

Table S3. Variant calling for the mapped reads.

| Lines | Progressed Reads | Mapped Reads | | Lines | Progressed Reads | Mapped Reads | |
|----------|------------------|--------------|--------|--------|------------------|--------------|--------|
| KAS523-7 | 7,649,550 | 7,317,569 | 95.66% | DP-028 | 10,441,632 | 10,233,725 | 98.01% |
| 94Seori | 3,903,690 | 3,706,390 | 94.95% | DP-029 | 3,899,686 | 3,716,598 | 95.31% |
| BS-25 | 7,547,426 | 7,301,067 | 96.74% | DP-046 | 4,114,452 | 3,860,853 | 93.84% |
| BS-63 | 3,275,656 | 3,153,291 | 96.26% | DP-048 | 1,948,254 | 1,860,717 | 95.51% |
| BS-73 | 6,821,852 | 6,674,374 | 97.84% | DP-051 | 7,443,956 | 7,202,406 | 96.76% |
| BS-74 | 9,307,644 | 9,145,850 | 98.26% | DP-052 | 7,406,186 | 7,167,732 | 96.78% |
| BS-84 | 8,899,140 | 8,605,623 | 96.70% | DP-053 | 7,231,542 | 6,772,244 | 93.65% |
| BangSa | 10,288,844 | 7,836,341 | 76.16% | DP-054 | 4,196,558 | 3,984,055 | 94.94% |
| DanBaek | 6,642,424 | 6,306,001 | 94.94% | DP-055 | 9,988,236 | 9,690,380 | 97.02% |
| DB-003 | 8,963,300 | 8,660,583 | 96.62% | DP-056 | 9,310,106 | 8,978,557 | 96.44% |
| DB-004 | 7,623,078 | 7,384,225 | 96.87% | DP-057 | 9,590,708 | 9,359,069 | 97.58% |
| DB-005 | 6,924,202 | 6,715,125 | 96.98% | DP-059 | 3,339,232 | 3,239,472 | 97.01% |
| DB-006 | 3,355,652 | 3,109,835 | 92.67% | DP-060 | 8,054,884 | 7,603,362 | 94.39% |
| DB-007 | 3,122,512 | 2,987,735 | 95.68% | DP-061 | 10,272,800 | 10,091,983 | 98.24% |
| DB-008 | 3,910,016 | 3,804,717 | 97.31% | DP-062 | 6,963,660 | 6,728,068 | 96.62% |
| DB-009 | 5,010,838 | 4,760,020 | 94.99% | DP-079 | 6,195,362 | 6,033,920 | 97.39% |
| DB-010 | 3,952,226 | 3,871,036 | 97.95% | DP-080 | 8,634,364 | 8,454,757 | 97.92% |
| DB-016 | 2,779,016 | 2,660,020 | 95.72% | DP-081 | 11,155,920 | 10,408,673 | 93.30% |
| DB-019 | 6,737,314 | 6,560,857 | 97.38% | DP-083 | 9,085,478 | 8,883,045 | 97.77% |
| DB-024 | 2,181,262 | 2,072,247 | 95.00% | DP-084 | 2,361,404 | 2,284,848 | 96.76% |
| DB-026 | 2,780,794 | 2,723,714 | 97.95% | DP-085 | 7,718,404 | 7,421,990 | 96.16% |
| DB-027 | 5,208,832 | 5,057,077 | 97.09% | DP-086 | 3,599,386 | 3,473,676 | 96.51% |
| DB-029 | 3,713,012 | 3,494,943 | 94.13% | DP-087 | 5,658,186 | 5,468,375 | 96.65% |
| DB-030 | 5,710,576 | 5,559,493 | 97.35% | DP-090 | 3,932,926 | 3,815,963 | 97.03% |
| DB-031 | 5,959,672 | 5,752,698 | 96.53% | DP-091 | 2,923,242 | 2,876,842 | 98.41% |
| DB-033 | 2,570,600 | 2,487,807 | 96.78% | DP-092 | 8,248,144 | 8,132,299 | 98.60% |
| DB-034 | 4,334,532 | 4,174,175 | 96.30% | DP-093 | 9,040,980 | 8,438,988 | 93.34% |
| DB-035 | 1,377,770 | 1,341,240 | 97.35% | DP-094 | 2,897,298 | 2,806,311 | 96.86% |
| DB-036 | 3,831,858 | 3,753,684 | 97.96% | DP-095 | 8,236,086 | 7,903,090 | 95.96% |
| DB-037 | 2,058,634 | 2,011,489 | 97.71% | DP-097 | 2,900,834 | 2,859,539 | 98.58% |
| DB-038 | 2,429,596 | 2,355,853 | 96.96% | DP-106 | 4,731,178 | 4,561,792 | 96.42% |

