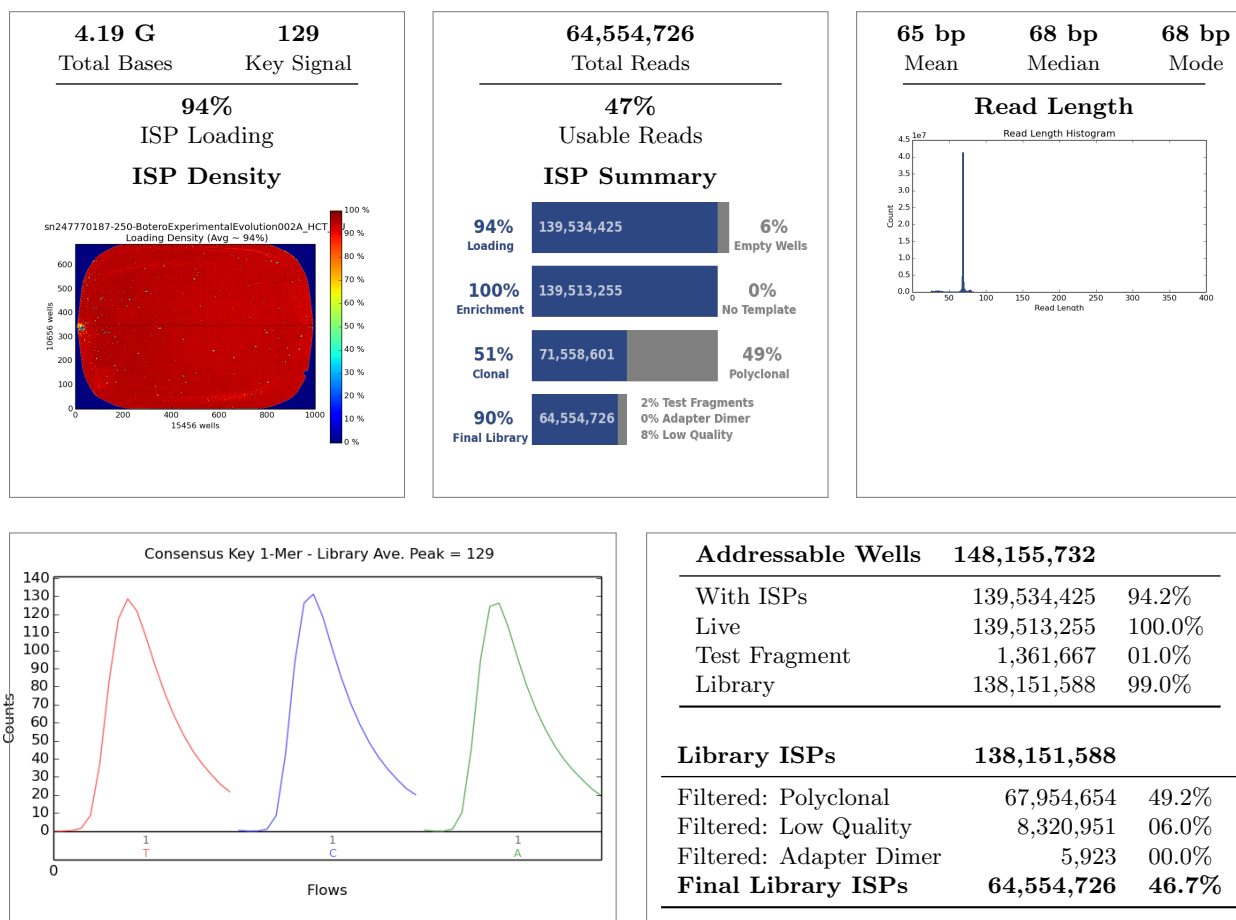


## Run Summary




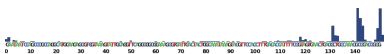
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	482,474,979	304,108,338	8,751,781	55 bp
IonXpress_017	Ion_17	355,339,127	333,386,883	5,370,613	66 bp
IonXpress_018	Ion_18	483,600,380	450,987,494	7,241,327	67 bp
IonXpress_019	Ion_19	563,478,789	531,232,537	8,477,035	66 bp
IonXpress_020	Ion_20	542,179,819	516,869,922	8,085,690	67 bp
IonXpress_021	Ion_21	593,396,653	559,464,400	8,972,183	66 bp
IonXpress_022	Ion_22	435,950,093	414,790,993	6,523,634	67 bp
IonXpress_023	Ion_23	563,817,253	528,199,068	8,539,055	66 bp
IonXpress_024	Ion_24	50,063,520	47,636,653	747,811	67 bp
IonXpress_025	Ion_25	123,184,111	116,731,971	1,844,812	67 bp
IonXpress_026	Ion_26	45,477	43,605	675	67 bp
IonXpress_027	Ion_27	0	0	0	N/A

Run Report for  
Auto\_user\_sn247770187-250-BoteroExperimentalEvolution002A\_HCT\_PU\_369

