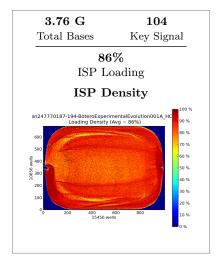
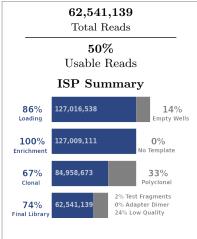
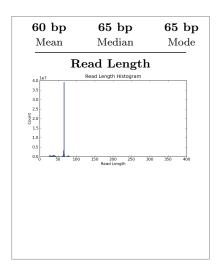
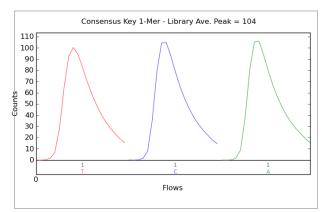
Run Summary









Addressable Wells	$148,\!155,\!732$	
With ISPs	127,016,538	85.7%
Live	127,009,111	100.0%
Test Fragment	1,850,137	01.5%
Library	$125,\!158,\!974$	98.5%
	125,158,974	
U	42,050,438	33.6%
Library ISPs Filtered: Polyclonal Filtered: Low Quality	, ,	33.6% 17.4%
Filtered: Polyclonal	42,050,438	00.0,0

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	572,051,009	306,801,369	11,575,928	49 bp
$Ion Xpress_017$	$Ion_{-}17$	168,408,649	155,840,923	2,685,170	63 bp
$Ion Xpress_018$	$Ion_{-}18$	83,178,972	$75,\!556,\!892$	$1,\!329,\!155$	63 bp
$Ion Xpress_019$	$Ion_{-}19$	$74,\!684,\!422$	68,942,159	1,192,876	63 bp
$IonXpress_020$	Ion_20	51,649,598	47,082,377	834,950	62 bp
$IonXpress_021$	$Ion_{-}21$	48,004,254	44,541,997	759,939	63 bp
$IonXpress_022$	Ion_22	44,037,766	$40,\!323,\!374$	708,423	62 bp
$IonXpress_023$	Ion_23	124,770,637	115,495,772	1,981,093	63 bp
$IonXpress_024$	$Ion_{-}24$	55,453,464	51,430,242	884,029	63 bp
$IonXpress_025$	Ion_25	74,626,974	68,527,844	1,194,568	62 bp
$IonXpress_026$	$Ion_{-}26$	57,710,911	52,743,569	935,294	62 bp
IonXpress_027	Ion_27	348,598,505	316,154,811	5,665,790	62 bp



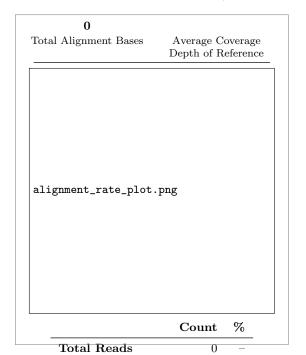
$Run\ Report\ for \\ Auto_sn247770187_sn247770187-194-BoteroExperimentalEvolution001A_HCT_260$

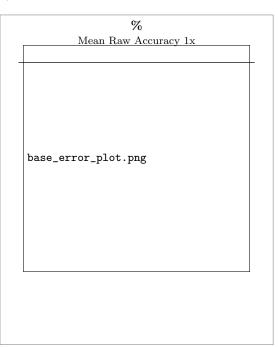
$Ion Xpress_028$	Ion_28	310,687,276	291,336,489	4,883,311	64 bp
$Ion Xpress_029$	Ion_29	342,739,181	312,566,751	5,521,884	62 bp
$Ion Xpress_030$	Ion_30	307,433,943	287,247,974	4,823,959	64 bp
$Ion Xpress_031$	Ion_31	386,865,920	352,446,273	6,240,914	62 bp
$Ion Xpress_032$	Ion_32	323,314,694	297,949,594	5,204,486	62 bp
$Ion Xpress_033$	Ion_33	$45,\!674,\!221$	42,457,216	720,460	63 bp
$Ion Xpress_034$	Ion_34	$42,\!187,\!531$	39,018,398	667,799	63 bp
$Ion Xpress_035$	Ion_35	41,785,991	38,624,004	658,010	64 bp
$Ion Xpress_036$	Ion_36	$56,\!545,\!293$	$51,\!961,\!563$	900,993	63 bp
$Ion Xpress_037$	Ion_37	48,330,397	44,767,859	764,840	63 bp
$Ion Xpress_038$	Ion_38	41,921,338	38,974,580	659,324	64 bp
$Ion Xpress_039$	Ion_39	53,816,377	$49,\!446,\!559$	869,506	62 bp
$Ion Xpress_040$	Ion_40	$54,\!865,\!558$	50,377,066	876,107	63 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
$\mathbf{TF}_{-}\mathbf{C}$	1,292,680	93%	Тисью степью и статоги створи статоги писист того сительство и того сительство сительств
$\mathbf{TF}_{-}1$	524,831	87%	



Alignment Summary (aligned to)





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



$Run\ Report\ for \\ Auto_sn247770187_sn247770187-194-BoteroExperimentalEvolution001A_HCT_260$

Filtered_Alignments_Q10.png	Filtered_Alignments_Q17.png	
Filtered_Alignments_Q20.png	Filtered_Alignments_Q47.png	

Analysis Details

Run Name | R_2016_11_04_12_34_20_sn247770187_sn247770187-194-

 $Botero Experimental Evolution 001 A_HCT$

Run Date Nov. 4, 2016, 12:36 p.m.

Run Flows 520

Projects BoteroExperimentalEvolution

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 $\operatorname{sn247770187}$

Flow Order TACGTACGTCTGAGCATCGATGTACAGC

Library Key
TCAG
ATCG
Chip ID
DACD06132
Chip Check
Passed
Chip Type
P1.1.17
Chip Data
Barcode Set
IonXpress

Analysis Name Auto_sn247770187_sn247770187-194-

BoteroExperimentalEvolution001A_HCT_260

Analysis Date Nov. 4, 2016, 9:14 p.m.

Analysis Flows 0

runID QPLRU

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

 $/\text{opt/ion/config/gopt}_p 1.1.17_a mpliseq_e xome.param.json --mixed - first -$

 $flow 12 - -mixed - \hat{l}ast - flow 120$

Pre-BaseCaller Args | BaseCaller –barcode-filter 0.01 –barcode-filter-minreads 10

for calibration —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 Nov. 4, 2016, 9:46 a.m. Chef Instrument Name CHEF00781 Sample Position Tip Rack Barcode 4580500A3Chip Type 1 P1v3 Chip Type 2 P1v3 Chip Expiration 1 Apr2017 Chip Expiration 2 Apr2017 Templating Kit Type Ion PI Hi-Q Chef Kit Reagent Expiration 42721Reagent Lot Number 1742721Reagent Part Number A27284C Solution Lot Number 1715371Solution Part Number A27282C Solution Expiration 15371Chef Script Version 263 Chef Package Version IC.5.0.1

Software Version

${f Torrent_Suite}$	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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