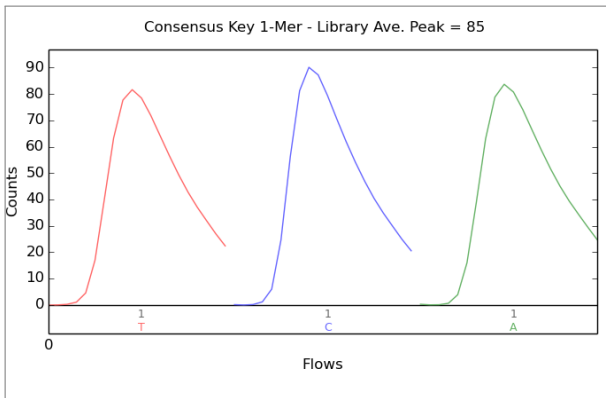
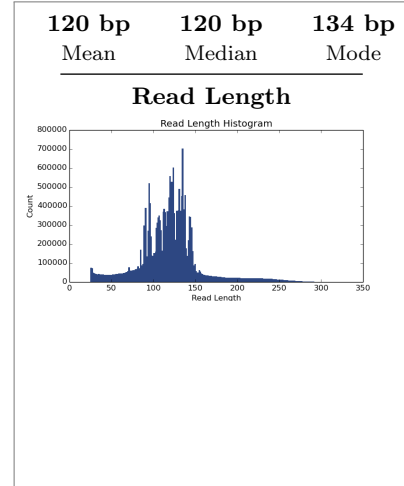
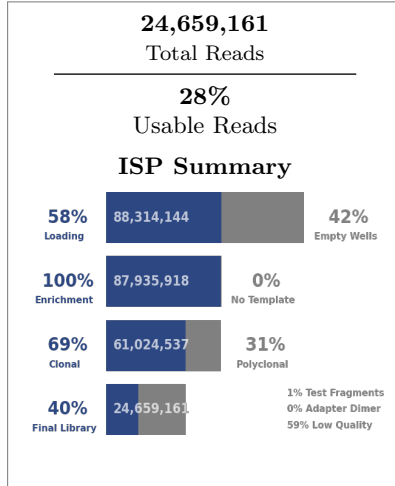
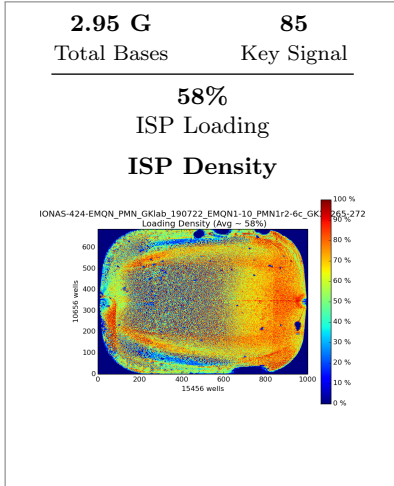


## Run Summary










<b>Addressable Wells</b>	<b>151,539,288</b>	
With ISPs	88,314,144	58.3%
Live	87,935,918	99.6%
Test Fragment	565,314	00.6%
Library	87,370,604	99.4%
<b>Library ISPs</b>	<b>87,370,604</b>	
Filtered: Polyclonal	26,911,381	30.8%
Filtered: Low Quality	35,782,593	41.0%
Filtered: Adapter Dimer	17,469	00.0%
<b>Final Library ISPs</b>	<b>24,659,161</b>	<b>28.2%</b>


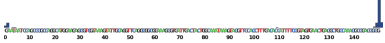
Notes: EMQN-Ampl-ColonLungV2-10-PMN-Ampl-ColonLungV2-6.GK3R8of24