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IonXpress_028	Ion_28	0	0	0	N/A
IonXpress_029	Ion_29	0	0	0	N/A
IonXpress_030	Ion_30	0	0	0	N/A
IonXpress_031	Ion_31	0	0	0	N/A
IonXpress_032	Ion_32	0	0	0	N/A
IonXpress_033	Ion_33	0	0	0	N/A
IonXpress_034	Ion_34	123	105	2	62 bp
IonXpress_035	Ion_35	0	0	0	N/A
IonXpress_036	Ion_36	28	21	1	28 bp
IonXpress_037	Ion_37	0	0	0	N/A
IonXpress_038	Ion_38	0	0	0	N/A
IonXpress_039	Ion_39	0	0	0	N/A
IonXpress_040	Ion_40	0	0	0	N/A

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Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
<b>TF_C</b>	<b>1,189,044</b>	<b>98%</b>	
<b>TF_1</b>	<b>159,239</b>	<b>92%</b>	

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Alignment Summary (*aligned to* )

0

Total Alignment Bases

Average Coverage

Depth of Reference

alignment\_rate\_plot.png

Count

%

Total Reads

0

—

Aligned Reads

0

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

Run Report for  
Auto\_user\_sn247770187-250-BoteroExperimentalEvolution002A\_HCT\_PU\_369

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Filtered\_Alignments\_Q10.png

Filtered\_Alignments\_Q17.png

Filtered\_Alignments\_Q20.png

Filtered\_Alignments\_Q47.png

## Analysis Details

Run Name	R_2017_05_16_12_27_26_user_sn247770187-250-BoteroExperimentalEvolution002A_HCT_PU
Run Date	May 16, 2017, 12:29 p.m.
Run Flows	520
Projects	
Sample	Ion_25, Ion_28, Ion_29, Ion_17, Ion_24, Ion_22, Ion_23, Ion_20, Ion_21, Ion_19, Ion_18, Ion_40, Ion_31, Ion_30, Ion_33, Ion_32, Ion_35, Ion_34, Ion_37, Ion_36, Ion_39, Ion_38, Ion_26, Ion_27
Reference	
Instrument	sn247770187
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip ID	DACI11775
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Chip Lot Number	QMB496
Barcode Set	HCT.barcode_set.PU
Analysis Name	Auto_user_sn247770187-250-BoteroExperimentalEvolution002A_HCT_PU_369
Analysis Date	May 16, 2017, 10:14 p.m.
Analysis Flows	0
runID	PKX6C
BeadFind Args	justBeadFind -args-json /opt/ion/config/args_P1.1.17_beadfind.json
Analysis Args	Analysis -args-json /opt/ion/config/args_P1.1.17_analysis.json -mixed-first-flow 12 -mixed-last-flow 120
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 -max-phasing-levels 2 -num-unfiltered 1000 -barcode-filter-postpone 1
Alignment Args	tmap mapall ... stage1 map4
IonStats Args	ionstats alignment
Analysis Parameters	custom

## Chef Summary

### Chef Template Prep Information:

<b>Chef Last Updated</b>	May 16, 2017, 9:42 a.m.
<b>Chef Instrument Name</b>	CHEF00781
<b>Sample Position</b>	2
<b>Tip Rack Barcode</b>	46203006C
<b>Chip Type 1</b>	P1v3
<b>Chip Type 2</b>	P1v3
<b>Chip Expiration 1</b>	Sep2017
<b>Chip Expiration 2</b>	Sep2017
<b>Templating Kit Type</b>	Ion PI Hi-Q Chef Kit
<b>Reagent Expiration</b>	170731
<b>Reagent Lot Number</b>	1810853
<b>Reagent Part Number</b>	A27284C
<b>Solution Lot Number</b>	1774261
<b>Solution Part Number</b>	A27282C
<b>Solution Expiration</b>	170831
<b>Chef Script Version</b>	406
<b>Chef Package Version</b>	IC.5.2.1
<b>Templating Protocol</b>	(use instrument default)

### Software Version

<b>Torrent_Suite</b>	5.2.2
<b>host</b>	3YCZK02
<b>ion-analysis</b>	5.2.25-1
<b>ion-chefupdates</b>	5.2.8
<b>ion-dbreports</b>	5.2.50-1
<b>ion-gpu</b>	5.2.0-1
<b>ion-pipeline</b>	5.2.14-1
<b>ion-plugins</b>	5.2.20-1
<b>ion-protonupdates</b>	5.2.4
<b>ion-s5updates</b>	5.2.9
<b>ion-torrentpy</b>	5.2.2-1
<b>ion-torrentr</b>	5.2.0-1
<b>Script</b>	2.1.40
<b>LiveView</b>	2195
<b>DataCollect</b>	3400
<b>OIA</b>	5208
<b>OS</b>	32
<b>Graphics</b>	86
<b>Ion.Chef</b>	IC.5.2.1