

Supplementary Table 1: raw NGS data characteristics pre- and post-quality filtering

For each column the remaining number of reads relative to the previous filtering step are indicated both in total read numbers and as a percentage.

File name	Sample description	Number of raw reads	Reads surviving adaptor trimming		Reads surviving quality filtering		Reads error corrected		Reads surviving rRNA removal		Reads surviving size selection	
C2851_AGTCAA_L004_R1_001.fastq.gz	Mantle edge	4,286,956	4,242,061	98.95%	3,948,042	93.07%	296	0.01%	3,748,464	94.94%	3,318,868	88.54%
C2852_AGTTCC_L004_R1_001.fastq.gz	Mantle proximal	5,800,037	5,747,726	99.10%	5,371,984	93.46%	357	0.01%	5,113,663	95.19%	4,462,521	87.27%
C2853_ATGTCA_L004_R1_001.fastq.gz	Cephalic tentacle	2,856,146	2,828,468	99.03%	2,668,058	94.33%	186	0.01%	2,580,162	96.71%	2,344,036	90.85%
C2854_CCGTCC_L004_R1_001.fastq.gz	Cephalic lobe	2,270,183	2,240,924	98.71%	2,112,469	94.27%	160	0.01%	2,004,077	94.87%	1,772,658	88.45%
C2855_GTAGAG_L004_R1_001.fastq.gz	Central nervous system	3,423,707	3,387,055	98.93%	3,199,017	94.45%	316	0.01%	3,054,568	95.48%	2,678,564	87.69%
C2856_GTCCGC_L004_R1_001.fastq.gz	Foot	4,285,772	4,242,656	98.99%	3,978,505	93.77%	271	0.01%	3,735,989	93.90%	3,255,386	87.14%
C2857_ACTGAT_L004_R1_001.fastq.gz	Buccal mass	2,582,178	2,548,169	98.68%	2,336,198	91.68%	203	0.01%	2,150,095	92.03%	1,862,851	86.64%
p417sDJ33_Jackson_S63_L006_R1_001.fastq.gz	Mantle repairing individual #29 (DJ33)	6,705,138	5,665,676	84.50%	5,276,245	93.13%	471	0.01%	4,901,161	92.89%	4,008,651	81.79%
p417sDJ34_Jackson_S64_L006_R1_001.fastq.gz	Mantle control individual #29 (DJ34)	25,829,023	21,566,218	83.50%	19,631,822	91.03%	1165	0.01%	18,463,650	94.05%	15,220,448	82.43%
p417sDJ35_Jackson_S65_L006_R1_001.fastq.gz	Mantle repairing individual #32 (DJ35)	7,572,671	6,952,474	91.81%	6,436,580	92.58%	440	0.01%	6,057,088	94.10%	5,116,899	84.48%
p417sDJ36_Jackson_S66_L006_R1_001.fastq.gz	Mantle control individual #32 (DJ36)	6,736,501	6,077,353	90.22%	5,653,230	93.02%	294	0.01%	5,334,933	94.37%	4,566,233	85.59%
p417sDJ43_Jackson_S67_L006_R1_001.fastq.gz	Mantle repairing individual #33 (DJ43)	16,650,622	15,811,646	94.96%	14,971,352	94.69%	909	0.01%	14,022,806	93.66%	12,139,795	86.57%
p417sDJ44_Jackson_S68_L006_R1_001.fastq.gz	Mantle control individual #33 (DJ44)	9,529,321	9,037,049	94.83%	8,692,384	96.19%	521	0.01%	8,309,422	95.59%	7,264,208	87.42%
p417sDJ45_Jackson_S69_L006_R1_001.fastq.gz	Mantle repairing individual #34 (DJ45)	28,886,103	27,233,192	94.28%	25,819,176	94.81%	1260	0.00%	24,647,072	95.46%	21,809,083	88.49%
p417sDJ46_Jackson_S70_L006_R1_001.fastq.gz	Mantle control individual #34 (DJ46)	16,597,924	15,770,615	95.02%	15,072,477	95.57%	800	0.01%	14,402,543	95.56%	12,758,779	88.59%