Run Summary

3.7 G	102
Total Bases	Key Signal

79%
ISP Loading

ISP Density

44,888,609
Total Reads

39%
Usable Reads

ISP Summary

82 bp	65 bp	65 bp
Mean	Median	Mode

Read Length

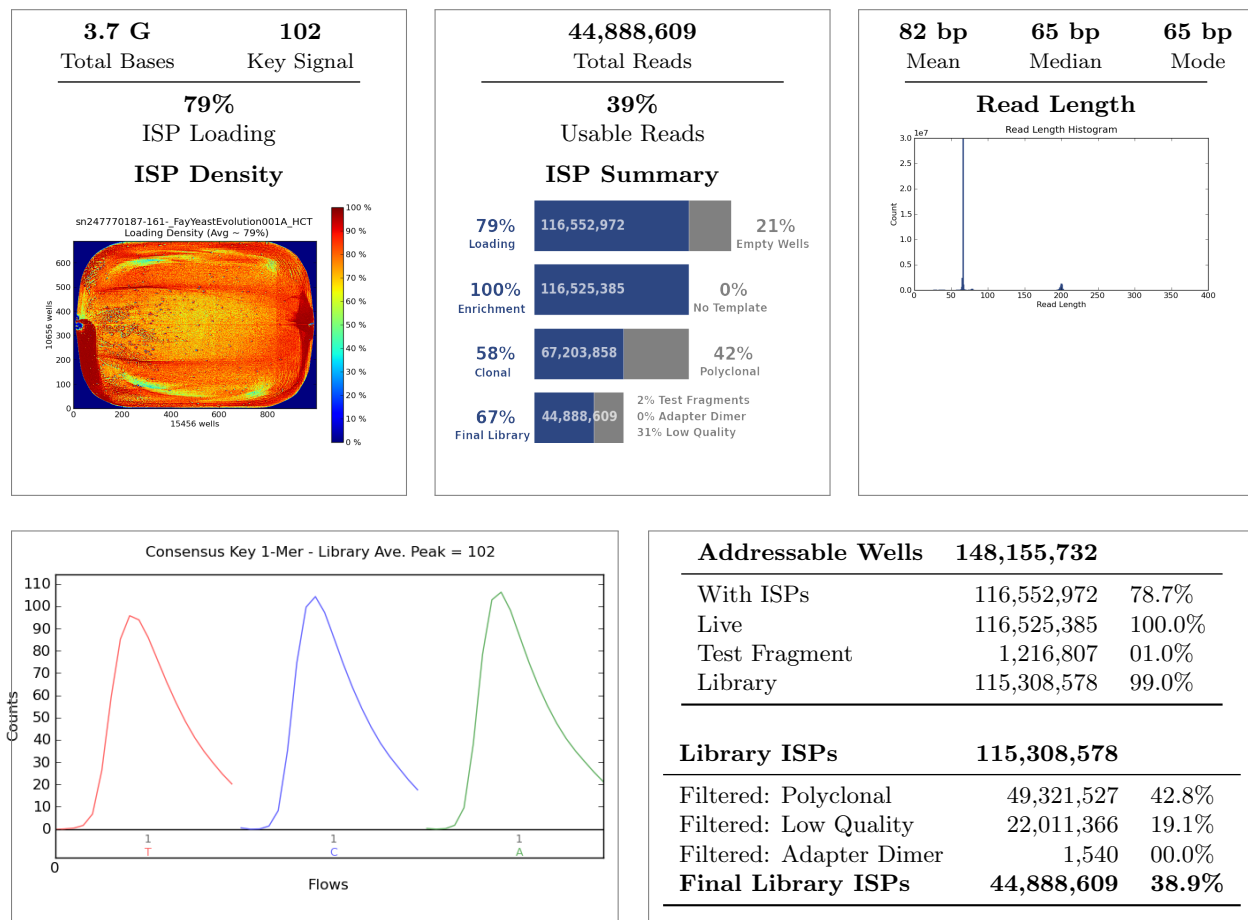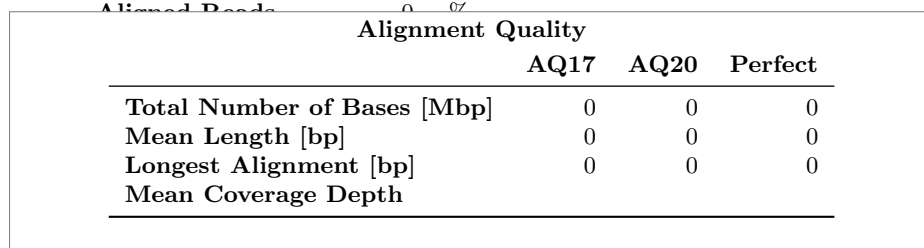| Addressable Wells	148,155,732	
With ISPs	116,552,972	78.7%
Live	116,525,385	100.0%
Test Fragment	1,216,807	01.0%
Library	115,308,578	99.0%
Library ISPs	**115,308,578**	
Filtered: Polyclonal	49,321,527	42.8%
Filtered: Low Quality	22,011,366	19.1%
Filtered: Adapter Dimer	1,540	00.0%
Final Library ISPs	**44,888,609**	**38.9%**

