

Supplemental Table S2: Read Statistics

| Sample name | Experiment | Replicate # | Library ID | SRA study | SRA accession | BioProject accession | BioSample accession | # Reads | # Bases | Mean read length | Up-/downstream sequence filtering | | Group amplicons | Remove reads with ≥ 2 differences from | | Remove amplicons with fewer than 3 | |
|------------------|--|-------------|------------|-----------|---------------|----------------------|---------------------|---------|----------|------------------|-----------------------------------|----------|-----------------|---|----------|------------------------------------|----------|
| | | | | | | | | | | | # Reads | # Unique | # Unique | # Reads | # Unique | # Reads | # Unique |
| 35mutFA_22h_a | FA1090 <i>garP</i> ₋₃₅ 22 hrs | 1 | 33a | SRP214219 | SRR9670522 | PRJNA553228 | SAMN12255025 | 5972 | 4717392 | 789.92 | 5283 | 1110 | 644 | 4837 | 328 | 4522 | 42 |
| 35mutFA_22h_b | FA1090 <i>garP</i> ₋₃₅ 22 hrs | 2 | 33b | SRP214219 | SRR9670511 | PRJNA553228 | SAMN12255041 | 6011 | 4577275 | 761.48 | 5151 | 1095 | 605 | 4708 | 291 | 4433 | 29 |
| FA-10mut_22h | FA1090 <i>garP</i> ₋₁₀ 22 hrs | | 31b | SRP214219 | SRR9670517 | PRJNA553228 | SAMN12255039 | 6015 | 4759857 | 791.33 | 4788 | 480 | 79 | 4768 | 59 | 4707 | 3 |
| FA1090_22h_a | FA1090 grown for 22 hrs | 1 | 1a | SRP214219 | SRR9670503 | PRJNA553228 | SAMN12255012 | 10842 | 8628492 | 795.84 | 9752 | 2824 | 2004 | 8130 | 886 | 7296 | 109 |
| FA1090_22h_b | FA1090 grown for 22 hrs | 2 | 1b | SRP214219 | SRR9670527 | PRJNA553228 | SAMN12255026 | 8690 | 6941742 | 798.82 | 7840 | 2492 | 1945 | 6220 | 825 | 5396 | 71 |
| G4mutFA1090_22h | FA1090 G4 mutant 22 hrs | | 23b | SRP214219 | SRR9670514 | PRJNA553228 | SAMN12255034 | 8757 | 6925157 | 790.81 | 7433 | 744 | 170 | 7354 | 102 | 7252 | 5 |
| RecA6-IPTG_22h | <i>recA6</i> 0 IPTG 22 hrs | | 20a | SRP214219 | SRR9670509 | PRJNA553228 | SAMN12255020 | 10227 | 8158624 | 797.75 | 9092 | 935 | 205 | 9034 | 153 | 8881 | 4 |
| RecA6+IPTG_22h_a | <i>recA6</i> 1 mM IPTG 22 hrs | 1 | 23a | SRP214219 | SRR9670510 | PRJNA553228 | SAMN12255021 | 5141 | 4090877 | 795.74 | 4555 | 920 | 472 | 4232 | 232 | 4001 | 18 |
| RecA6+IPTG_22h_b | <i>recA6</i> 1 mM IPTG 22 hrs | 2 | 20b | SRP214219 | SRR9670515 | PRJNA553228 | SAMN12255033 | 15315 | 11909036 | 777.61 | 13220 | 2135 | 1105 | 12416 | 562 | 11884 | 65 |
| -K-IPTG_Mac_a | Macrophage <i>recA6</i> -K 0 IPTG 12 hrs | 1 | 19a | SRP214219 | SRR9670506 | PRJNA553228 | SAMN12255019 | 8412 | 6700755 | 796.57 | 7437 | 711 | 86 | 7422 | 71 | 7350 | 1 |
| -K-IPTG_Mac_b | Macrophage <i>recA6</i> -K 0 IPTG 12 hrs | 2 | 28b | SRP214219 | SRR9670520 | PRJNA553228 | SAMN12255036 | 6166 | 4842998 | 785.44 | 5445 | 548 | 77 | 5433 | 65 | 5367 | 1 |
| -K+IPTG_Mac_a | Macrophage <i>recA6</i> -K +IPTG 12 hrs | 1 | 30a | SRP214219 | SRR9670523 | PRJNA553228 | SAMN12255022 | 7108 | 5609835 | 789.23 | 6006 | 845 | 260 | 5854 | 132 | 5733 | 15 |
| -K+IPTG_Mac_b | Macrophage <i>recA6</i> -K +IPTG 12 hrs | 2 | 29b | SRP214219 | SRR9670519 | PRJNA553228 | SAMN12255037 | 8983 | 6984210 | 777.49 | 7887 | 1047 | 407 | 7649 | 214 | 7437 | 20 |
| +K-IPTG1_Mac_a | Macrophage <i>recA6</i> +K 0 IPTG 12 hrs | 1 | 31a | SRP214219 | SRR9670524 | PRJNA553228 | SAMN12255023 | 5739 | 4522742 | 788.07 | 5116 | 472 | 67 | 5104 | 55 | 5049 | 1 |
| +K-IPTG2_Mac_b | Macrophage <i>recA6</i> +K 0 IPTG 12 hrs | 2 | 30b | SRP214219 | SRR9670518 | PRJNA553228 | SAMN12255038 | 8732 | 6776041 | 776 | 7721 | 735 | 107 | 7701 | 87 | 7614 | 1 |
| +K+IPTG_Mac_a | Macrophage <i>recA6</i> +K + IPTG 12 hrs | 1 | 32a | SRP214219 | SRR9670521 | PRJNA553228 | SAMN12255024 | 10040 | 7856093 | 782.48 | 8786 | 1127 | 360 | 8595 | 213 | 8385 | 13 |
| +K+IPTG_Mac_b | Macrophage <i>recA6</i> +K + IPTG 12 hrs | 2 | 32b | SRP214219 | SRR9670512 | PRJNA553228 | SAMN12255040 | 3542 | 2763803 | 780.29 | 2935 | 413 | 162 | 2854 | 91 | 2760 | 4 |
| Innoc1_Mac_a | Macrophage <i>recA6</i> inoculum | 1 | 3a | SRP214219 | SRR9670504 | PRJNA553228 | SAMN12255013 | 7865 | 6245248 | 794.06 | 6512 | 631 | 103 | 6488 | 80 | 6405 | 1 |
| Innoc1_Mac_b | Macrophage <i>recA6</i> inoculum | 2 | 27b | SRP214219 | SRR9670513 | PRJNA553228 | SAMN12255035 | 9104 | 7128006 | 782.95 | 8095 | 731 | 115 | 8079 | 100 | 7980 | 3 |

Footnotes: Strain names, accession numbers, reads, and number of sequences filtered during each step of filtering and analysis