### Table S3. Statistics of ssRNA and dRNA-sequencing.

| Library | Sample | Raw data | Quality and adapter trimming | Genome mapping (total) | Genome mapping (unique) |
|---------|--------|----------|------------------------------|------------------------|-------------------------|
|         |        | Reads    | Length | Remaining reads | Discarded (%) | Mapped Reads | # of bases | Map ped (%) | Coverage | Mapped Reads | # of bases | Map ped (%) | Coverage |
| ssRNA-seq | 20 H1  | 23,222,472 | 51     | 23,219,127 | 0.0          | 22,443,904 | 1,143,429,259 | 96.6       | 272       | 16,706,884 | 851,311,045 | 71.9 | 203       |
|          | 20 H2  | 12,930,518 | 51     | 12,930,518 | 0.0          | 12,355,219 | 629,289,845    | 95.6       | 150       | 8,725,145 | 444,519,801 | 67.5 | 106       |
|          | 20 A1  | 12,628,973 | 51     | 12,628,125 | 0.0          | 11,306,556 | 575,862,047    | 89.5       | 137       | 8,779,865 | 447,309,916 | 69.5 | 107       |
|          | 20 A2  | 18,353,314 | 51     | 18,351,423 | 0.0          | 15,024,813 | 765,471,306    | 81.9       | 182       | 11,382,084 | 580,011,966 | 62.0 | 138       |
|          | 10_H1  | 24,873,291 | 51     | 24,871,515 | 0.0          | 24,805,671 | 1,260,417,934 | 99.7       | 300       | 23,000,473 | 1,168,830,462 | 92.5 | 278       |
|          | 10_H2  | 19,208,162 | 51     | 19,206,648 | 0.0          | 19,158,062 | 973,512,450    | 99.7       | 232       | 17,797,967 | 904,500,249 | 92.7 | 215       |
|          | 10_A1  | 21,135,880 | 51     | 21,135,880 | 0.0          | 21,054,344 | 1,069,417,581 | 99.6       | 255       | 17,906,149 | 909,775,344 | 84.7 | 217       |
|          | 10_A2  | 22,545,745 | 51     | 22,545,745 | 0.0          | 22,474,241 | 1,141,976,582 | 99.7       | 272       | 19,752,303 | 1,003,884,855 | 87.6 | 239       |
| dRNA-seq | 20_H1  | 7,793,136  | 100    | 7,663,947  | 1.7          | 7,514,967  | 751,848,764    | 96.4       | 179       | 7,362,095 | 736,624,648  | 94.5 | 175       |
|          | 20_H1  | 8,801,273  | 100    | 7,669,835  | 12.9         | 7,266,517  | 724,369,687    | 82.6       | 172       | 7,078,142 | 705,926,485  | 80.4 | 168       |
|          | 20_H2  | 8,092,363  | 100    | 6,733,705  | 16.8         | 6,510,319  | 648,486,956    | 80.5       | 154       | 6,393,520 | 637,046,066  | 79.0 | 152       |
|          | 20_A1  | 8,092,363  | 100    | 3,252,342  | 59.8         | 2,937,269  | 290,165,553    | 36.3       | 69        | 2,855,913 | 282,323,949  | 35.3 | 67        |
|          | 20_A2  | 8,748,019  | 100    | 7,496,773  | 14.3         | 7,232,370  | 720,649,895    | 82.7       | 172       | 7,061,533 | 704,153,932  | 80.7 | 168       |
|          | 20_A1  | 7,359,463  | 100    | 3,590,110  | 51.2         | 2,960,391  | 720,525,464    | 40.2       | 70        | 2,889,109 | 285,847,626  | 39.3 | 68        |
|          | 20_A2  | 9,822,667  | 100    | 9,247,874  | 5.9          | 8,355,445  | 825,492,459    | 85.1       | 197       | 8,154,069 | 806,709,405  | 83.0 | 192       |
|          | 20_A2  | 6,380,411  | 100    | 3,039,518  | 52.4         | 2,593,578  | 256,896,692    | 40.6       | 61        | 2,504,689 | 248,504,568  | 39.3 | 59        |
|          | 10_H1  | 13,400,573 | 100    | 12,790,336 | 4.6          | 11,251,038 | 1,086,530,924 | 84.0       | 259       | 10,885,556 | 1,053,057,416 | 81.2 | 251       |
|          | 10_H1  | 10,021,910 | 100    | 8,196,032  | 18.2         | 6,117,694  | 586,823,866    | 61.0       | 140       | 5,883,457 | 566,102,646  | 58.7 | 135       |
|          | 10_H2  | 12,758,706 | 100    | 11,150,382 | 12.6         | 7,809,449  | 689,119,420    | 61.2       | 164       | 7,393,303 | 660,248,506  | 57.9 | 157       |
|          | 10_H2  | 9,458,132  | 100    | 9,458,132  | 0.0          | 7,616,544  | 725,800,332    | 80.5       | 173       | 7,239,837 | 693,203,014  | 76.5 | 165       |
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 10_A1_ RPP+ | 9,560,657 | 100 | 8,364,998 | 12.5 | 7,201,025 | 713,519,340 | 75.3 | 170 | 6,195,262 | 613,895,923 | 64.8 | 146 |
| 10_A1_ RPP- | 7,681,907 | 100 | 5,112,845 | 33.4 | 3,546,437 | 339,651,492 | 46.2 | 81 | 2,895,034 | 277,659,396 | 37.7 | 66 |
| 10_A2_ RPP+ | 10,872,050 | 100 | 10,064,516 | 7.4 | 9,692,022 | 954,318,397 | 89.1 | 227 | 9,366,109 | 923,663,600 | 86.1 | 220 |
| 10_A2_ RPP- | 7,591,691 | 100 | 5,540,130 | 27.0 | 2,925,870 | 275,663,221 | 38.5 | 66 | 2,608,700 | 249,179,656 | 34.4 | 59 |