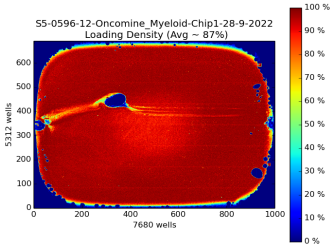
Run Summary

3.95 G Total Bases | **116** Key Signal

87% ISP Loading

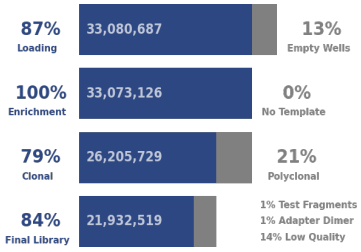
ISP Density



21,932,519 Total Reads

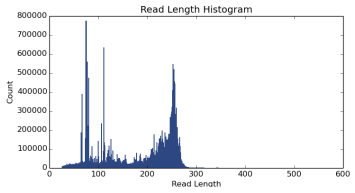
67% Usable Reads

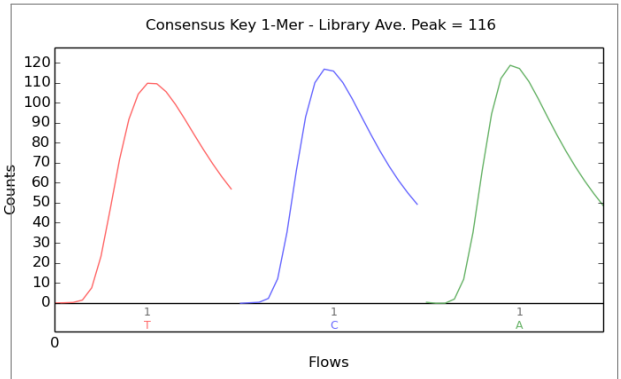
ISP Summary



180 bp Mean | **210 bp** Median | **74 bp** Mode

Read Length



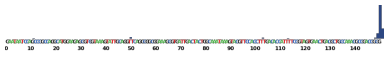


Addressable Wells	**37,849,615**	
With ISPs	33,080,687	87.4%
Live	33,073,126	100.0%
Test Fragment	302,334	00.9%
Library	32,770,792	99.1%

Library ISPs	**32,770,792**	
Filtered: Polyclonal	6,867,397	21.0%
Filtered: Low Quality	3,769,103	11.5%
Filtered: Adapter Dimer	201,773	00.6%
Final Library ISPs	**21,932,519**	**66.9%**

Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	44,055,687	39,781,897	238,631	184 bp	
IonXpress_001	S01	205,051,027	186,843,616	977,496	209 bp	
IonXpress_002	S02	315,166,683	288,258,647	1,498,672	210 bp	
IonXpress_003	S03	284,064,708	259,719,637	1,346,299	210 bp	
IonXpress_004	S05	330,109,897	301,391,793	1,580,358	208 bp	
IonXpress_005	S06	358,376,868	327,397,195	1,701,579	210 bp	
IonXpress_006	S07	315,791,848	287,030,709	1,517,622	208 bp	
IonXpress_007	S08	354,014,905	323,416,427	1,670,963	211 bp	

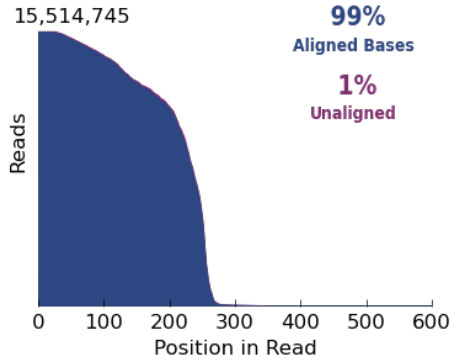
IonXpress_008	S09	191,691,104	173,487,694	940,580	203 bp	
IonXpress_009	S01	52,455,088	49,222,201	509,727	102 bp	
IonXpress_010	S02	45,943,302	42,952,032	444,959	103 bp	
IonXpress_011	S03	49,188,985	46,077,240	517,139	95 bp	
IonXpress_012	S05	61,798,213	57,988,470	572,172	108 bp	
IonXpress_013	S06	37,042,332	34,383,261	383,555	96 bp	
IonXpress_014	S07	63,589,603	59,381,793	609,930	104 bp	
IonXpress_015	S08	50,006,079	46,770,296	516,577	96 bp	
IonXpress_016	S09	44,554,038	41,491,629	443,007	100 bp	
IonXpress_033	S11	309,795,118	281,764,598	1,462,174	211 bp	
IonXpress_034	S12	258,163,609	234,773,043	1,207,693	213 bp	
IonXpress_035	S15	69,226,432	62,730,814	327,706	211 bp	
IonXpress_036	S16	271,448,136	247,441,845	1,283,603	211 bp	
IonXpress_037	S11	77,848,706	73,136,362	713,720	109 bp	
IonXpress_038	S12	61,139,070	57,413,977	591,222	103 bp	
IonXpress_039	S15	29,706,201	27,834,991	292,565	101 bp	
IonXpress_040	S16	65,290,904	61,125,927	583,927	111 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_1	**109,264**	**96**	

