Supplementary Table 2. Data production of the study cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Sample ID** | **Raw PE(#)** | **Raw Tags(#)** | **Clean Tags(#)** | **Effective Tags(#)** | **Base(nt)** | **Avglen(nt)** | **Q20** | **Q30** | **GC%** | **Effective%** |
| before | before-1 | 57,969 | 56,344 | 52,925 | 45,456 | 19,053,348 | 419 | 96.62% | 95% | 51.23% | 78.41% |
| before-2 | 61,892 | 60,792 | 57,452 | 53,120 | 22,321,628 | 420 | 96.70% | 95.08% | 51.50% | 85.83% |
| before-3 | 57,194 | 56,262 | 52,954 | 48,837 | 20,933,882 | 428 | 97.07% | 95.61% | 51.63% | 85.39% |
| before-4 | 61,488 | 60,611 | 57,228 | 53,487 | 22,730,668 | 424 | 97.18% | 95.75% | 52.72% | 86.99% |
| before-5 | 50,856 | 50,090 | 47,139 | 41,502 | 17,636,604 | 424 | 97.06% | 95.61% | 51.58% | 81.61% |
| before-6 | 53,437 | 52,610 | 49,504 | 47,682 | 20,377,604 | 427 | 97.23% | 95.79% | 53.15% | 89.23% |
| before-7 | 61,704 | 60,384 | 57,031 | 53,886 | 22,414,230 | 415 | 96.56% | 94.85% | 52.89% | 87.33% |
| before-8 | 57,735 | 56,823 | 53,599 | 48,298 | 20,504,527 | 424 | 97.12% | 95.66% | 52.41% | 83.65% |
| before-9 | 52,806 | 51,809 | 48,838 | 45,055 | 19,189,685 | 425 | 97.20% | 95.76% | 52.19% | 85.32% |
| before-10 | 52,650 | 51,684 | 48,692 | 44,282 | 19,037,707 | 429 | 97.01% | 95.48% | 51.82% | 84.11% |
| before-11 | 77,363 | 76,828 | 73,161 | 62,378 | 27,358,284 | 438 | 98.75% | 98.06% | 53.89% | 80.63% |
| before-12 | 66,285 | 65,813 | 62,650 | 56,999 | 24,943,054 | 437 | 98.74% | 98.05% | 53.70% | 85.99% |
| before-13 | 84,471 | 83,809 | 80,057 | 69,838 | 30,420,365 | 435 | 98.50% | 97.62% | 54.57% | 82.68% |
| before-14 | 100,787 | 99,919 | 95,144 | 83,970 | 37,072,973 | 441 | 98.40% | 97.47% | 54.67% | 83.31% |
| after | after-1 | 61,747 | 60,797 | 57,135 | 53,663 | 23,136,229 | 431 | 97.46% | 96.19% | 51.87% | 86.91% |
| after-2 | 62,124 | 61,281 | 57,420 | 54,428 | 23,604,292 | 433 | 97.48% | 96.22% | 51.55% | 87.61% |
| after-3 | 60,123 | 59,286 | 55,622 | 50,122 | 21,796,640 | 434 | 97.43% | 96.14% | 51.59% | 83.37% |
| after-4 | 51,306 | 50,551 | 47,206 | 44,414 | 19,063,358 | 429 | 97.07% | 95.63% | 52.12% | 86.57% |
| after-5 | 130,400 | 127,602 | 109,029 | 105,428 | 46,304,033 | 439 | 98.82% | 95.62% | 52.77% | 80.85% |
| after-6 | 58,129 | 57,335 | 53,896 | 49,492 | 21,485,049 | 434 | 97.45% | 96.14% | 52.39% | 85.14% |
| after-7 | 131,088 | 127,101 | 120,027 | 117,164 | 48,567,037 | 414 | 98.33% | 94.33% | 53.70% | 89.38% |
| after-8 | 60,199 | 59,301 | 55,768 | 52,086 | 22,510,129 | 432 | 97.41% | 96.11% | 52.09% | 86.52% |
| after-9 | 50,310 | 49,482 | 46,524 | 44,854 | 19,230,112 | 428 | 97.06% | 95.55% | 52.68% | 89.16% |
| after-10 | 51,334 | 50,460 | 47,426 | 43,988 | 18,822,953 | 427 | 97.03% | 95.51% | 52.81% | 85.69% |
| after-11 | 158,961 | 154,448 | 146,629 | 138,561 | 57,710,807 | 416 | 98.40% | 94.58% | 53.14% | 87.17% |
| after-12 | 155,290 | 151,164 | 143,791 | 135,522 | 56,597,934 | 417 | 98.43% | 94.61% | 54.14% | 87.27% |
| after-13 | 146,214 | 141,565 | 133,165 | 128,517 | 53,418,632 | 415 | 98.32% | 94.24% | 54.25% | 87.90% |
| after-14 | 65,436 | 64,367 | 60,521 | 57,174 | 24,602,247 | 430 | 96.99% | 95.40% | 52.77% | 87.37% |