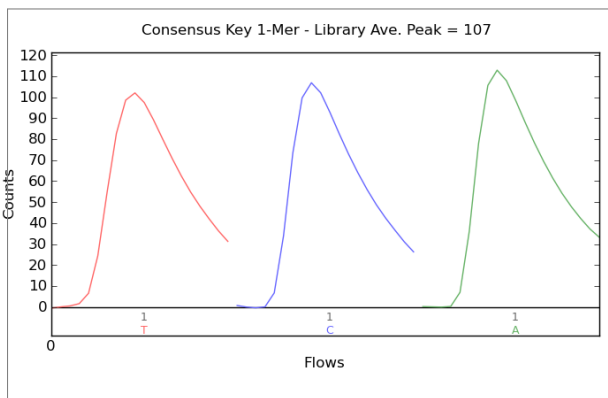
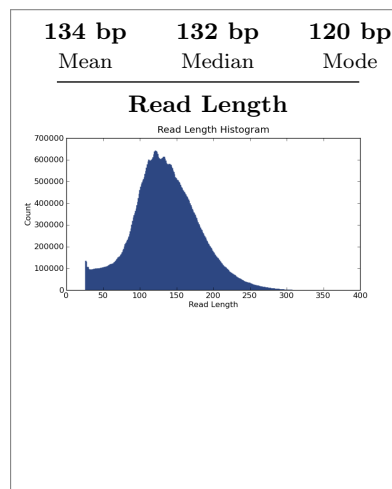
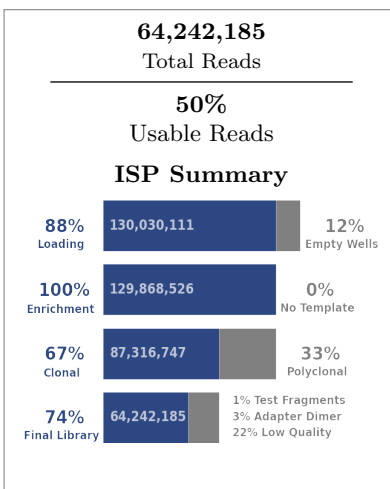
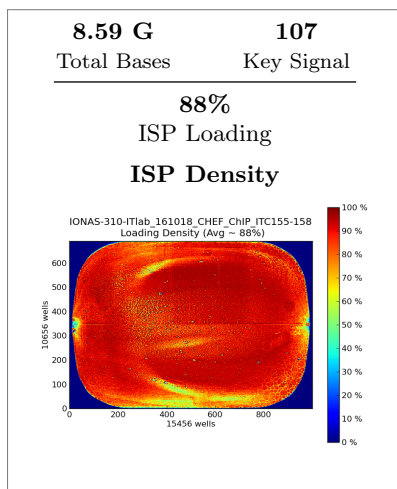


Run Summary



Addressable Wells		148,155,732
With ISPs	130,030,111	87.8%
Live	129,868,526	99.9%
Test Fragment	996,759	00.8%
Library	128,871,767	99.2%

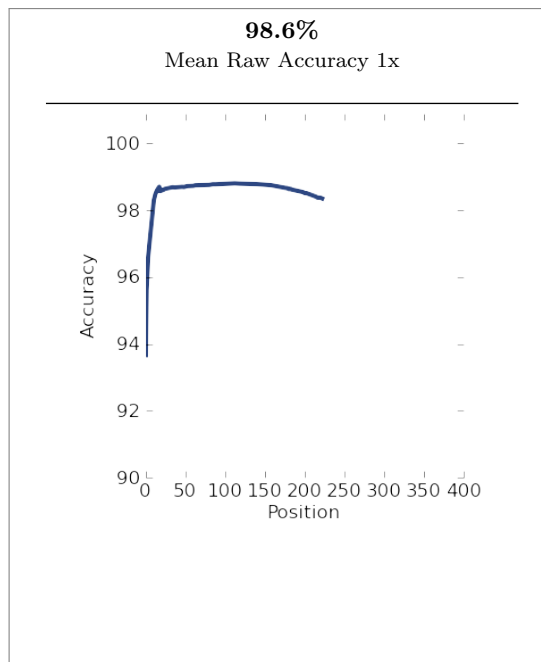
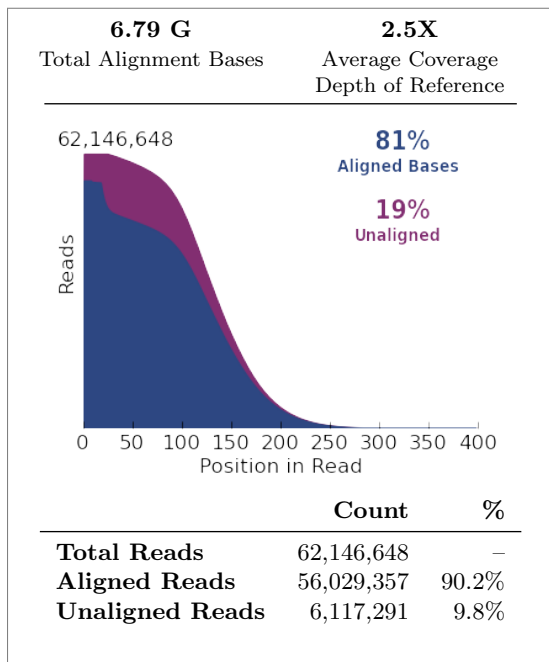
Library ISPs		128,871,767
Filtered: Polyclonal	42,551,779	33.0%
Filtered: Low Quality	20,191,535	15.7%
Filtered: Adapter Dimer	2,412,659	01.9%
Final Library ISPs	64,242,185	49.8%

