**Table S2.** Sample sequencing depth and transcriptome alignment statistics.

|  |  |  |  |
| --- | --- | --- | --- |
| Sample | Seq\_depth | Trans\_align | Trans\_align\_% |
| H9.D37-1 | 21,832,136 | 17,962,891 | 82.30% |
| H9.D37-2 | 25,297,501 | 21,041,391 | 83.20% |
| H9.D67-1 | 26,993,413 | 24,053,147 | 89.10% |
| H9.D67-2 | 20,294,434 | 18,254,072 | 89.90% |
| H9.D67-3 | 22,062,956 | 19,514,934 | 88.50% |
| H9.D90-1 | 18,010,382 | 15,326,247 | 85.10% |
| H9.D90-2 | 14,879,706 | 13,111,860 | 88.10% |
| H9.D120-1 | 22,521,093 | 19,049,732 | 84.60% |
| H9.D120-2 | 24,011,087 | 20,264,262 | 84.40% |
| H9.D150-1 | 23,784,357 | 19,412,290 | 81.60% |
| H9.D150-2 | 22,834,483 | 19,330,481 | 84.70% |
| H9.D200-1 | 23,184,016 | 20,082,024 | 86.60% |
| H9.D200-2 | 14,517,994 | 12,091,873 | 83.30% |
| PEN8E.D37-1 | 21,243,589 | 17,035,505 | 80.20% |
| PEN8E.D37-2 | 25,267,642 | 21,021,810 | 83.20% |
| PEN8E.D37-3 | 23,473,433 | 19,934,360 | 84.90% |
| PEN8E.D60-1 | 19,054,518 | 15,620,674 | 82.00% |
| PEN8E.D60-2 | 19,884,856 | 16,427,525 | 82.60% |
| PEN8E.D67-1 | 27,572,317 | 21,126,095 | 76.60% |
| PEN8E.D75-1 | 19,368,379 | 16,519,700 | 85.30% |
| PEN8E.D75-2 | 19,819,185 | 17,220,250 | 86.90% |
| PEN8E.D90-1 | 19,423,238 | 17,266,192 | 88.90% |
| PEN8E.D90-2 | 21,927,027 | 19,103,309 | 87.10% |
| PEN8E.D105-1 | 24,118,171 | 18,734,843 | 77.70% |
| PEN8E.D105-2 | 22,009,959 | 17,482,478 | 79.40% |
| PEN8E.D120-1 | 18,473,850 | 14,780,100 | 80.00% |
| PEN8E.D120-2 | 19,701,644 | 15,719,349 | 79.80% |
| PEN8E.D150-1 | 19,459,579 | 15,214,586 | 78.20% |
| PEN8E.D150-2 | 22,961,865 | 17,571,832 | 76.50% |
| PEN8E.D200-1 | 20,071,514 | 16,814,510 | 83.80% |
| PEN8E.D200-2 | 24,436,061 | 18,379,582 | 75.20% |
| ESP1.D25-1 | 14,704,091 | 12,012,778 | 81.70% |
| ESP1.D25-2 | 21,394,307 | 18,714,088 | 87.50% |
| ESP1.D25-3 | 20,052,787 | 16,673,332 | 83.10% |
| ESP1.D25-4 | 18,160,935 | 15,721,341 | 86.60% |
| ESP1.D25-5 | 22,033,815 | 19,040,763 | 86.40% |
| ESP1.D60-1 | 21,275,872 | 16,062,658 | 75.50% |
| ESP1.D60-2 | 19,264,199 | 16,324,725 | 84.70% |
| ESP1.D88-1 | 19,722,184 | 16,184,985 | 82.10% |
| ESP1.D88-2 | 18,920,863 | 15,792,851 | 83.50% |
| ESP1.D123-1 | 23,724,942 | 19,403,360 | 81.80% |
| ESP1.D123-2 | 20,794,569 | 17,379,224 | 83.60% |
| ESP1.D123-3 | 22,032,220 | 17,937,570 | 81.40% |
| ESP1.D123-4 | 21,676,161 | 18,228,515 | 84.10% |
