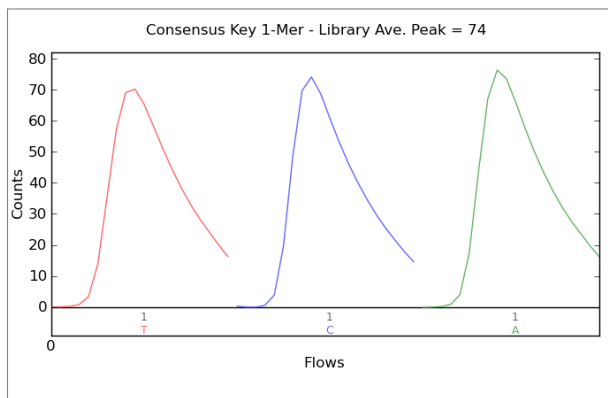
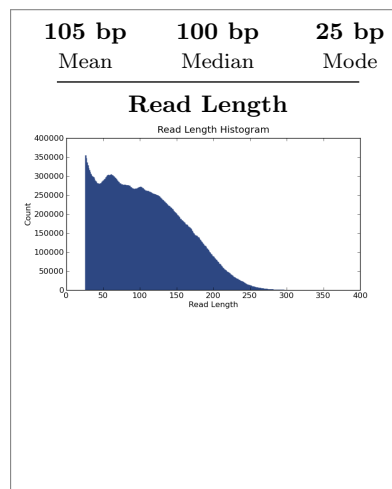
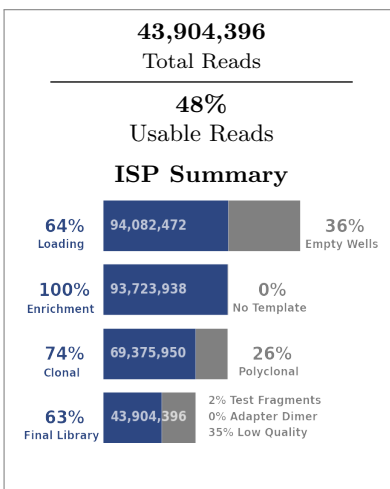
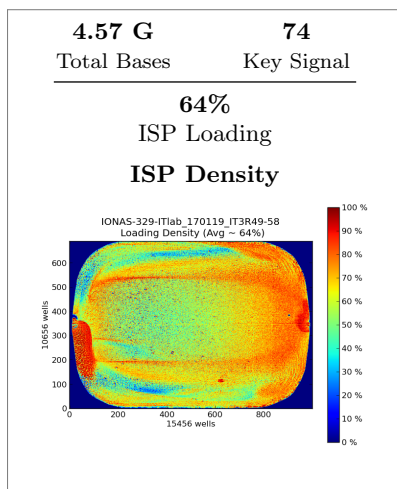


Run Summary



Addressable Wells	148,155,732	
With ISPs	94,082,472	63.5%
Live	93,723,938	99.6%
Test Fragment	1,589,464	01.7%
Library	92,134,474	98.3%
Library ISPs	92,134,474	
Filtered: Polyclonal	24,347,988	26.4%
Filtered: Low Quality	24,253,743	26.3%
Filtered: Adapter Dimer	90,421	00.1%
Final Library ISPs	43,904,396	47.7%

