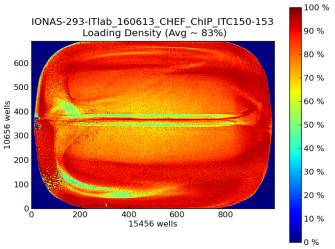
Run Summary

10.6 G Total Bases | **83** Key Signal

83% ISP Loading

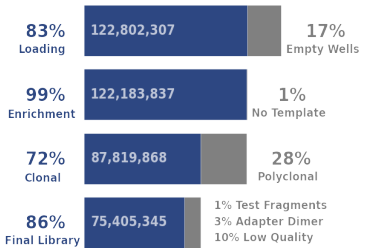
ISP Density



75,405,345 Total Reads

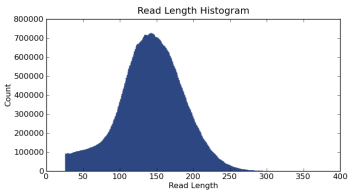
62% Usable Reads

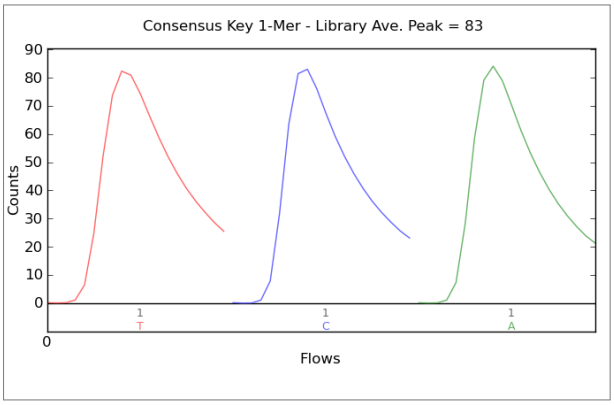
ISP Summary



141 bp Mean | **142 bp** Median | **141 bp** Mode

Read Length



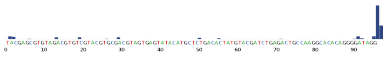


Addressable Wells	**148,155,732**	
With ISPs	122,802,307	82.9%
Live	122,183,837	99.5%
Test Fragment	1,242,170	01.0%
Library	120,941,667	99.0%

Library ISPs	**120,941,667**	
Filtered: Polyclonal	34,363,969	28.4%
Filtered: Low Quality	9,695,688	08.0%
Filtered: Adapter Dimer	2,387,593	02.0%
Final Library ISPs	**75,405,345**	**62.3%**

Notes: ITlab-13YK-FOXA1-ChIPs_ITC150-P14-1-bc10_ITC151-P14-2-bc11_ITC152-P60-1-bc12_ITC153-P60-2-bc13

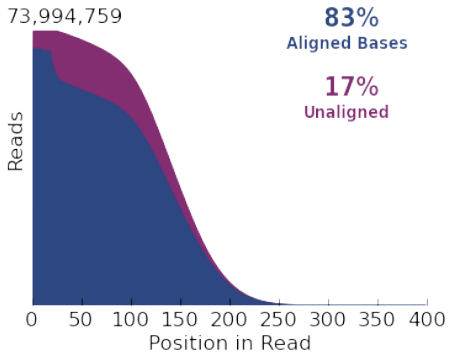
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	191,967,008	156,803,155	1,379,017	139 bp
IonXpress_010	ITC150-P14-1	2,371,380,462	2,016,118,270	16,776,880	141 bp
IonXpress_011	ITC151-P14-2	3,118,472,730	2,652,220,463	22,482,930	139 bp
IonXpress_012	ITC152-P60-1	2,539,535,642	2,176,655,231	17,817,439	143 bp
IonXpress_013	ITC153-P60-2	2,407,054,612	2,058,164,440	16,917,510	142 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**1,116,346**	**73%**	