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|--------|-----------|-----------|--------|----------|------------|------------|--------|
| DB-039 | 2,631,398 | 2,587,594 | 98.34% | DP-111 | 6,318,296 | 6,113,982 | 96.77% |
| DB-040 | 6,503,692 | 6,124,222 | 94.17% | DP-114 | 8,550,804 | 8,357,630 | 97.74% |
| DB-041 | 4,609,410 | 4,461,350 | 96.79% | DP-117 | 3,814,786 | 3,623,279 | 94.98% |
| DB-044 | 5,930,368 | 5,831,911 | 98.34% | DP-120 | 6,507,376 | 6,374,922 | 97.96% |
| DB-045 | 6,666,282 | 6,477,628 | 97.17% | DP-121 | 1,645,238 | 1,533,453 | 93.21% |
| DB-046 | 3,720,432 | 3,567,407 | 95.89% | DP-127 | 2,063,314 | 1,944,895 | 94.26% |
| DB-049 | 6,849,680 | 6,455,146 | 94.24% | DP-129 | 1,852,330 | 1,714,575 | 92.56% |
| DB-050 | 4,104,760 | 3,735,377 | 91.00% | DP-131 | 2,762,026 | 2,638,644 | 95.53% |
| DB-051 | 6,283,082 | 5,585,079 | 88.89% | DP-132 | 2,793,136 | 2,674,008 | 95.73% |
| DB-054 | 6,017,742 | 5,863,382 | 97.43% | DP-140 | 3,519,294 | 3,435,333 | 97.61% |
| DB-056 | 5,394,972 | 5,292,329 | 98.10% | DP-152 | 6,625,840 | 6,510,010 | 98.25% |
| DB-059 | 6,081,320 | 5,723,386 | 94.11% | DP-172 | 2,153,298 | 2,119,486 | 98.43% |
| DB-060 | 4,142,840 | 4,034,425 | 97.38% | DP-178 | 3,249,752 | 3,172,538 | 97.62% |
| DB-061 | 4,284,184 | 4,210,590 | 98.28% | DP-179 | 5,295,250 | 5,027,228 | 94.94% |
| DB-062 | 3,300,622 | 3,201,380 | 96.99% | DP-183 | 4,118,472 | 3,986,715 | 96.80% |
| DB-063 | 4,644,350 | 4,577,358 | 98.56% | DP-184 | 8,012,342 | 7,756,450 | 96.81% |
| DB-064 | 2,715,172 | 2,550,497 | 93.94% | DP-190 | 6,614,588 | 6,354,026 | 96.06% |
| DB-065 | 4,675,970 | 4,597,399 | 98.32% | DP-192 | 4,175,284 | 4,041,834 | 96.80% |
| DB-067 | 5,012,164 | 4,756,404 | 94.90% | DP-200 | 5,961,044 | 5,753,820 | 96.52% |
| DB-068 | 3,517,866 | 3,377,277 | 96.00% | HK-10 | 4,334,910 | 4,159,108 | 95.94% |
| DB-072 | 2,159,018 | 2,106,532 | 97.57% | HK-11 | 7,343,738 | 7,206,664 | 98.13% |
| DB-073 | 1,291,784 | 1,260,184 | 97.55% | HK-12 | 3,738,022 | 3,653,500 | 97.74% |
| DB-074 | 1,390,340 | 1,294,715 | 93.12% | HK-13 | 6,396,266 | 6,276,452 | 98.13% |
| DB-075 | 22,656 | 20,001 | 88.28% | HK-14 | 7,448,398 | 7,159,545 | 96.12% |
| DB-076 | 5,893,780 | 5,740,853 | 97.41% | HK-15 | 11,360,994 | 10,678,459 | 93.99% |
| DB-078 | 5,333,564 | 5,031,817 | 94.34% | HK-17 | 6,270,054 | 6,116,334 | 97.55% |
| DB-079 | 1,657,188 | 1,567,242 | 94.57% | HK-18 | 4,039,860 | 3,893,281 | 96.37% |
| DB-080 | 5,529,720 | 5,167,097 | 93.44% | HK-19 | 4,621,662 | 4,529,141 | 98.00% |
| DB-083 | 28,150 | 26,459 | 93.99% | HK-1 | 6,735,810 | 6,339,151 | 94.11% |
| DB-085 | 2,771,102 | 2,635,949 | 95.12% | HK-20 | 5,461,650 | 5,288,946 | 96.84% |
| DB-086 | 4,248,948 | 4,080,749 | 96.04% | HK-23 | 5,906,542 | 5,768,681 | 97.67% |
| DB-087 | 1,858,618 | 1,827,845 | 98.34% | HK-24 | 2,109,692 | 2,073,595 | 98.29% |
| DB-088 | 1,550,036 | 1,391,831 | 89.79% | HK25-165 | 2,570,908 | 2,355,098 | 91.61% |

