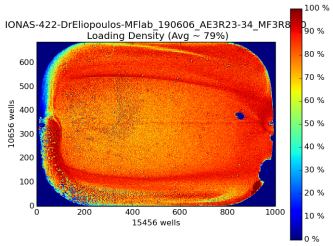
Run Summary

8.87 G Total Bases | **102** Key Signal

79% ISP Loading

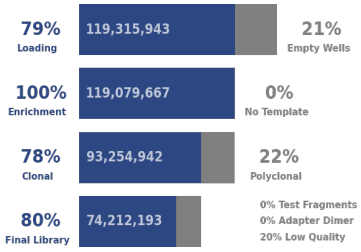
ISP Density



74,212,193 Total Reads

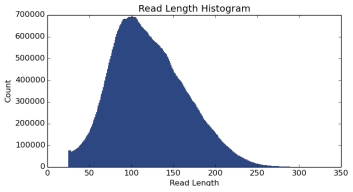
62% Usable Reads

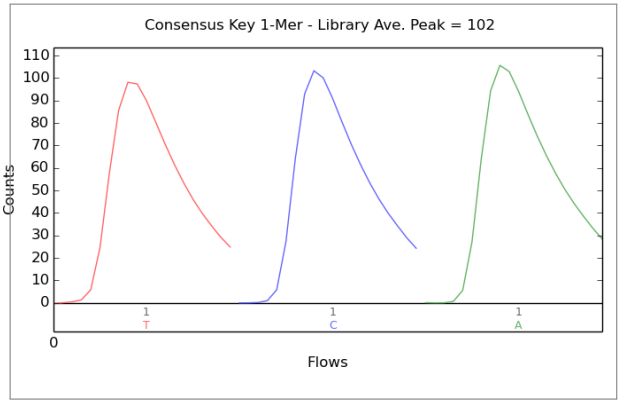
ISP Summary



120 bp Mean | **115 bp** Median | **100 bp** Mode

Read Length

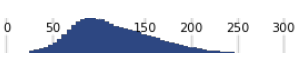
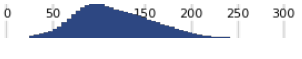


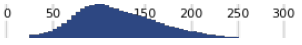
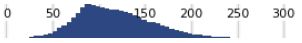


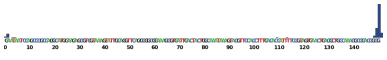
Addressable Wells	**151,539,288**	
With ISPs	119,315,943	78.7%
Live	119,079,667	99.8%
Test Fragment	256,548	00.2%
Library	118,823,119	99.8%

Library ISPs	**118,823,119**	
Filtered: Polyclonal	25,824,725	21.7%
Filtered: Low Quality	18,755,784	15.8%
Filtered: Adapter Dimer	30,417	00.0%
Final Library ISPs	**74,212,193**	**62.5%**

Notes: 3RNAseq_DrEliopoulosAristidis-UoA_23-34of36-mus_MFlab-TLiakos_2of6-homo

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	469,343,162	371,616,217	3,772,895	124 bp	
IonXpress_009	none	392,493,180	318,785,184	3,175,959	123 bp	
IonXpress_023	AE3R23_wt-1	273,906,936	225,725,436	2,564,729	106 bp	
IonXpress_024	AE3R24_wt-2	483,537,264	395,877,228	4,239,464	114 bp	
IonXpress_025	AE3R25_wt-3	546,475,372	451,413,425	5,347,948	102 bp	
IonXpress_026	AE3R26_wtpre-1	580,385,602	478,682,951	5,030,573	115 bp	
IonXpress_027	AE3R27_wtpre-2	661,559,672	539,659,020	5,204,793	127 bp	

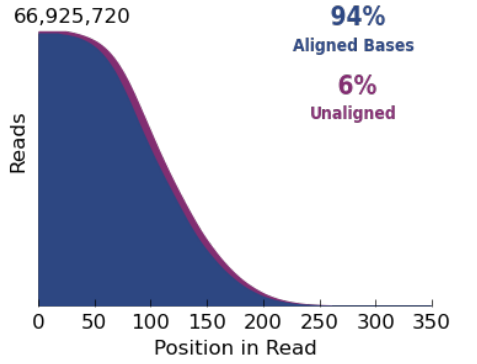
IonXpress_028	AE3R28_wtpre-3	743,644,538	607,263,105	5,782,916	128 bp	
IonXpress_029	AE3R29_ko-1	619,083,766	498,170,746	4,790,546	129 bp	
IonXpress_030	AE3R30_ko-2	591,948,311	479,677,532	4,637,418	127 bp	
IonXpress_031	AE3R31_ko-3	653,557,535	532,517,756	5,525,594	118 bp	
IonXpress_032	AE3R32_kopre-1	317,656,831	260,490,948	3,323,362	95 bp	
IonXpress_033	AE3R33_kopre-2	527,396,694	423,819,430	4,150,542	127 bp	
IonXpress_034	AE3R34_kopre-3	593,082,295	475,304,518	4,484,362	132 bp	
IonXpress_036	MF3R8_OFF2	809,390,318	663,255,938	6,619,693	122 bp	
IonXpress_038	MF3R10_3d2	605,803,667	496,202,437	5,223,780	115 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	**139,796**	**94**	
TF_1	**86,940**	**88**	