Notes: 2 unbarcoded samples FC8 and FC9 will have to be decoded from the no barcode file

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	788,630,079	654,580,838	5,506,189	143 bp
IonXpress_017	PC1	177,767,436	167,980,692	2,754,210	65 bp
IonXpress_018	PC2	113,169,832	106,156,602	1,744,970	65 bp
IonXpress_019	PC3	151,052,887	143,679,735	2,335,491	65 bp
IonXpress_020	PC4	308,772,284	293,433,292	4,781,402	65 bp
IonXpress_021	PC5	279,580,608	267,704,462	4,334,581	65 bp
IonXpress_022	PC6	191,240,357	182,364,759	2,959,027	65 bp
IonXpress_023	PC7	284,083,717	270,715,699	4,401,390	65 bp
IonXpress_024	PC8	246,242,590	235,181,511	3,814,118	65 bp
IonXpress_025	PC9	255,354,309	239,719,925	3,967,338	64 bp
IonXpress_026	PC10	280,496,331	265,532,282	4,382,562	64 bp

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IonXpress_027	FC1	54,463,925	46,080,192	346,004	157 bp
IonXpress_028	FC2	56,275,669	46,536,749	340,809	165 bp
IonXpress_029	FC3	183,053	146,369	1,340	137 bp
IonXpress_030	FC4	177,355,667	149,342,319	1,127,886	157 bp
IonXpress_031	FC5	121,886,042	101,140,999	735,749	166 bp
IonXpress_032	FC7	85,553,209	71,768,102	527,636	162 bp
IonXpress_033	FC6	129,535,790	109,419,347	827,670	157 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**557,068**	**96%**	
TF_1	**634,273**	**91%**	

Alignment Summary *(aligned to)*

0
Total Alignment Bases

Average Coverage
Depth of Reference

alignment_rate_plot.png

	Count	%
Total Reads	0	–
Aligned Reads	0	%

%
Mean Raw Accuracy 1x

base_error_plot.png

Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	0	0	0
Mean Length [bp]	0	0	0
Longest Alignment [bp]	0	0	0
Mean Coverage Depth			

Filtered_Alignments_Q10.png

Filtered_Alignments_Q17.png

Filtered_Alignments_Q20.png

Filtered_Alignments_Q47.png

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Analysis Details

Run Name	R_2016_07_15_19_31_46_sn247770187_sn247770187-161-_FayYeastEvolution001A_HCT
Run Date	July 15, 2016, 7:34 p.m.
Run Flows	520
Projects	FayYeastEvolution
Sample	PC3, PC2, PC9, PC8, FC7, FC6, FC5, FC4, FC3, FC2, FC1, PC10, PC5, PC4, PC7, PC6, PC1
Reference	
Instrument	sn247770187
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DACB03196
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_sn247770187_sn247770187-161-_FayYeastEvolution001A_HCT_225
Analysis Date	July 16, 2016, 2:58 a.m.
Analysis Flows	0
runID	JVB4K
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 $--mixed-first-flow12--mixed-last-flow120$
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	custom

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Chef Summary

Chef Template Prep Information:

Chef Last Updated	July 15, 2016, 7:35 p.m.
Chef Instrument Name	CHEF00781
Sample Position	2
Tip Rack Barcode	45608017E
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	Feb2017
Chip Expiration 2	Feb2017
Templating Kit Type	Ion PI Hi-Q Chef Kit
Reagent Expiration	42720
Reagent Lot Number	1742720
Reagent Part Number	A27284C
Solution Lot Number	1715364
Solution Part Number	A27282C
Solution Expiration	15364
Chef Script Version	263
Chef Package Version	IC.5.0.1

Software Version

Torrent_Suite	5.0.4
host	3YCZK02
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

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