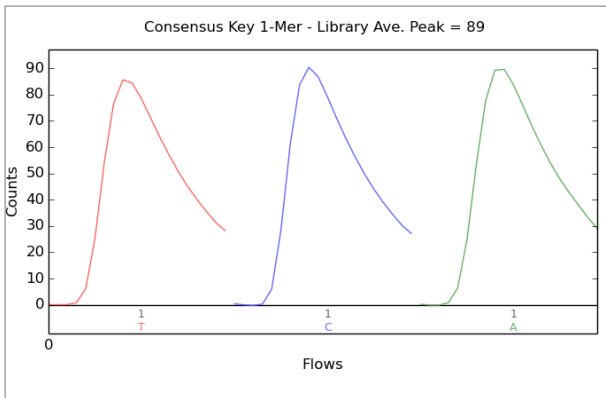
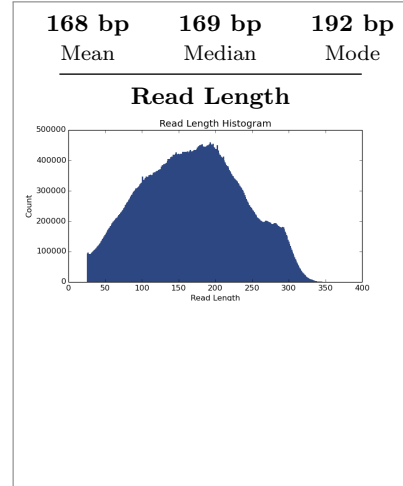
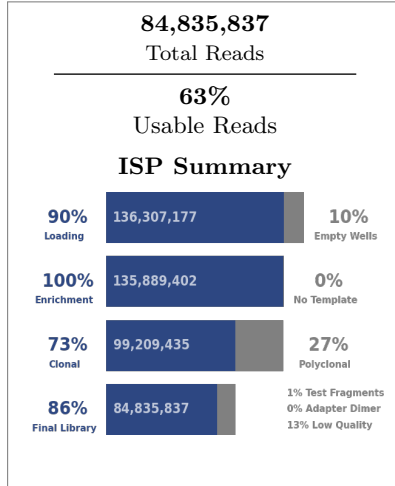
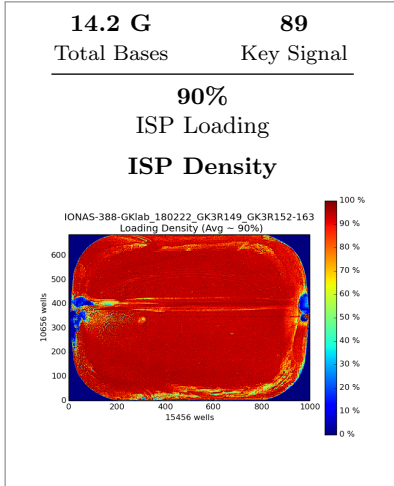


Run Summary



















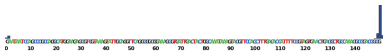
| | | |
|---------------------------|--------------------|--------------|
| Addressable Wells | 151,539,288 | |
| With ISPs | 136,307,177 | 89.9% |
| Live | 135,889,402 | 99.7% |
| Test Fragment | 680,435 | 00.5% |
| Library | 135,208,967 | 99.5% |
| Library ISPs | 135,208,967 | |
| Filtered: Polyclonal | 36,679,967 | 27.1% |
| Filtered: Low Quality | 13,645,241 | 10.1% |
| Filtered: Adapter Dimer | 47,922 | 00.0% |
| Final Library ISPs | 84,835,837 | 62.7% |