Alignment Summary *(aligned to Homo sapiens)*

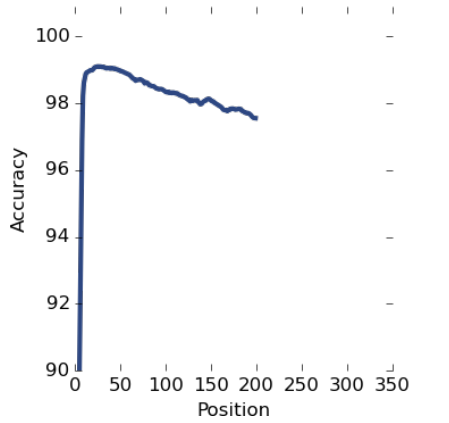
7.52 G
Total Alignment Bases

2.4X
Average Coverage Depth of Reference



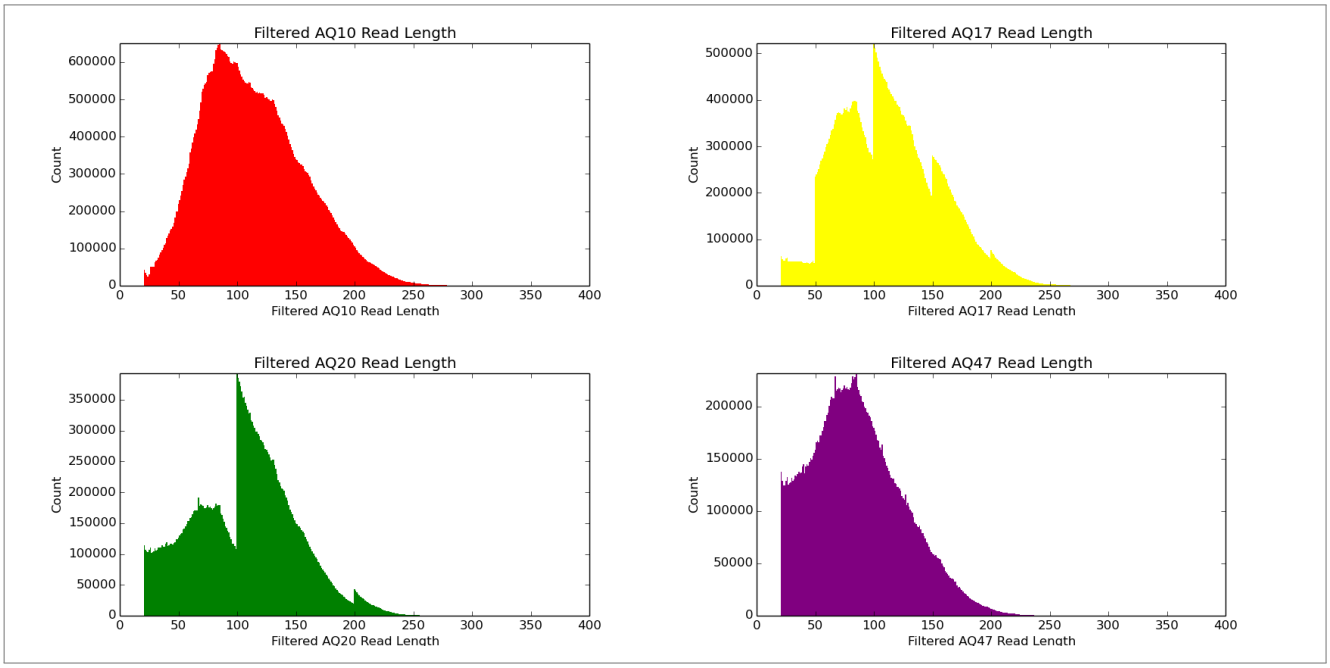
	Count	%
Total Reads	66,925,720	–
Aligned Reads	66,425,638	99.3%
Unaligned Reads	500,082	0.7%

97.8%
Mean Raw Accuracy 1x



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	5.15 G	3.11 G	1.86 G
Mean Length [bp]	112	106	86
Longest Alignment [bp]	313	308	289
Mean Coverage Depth	1.7	1.0	0.6


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

Analysis Details

Run Name	R_2019_06_07_14_18_55_user_IONAS-422-DrEliopoulos-MFlab_190606_AE3R23-34_MF3R8-10
Run Date	June 7, 2019, 2:20 p.m.
Run Flows	500
Projects	MFLab_3RNAseq , DrEliopoulos_3RNAseq
Sample	AE3R34_kopre-3, AE3R27_wtpre-2, AE3R28_wtpre-3, AE3R24_wt-2, AE3R25_wt-3, AE3R26_wtpre-1, AE3R23_wt-1, AE3R32_kopre-1, MF3R10_3d2, MF3R8_OFF2, AE3R29_ko-1, AE3R33_kopre-2, AE3R30_ko-2, AE3R31_ko-3
Reference	
Instrument	IONAS
Operation Mode	Service mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	DAEC04357
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Chip Lot Number	QPW140
Chip Wafer	24
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-422-DrEliopoulos-MFlab_190606_AE3R23-34_MF3R8-10_587
Analysis Date	June 8, 2019, 12:53 a.m.
Analysis Flows	0
runID	S36UW
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 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	default

Chef Summary

Chef Template Prep Information:

Chef Last Updated	June 7, 2019, 11:04 a.m.
Chef Instrument Name	CHEF00509
Chef Operation Mode	Customer Mode
Sample Position	2
Tip Rack Barcode	462170088
Chip Type 1	P1v3
Chip Type 2	P1v3
Chip Expiration 1	Jul2019
Chip Expiration 2	Mar2019
Templating Kit Type	Ion PI Hi-Q Chef Kit
Reagent Expiration	160831
Reagent Lot Number	1703710
Reagent Part Number	A27284C
Solution Lot Number	1671271
Solution Part Number	A27282C
Solution Expiration	160131
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	June 6, 2019, 3:25 p.m.
Completion Time	June 7, 2019, 11:03 a.m.

Software Version

Torrent_Suite	5.6.0
host	FW7DQV1
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