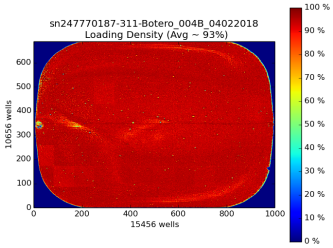
Run Summary

6.06 G Total Bases | **137** Key Signal

93% ISP Loading

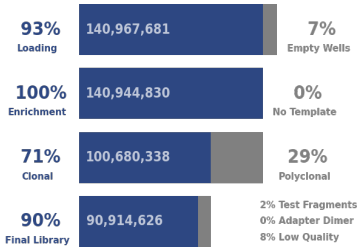
ISP Density



90,914,626 Total Reads

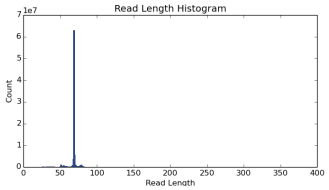
66% Usable Reads

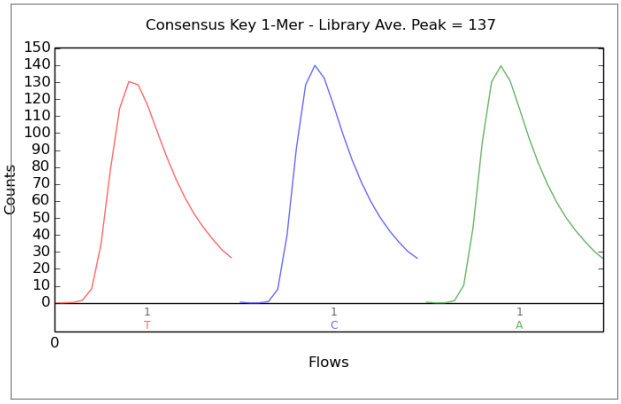
ISP Summary



67 bp Mean | **68 bp** Median | **68 bp** Mode

Read Length





Addressable Wells	**151,539,288**	
With ISPs	140,967,681	93.0%
Live	140,944,830	100.0%
Test Fragment	2,400,117	01.7%
Library	138,544,713	98.3%
Library ISPs	**138,544,713**	
Filtered: Polyclonal	40,264,492	29.1%
Filtered: Low Quality	7,350,828	05.3%
Filtered: Adapter Dimer	14,767	00.0%
Final Library ISPs	**90,914,626**	**65.6%**

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	553,046,758	397,632,732	8,232,882	67 bp	
IonXpress_017	BC17	423,998,519	404,308,402	6,294,265	67 bp	
IonXpress_018	BC18	197,232,053	183,219,816	2,916,662	67 bp	
IonXpress_019	BC19	297,397,618	283,107,963	4,427,084	67 bp	
IonXpress_020	BC20	378,047,308	361,440,630	5,611,399	67 bp	
IonXpress_021	BC21	397,980,629	380,353,094	5,937,421	67 bp	
IonXpress_022	BC22	209,019,408	199,649,056	3,108,435	67 bp	
IonXpress_024	BC24	373,966,565	357,103,874	5,722,021	65 bp	

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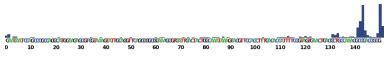
IonXpress_025	BC25	441,787,798	422,307,659	6,632,903	66 bp	
IonXpress_026	BC26	388,710,244	374,654,018	5,780,897	67 bp	
IonXpress_028	BC28	372,209,055	356,944,126	5,876,812	63 bp	
IonXpress_029	BC29	396,648,354	375,605,319	5,906,645	67 bp	
IonXpress_030	BC30	342,959,535	327,618,095	5,106,788	67 bp	
IonXpress_031	BC31	330,784,419	314,050,753	4,984,183	66 bp	
IonXpress_032	BC32	221,723,139	211,686,282	3,368,887	65 bp	
IonXpress_033	BC33	18,193	17,521	273	66 bp	
IonXpress_034	BC34	105,517,012	99,604,685	1,558,730	67 bp	
IonXpress_035	BC35	257,131,133	244,058,945	3,852,654	66 bp	
IonXpress_036	BC36	368,418,742	354,006,298	5,583,775	65 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**1,895,382**	**98**	
TF_1	**460,447**	**92**	