Notes: GKlab_APardo-12-3RNAseq-VKol-Ireseq

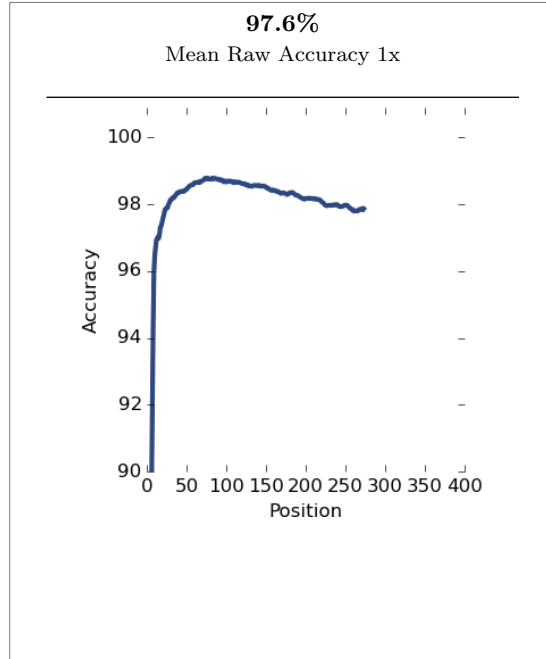
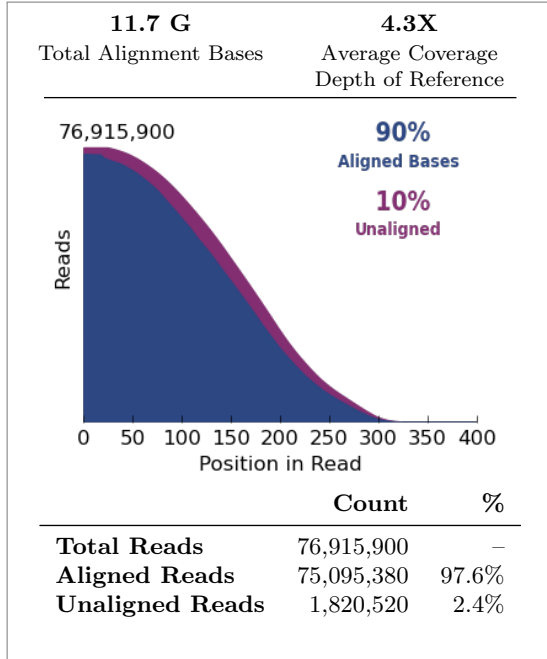
| Barcode Name | Sample | Bases | $\geq Q20$ | Reads | Mean Read Length | Read Length Histogram |
|---------------|--------|---------------|-------------|-----------|------------------|-----------------------|
| No barcode | none | 1,245,120,619 | 991,889,618 | 7,496,024 | 166 bp | |
| IonXpress_003 | none | 14,858,643 | 13,764,482 | 104,749 | 141 bp | |
| IonXpress_017 | none | 39,307,968 | 35,966,143 | 314,311 | 125 bp | |
| IonXpress_025 | none | 15,651,122 | 12,880,103 | 96,450 | 162 bp | |
| IonXpress_028 | none | 17,809,086 | 14,859,935 | 110,850 | 160 bp | |
| IonXpress_031 | none | 38,361,838 | 31,710,484 | 245,565 | 156 bp | |
| IonXpress_032 | none | 28,847,365 | 25,090,407 | 192,962 | 149 bp | |
| IonXpress_033 | none | 18,721,796 | 15,439,803 | 127,305 | 147 bp | |

Run Report for Auto_user_IONAS-388-GKlab_180222_GK3R149_GK3R152-163_553

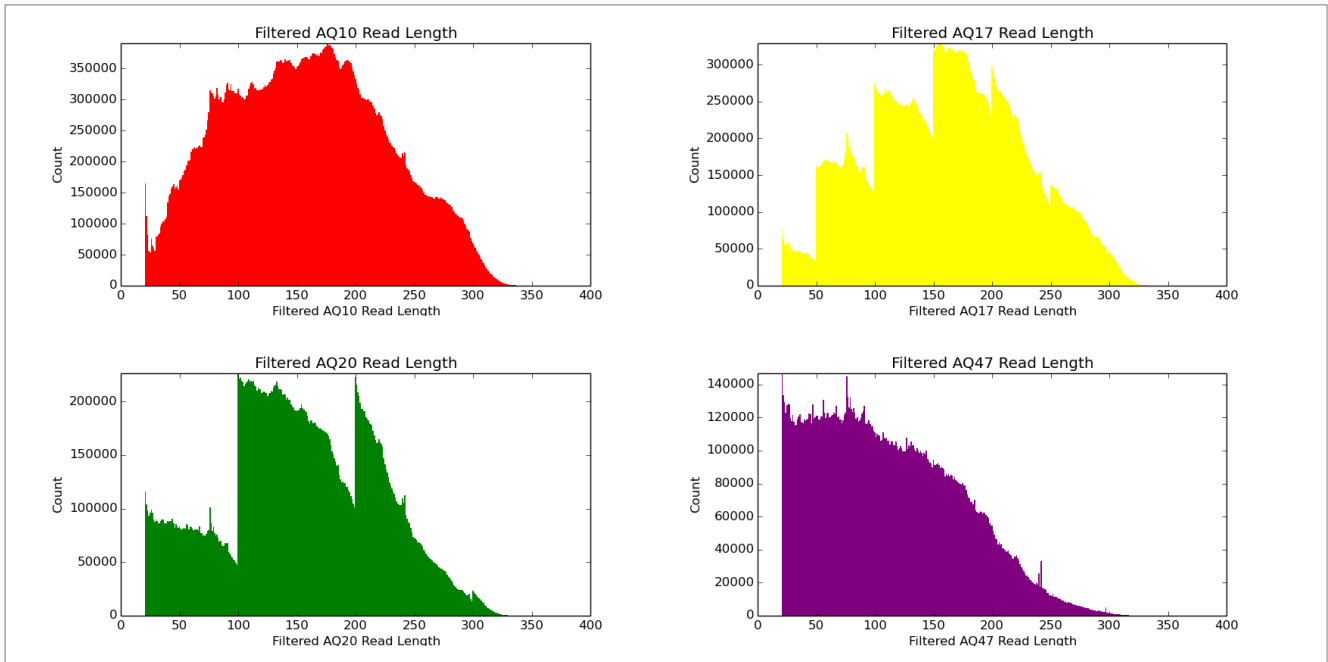
| | | | | | | |
|---------------|--------------------------|---------------|---------------|-----------|--------|---|
| IonXpress_034 | GK3R149-CI1 | 196,442,967 | 158,047,026 | 1,174,195 | 167 bp |  |
| IonXpress_035 | none | 15,946,766 | 13,035,658 | 99,238 | 160 bp |  |
| IonXpress_036 | none | 21,857,589 | 18,230,429 | 143,041 | 152 bp |  |
| IonXpress_037 | GK3R161-ColVICreLtbR-L10 | 1,246,711,959 | 1,022,267,190 | 7,471,236 | 166 bp |  |
| IonXpress_038 | GK3R162-ColVICreLtbR-L11 | 981,040,364 | 784,621,481 | 5,691,990 | 172 bp |  |
| IonXpress_039 | GK3R163-ColVICreLtbR-L12 | 139,118,015 | 112,971,610 | 842,004 | 165 bp |  |
| IonXpress_040 | GK3R153-Wt-W2 | 992,588,118 | 793,527,580 | 5,782,908 | 171 bp |  |
| IonXpress_041 | GK3R154-Wt-W3 | 651,891,422 | 522,577,346 | 3,726,420 | 174 bp |  |
| IonXpress_042 | GK3R155-TnfR1-D4 | 1,061,224,345 | 859,461,784 | 6,255,367 | 169 bp |  |
| IonXpress_043 | GK3R156-TnfR1-D5 | 987,486,210 | 787,170,783 | 5,867,444 | 168 bp |  |
| IonXpress_044 | GK3R157-TnfR1-D6 | 1,509,483,719 | 1,230,430,842 | 9,155,587 | 164 bp |  |
| IonXpress_045 | GK3R158-ColVICreTnfR1-T7 | 1,201,668,427 | 973,332,184 | 7,165,632 | 167 bp |  |
| IonXpress_046 | GK3R159-ColVICreTnfR1-T8 | 1,616,488,937 | 1,306,171,451 | 9,569,864 | 168 bp |  |
| IonXpress_047 | GK3R160-ColVICreTnfR1-T9 | 982,202,190 | 795,083,492 | 5,788,794 | 169 bp |  |
| IonXpress_048 | GK3R152-Wt-W1 | 1,192,692,723 | 949,649,841 | 6,989,988 | 170 bp |  |

