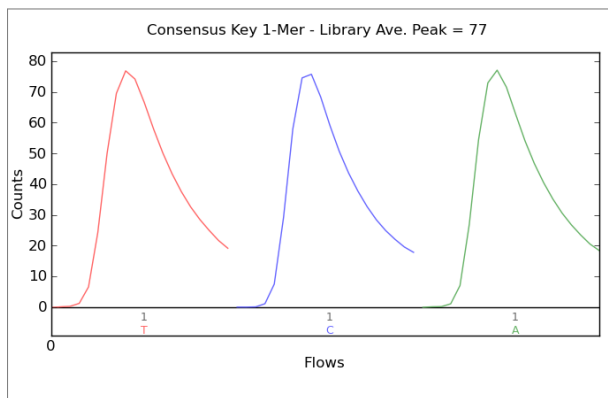
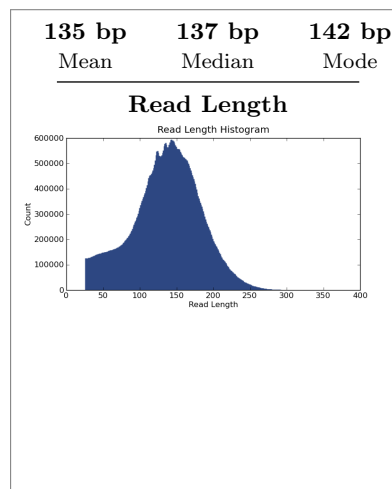
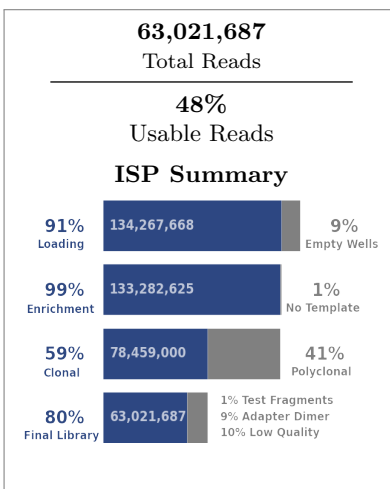
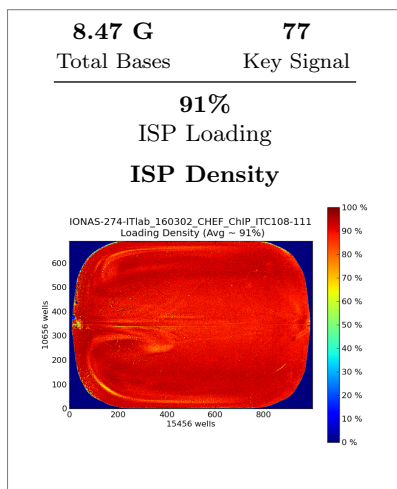


Run Summary



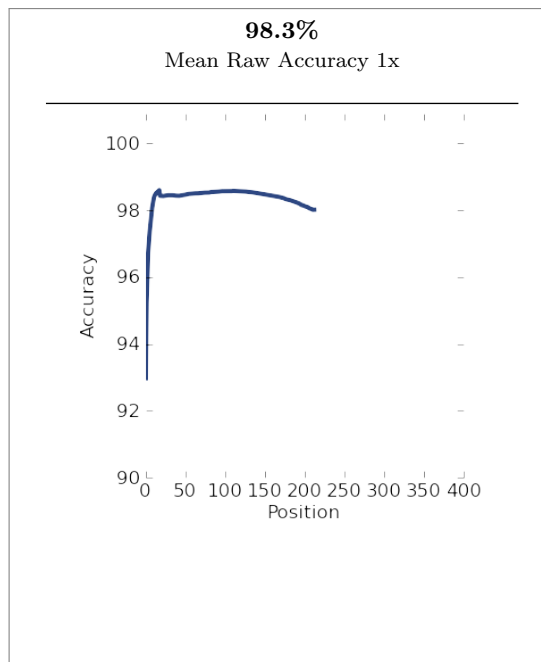
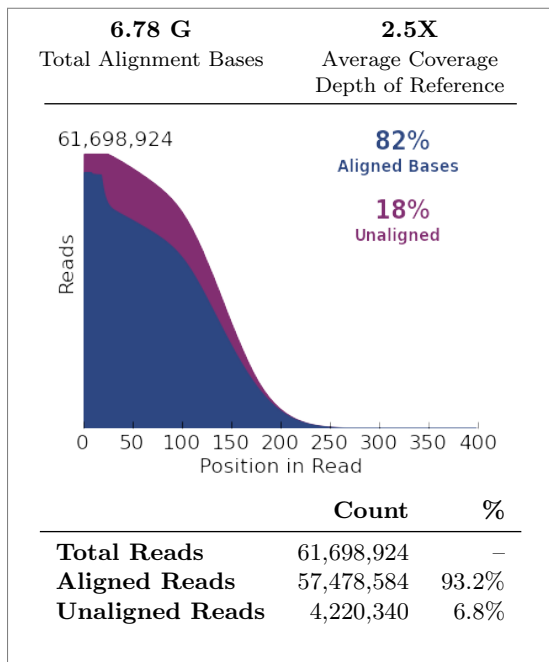
Addressable Wells	148,155,732	
With ISPs	134,267,668	90.6%
Live	133,282,625	99.3%
Test Fragment	1,289,996	01.0%
Library	131,992,629	99.0%
Library ISPs	131,992,629	
Filtered: Polyclonal	54,823,625	41.5%
Filtered: Low Quality	8,878,767	06.7%
Filtered: Adapter Dimer	6,680,531	05.1%
Final Library ISPs	63,021,687	47.7%

