**Supplemental Table 1**. Sequence reads and mapping rate of samples.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | | Raw reads | QC reads | Mapped reads | Mapping rate (%) |
| WT V (3108) | | 62,459,342 | 62,426,756 | 17,306,559 | 55.45 |
| WT V (3266) | | 64,564,614 | 62,426,756 | 18,380,268 | 58.89 |
| WT V (3429) | | 54,224,036 | 54,187,710 | 14,889,118 | 54.95 |
| WT V (3492) | | 60,631,520 | 60,590,960 | 16,475,422 | 54.38 |
| WT E2 (3433) | | 55,611,612 | 55,582,820 | 16,507,747 | 59.40 |
| WT E2 (3109) | | 61,219,330 | 61,191,984 | 16,947,245 | 55.39 |
| WT E2 (3185) | | 66,737,634 | 66,703,088 | 20,126,842 | 60.35 |
| WT E2 (3371) | | 69,311,906 | 69,272,290 | 19,950,335 | 57.60 |
| *Ezh2*cKO V (3078) | | 56,147,018 | 28,056,894 | 15,067,874 | 53.70 |
| *Ezh2*cKO V (3117) | | 71,182,178 | 35,568,339 | 19,187,717 | 53.95 |
| *Ezh2*cKO V (3219) | | 65,902,142 | 32,904,564 | 17,516,916 | 53.24 |
| *Ezh2*cKO V (3265) | | 66,702,254 | 33,320,973 | 19,010,838 | 57.05 |
| *Ezh2*cKO E2-(3458) | | 47,651,766 | 47,561,786 | 13,913,105 | 58.51 |
| *Ezh2*cKO E2 (3482) | | 73,969,658 | 73,890,060 | 21,667,429 | 58.65 |
| *Ezh2*cKO E2 (3491) | | 60,265,604 | 60,193,498 | 17,394,951 | 57.80 |
| *Ezh2*cKO E2 (3118) | | 70,623,852 | 70,394,952 | 21,042,411 | 59.78 |
| Average | **62,950,279** | | **31,378,881** | **17,836,549** | **57.00** | |