| Test Fragment | Reads | Percent 50AQ17 | Read Length Histogram |
|---------------|----------------|----------------|--|
| TF_C | 259,083 | 79 |  |
| TF_1 | 345,162 | 89 |  |

Alignment Summary *(aligned to Mus musculus 10)*



| | Alignment Quality | | |
|-----------------------------|-------------------|--------|---------|
| | AQ17 | AQ20 | Perfect |
| Total Number of Bases [Mbp] | 8.43 G | 5.27 G | 2.29 G |
| Mean Length [bp] | 161 | 153 | 112 |
| Longest Alignment [bp] | 368 | 355 | 349 |
| Mean Coverage Depth | 3.1 | 1.9 | 0.8 |



Analysis Details

| | |
|----------------------------|--|
| Run Name | R_2018.02.22_11.49.34_user_IONAS-388-GKlab_180222_GK3R149_GK3R152-163 |
| Run Date | Feb. 22, 2018, 11:52 a.m. |
| Run Flows | 520 |
| Projects | GKLab_3RNAseq |
| Sample | GK3R149-CI1, GK3R162-ColVICreLtbR-L11, GK3R155-TnfR1-D4, GK3R153-Wt-W2, GK3R152-Wt-W1, GK3R160-ColVICreTnfR1-T9, GK3R158-ColVICreTnfR1-T7, GK3R156-TnfR1-D5, GK3R161-ColVICreLtbR-L10, GK3R154-Wt-W3, GK3R157-TnfR1-D6, GK3R159-ColVICreTnfR1-T8, GK3R163-ColVICreLtbR-L12 |
| Reference | |
| Instrument | IONAS |
| Operation Mode | Service mode |
| Flow Order | TACGTACGTCTGAGCATCGATCGATGTACAGC |
| Library Key | TCAG |
| TF Key | ATCG |
| Chip Barcode | DACJ02513 |
| Chip Check | Passed |
| Chip Type | P1.1.17 |
| Chip Data | tiled |
| Chip Lot Number | QNS757 |
| Chip Wafer | 17 |
| Barcode Set | IonXpress |
| Analysis Name | Auto_user_IONAS-388-GKlab_180222_GK3R149_GK3R152-163_553 |
| Analysis Date | Feb. 22, 2018, 9:09 p.m. |
| Analysis Flows | 0 |
| runID | RAAK6 |
| 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

Ion Chef was not used for this run |

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 |