**S2 Table. General properties of the reads produced by Illumina Hiseq 2500 sequencing platform.**

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| --- | --- | --- | --- |
| **Hiseq sequencing library** | **Hiseq2500 reads** | **High-quality reads rate (>=Q30) (%)** | **Mapping rate**  **(%)** |
| Leaf\_1 | 19,606,595 | 88.71 | 81.91 |
| Leaf\_2 | 19,605,925 | 89.40 | 82.16 |
| Leaf\_3 | 20,355,521 | 92.52 | 85.70 |
| Root\_1 | 22,299,323 | 92.33 | 83.99 |
| Root\_2 | 21,073,842 | 92.33 | 85.34 |
| Root\_3 | 22,322,536 | 92.50 | 85.37 |
| Early Seed\_1 | 24,629,055 | 88.82 | 82.45 |
| Early Seed\_2 | 24,794,874 | 88.62 | 82.69 |
| Early Seed\_3 | 30,257,044 | 88.61 | 81.14 |
| Late Seed\_1 | 25,197,545 | 92.28 | 86.40 |
| Late Seed\_2 | 24,216,679 | 92.08 | 86.83 |
| Late Seed\_3 | 23,672,556 | 88.15 | 81.56 |