**Supplementary file 1. Quality control of small RNA sequencing data.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Groups** | **Sample name** | **Raw**  **reads** | **Q20** | **Q30** | **GC content** | **Clean reads** | **Mapped reads** | **%Mapped rate** |
| VU | VU1 | 12352608 | 96.83% | 93.54% | 53.05% | 8592627 | 1478783 | 17.21 |
| VU | VU2 | 10984280 | 96.87% | 93.62% | 52.11% | 7924433 | 1842502 | 23.25 |
| VU | VU3 | 13311104 | 96.85% | 93.61% | 51.73% | 10756575 | 2284593 | 21.24 |
| VU | VU4 | 11251717 | 96.60% | 93.20% | 53.50% | 9426308 | 1847827 | 19.60 |
| VU | VU5 | 16589164 | 96.88% | 93.65% | 51.80% | 14041875 | 2710757 | 19.31 |
| Skin | Skin1 | 17149375 | 95.05% | 89.96% | 51.70% | 15180413 | 5807660 | 38.26 |
| Skin | Skin2 | 11007535 | 95.55% | 91.17% | 50.69% | 9876104 | 6993832 | 70.82 |
| Skin | Skin3 | 10755030 | 95.82% | 91.59% | 51.60% | 9246046 | 4878001 | 52.76 |
| Skin | Skin4 | 10577666 | 96.92% | 93.73% | 52.87% | 9125424 | 3288691 | 36.04 |
| Skin | Skin5 | 14453350 | 97.00% | 93.99% | 51.00% | 12409530 | 6733966 | 54.26 |
| Wound1 | Wound1\_1 | 11631465 | 96.76% | 93.38% | 51.62% | 9228914 | 4448460 | 48.20 |
| Wound1 | Wound1\_2 | 10202264 | 97.00% | 93.91% | 50.08% | 8894857 | 6258419 | 70.36 |
| Wound1 | Wound1\_3 | 10173871 | 96.98% | 93.77% | 50.48% | 8499570 | 5852107 | 68.85 |
| Wound1 | Wound1\_4 | 11371432 | 96.90% | 93.71% | 50.77% | 10256444 | 6620450 | 64.55 |
| Wound1 | Wound1\_5 | 12469709 | 96.88% | 93.68% | 51.57% | 10400310 | 4957568 | 47.67 |
| Wound7 | Wound7\_1 | 11734696 | 96.89% | 93.68% | 51.13% | 9884324 | 4099639 | 41.48 |
| Wound7 | Wound7\_2 | 11312106 | 97.08% | 94.07% | 50.42% | 9875669 | 5397518 | 54.66 |
| Wound7 | Wound7\_3 | 11326902 | 96.89% | 93.66% | 51.28% | 8587464 | 3942153 | 45.91 |
| Wound7 | Wound7\_4 | 11073271 | 96.85% | 93.54% | 52.31% | 8632616 | 2296446 | 26.60 |
| Wound7 | Wound7\_5 | 12543302 | 96.85% | 93.58% | 51.70% | 9564730 | 2811963 | 29.40 |

Raw reads, clean reads, and mapped reads are single fragments.