Notes: ITlab-4YK-ChIPs_ITC155-FOX AIS1-bc1_ITC156-FOX AIS2-bc2_ITC157-FOX APO1-bc3_ITC158-FOX APO2-bc4

Barcode Name	Sample	Bases	≥ Q20	Reads	Mean Read Length
No barcode	none	216,097,456	156,297,789	2,083,182	104 bp
IonXpress_001	ITC155-FOX AIS1	2,284,120,934	1,945,115,034	16,071,895	142 bp
IonXpress_002	ITC156-FOX AIS2	1,986,556,044	1,736,889,387	15,262,003	130 bp
IonXpress_003	ITC157-FOX APO1	1,830,346,722	1,594,219,983	13,922,800	131 bp
IonXpress_004	ITC158-FOX APO2	2,269,405,996	1,976,367,311	16,889,950	134 bp

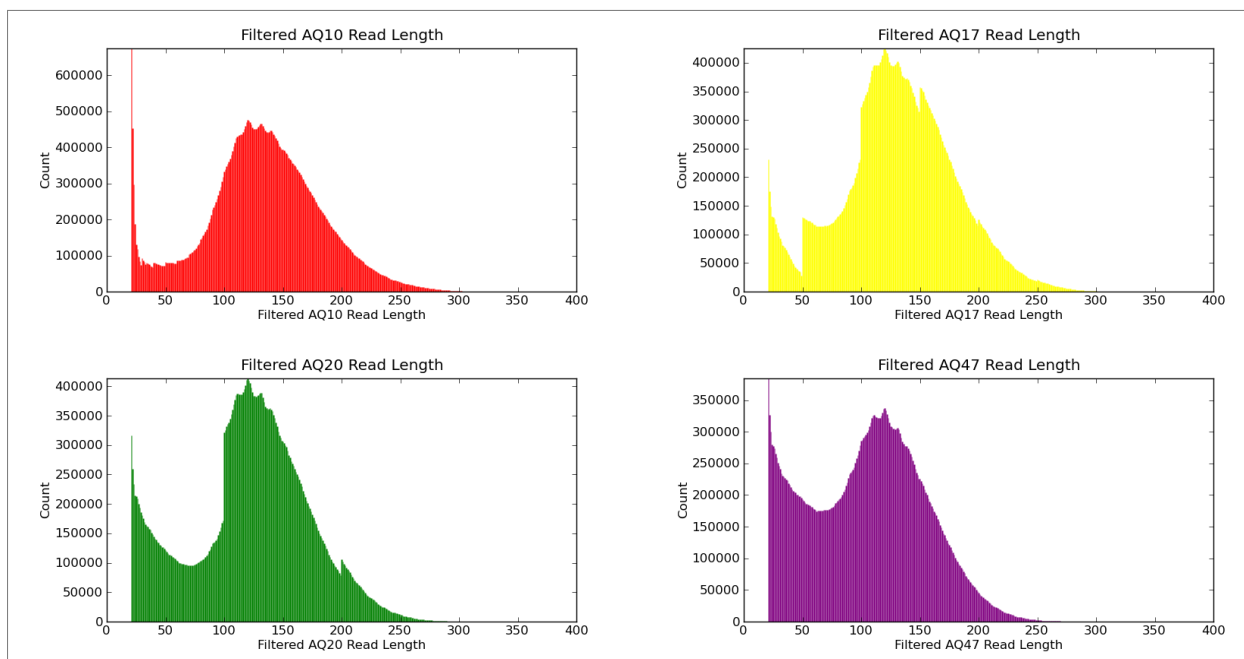
Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	427,920	95%	
TF_1	484,466	89%	

Alignment Summary (aligned to *Mus musculus 10*)



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	5.72 G	5.03 G	4.1 G
Mean Length [bp]	131	122	104
Longest Alignment [bp]	342	332	323
Mean Coverage Depth	2.1	1.8	1.5



Analysis Details

Run Name	R_2016_10_19_14_17_35_user_IONAS-310-ITlab_161018-CHEF_Chip_IP_ITC155-158
Run Date	Oct. 19, 2016, 2:19 p.m.
Run Flows	520
Projects	ITLab_ChipSeq
Sample	ITC156-FOXAIS2, ITC157-FOXAPO1, ITC155-FOXAIS1, ITC158-FOXAPO2
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABE25254
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-310-ITlab_161018-CHEF_Chip_IP_ITC155-158_407
Analysis Date	Oct. 20, 2016, 12:41 a.m.
Analysis Flows	0
runID	FF3BU
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_ampliseq_exe.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	Oct. 19, 2016, 11:02 a.m.
Chef Instrument Name	CHEF00509
Sample Position	1
Tip Rack Barcode	45528002A
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	May2016
Chip Expiration 2	May2016
Templating Kit Type	Ion PI Hi-Q Chef Kit
Reagent Expiration	03710
Reagent Lot Number	1703710
Reagent Part Number	A27284C
Solution Lot Number	1703711
Solution Part Number	A27282C
Solution Expiration	03711
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