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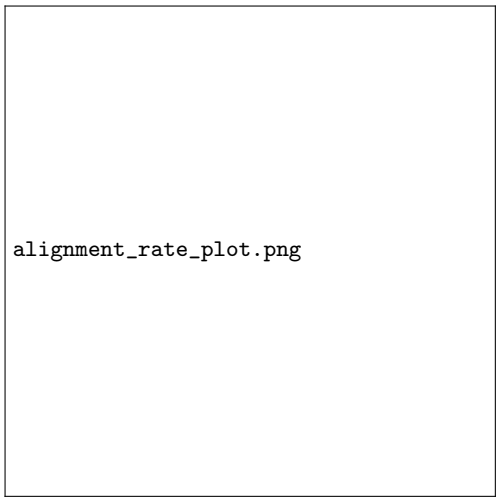
Alignment Summary *(aligned to)*

0

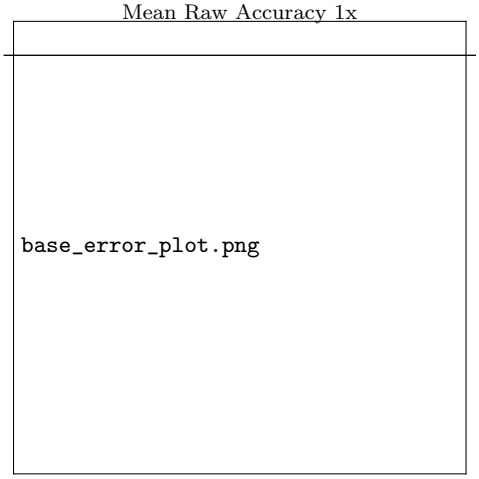
Total Alignment Bases

Average Coverage Depth of Reference



%

Mean Raw Accuracy 1x



	Count	%
Total Reads	0	–
Aligned Reads	0	%

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			

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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_2018_04_03_10_04_18_user_sn247770187-311-Botero_004B_04022018
Run Date	April 3, 2018, 10:08 a.m.
Run Flows	520
Projects	BoteroExperimentalEvolution
Sample	BC17, BC26, BC19, BC36, BC18, BC20, BC21, BC22, BC25, BC35, BC31, BC28, BC30, BC34, BC33, BC32, BC24, BC29
Reference	
Instrument	sn247770187
Operation Mode	Customer mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	DADJ01123
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Chip Lot Number	QPP313
Chip Wafer	04
Barcode Set	HCT_barcode_set_PU
Analysis Name	Auto_user_sn247770187-311-Botero_004B_04022018_465
Analysis Date	April 3, 2018, 5:26 p.m.
Analysis Flows	0
runID	0WU8P
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	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

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Chef Summary

Chef Template Prep Information:

Chef Last Updated	April 3, 2018, 10:03 a.m.
Chef Instrument Name	CHEF00781
Chef Operation Mode	Customer Mode
Sample Position	2
Tip Rack Barcode	472210153
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	Oct2018
Chip Expiration 2	Oct2018
Templating Kit Type	Ion PI Hi-Q Chef Kit
Reagent Expiration	181031
Reagent Lot Number	1874656
Reagent Part Number	A27284C
Solution Lot Number	1871873
Solution Part Number	A27282C
Solution Expiration	180831
Templating Protocol Executed	(use instrument default)
Templating Protocol Planned	(use instrument default)
Chef Script Version	609
Chef Package Version	IC.5.6.0
Start Time	April 2, 2018, 1:21 p.m.
Completion Time	April 3, 2018, 10:03 a.m.

Software Version

Torrent_Suite	5.6.0
host	3YCZK02
ion-analysis	5.6.8-1
ion-chefupdates	5.6.0
ion-dbreports	5.6.37-1
ion-gpu	5.6.0-1
ion-pipeline	5.6.12-1
ion-plugins	5.6.16-1
ion-protonupdates	5.6.0
ion-s5updates	5.6.0
ion-torrentpy	5.6.8-1
ion-torrentr	5.6.8-1
Script	2.1.42
LiveView	2334
DataCollect	3536
OIA	5603
OS	33
Graphics	89
Ion_Chef	IC.5.6.0