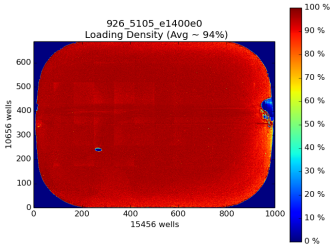
Run Summary

11.9 G Total Bases | **120** Key Signal

94% ISP Loading

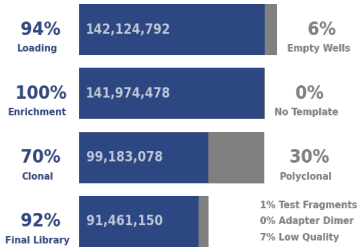
ISP Density



91,461,150 Total Reads

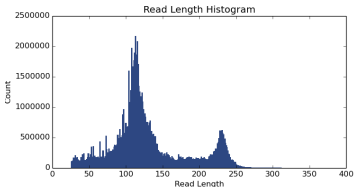
65% Usable Reads

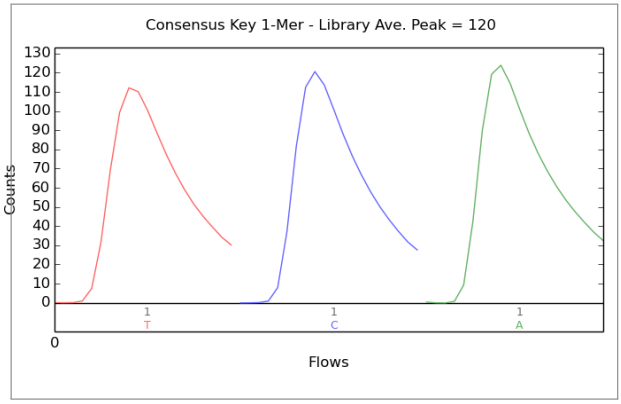
ISP Summary



130 bp Mean | **116 bp** Median | **112 bp** Mode

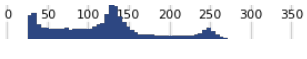
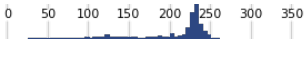
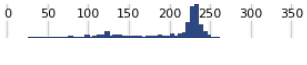
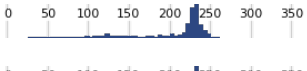
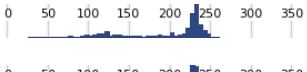
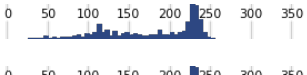
Read Length





Addressable Wells	**151,539,288**	
With ISPs	142,124,792	93.8%
Live	141,974,478	99.9%
Test Fragment	564,969	00.4%
Library	141,409,509	99.6%

Library ISPs	**141,409,509**	
Filtered: Polyclonal	42,791,400	30.3%
Filtered: Low Quality	6,907,711	04.9%
Filtered: Adapter Dimer	249,248	00.2%
Final Library ISPs	**91,461,150**	**64.7%**

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	659,730,284	505,956,976	5,512,028	119 bp	
IonCode_0155	18084225	83,406,527	71,218,462	435,922	191 bp	
IonCode_0156	18084226	89,022,567	75,658,947	457,487	194 bp	
IonCode_0157	18084227	77,240,473	65,659,637	407,860	189 bp	
IonCode_0158	18084229	110,077,796	94,027,149	560,761	196 bp	
IonCode_0159	18084251	115,787,060	97,794,707	618,147	187 bp	
IonCode_0160	18084278	393,390,393	339,333,639	2,235,835	175 bp	
IonCode_0161	18084281	513,194,794	432,602,728	2,778,631	184 bp	