| ESP1.D172-1 | 20,346,767 | 17,218,924 | 84.60% |
| ESP1.D186-1 | 20,882,681 | 17,803,281 | 85.30% |
| ESP2.D25-1 | 20,331,548 | 17,935,020 | 88.20% |
| ESP2.D25-2 | 14,957,590 | 13,092,818 | 87.50% |
| ESP2.D60-1 | 21,910,609 | 18,993,760 | 86.70% |
| ESP2.D88-1 | 19,674,498 | 17,115,974 | 87.00% |
| ESP2.D123-1 | 20,639,579 | 17,543,514 | 85.00% |
| ESP2.D172-1 | 23,050,141 | 19,668,258 | 85.30% |
| ESP2.D172-2 | 22,338,688 | 19,007,238 | 85.10% |
| ESP2.D186-2 | 19,738,795 | 17,450,442 | 88.40% |
| ESP2.D186-1 | 20,508,729 | 17,346,868 | 84.60% |
| NEI377.D38-1 | 20,911,394 | 16,256,489 | 77.70% |
| NEI377.D38-2 | 17,550,803 | 13,634,773 | 77.70% |
| NEI377.D90-1 | 20,136,094 | 15,687,203 | 77.90% |
| NEI377.D90-2 | 19,384,630 | 14,791,485 | 76.30% |
| NEI377.D90-3 | 21,283,858 | 15,360,216 | 72.20% |
| NEI377.D90-4 | 22,567,059 | 16,902,053 | 74.90% |
| NEI377.D90-5 | 19,083,929 | 14,564,695 | 76.30% |
| NEI377.D90-6 | 24,264,495 | 19,203,749 | 79.10% |
| NEI377.D120-1 | 19,873,521 | 15,011,126 | 75.50% |
| NEI377.D120-2 | 23,053,076 | 17,427,396 | 75.60% |
| NEI377.D120-3 | 20,108,895 | 14,363,039 | 71.40% |
| NEI377.D145-1 | 19,725,894 | 14,326,910 | 72.60% |
| NEI377.D153-1 | 23,213,733 | 17,311,268 | 74.60% |
| NEI377.D200-1 | 19,630,696 | 15,171,125 | 77.30% |
| NEI377.D202-1 | 21,994,264 | 16,939,749 | 77.00% |
| NEI377.D203-1 | 20,458,746 | 16,797,472 | 82.10% |
| PEN8E\_2.D38-1 | 19,405,524 | 15,643,619 | 80.60% |
| PEN8E\_2.D91-1 | 20,838,339 | 16,393,952 | 78.70% |
| PEN8E\_2.D91-2 | 20,062,888 | 15,822,274 | 78.90% |
| PEN8E\_2.D122-1 | 23,990,310 | 17,975,936 | 74.90% |
| PEN8E\_2.D152-1 | 36,243,603 | 27,466,405 | 75.80% |
| PEN8E\_2.D152-2 | 21,310,434 | 16,490,015 | 77.40% |
| PEN8E\_2.D200-1 | 18,875,882 | 15,847,066 | 84.00% |
| PEN8E\_2.D201-1 | 19,369,777 | 16,204,363 | 83.70% |
| PEN8E\_2.D201-2 | 19,492,372 | 17,032,783 | 87.40% |
| ATRA.D90-1 | 22,975,586 | 17,972,405 | 78.20% |
| ATRA.D90-2 | 22,312,659 | 17,386,143 | 77.90% |
| ATRA.D120-1 | 22,160,447 | 19,181,966 | 86.60% |
| ATRA.D120-2 | 24,731,441 | 20,795,230 | 84.10% |
| ATRA.D120-3 | 24,504,231 | 21,351,159 | 87.10% |
| 9CRAL.D90-1 | 20,286,221 | 16,949,475 | 83.60% |
| 9CRAL.D90-2 | 21,526,779 | 17,723,168 | 82.30% |
| 9CRAL.D120-1 | 22,753,718 | 18,930,566 | 83.20% |
| 9CRAL.D120-2 | 25,249,084 | 19,865,639 | 78.70% |
| 9CRAL.D120-3 | 27,096,334 | 23,659,214 | 87.30% |