|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dataset (SK1 with reference S288C) | MIN(bp) | MAX(bp) | N50(bp) | Total length(bp) | Mapped reads | Proper pairs |
| *De novo* assembly | Spades | 80 | 326,738  | 64,602  |  11,769,237  | 99.67% | 98.02% |
| MaSurCa | 301  | 217,864  | 41,266  | 11,111,148  | 75.29% | 97.44% |
| SOAPdenovo2 | 100  | 145,188  | 31,924  | 12,788,634  | 99.23% | 94.02% |
| RACA assembly | On Spades | 80  | 972,680  | 482,484  | 11,785,666  | 99.67% | 98.01% |
| On MaSurCa | 301 | 913,552  | 602,592  | 11,131,068  | 75.29% | 97.43% |
| On SOAPdenovo2 | 100  | 856,147  | 383,323  | 12,810,218  | 99.23% | 94.04% |
| Meta assembly | Meta | 80  | 972,398  | 665,741  | 11,758,028  | 99.46% | 97.98% |
| Final assembly | Corrected-assembly | 80  | 972,610  | 666,314  | 11,760,467  | 99.46% | 98.06% |
| PacBio | PacBio | 84,638  | 1,486,921  | 923,535  | 12,147,923  | 81.48% | 98.93% |