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	118,890,820	89,721,182	1,131,876	105 bp	
IonXpress_001	EMQN-CLv2.ID1	31,389,648	28,214,282	305,474	102 bp	
IonXpress_002	EMQN-CLv2.ID2	99,695,831	89,407,640	879,531	113 bp	
IonXpress_003	EMQN-CLv2.ID3	233,547,068	206,687,259	1,958,731	119 bp	
IonXpress_004	EMQN-CLv2.ID4	262,471,522	230,429,853	2,114,379	124 bp	
IonXpress_005	EMQN-CLv2.ID5	181,603,560	160,946,566	1,513,827	119 bp	

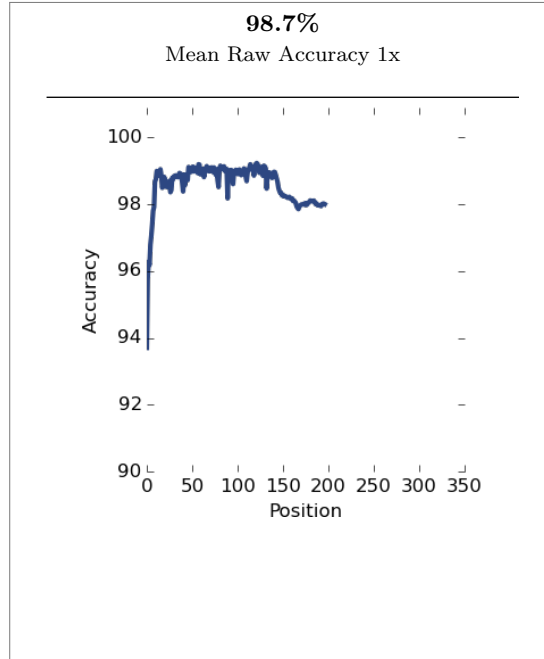
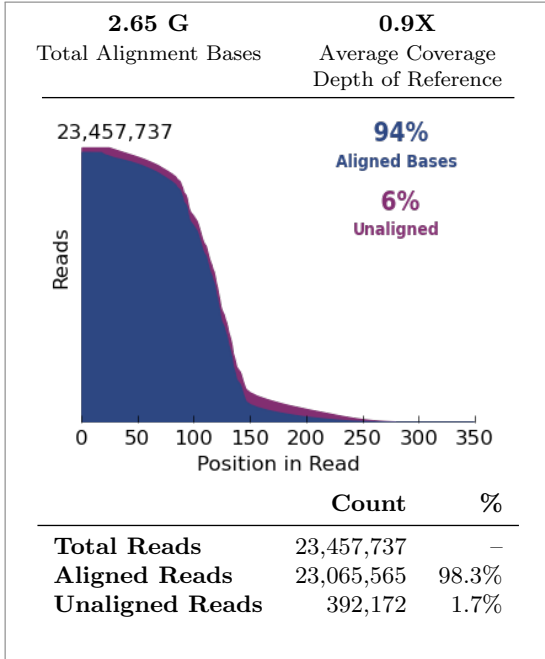


Run Report for IONAS-424-EMQN\_PMN\_GKlab\_190722\_GK3R265-272\_DNAother

IonXpress.034	none	9,605,350	7,884,580	76,007	126 bp	
IonXpress.042	none	4,427,184	3,654,146	38,567	114 bp	
IonXpress.043	none	8,339,967	6,875,987	78,295	106 bp	
IonXpress.044	none	12,837,666	10,715,986	99,048	129 bp	
IonXpress.045	none	7,372,912	6,128,519	64,121	114 bp	
IonXpress.046	none	18,315,982	15,317,803	134,730	135 bp	
IonXpress.047	none	5,823,312	4,892,917	49,477	117 bp	

