|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Name** | **Raw Reads** | **% GC** | **Read Length** | **Trimmed reads** | **Percentage of clean reads** | **Mapped Reads** | **Percentage of mapped reads** | **Number of Uniquely mapped reads** | **Percent uniquely mapped** | **Accession** |
| Control: No aphids; Susceptible soybean;  Day 1 | 25252863 | 46% | 75 | 25092599 | 99.37 | 23394131 | 93.23119937 | 20651941 | 88.27829937 | SRR8848027 |
| Control: No aphids; Susceptible soybean;  Day 11 | 27576285 | 45% | 75 | 27428725 | 99.46 | 25212419 | 91.91976295 | 22903908 | 90.84375442 | SRR8848028 |
| Control: No aphids; Resistant soybean;  Day 1 | 26009250 | 45% | 75 | 25842889 | 99.36 | 23766133 | 91.96391704 | 21001237 | 88.36623526 | SRR8848025 |
| Control: No aphids; Resistant soybean;  Day 11 | 27852647 | 44% | 75 | 27688740 | 99.41 | 25665595 | 92.69325726 | 23579647 | 91.87259052 | SRR8848026 |
| Inducer: None; Response: 15 biotype 1; Susceptible soybean; Day 11 | 26191613 | 45% | 75 | 26048380 | 99.45 | 23554300 | 90.42520111 | 21541233 | 91.4535053 | SRR8848031 |
| Inducer: 50 biotype 2; Response:15 biotype 1;  Susceptible soybean; Day 1 | 26008870 | 46% | 75 | 25862409 | 99.4 | 23894333 | 92.39020619 | 20704930 | 86.6520526 | SRR8848032 |
| Inducer: 50 biotype 2; Response: 15 biotype 1;  Susceptible soybean; Day 11 | 27213494 | 46% | 75 | 27046904 | 99.39 | 24598524 | 90.94765153 | 21099681 | 85.77620755 | SRR8848029 |
| Inducer: None; Response: 15 biotype 1; Resistant soybean; Day 11 | 26274980 | 45% | 75 | 26116361 | 99.4 | 24249196 | 92.85059278 | 22100532 | 91.13923612 | SRR8848030 |
| Inducer: 50 biotype 2; Response: 15 biotype 1;  Resistant soybean; Day 1 | 26424818 | 45% | 75 | 26275488 | 99.43 | 24065562 | 91.58940074 | 21158309 | 87.91944688 | SRR8848023 |
| Inducer: 50 biotype 2; Response: 15 biotype 1;  Resistant soybean; Day 11 | 27730834 | 45% | 75 | 27562105 | 99.39 | 25387621 | 92.11060258 | 23022198 | 90.68277016 | SRR8848024 |

**Table S1.** Statistics of the transcriptomic data using RNA-seq pipeline used in this study