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|--------------|-----------|-----------|--------|-----------|-----------|-----------|--------|
| DB-089 | 1,697,242 | 1,643,407 | 96.83% | HK25-78 | 2,712,006 | 2,584,958 | 95.32% |
| DB-090 | 4,099,704 | 3,996,314 | 97.48% | HK-25 | 5,357,086 | 5,217,652 | 97.40% |
| DB-091 | 1,670,114 | 1,602,795 | 95.97% | HK-27 | 4,808,426 | 4,667,993 | 97.08% |
| DB-092 | 3,542,512 | 3,455,655 | 97.55% | HK-28 | 4,217,144 | 4,156,750 | 98.57% |
| DB-093 | 1,219,316 | 1,186,058 | 97.27% | HK-29 | 2,323,074 | 2,270,949 | 97.76% |
| DaePung | 2,596,786 | 2,522,958 | 97.16% | HK-2 | 3,576,926 | 3,421,503 | 95.65% |
| DP-009 | 2,569,880 | 2,474,907 | 96.30% | HK-30 | 1,483,822 | 1,435,432 | 96.74% |
| DP-012 | 2,223,770 | 2,118,703 | 95.28% | HK-31 | 2,073,644 | 1,996,775 | 96.29% |
| DP-027 | 1,782,038 | 1,686,344 | 94.63% | HK-32 | 13,098 | 12,317 | 94.04% |
| JS-D01 | 7,165,048 | 6,727,981 | 93.90% | HK-33 | 7,246,082 | 6,919,317 | 95.49% |
| JS-D02 | 8,628,962 | 8,401,240 | 97.36% | HK-34 | 5,859,472 | 5,568,882 | 95.04% |
| JS-S | 7,391,774 | 7,078,040 | 95.76% | HK-36 | 2,396,952 | 2,308,766 | 96.32% |
| JoseangSeori | 1,857,636 | 1,819,037 | 97.92% | HK-37 | 5,051,594 | 4,835,064 | 95.71% |
| KAS360-22 | 5,195,146 | 5,038,048 | 96.98% | HK-38 | 6,030,682 | 5,891,383 | 97.69% |
| PD-D01 | 8,377,176 | 7,954,301 | 94.95% | HK-39 | 4,098,070 | 3,850,452 | 93.96% |
| PD-D02 | 7,260,034 | 7,006,109 | 96.50% | HK-3 | 2,942,544 | 2,798,506 | 95.10% |
| PD-D03 | 5,564,744 | 5,443,282 | 97.82% | HK-40 | 4,023,618 | 3,891,085 | 96.71% |
| PD-D04 | 2,595,514 | 2,491,578 | 96.00% | HK-41 | 2,050,964 | 1,975,878 | 96.34% |
| PD-D05 | 5,608,760 | 5,494,435 | 97.96% | HK-42 | 2,341,824 | 2,245,563 | 95.89% |
| PD-D06 | 2,788,036 | 2,740,730 | 98.30% | HK-43 | 1,973,358 | 1,930,209 | 97.81% |
| PD-D07 | 7,262,964 | 6,914,538 | 95.20% | HK-44 | 3,366,356 | 2,885,630 | 85.72% |
| PD-I01 | 4,531,986 | 4,439,799 | 97.97% | HK-45 | 2,278,130 | 2,235,395 | 98.12% |
| PD-I02 | 3,004,114 | 2,946,054 | 98.07% | HK-46 | 4,285,394 | 4,178,785 | 97.51% |
| PD-I03 | 8,214,314 | 8,097,931 | 98.58% | HK-47 | 1,267,764 | 1,240,580 | 97.86% |
| PD-I04 | 7,530,858 | 7,431,193 | 98.68% | HK-49 | 3,207,638 | 3,150,332 | 98.21% |
| PD-I05 | 4,006,582 | 3,943,296 | 98.42% | HK-4 | 3,678,100 | 3,465,298 | 94.21% |
| PD-I06 | 6,725,074 | 6,632,468 | 98.62% | HK-50 | 2,796,832 | 2,752,962 | 98.43% |
| PD-I07 | 3,605,464 | 3,474,416 | 96.37% | HK-5 | 7,742,168 | 7,283,375 | 94.07% |
| PalDal | 6,872,236 | 6,650,131 | 96.77% | HK-6 | 6,115,882 | 5,826,048 | 95.26% |
| KAS523-7-Ru | 4,581,976 | 4,407,956 | 96.20% | HK-8 | 5,305,742 | 5,067,657 | 95.51% |
| PD-I08-W | 4,815,088 | 4,569,244 | 94.89% | HK-9 | 7,941,772 | 7,505,106 | 94.50% |
| KAS360-22-W | 7,201,464 | 7,014,368 | 97.40% | HwangKeum | 1,589,458 | 1,517,084 | 95.45% |