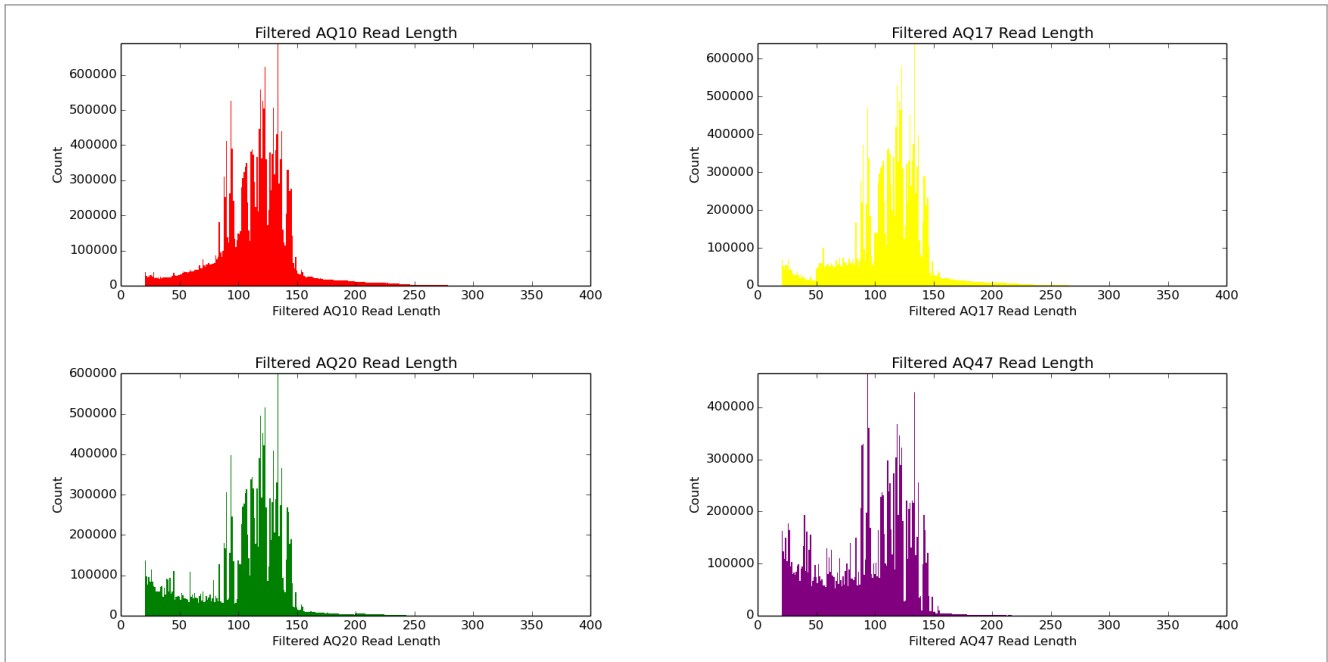
Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
<b>TF_C</b>	<b>437,136</b>	<b>95</b>	
<b>TF_1</b>	<b>84,874</b>	<b>84</b>	

## Alignment Summary *(aligned to Homo sapiens)*



	Alignment Quality		
	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	2.27 G	1.94 G	1.58 G
Mean Length [bp]	112	105	92
Longest Alignment [bp]	332	319	317
Mean Coverage Depth	0.7	0.6	0.5