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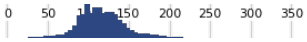
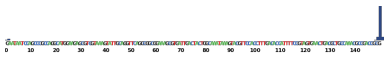
IonCode_0162	18084282	430,645,027	360,082,787	2,364,537	182 bp	
IonCode_0163	18084284	619,793,587	527,842,177	3,365,103	184 bp	
IonCode_0164	18084285	568,608,133	487,435,833	3,132,503	181 bp	
IonCode_0308	18073151	278,814,232	259,335,679	2,408,648	115 bp	
IonCode_0412	18084274	218,288,044	204,841,608	2,725,856	80 bp	
IonCode_0413	18084282	380,525,864	336,410,199	2,445,759	155 bp	
IonCode_0414	18084274	753,594,906	693,877,834	7,050,267	106 bp	
IonCode_0415	18084282	609,458,837	546,337,749	5,043,786	120 bp	
IonCode_0416	18084281	341,279,283	301,468,102	2,118,890	161 bp	
IonCode_0417	18084278	317,955,043	281,109,349	1,996,411	159 bp	
IonCode_0418	18084281	634,580,012	566,076,182	5,442,927	116 bp	
IonCode_0419	18084284	319,201,186	283,570,081	2,198,967	145 bp	
IonCode_0424	18084284	778,209,209	697,564,107	6,503,961	119 bp	
IonCode_0426	18084285	803,175,371	735,108,355	7,189,947	111 bp	
IonCode_0432	18084278	696,691,776	643,873,762	6,355,513	109 bp	
IonCode_0470	18084252	1,871,092,933	1,731,590,588	16,292,283	114 bp	
IonCode_0475	18084250	247,539,955	225,094,237	1,806,220	137 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**387,682**	**91**	
TF_1	**123,661**	**92**	

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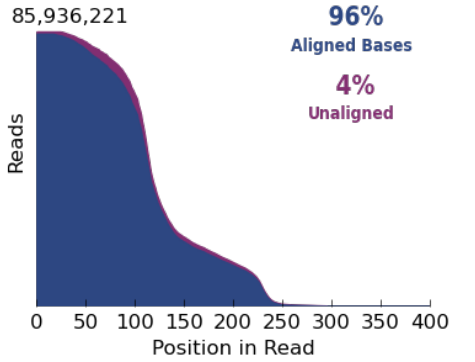
Alignment Summary *(aligned to Homo sapiens)*

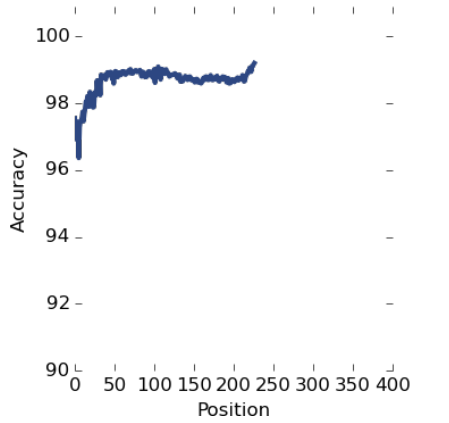
10.8 G
Total Alignment Bases

3.5X
Average Coverage Depth of Reference



	Count	%
Total Reads	85,936,221	–
Aligned Reads	85,257,137	99.2%
Unaligned Reads	679,084	0.8%

98.6%
Mean Raw Accuracy 1x



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	9.37 G	8.34 G	6.65 G
Mean Length [bp]	123	116	97
Longest Alignment [bp]	347	345	336
Mean Coverage Depth	3.0	2.7	2.1

