|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **True\_INDELible** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **MAFFT** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **PRANK** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **ProPIP** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** |
| **1. Without cutoff (85)** | 9541 | 3667 | 20.2615 | 2 | 133.9002 |  | 7774 | 1724 | 20.9419 | 2 | 91.5633 |  | 8906 | 1754 | 18.9233 | 2 | 82.2218 |  | 33171 | 444 | 5.13671 | 2 | 10.4258 |
| **2. cutoff=20 (100)** | 11511 | 37 | 3.1162 | 1 | 3.8500 |  | 9279 | 45 | 3.6545 | 2 | 4.3943 |  | 10226 | 38 | 3.3067 | 2 | 3.9699 |  | 19539 | 30 | 2.0414 | 1 | 2.1315 |
| **True\_PIP** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **MAFFT** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **PRANK** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **ProPIP** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** |
| **1. Without shuffling (100)** | 11648 | 4 | 1.0822 | 1 | 0.2958 |  | 8996 | 5 | 1.0953 | 1 | 0.3487 |  | 10058 | 5 | 1.1236 | 1 | 0.4169 |  | 16333 | 12 | 1.2787 | 1 | 0.7982 |
| **2.Shuffling (100)** | 11639 | 4 | 1.0830 | 1 | 0.2970 |  | 9003 | 5 | 1.0945 | 1 | 0.3477 |  | 10062 | 5 | 1.1232 | 1 | 0.4164 |  | 16360 | 14 | 1.2766 | 1 | 0.7996 |
| **True\_real** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **MAFFT** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **PRANK** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** | **ProPIP** | **Number of Indels** | **Max Indel Length** | **Mean** | **Median** | **SD** |
| **1.real data (4)** | 314 | 43 | 8.9299 | 4 | 11.5169 |  | 343 | 48 | 8.4810 | 3 | 11.8829 |  | 532 | 63 | 8.3251 | 5 | 10.1692 |  | 1309 | 34 | 2.8281 | 1 | 3.3681 |