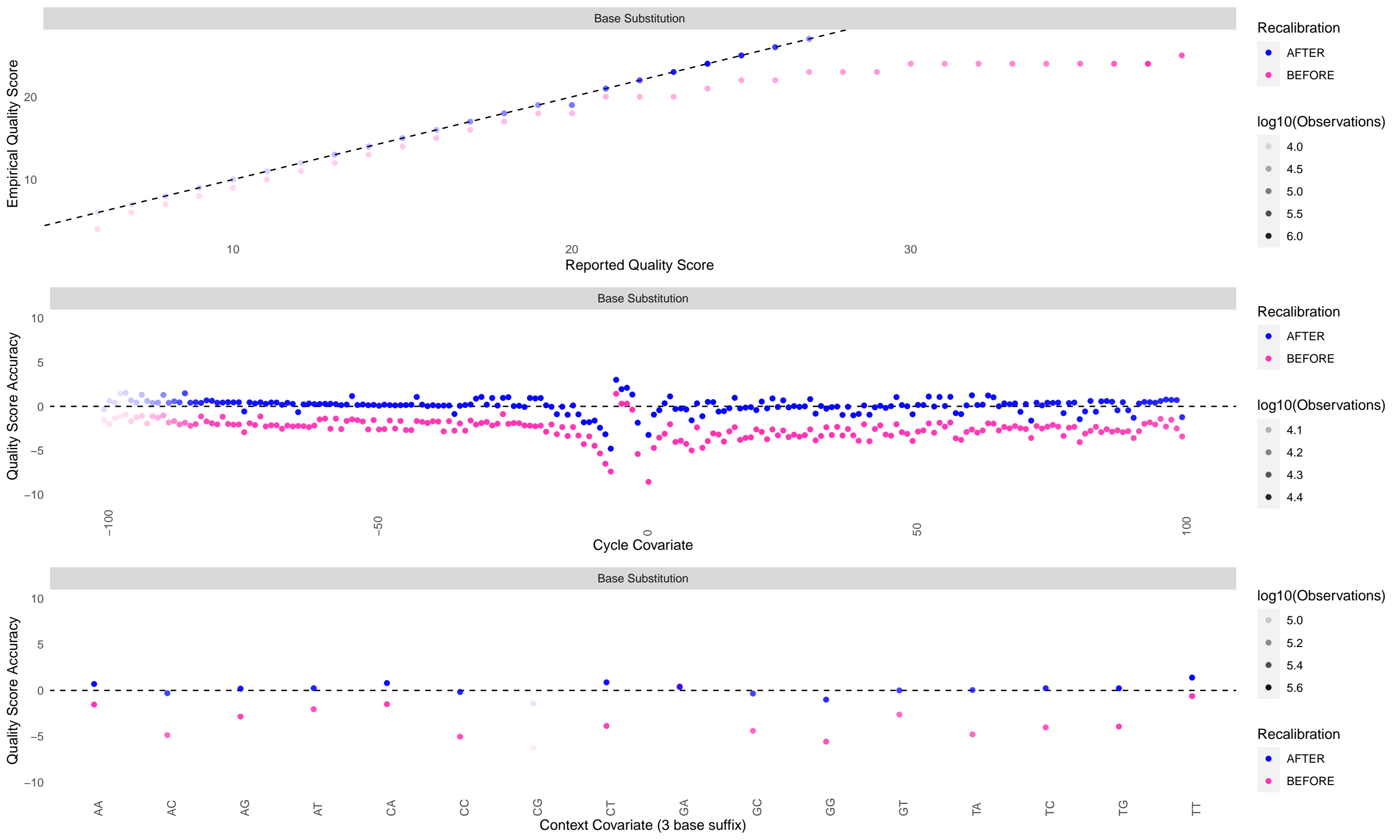
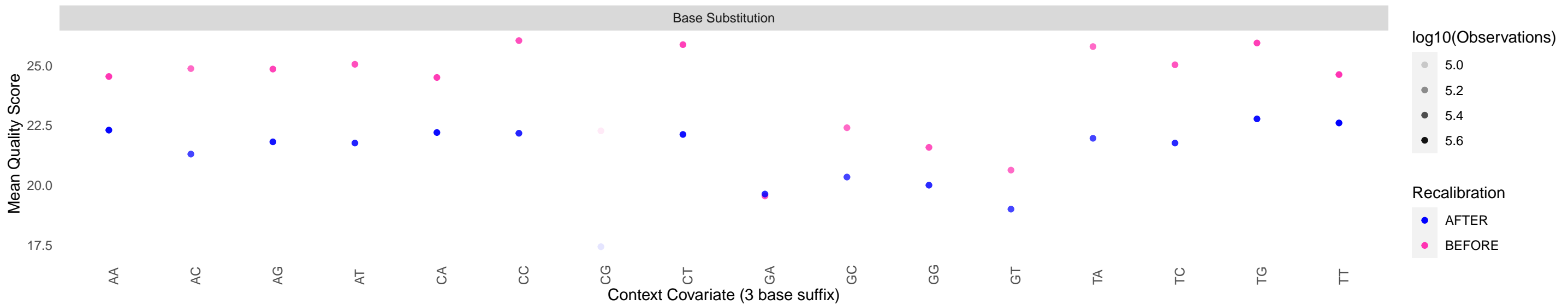
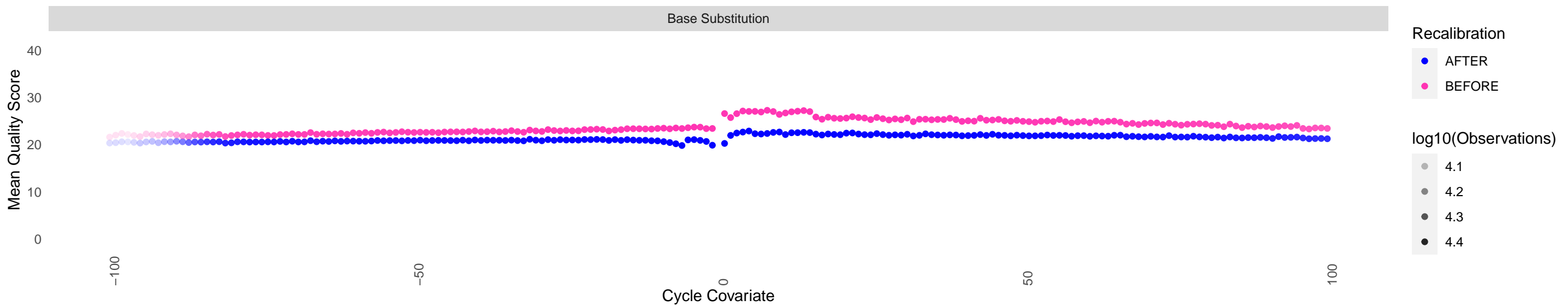
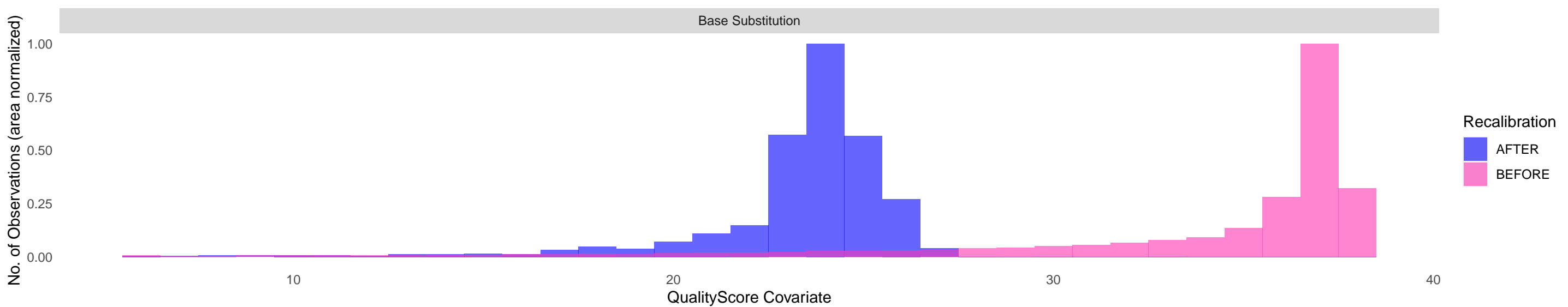


| Argument                   | Value                                |
|----------------------------|--------------------------------------|
| binary_tag_name            | None                                 |
| covariate                  | ReadGroup,QualityScore,Context,Cycle |
| default_platform           | None                                 |
| deletions_default_quality  | 45                                   |
| force_platform             | None                                 |
| indels_context_size        | 3                                    |
| insertions_default_quality | 45                                   |
| low_quality_tail           | 2                                    |
| maximum_cycle_value        | 500                                  |
| mismatches_context_size    | 2                                    |
| mismatches_default_quality | -1                                   |
| no_standard_covs           | false                                |
| quantizing_levels          | 16                                   |
| run_without_dbsnp          | false                                |
| solid_nocall_strategy      | THROW_EXCEPTION                      |
| solid_recal_mode           | SET_Q_ZERO                           |





|                    |          |
|--------------------|----------|
| ReadGroup          | unit1    |
| EventType          | M        |
