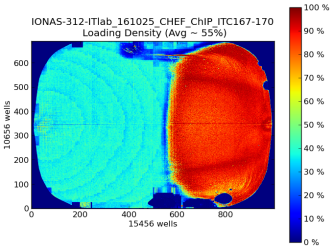
Run Summary

3.74 G Total Bases | **96** Key Signal

55% ISP Loading

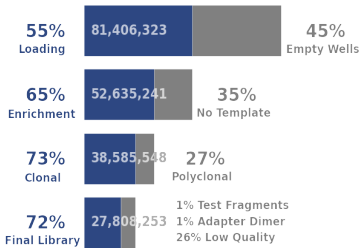
ISP Density



27,808,253 Total Reads

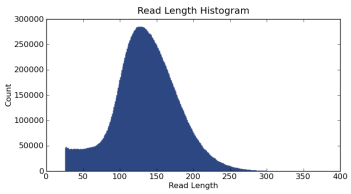
53% Usable Reads

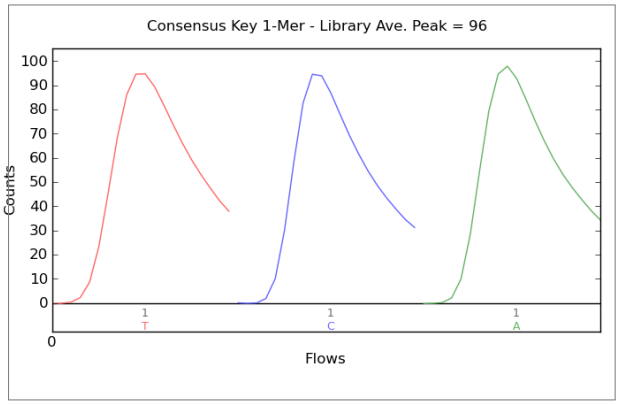
ISP Summary



134 bp Mean | **134 bp** Median | **126 bp** Mode

Read Length





Addressable Wells	**148,155,732**	
With ISPs	81,406,323	54.9%
Live	52,635,241	64.7%
Test Fragment	425,048	00.8%
Library	52,210,193	99.2%

Library ISPs	**52,210,193**	
Filtered: Polyclonal	14,049,693	26.9%
Filtered: Low Quality	10,121,312	19.4%
Filtered: Adapter Dimer	441,745	00.8%
Final Library ISPs	**27,808,253**	**53.3%**

Notes: ITlab-24EP-ChIPs_ITC167-9a-bc13_ITC168-10a-bc14_ITC169-11a-bc15_ITC170-12a-bc16

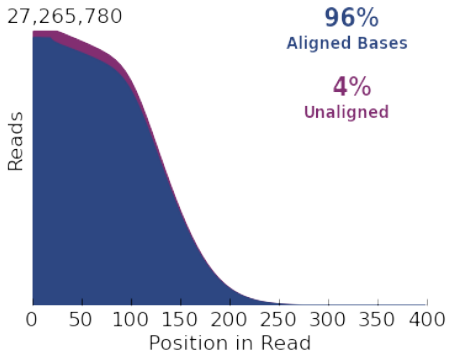
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	66,791,768	54,743,954	534,982	125 bp
IonXpress_013	ITC167-9a	970,782,273	842,036,314	7,285,477	133 bp
IonXpress_014	ITC168-10a	936,171,028	812,804,367	6,929,432	135 bp
IonXpress_015	ITC169-11a	836,608,417	726,447,719	6,226,399	134 bp
IonXpress_016	ITC170-12a	927,091,770	803,147,919	6,824,472	136 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**328,077**	**82%**	