Alignment Summary *(aligned to human_genome)*

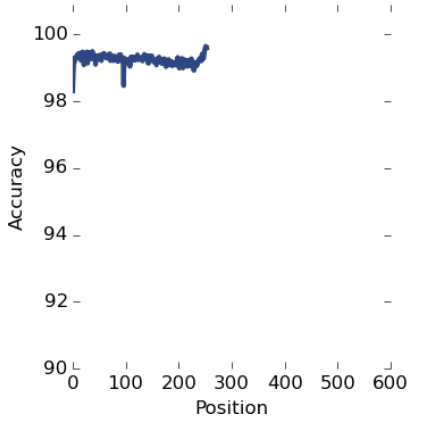
3.23 G
Total Alignment Bases

1.0X
Average Coverage Depth of Reference



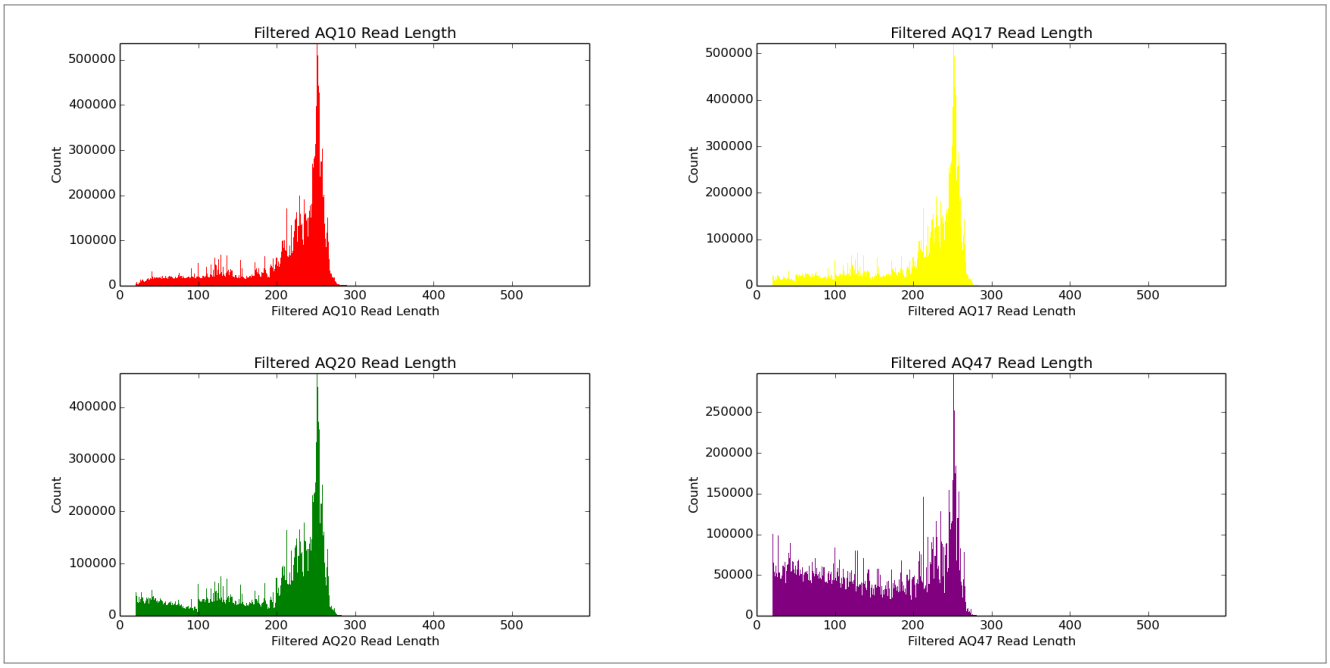
	Count	%
Total Reads	15,514,745	–
Aligned Reads	15,494,046	99.9%
Unaligned Reads	20,699	0.1%

99.3%
Mean Raw Accuracy 1x



Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	3.08 G	2.85 G	2.15 G
Mean Length [bp]	205	194	154
Longest Alignment [bp]	520	493	472
Mean Coverage Depth	1.0	0.9	0.7


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 and Fusions
Target regions: Barcode specific
Read filters: Sample tracking