Run Report for IONAS-424-EMQN\_PMN\_GKlab\_190722\_GK3R265-272\_DNAother



## Analysis Details

<b>Run Name</b>	R_2019.07.23_11.37.50_user_IONAS-424-EMQN_PMN_GKlab_190722_EMQN1-10_PMN1r2-6c_GK3R265-272
<b>Run Date</b>	July 23, 2019, 11:39 a.m.
<b>Run Flows</b>	500
<b>Projects</b>	PMN_Ampl_ColonLungV2 , EMQN_Ampl_ColonLungV2 , GKLab_3RNAseq
<b>Sample</b>	PMN-S4r2_Q4DP, EMQN-CLv2_ID3, EMQN-CLv2_ID4, EMQN-CLv2_ID5, PMN-S3r2_Q3DP, PMN-S2r2_Q2DP, EMQN-CLv2_ID1, EMQN-CLv2_ID2, EMQN-CLv2_ID6, PMN-S4c_Q4DP, PMN-S6c_Q6DP, EMQN-CLv2_ID7, EMQN-CLv2_ID8, EMQN-CLv2_ID9, EMQN-CLv2_ID10, PMN-S1r2_Q1DP, GK3R271_DAREdd3-endo, GK3R270_DAREdd2-fibro, GK3R272_DAREdd3-fibro, GK3R269_DAREdd2-endo, GK3R267_DAREdd1-endo, GK3R265_DARECad3-endo, GK3R266_DARECad3-fibro, GK3R268_DAREdd1-fibro
<b>Reference</b>	
<b>Instrument</b>	IONAS
<b>Operation Mode</b>	Service mode
<b>Flow Order</b>	TACGTACGTCTGAGCATCGATCGATGTACAGC
<b>Library Key</b>	TCAG
<b>TF Key</b>	ATCG
<b>Chip Barcode</b>	DAEC04358
<b>Chip Check</b>	Passed
<b>Chip Type</b>	P1.1.17
<b>Chip Data</b>	tiled
<b>Chip Lot Number</b>	QPW140
<b>Chip Wafer</b>	24
<b>Barcode Set</b>	IonXpress
<b>Analysis Name</b>	IONAS-424-EMQN_PMN_GKlab_190722_GK3R265-272_DNAother
<b>Analysis Date</b>	July 24, 2019, 12:42 p.m.
<b>Analysis Flows</b>	0
<b>runID</b>	7PG4G
<b>BeadFind Args</b>	justBeadFind -args-json /opt/ion/config/args_P1.1.17_beadfind.json
<b>Analysis Args</b>	Analysis -args-json /opt/ion/config/args_P1.1.17_analysis.json
<b>Pre-BaseCaller</b>	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -max-phasing-levels 2
<b>Calibration Args</b>	Calibration
<b>BaseCaller Args</b>	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
<b>Alignment Args</b>	tmap mapall ... stage1 map4
<b>IonStats Args</b>	ionstats alignment
<b>Analysis Parameters</b>	default

## Chef Summary

### Chef Template Prep Information:

<b>Chef Last Updated</b>	July 23, 2019, 11:03 a.m.
<b>Chef Instrument Name</b>	CHEF00509
<b>Chef Operation Mode</b>	Customer Mode
<b>Sample Position</b>	1
<b>Tip Rack Barcode</b>	4560901A3
<b>Chip Type 1</b>	P1v3
<b>Chip Type 2</b>	P1v3
<b>Chip Expiration 1</b>	Mar2019
<b>Chip Expiration 2</b>	Mar2019
<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>	1702670
<b>Solution Part Number</b>	A27282C
<b>Solution Expiration</b>	160531
<b>Templating Protocol Executed</b>	(use instrument default)
<b>Templating Protocol Planned</b>	(use instrument default)
<b>Chef Script Version</b>	609
<b>Chef Package Version</b>	IC.5.6.0
<b>Start Time</b>	July 22, 2019, 5:41 p.m.
<b>Completion Time</b>	July 23, 2019, 11:03 a.m.

## Software Version

<b>Torrent_Suite</b>	5.6.0
<b>host</b>	FW7DQV1
<b>ion-analysis</b>	5.6.8-1
<b>ion-chefupdates</b>	5.6.0
<b>ion-dbreports</b>	5.6.37-1
<b>ion-gpu</b>	5.6.0-1
<b>ion-pipeline</b>	5.6.12-1
<b>ion-plugins</b>	5.6.16-1
<b>ion-protonupdates</b>	5.6.0
<b>ion-s5updates</b>	5.6.0
<b>ion-torrentpy</b>	5.6.8-1
<b>ion-torrentr</b>	5.6.8-1
<b>Script</b>	2.1.42
<b>LiveView</b>	2334
<b>DataCollect</b>	3536
<b>OIA</b>	5603
<b>OS</b>	33
<b>Graphics</b>	89
<b>Ion_Chef</b>	IC.5.6.0