Notes: ITlab_EP-3RNA-10samples_IT3R49-58_wtDENTCP-USP22koDENTCP

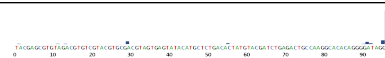
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	198,070,599	155,181,034	1,937,982	102 bp
IonXpress_010	none	8,198,585	6,437,101	61,452	133 bp
IonXpress_011	none	8,642,059	6,728,832	62,057	139 bp
IonXpress_012	none	13,370,607	10,943,415	113,259	118 bp
IonXpress_013	none	8,021,422	6,435,436	59,779	134 bp
IonXpress_025	IT3R49-wt1	522,999,782	401,074,932	4,292,833	122 bp
IonXpress_026	IT3R50-wt3	344,908,658	275,830,347	3,700,750	93 bp
IonXpress_027	IT3R51-wt4	298,482,052	236,187,912	3,705,100	81 bp
IonXpress_028	IT3R52-wt6	547,360,218	432,715,384	4,740,856	115 bp
IonXpress_029	IT3R53-wt7	237,839,935	190,471,953	2,599,816	91 bp
IonXpress_030	IT3R54-ko1	651,053,725	518,157,968	5,836,320	112 bp

Run Report for Auto_user_IONAS-329-ITlab_170119_IT3R49-58_428

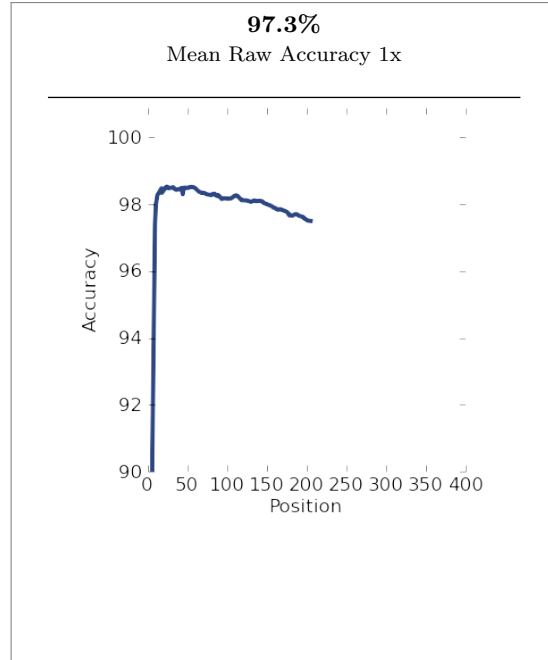
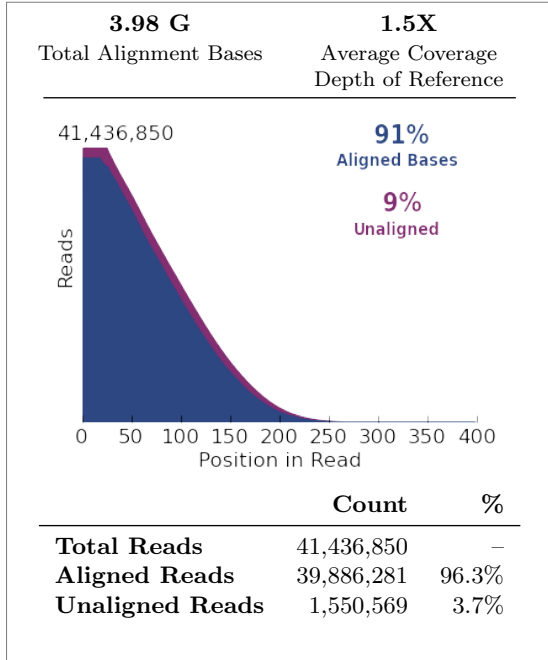
IonXpress_031	IT3R55-ko3	542,069,646	427,471,623	4,893,272	111 bp
IonXpress_032	IT3R56-ko4	612,293,878	483,595,833	5,230,261	117 bp
IonXpress_036	none	16,165,193	13,450,928	129,428	125 bp
IonXpress_037	none	16,107,241	13,548,166	128,487	125 bp
IonXpress_040	IT3R57-ko6	437,926,989	349,581,372	4,290,827	102 bp
IonXpress_045	none	11,976,899	9,157,631	104,305	115 bp
