**Table S1. Raw Shotgun Mapping Statistics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Library | Collapsed  Reads | Mapped Reads | Unique Mapped Reads | Fraction Unique Mapped reads |
|  |  |  |  |  |
|  | Mapped to Mitochondrial Reference Genome | | | |
|  |  |  |  |  |
| PCR - ExB | 7990451 | 8 | 3 | 3.75448E-07 |
| PCR -875 | 8604329 | 2799 | 2516 | 0.000292411 |
| PCR -885 | 8164829 | 626 | 579 | 7.09139E-05 |
| PCR -3133 | 9070860 | 533 | 510 | 5.6224E-05 |
| PCR -4089 | 7938604 | 4342 | 2250 | 0.000283425 |
|  |  |  |  |  |
| RPA - ExB | 1868863 | 0 | 0 | 0 |
| RPA-875 | 2326397 | 701 | 657 | 0.000282411 |
| RPA-885 | 2052282 | 242 | 212 | 0.0001033 |
| RPA-3133 | 1966824 | 111 | 104 | 5.28771E-05 |
| RPA-4089 | 2336912 | 2732 | 1149 | 0.000491674 |
|  |  |  |  |  |
|  | Mapped to Nuclear Reference Genome | | | |
|  |  |  |  |  |
| PCR - ExB | 7990451 | 4475 | 3140 |  |
| PCR -875 | 8604329 | 4790367 | 4790367 | 0.56 |
| PCR -885 | 8164829 | 405456 | 405456 | 0.05 |
| PCR -3133 | 9070860 | 5037100 | 5037100 | 0.56 |
| PCR -4089 | 7938604 | 403523 | 403523 | 0.05 |
|  |  |  |  |  |
| RPA - ExB | 1868863 | 3694 | 1191 |  |
| RPA-875 | 2326397 | 1475776 | 1408129 | 0.63 |
| RPA-885 | 2052282 | 180843 | 161570 | 0.09 |
| RPA-3133 | 1966824 | 1237171 | 1181166 | 0.63 |
| RPA-4089 | 2336912 | 405205 | 192478 | 0.17 |