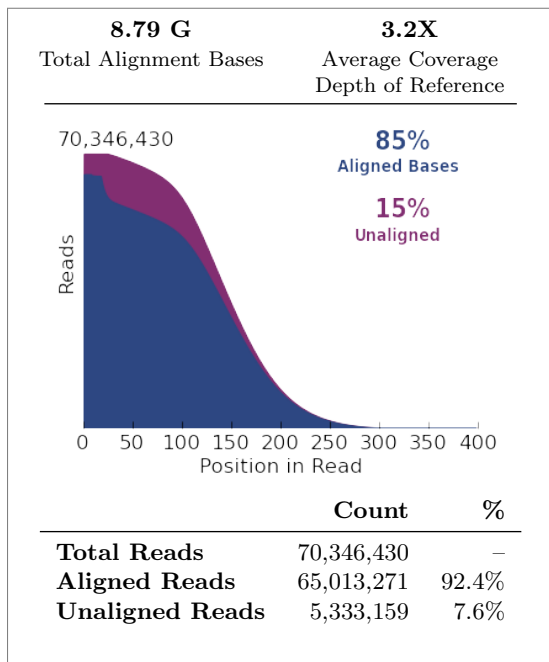
Library ISPs	119,941,542	
Filtered: Polyclonal	37,882,335	31.6%
Filtered: Low Quality	7,473,051	06.2%
Filtered: Adapter Dimer	3,703,521	03.1%
Final Library ISPs	71,554,401	59.7%

Notes: ITlab-24EP-ChIPs_ITC171-1-bc1_ITC172-2-bc2_ITC173-3-bc3_ITC174-4-bc4

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	168,225,517	140,406,995	1,194,692	141 bp
IonXpress_001	ITC171-1	2,988,078,413	2,574,087,972	20,407,874	146 bp
IonXpress_002	ITC172-2	1,785,188,950	1,537,171,900	11,783,335	152 bp
IonXpress_003	ITC173-3	2,586,235,147	2,272,295,604	17,819,899	145 bp
IonXpress_004	ITC174-4	2,949,261,370	2,579,089,853	20,335,322	145 bp

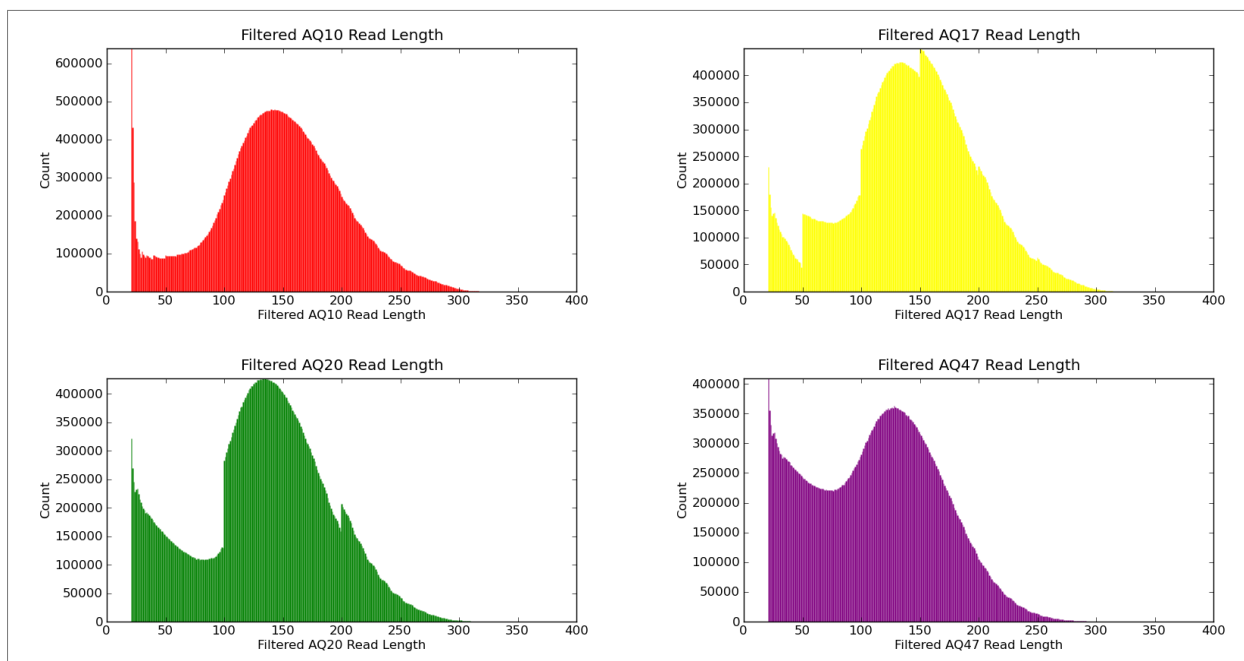
Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	1,454,175	90%	

Alignment Summary (aligned to *Mus musculus 10*)



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	7.83 G	7.01 G	5.67 G
Mean Length [bp]	143	134	113
Longest Alignment [bp]	352	341	336
Mean Coverage Depth	2.9	2.6	2.1



Analysis Details

Run Name	R_2016_11_11.13.36_20_user_IONAS-314-ITlab_161110-CHEF_Chip_IP_ITC171-174
Run Date	Nov. 11, 2016, 1:38 p.m.
Run Flows	520
Projects	ITLab_ChipSeq
Sample	ITC173-3, ITC174-4, ITC172-2, ITC171-1
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABE25242
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-314-ITlab_161110-CHEF_Chip_IP_ITC171-174_411
Analysis Date	Nov. 11, 2016, 11:32 p.m.
Analysis Flows	0
runID	U0RPC
BeadFind Args	justBeadFind -beadfind-minlivesnr 3 -region-size=216,224 -total-timeout 600
Analysis Args	Analysis -from-beadfind -clonal-filter-bkgmodel true -region-size=216,224 -bkg-bfmask-update false -gpuWorkLoad 1 -total-timeout 600 -gopt /opt/ion/config/gopt_p1.1.17_a ^m pliseq_e ^x ome.param.json
Pre-BaseCaller Args for calibration	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -max-phasing-levels 2
Calibration Args	Calibration
BaseCaller Args	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -num-unfiltered 1000 -barcode-filter-postpone 1
Alignment Args	tmap mapall ... stage1 map4
IonStats Args	ionstats alignment
Analysis Parameters	default

Chef Summary

Chef Template Prep Information:

Chef Last Updated	Nov. 11, 2016, 10:34 a.m.
Chef Instrument Name	CHEF00509
Sample Position	1
Tip Rack Barcode	2521900F8
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	May2016
Chip Expiration 2	May2016
Templating Kit Type	Ion PI IC 200 Kit
Reagent Expiration	01987
Reagent Lot Number	0023442
Reagent Part Number	100023442
Solution Lot Number	0022894
Solution Part Number	100022894
Solution Expiration	151231
Chef Script Version	263
Chef Package Version	IC.5.0.1

Software Version

Torrent_Suite	5.0.5
host	FW7DQV1
ion-analysis	5.0.13-1
ion-chefupdates	5.0.7
ion-dbreports	5.0.34-1
ion-gpu	5.0.0-1
ion-pipeline	5.0.17-1
ion-plugins	5.0.28-1
ion-protonupdates	5.0.3
ion-torrentr	5.0.0-1
Script	2.1.33
LiveView	2045
DataCollect	3220
OIA	5002
OS	30
Graphics	52
Ion.Chef	IC.5.0.1