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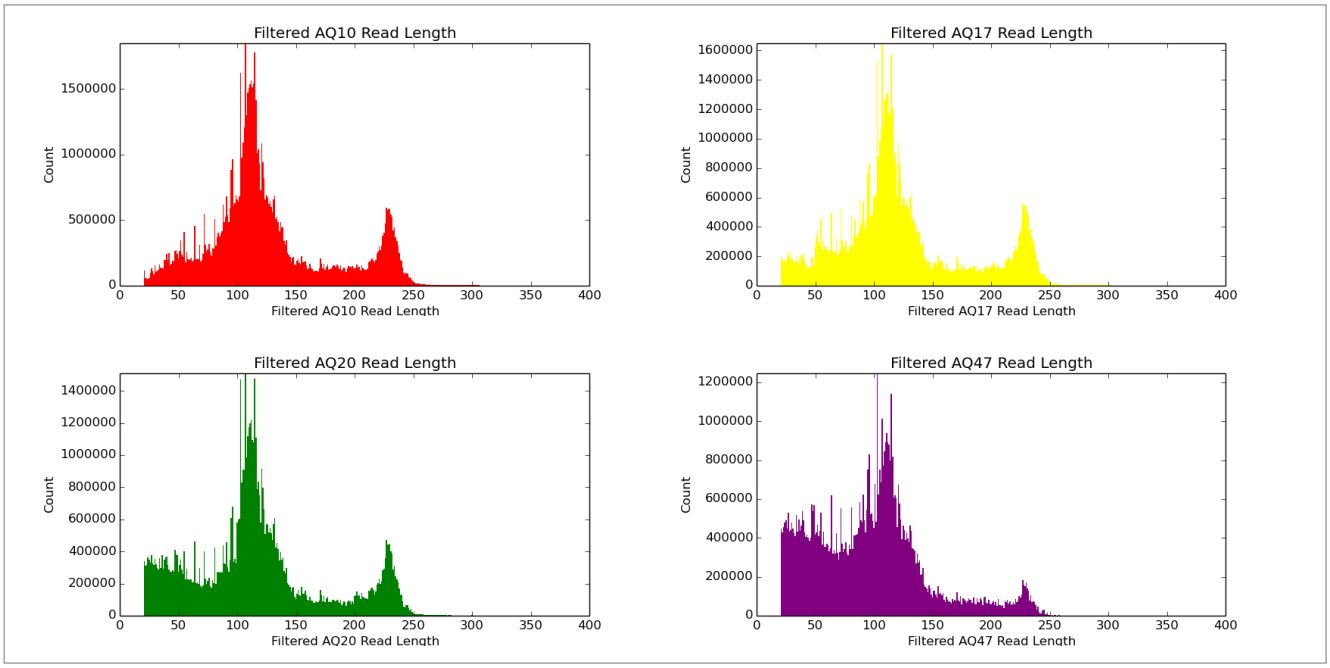
Filtered AQ10 Read Length
Count
Filtered AQ10 Read Length
Filtered AQ17 Read Length
Count
Filtered AQ17 Read Length
Filtered AQ20 Read Length
Count
Filtered AQ20 Read Length
Filtered AQ47 Read Length
Count
Filtered AQ47 Read Length

coverageAnalysis

Library type: AmpliSeq DNA
Target regions: Barcode specific

Barcode Name	Sample	Mapped Reads	On Target	Mean Depth	Uniformity
IonCode_0155	18084225	432,903	93.78%	885.2	90.34%
IonCode_0156	18084226	454,862	95.21%	951.2	92.21%
IonCode_0157	18084227	403,477	93.49%	818.7	92.59%
IonCode_0158	18084229	557,076	95.67%	1,182	93.27%
IonCode_0159	18084251	614,693	93.54%	1,226	92.04%
IonCode_0160	18084278	2,219,316	89.37%	2,959	89.60%
IonCode_0161	18084281	2,760,120	91.37%	3,884	90.82%
IonCode_0162	18084282	2,343,290	90.12%	3,257	91.51%
IonCode_0163	18084284	3,336,450	90.46%	4,685	93.62%
IonCode_0164	18084285	3,102,139	90.45%	4,315	91.53%
IonCode_0308	18073151	2,401,002	67.22%	7,357	95.25%
IonCode_0412	18084274	2,643,887	9.20%	34.09	0.71%
IonCode_0413	18084282	2,434,092	92.12%	2,160	66.41%
IonCode_0414	18084274	6,968,813	0.08%	2.636	50.63%
IonCode_0415	18084282	5,016,964	0.20%	9.434	1.20%
IonCode_0416	18084281	2,109,717	93.93%	1,969	66.90%
IonCode_0417	18084278	1,982,497	92.86%	1,820	70.48%
IonCode_0418	18084281	5,380,844	0.73%	34.99	0.86%
IonCode_0419	18084284	2,188,108	89.04%	1,739	45.67%
IonCode_0424	18084284	6,427,449	0.57%	31.7	0.67%
IonCode_0426	18084285	7,143,784	0.07%	4.928	4.27%
IonCode_0432	18084278	6,324,602	0.24%	12.79	1.20%
IonCode_0470	18084252	16,212,136	99.30%	1,040	88.15%
IonCode_0475	18084250	1,798,916	90.06%	9,785	89.83%

