**Table S2. Mitochondrial Genome DNA Enriched Library Mapping Statistic**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| lSample | Collapsed Reads | MappedReads | UniqueMapped Reads | Fraction UniqueReads | Min UniqueRead Depth | Max UniqueRead Depth | % Reference Covered by 1 Unique Read | Fold Enrichment |
| Shotgun Libraries Mapped to Mitogenome Reference |  |  |  |
| ExB-PCR | 7990451 | 8 | 3 | 3.75E-07 | 0 | 1 | 1.39 |  |
| 875-PCR | 8604329 | 2799 | 2516 | 0.000292411 | 0 | 36 | 99.99 |  |
| 885-PCR | 8164829 | 626 | 579 | 7.09E-05 | 0 | 14 | 88.92 |  |
| 3133-PCR | 9070860 | 533 | 510 | 5.62E-05 | 0 | 13 | 90.8 |  |
| 4089-PCR | 7938604 | 4342 | 2250 | 0.000283425 | 0 | 45 | 85.72 |  |
|   |   |   |   |   |   |  |  |  |
| ExB-RPA | 1868863 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 875- RPA | 2326397 | 701 | 657 | 0.000282411 | 0 | 12 | 94.97 |  |
| 885- RPA | 2052282 | 242 | 212 | 0.0001033 | 0 | 7 | 56.59 |  |
| 3133- RPA | 1966824 | 111 | 104 | 5.29E-05 | 0 | 4 | 39.46 |  |
| 4089- RPA | 2336912 | 2732 | 1149 | 0.000491674 | 0 | 26 | 78.51 |  |
|   |   |   |   |   |   |   |  |  |
| mtDNA Enriched Libraries Mapped to Mitogenome |  |  |  |
| ExB-PCR | 5789961 | 7445 | 6 | 1.04E-06 | 0 | 1 | 2.02 | 2.76 |
| 875-PCR | 5056963 | 562527 | 31154 | 0.006160615 | 3 | 419 | 100.00 | 21.07 |
| 885-PCR | 5343711 | 295227 | 13404 | 0.002508369 | 1 | 124 | 100.00 | 35.37 |
| 3133-PCR | 6488540 | 164213 | 23216 | 0.003578001 | 2 | 379 | 100.00 | 63.64 |
| 4089-PCR | 6011939 | 1124995 | 5585 | 0.000928985 | 0 | 79 | 93.19 | 3.28 |
|   |   |   |   |   |   |  |  |   |
| ExB-RPA | 1114655 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 |
| 875- RPA | 3329350 | 159972 | 21240 | 0.006379624 | 2 | 284 | 100.00 | 22.59 |
| 885- RPA | 3318619 | 213737 | 3888 | 0.001171572 | 0 | 124 | 99.99 | 11.34 |
| 3133- RPA | 3031338 | 60346 | 10350 | 0.003414334 | 0 | 208 | 99.92 | 64.57 |
| 4089- RPA | 2262722 | 479705 | 2857 | 0.001262639 | 0 | 69 | 86.69 | 2.57 |