Alignment Summary *(aligned to Mus musculus 10)*

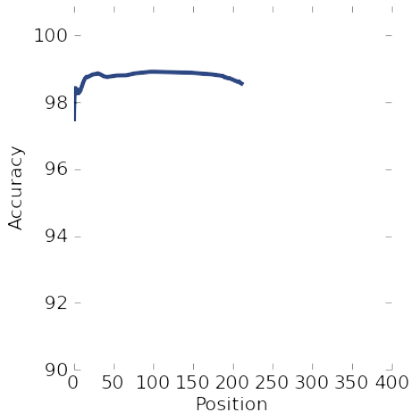
3.51 G
Total Alignment Bases

1.3X
Average Coverage Depth of Reference



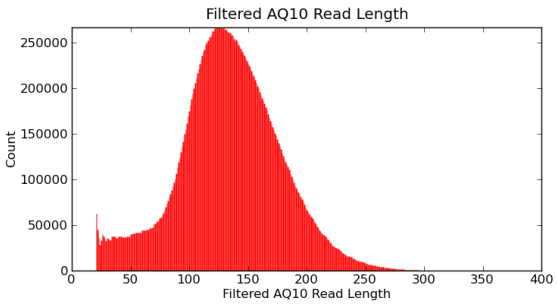
	Count	%
Total Reads	27,265,780	–
Aligned Reads	26,605,483	97.6%
Unaligned Reads	660,297	2.4%

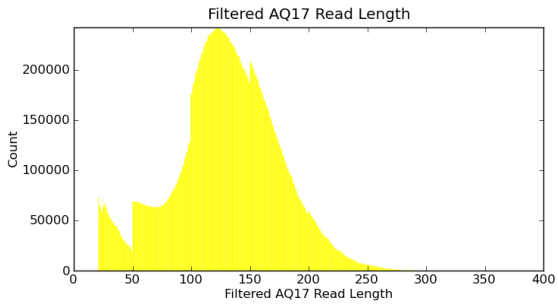
98.8%
Mean Raw Accuracy 1x

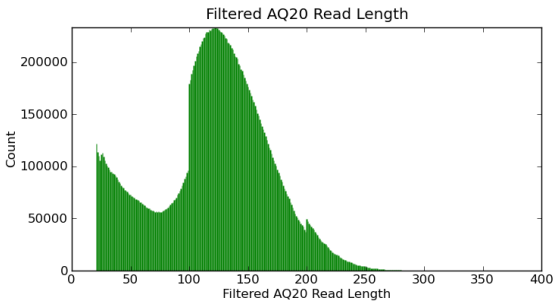


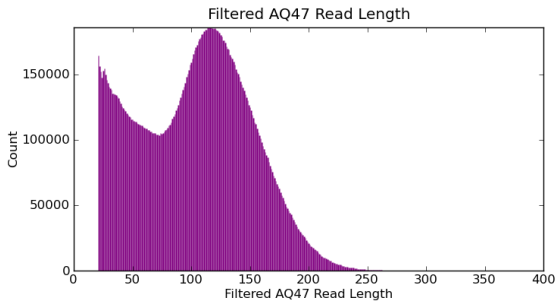
Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	3.1 G	2.75 G	2.25 G
Mean Length [bp]	129	120	102
Longest Alignment [bp]	332	325	317
Mean Coverage Depth	1.1	1.0	0.8









Analysis Details

Run Name	R_2016_10_26_14_13_40_user_IONAS-312-ITlab_161025_CHEF_ChIP_ITC167-170
Run Date	Oct. 26, 2016, 2:15 p.m.
Run Flows	520
Projects	ITLab_ChipSeq
Sample	ITC167-9a, ITC168-10a, ITC170-12a, ITC169-11a
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABE25249
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-312-ITlab_161025_CHEF_ChIP_ITC167-170_410
Analysis Date	Oct. 26, 2016, 9:11 p.m.
Analysis Flows	0
runID	PRFFA
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 –gpt /opt/ion/config/gpt$_p$1.1.17$_a$*mpliseq*$_e$*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. 26, 2016, 11:03 a.m.
Chef Instrument Name	CHEF00509
Sample Position	2
Tip Rack Barcode	2520500CB
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	01986
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