|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dataset (Sigma1278b with reference S288C) | MIN(bp) | MAX(bp) | N50(bp) | Total length(bp) | Mapped reads | Proper pairs |
| *De novo* assembly | Spades | 80  | 454,811  | 138,590  | 11,694,367  | 99.84% | 96.65% |
| MaSurCa | 160  | 442,566  | 97,733  | 12,367,860  | 97.37% | 96.36% |
| SOAPdenovo2 | 100  | 667,982  | 175,806  | 11,845,136  | 99.45% | 90.16% |
| RACA assembly | On Spades | 80  | 1,229,127  | 717,070  | 11,702,200  | 99.84% | 96.68% |
| On MaSurCa | 160  | 1,437,493  | 659,302  | 12,380,820  | 97.38% | 96.45% |
| On SOAPdenovo2 | 100  | 1,430,785  | 717,133  | 11,850,891  | 99.45% | 90.17% |
| Meta assembly | Meta | 80  | 1,435,360  | 716,705  | 11,691,584  | 99.81% | 96.64% |
| Final assembly | Corrected-assembly | 80  | 1,440,411  | 719,378  | 11,716,077  | 99.81% | 96.93% |
| PacBio | PacBio | 80  | 454,811  | 138,590  | 11,694,367  | 99.84% | 96.65% |