IonXpress_048	IT3R58-ko7	98,453,989	77,545,909	1,488,048	66 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
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TF_C	1,540,631	85%	
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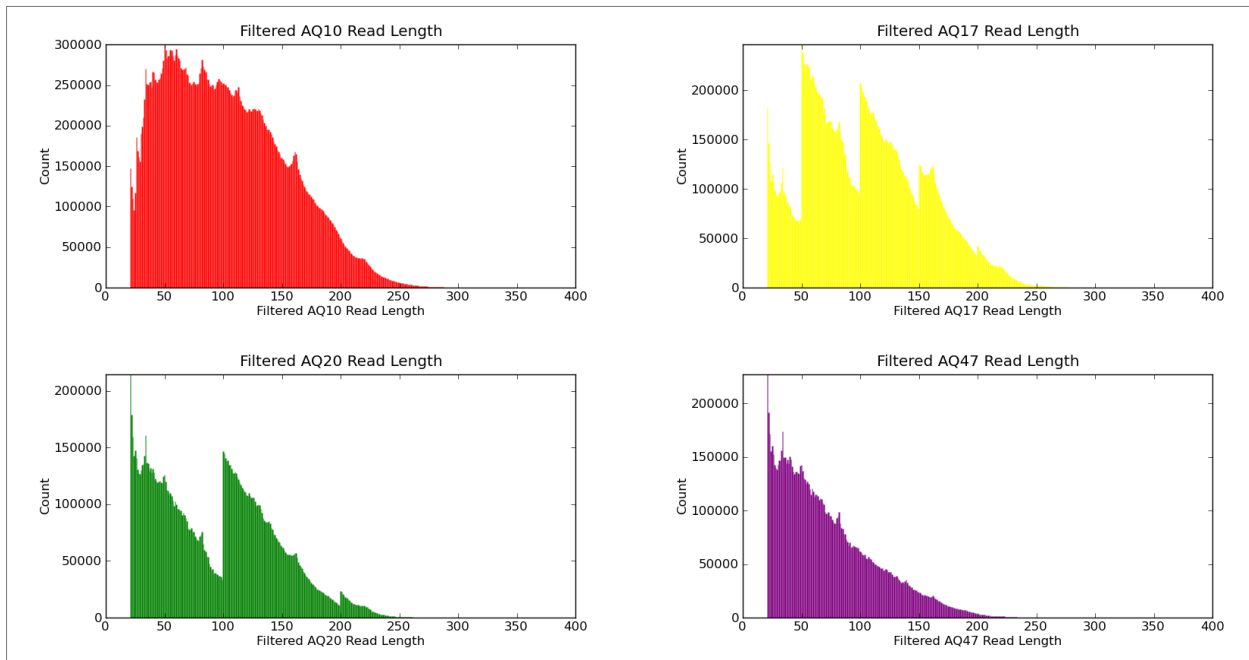


Alignment Summary (aligned to *Mus musculus 10*)



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	2.41 G	1.41 G	869 M
Mean Length [bp]	104	93	72
Longest Alignment [bp]	323	322	297
Mean Coverage Depth	0.9	0.5	0.3



Analysis Details

Run Name	R_2017_01_20_13_47_13_user_IONAS-329-ITlab_170119_IT3R49-58
Run Date	Jan. 20, 2017, 1:49 p.m.
Run Flows	520
Projects	ITLab_3RNAseq , LexoGen_QuantSeq
Sample	IT3R53-wt7, IT3R52-wt6, IT3R58-ko7, IT3R56-ko4, IT3R57-ko6, IT3R50-wt3, IT3R54-ko1, IT3R49-wt1, IT3R51-wt4, IT3R55-ko3
Reference	
Instrument	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DABE25253
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-329-ITlab_170119_IT3R49-58_428
Analysis Date	Jan. 20, 2017, 10:30 p.m.
Analysis Flows	0
runID	XPTYT
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 _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	Jan. 20, 2017, 11:05 a.m.
Chef Instrument Name	CHEF00509
Sample Position	1
Tip Rack Barcode	252190053
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	83276
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