| EmpiricalQuality   | 20.0     |
| EstimatedQReported | 23.7     |
| Observations       | 5.50e+06 |
| Errors             | 4.98e+04 |

Error rates by event type and initial quality score

| ReadGroup | QualityScore | EventType | EmpiricalQuality | Observations | Errors |
|-----------|--------------|-----------|------------------|--------------|--------|
| unit1     | 6            | M         | 4                | 15068        | 5488   |
| unit1     | 7            | M         | 6                | 14769        | 4058   |
| unit1     | 8            | M         | 7                | 14560        | 3120   |
| unit1     | 9            | M         | 8                | 14953        | 2425   |
| unit1     | 10           | M         | 9                | 15896        | 1970   |
| unit1     | 11           | M         | 10               | 17690        | 1665   |
| unit1     | 12           | M         | 11               | 18181        | 1375   |
| unit1     | 13           | M         | 12               | 19657        | 1210   |
| unit1     | 14           | M         | 13               | 22419        | 1050   |
| unit1     | 15           | M         | 14               | 23503        | 879    |
| unit1     | 16           | M         | 15               | 27877        | 836    |
| unit1     | 17           | M         | 16               | 28487        | 656    |
| unit1     | 18           | M         | 17               | 34079        | 685    |
| unit1     | 19           | M         | 18               | 30943        | 523    |