Notes: ITlab_6-Ser2-ChIPs_ITC108-wt10-bc1_ITC109-wt2-bc2_ITC110-Set8KO1-bc3_ITC111-Set8KO2-bc4

Barcode Name	Sample	Bases	≥ Q20	Reads	Mean Read Length
No barcode	none	159,071,773	122,279,057	1,256,122	127 bp
IonXpress_001	ITC108-wt1	2,330,583,799	1,884,560,082	17,280,206	135 bp
IonXpress_002	ITC109-wt2	1,664,892,517	1,333,428,990	12,317,453	135 bp
IonXpress_003	ITC110-Set8KO1	2,404,801,569	1,940,012,219	17,806,682	135 bp
IonXpress_004	ITC111-Set8KO2	1,911,868,831	1,536,006,245	14,294,583	134 bp

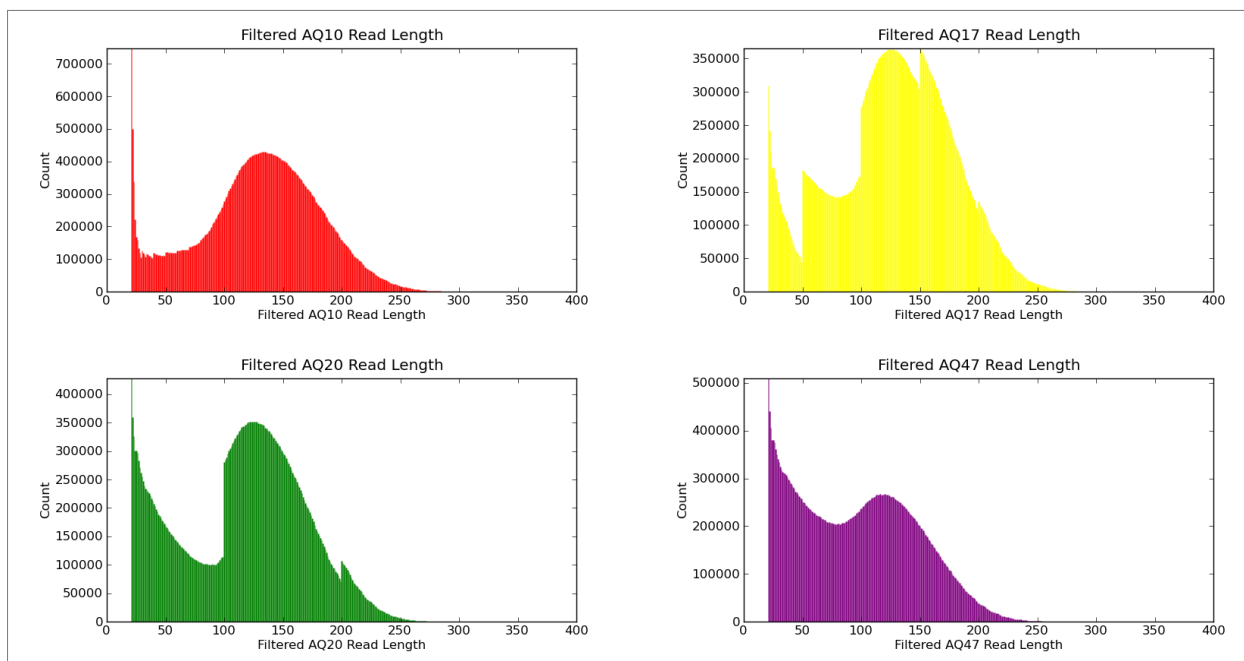
Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	1,078,066	77%	

Alignment Summary (aligned to *Mus musculus 10*)



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	5.59 G	4.76 G	3.77 G
Mean Length [bp]	127	116	96
Longest Alignment [bp]	328	315	307
Mean Coverage Depth	2.0	1.7	1.4



Analysis Details

Run Name	R_2016_03_03.14.04_25_user_IONAS-274-ITlab_160302-CHEF_Chip_IP_ITC108-111
Run Date	March 3, 2016, 2:07 p.m.
Run Flows	520
Projects	ITLab_ChipSeq
Sample	ITC111-Set8KO2, ITC109-wt2, ITC108-wt1, ITC110-Set8KO1
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABB03758
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-274-ITlab_160302-CHEF_Chip_IP_ITC108-111_370
Analysis Date	March 3, 2016, 11:58 p.m.
Analysis Flows	0
runID	QI3MD
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 ^{mpliseq} .xome.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	March 3, 2016, 10:33 a.m.
Chef Instrument Name	CHEF00509
Sample Position	2
Tip Rack Barcode	2522501DC
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	Nov2015
Chip Expiration 2	Feb2016
Templating Kit Type	ION PROTON IC 200 KIT
Reagent Expiration	01987
Reagent Lot Number	0023442
Reagent Part Number	100023442
Solution Lot Number	0022894
Solution Part Number	100022894
Solution Expiration	01986
Chef Script Version	261
Chef Package Version	IC.5.0.0

Software Version

Torrent_Suite	5.0.2
host	FW7DQV1
ion-analysis	5.0.7-1
ion-chefupdates	5.0.1
ion-dbreports	5.0.19-1
ion-gpu	5.0.0-1
ion-pipeline	5.0.12-1
ion-plugins	5.0.17-1
ion-protonupdates	5.0.2
ion-torrentr	5.0.0-1
Script	2.1.33
LiveView	2040
DataCollect	3191
OIA	5002
OS	29
Graphics	52
Ion.Chef	IC.5.0.0