1 5 items per page 1 - 24 of 24 items

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sampleID

Barcode Name	Sample	Sample ID	Coverage at 20x	Tracking Reads
IonCode_0155	18084225	M-TGRTRSRA	100.0%	4.99%
IonCode_0156	18084226	M-TTGTRSAW	100.0%	3.57%
IonCode_0157	18084227	F-TKRYRSRA	100.0%	4.45%
IonCode_0158	18084229	F-YKRCGGGT	100.0%	3.06%
IonCode_0159	18084251	F-CKAYRSGT	100.0%	4.76%
IonCode_0160	18084278	M-TGATRSRA	100.0%	3.59%
IonCode_0161	18084281	M-YGRYRCGW	100.0%	1.98%
IonCode_0162	18084282	M-YTRYRGRA	100.0%	2.25%
IonCode_0163	18084284	M-CKRTRCAW	100.0%	2.22%
IonCode_0164	18084285	F-YKRCRSRT	100.0%	2.62%
IonCode_0308	18073151	M-YGRCRCAT	100.0%	0.56%
IonCode_0412	18084274	N/A	0.0%	0.00%
IonCode_0413	18084282	M-YTRYRGRA	100.0%	5.21%
IonCode_0414	18084274	N/A	0.0%	0.00%
IonCode_0415	18084282	N/A	0.0%	0.00%
IonCode_0416	18084281	M-YGRYRCGW	100.0%	3.89%
IonCode_0417	18084278	M-TGATRSRA	100.0%	5.07%
IonCode_0418	18084281	N/A	0.0%	0%
IonCode_0419	18084284	M-CKRTRCAW	100.0%	6.32%
IonCode_0424	18084284	N/A	0.0%	0%
IonCode_0426	18084285	N/A	0.0%	0.00%
IonCode_0432	18084278	N/A	0.0%	0%
IonCode_0470	18084252	M-YKRYASRA	100.0%	0.11%
IonCode_0475	18084250	F-YKRYRSAW	100.0%	8.62%

1 5 items per page 1 - 24 of 24 items

HID$_{SNP}$ Genotyper

Click on the 'HID_SNP_Genotyper.html' link above to view results

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Analysis Details

Run Name	R_2018_08_29_13_18_26_DGL-01-278-DGL_926_5105_e1400e0
Run Date	Aug. 28, 2018, 4:58 p.m.
Run Flows	520
Projects	commercial
Sample	18084285, 18084251, 18084284, 18084250, 18084278, 18084229, 18084274, 18073151, 18084252, 18084282, 18084281, 18084225, 18084226, 18084227
Reference	
Instrument	DGL-01
Operation Mode	Customer mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Chip Lot Number	QPW135
Chip Wafer	24
Barcode Set	IonCode
Analysis Name	Auto_DGL-01-278-DGL_926_5105_e1400e0_470
Analysis Date	Aug. 30, 2018, 1:21 a.m.
Analysis Flows	0
runID	XVEKJ
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
Pre-BaseCaller	BaseCaller –barcode-filter-minreads 10 –phasing-residual-filter=2.0 –max-phasing-levels 2
Calibration Args	Calibration
BaseCaller Args	BaseCaller –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	default

Chef Summary

Ion Chef was not used for this run

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Software Version

Torrent_Suite	5.10.0
host	4RZ9ZV1
ion-analysis	5.10.10-1
ion-dbreports	5.10.26-1
ion-gpu	5.10.0-1
ion-pipeline	5.10.8-1
ion-torrentpy	5.10.8-1
ion-torrentr	5.10.9-1
Script	2.1.45
LiveView	2389
DataCollect	3602
OIA	51000
OS	35
Graphics	97