| unit1     | 20           | M         | 18               | 39109        | 588    |
| unit1     | 21           | M         | 20               | 43885        | 516    |
| unit1     | 22           | M         | 20               | 46796        | 499    |
| unit1     | 23           | M         | 20               | 51865        | 507    |
| unit1     | 24           | M         | 21               | 59880        | 485    |
| unit1     | 25           | M         | 22               | 62430        | 446    |
| unit1     | 26           | M         | 22               | 68066        | 498    |
| unit1     | 27           | M         | 23               | 75452        | 462    |
| unit1     | 28           | M         | 23               | 87699        | 513    |
| unit1     | 29           | M         | 23               | 98077        | 534    |
| unit1     | 30           | M         | 24               | 110199       | 573    |
| unit1     | 31           | M         | 24               | 124006       | 617    |
| unit1     | 32           | M         | 24               | 148635       | 781    |
| unit1     | 33           | M         | 24               | 171411       | 780    |
| unit1     | 34           | M         | 24               | 202036       | 982    |
| unit1     | 35           | M         | 24               | 297434       | 1280   |
| unit1     | 36           | M         | 24               | 616268       | 2635   |
| unit1     | 37           | M         | 24               | 2187223      | 8568   |
| unit1     | 38           | M         | 25               | 706559       | 2566   |