Alignment Summary *(aligned to Mus musculus 10)*

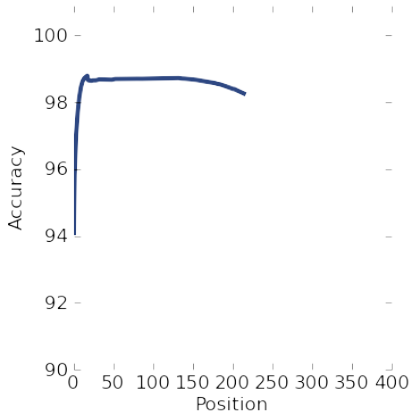
8.67 G
Total Alignment Bases

3.2X
Average Coverage Depth of Reference



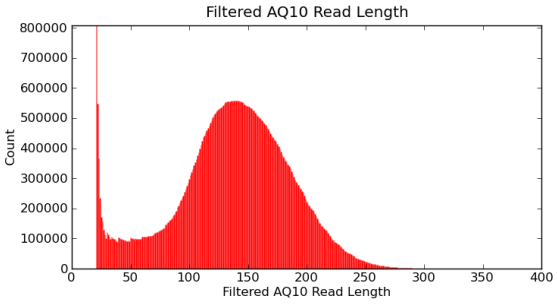
	Count	%
Total Reads	73,994,759	–
Aligned Reads	69,153,111	93.5%
Unaligned Reads	4,841,648	6.5%

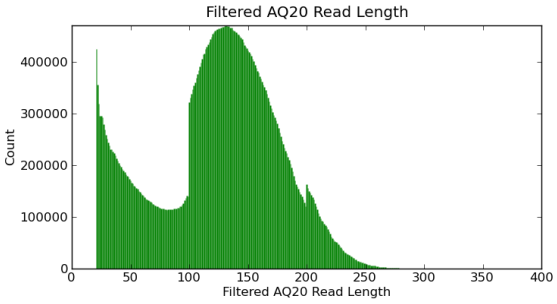
98.6%
Mean Raw Accuracy 1x

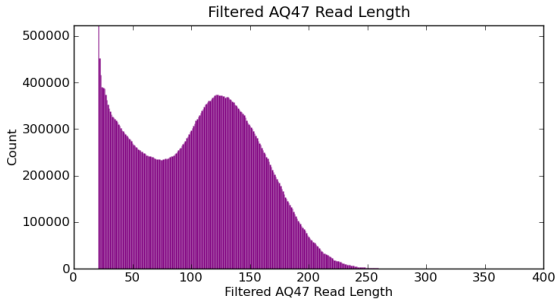


Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	7.4 G	6.5 G	5.26 G
Mean Length [bp]	134	124	104
Longest Alignment [bp]	329	322	308
Mean Coverage Depth	2.7	2.4	1.9







Analysis Details

Run Name	R_2016_06_14_14_56_45_user_IONAS-293-ITlab_160613_CHEF_ChIP_ITC150-153
Run Date	June 14, 2016, 2:58 p.m.
Run Flows	520
Projects	ITLab_ChipSeq
Sample	ITC151-P14-2, ITC152-P60-1, ITC150-P14-1, ITC153-P60-2
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABD24035
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-293-ITlab_160613_CHEF_ChIP_ITC150-153_391
Analysis Date	June 15, 2016, 1:16 a.m.
Analysis Flows	0
runID	TTU8B
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	June 14, 2016, 11:03 a.m.
Chef Instrument Name	CHEF00509
Sample Position	2
Tip Rack Barcode	2522501D9
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	Apr2016
Chip Expiration 2	Apr2016
Templating Kit Type	Ion PI IC 200 Kit
Reagent Expiration	151225
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	5.0.4
host	FW7DQV1
ion-analysis	5.0.13-1
ion-chefupdates	5.0.3
ion-dbreports	5.0.33-1
ion-gpu	5.0.0-1
ion-pipeline	5.0.16-1
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