Supplementary Table 1: MA Recovery with simulations using altered parameters

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|  | **# of MAs Recovered (%)** | **Cumulative Length of MAs Recovered (%)**  |
| **Assembler** | **76bp\_100M** | **100bp\_4M** | **76bp\_100M** | **100bp\_4M**  |
| **Trinity** | 72.06 | 64.08 | 95.08 | 95.17  |
| **TransABySS** | 41.00 | 28.66 | 83.79 | 83.66  |
| **Oases** | 51.90 | 45.81 | 93.85 | 91.62  |
| **SOAPdenovo-Trans** | 66.90 | 55.46 | 92.40 | 91.15  |
| **Tophat1-Cufflinks** | 58.06 | 47.84 | 97.09 | 97.44  |
| **Genome guided Trinity** | 70.26 | 60.19 | 95.37 | 95.59  |

100 million 76bp and 4 million 100bp reads were simulated, and assembled using all six assemblers. The number of MAs (%) and their cumulative lengths recovered (%) are reported here.