Barcode Name	Sample	Mapped Reads	On Target	SampleID	Mean Depth	Uniformity
IonXpress_001	S01	976,109	91.52%	2.15%	1,656	94.26%
IonXpress_002	S02	1,496,842	92.19%	1.98%	2,552	95.10%
IonXpress_003	S03	1,344,789	92.49%	1.97%	2,309	95.12%
IonXpress_004	S05	1,578,020	90.40%	2.03%	2,644	94.76%
IonXpress_005	S06	1,699,529	92.11%	2.06%	2,902	94.44%
IonXpress_006	S07	1,515,315	90.05%	2.22%	2,521	93.56%
IonXpress_007	S08	1,668,747	92.52%	2.14%	2,875	93.99%
IonXpress_008	S09	938,729	87.63%	2.03%	1,524	93.41%
IonXpress_033	S11	1,460,227	93.62%	1.91%	2,536	95.36%
IonXpress_034	S12	1,206,244	94.48%	1.85%	2,123	94.22%
IonXpress_035	S15	327,324	92.71%	2.10%	563.2	92.55%
IonXpress_036	S16	1,282,171	92.52%	1.95%	2,206	94.25%

1 5 items per page 1 - 12 of 12 items

sampleID

Barcode Name	Sample	Sample ID	Coverage at 20x	Tracking Reads
IonXpress_001	S01	M-GSRWYKGY	100.0%	2.15%
IonXpress_002	S02	F-GSGWTTRY	100.0%	1.98%
IonXpress_003	S03	F-GCRATTGC	100.0%	1.97%
IonXpress_004	S05	F-GGRTCKRT	100.0%	2.03%
IonXpress_005	S06	M-RSGATTRC	100.0%	2.06%
IonXpress_006	S07	M-AGATYKAC	100.0%	2.22%
IonXpress_007	S08	M-AGGATTGY	100.0%	2.14%
IonXpress_008	S09	M-?GAAYKRY	100.0%	2.03%
IonXpress_033	S11	F-GCRTYKRC	100.0%	1.91%
IonXpress_034	S12	F-GSGTYKGC	100.0%	1.85%
IonXpress_035	S15	M-GSAWYKGY	100.0%	2.10%
IonXpress_036	S16	F-AGRACKGY	100.0%	1.95%

1 5 items per page 1 - 12 of 12 items

Analysis Details

Run Name	R_2022_09_28_08_47_33_user_S5-0596-12-Oncomine_Myeloid-Chip1-28-9-2022
Run Date	Sept. 28, 2022, 8:49 a.m.
Run Flows	850
Projects	
Samples	S08, S09, S01, S02, S03, S16, S15, S05, S06, S12, S07, S11
Reference	
Instrument	S5-0596
Operation Mode	Customer mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	DAHC03379
Chip Check	Passed
Chip Type	530
Chip Data	tiled
Chip Lot Number	Q1SY62
Chip Wafer	21
Barcode Set	IonXpress
Analysis Name	Auto_user_S5-0596-12-Oncomine_Myeloid-Chip1-28-9-2022_219
Analysis Date	Sept. 28, 2022, 11:53 p.m.
Analysis Flows	0
runID	N3YD0
BeadFind Args	justBeadFind –args-json /opt/ion/config/args_530_beadfind.json
Analysis Args	Analysis –args-json /opt/ion/config/args_530_analysis.json
Pre-BaseCaller	BaseCaller –trim-qual-cutoff 15 –barcode-filter-minreads 10 –phasing-residual-filter=2.0 –wells-normalization on
Calibration Args	Calibration –num-calibration-regions 1,1
BaseCaller Args	BaseCaller –trim-qual-cutoff 15 –barcode-filter-minreads 10 –phasing-residual-filter=2.0 –num-unfiltered 1000 –barcode-filter-postpone 1 –qual-filter true –qual-filter-slope 0.040 –qual-filter-offset 1.0 –wells-normalization on
Alignment Args	tmap mapall -q 50000 ... stage1 map4
IonStats Args	ionstats alignment
Analysis Parameters	default

Chef Summary

Ion Chef was not used for this run

S5 Consumables Summary

Chip Type	530v1
Chip Barcode	DAHC03379

Product Description	Part Number	Lot Number	Exp. Date	Remaining Uses
Ion S5 Cleaning Solution	100031096	2282375	2022/09/30	4
Ion S5 Sequencing Reagent	INS1012841B	2322823	2022/05/31	1
Ion S5 Wash Solution	100031091B	2322821	2022/03/31	1

Software Version

Torrent_Suite	5.12.2
host	tsvm
ion-analysis	5.12.27-1
ion-dbreports	5.12.61-1
ion-gpu	5.12.1-1
ion-pipeline	5.12.19-1
ion-torrentpy	5.12.21-1
ion-torrentr	5.12.23-1
S5 Script	0.1.31
LiveView	2760
DataCollect	3965
OIA	51227
OS	35
Graphics	134